



SRC ENERGY

**SECTION 15, T6N, R66W
HARVESTERS STATE 7-15 PAD
HARVESTERS STATE 12N-16A-M**

**OH
PLAN #1**

Anticollision Report

02 October, 2017





Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Reference | PLAN #1 | | |
|------------------------------|---|----------------|---------------------|
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.00ft | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 10,000.00 ft | Error Surface: | Pedal Curve |
| Warning Levels Evaluated at: | 2.45 Sigma | Casing Method: | Not applied |

| Survey Tool Program | | Date | 10/2/2017 | | |
|---------------------|------------|-------------------|-----------|-----------------|--|
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.00 | 14,915.54 | PLAN #1 (OH) | MWD+IFR1 | OWSG MWD + IFR1 | |

| Summary | | | | | | |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| HARVESTERS STATE 7-15 PAD | | | | | | |
| BERG 33-15 (AB_150CC) - OH - OH | 5,762.43 | 5,552.01 | 453.31 | 399.46 | 8.418 | CC |
| BERG 33-15 (AB_150CC) - OH - OH | 5,800.00 | 5,588.09 | 453.43 | 399.22 | 8.365 | ES |
| BERG 33-15 (AB_150CC) - OH - OH | 6,200.00 | 5,970.28 | 467.60 | 409.82 | 8.092 | SF |
| BERRY 22-2(PR_75CC) - OH - OH | 6,979.22 | 6,692.97 | 2,595.29 | 2,533.46 | 41.979 | CC |
| BERRY 22-2(PR_75CC) - OH - OH | 7,000.00 | 6,709.05 | 2,595.46 | 2,533.45 | 41.859 | ES |
| BERRY 22-2(PR_75CC) - OH - OH | 7,600.00 | 6,913.00 | 2,758.58 | 2,690.29 | 40.398 | SF |
| BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH | 6,976.62 | 6,782.52 | 2,613.90 | 2,551.72 | 42.041 | CC, ES |
| BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH | 7,700.00 | 7,048.60 | 2,826.16 | 2,756.21 | 40.406 | SF |
| BLACKGOLD 3(AB_150CC) - OH - OH | 0.00 | 23.88 | 2,810.81 | | | |
| BLACKGOLD 3(AB_150CC) - OH - OH | 10,600.00 | 6,974.21 | 4,964.74 | 4,845.12 | 41.505 | SF |
| BURBACH 15-22(SI_150CC) - OH - OH | 200.00 | 180.00 | 2,448.89 | 2,439.95 | 274.031 | CC |
| BURBACH 15-22(SI_150CC) - OH - OH | 500.00 | 479.45 | 2,454.94 | 2,435.80 | 128.303 | ES |
| BURBACH 15-22(SI_150CC) - OH - OH | 9,400.00 | 6,922.92 | 2,890.36 | 2,576.36 | 9.205 | SF |
| BURBACH 15-23(SI_150CC) - OH - OH | 9,277.05 | 6,908.39 | 1,515.53 | 1,203.26 | 4.853 | CC |
| BURBACH 15-23(SI_150CC) - OH - OH | 9,300.00 | 6,908.30 | 1,515.70 | 1,202.95 | 4.846 | ES |
| BURBACH 15-23(SI_150CC) - OH - OH | 9,400.00 | 6,907.92 | 1,520.50 | 1,205.79 | 4.831 | SF |
| BURMAN 16-42(PR_75CC) - OH - OH | 11,545.55 | 6,888.78 | 360.00 | -12.52 | 0.966 | Level 1, CC, ES, SF |
| BURMAN 16-43(PR_75CC) - OH - OH | 11,560.39 | 6,885.73 | 1,140.87 | 768.05 | 3.060 | CC |
| BURMAN 16-43(PR_75CC) - OH - OH | 11,600.00 | 6,885.58 | 1,141.56 | 767.50 | 3.052 | ES, SF |
| DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN | 9,825.95 | 7,243.13 | 1,659.26 | 1,537.37 | 13.612 | CC |
| DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN | 14,915.55 | 12,350.68 | 1,801.90 | 1,392.22 | 4.398 | ES, SF |
| DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN | 9,654.72 | 7,177.56 | 1,860.05 | 1,744.06 | 16.036 | CC |
| DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN | 14,915.55 | 12,414.22 | 1,950.05 | 1,542.34 | 4.783 | ES, SF |
| FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1 | 6,422.55 | 15,944.62 | 3,954.12 | 3,677.36 | 14.287 | CC |
| FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1 | 10,100.00 | 19,118.26 | 4,050.49 | 3,614.34 | 9.287 | ES |
| FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1 | 10,500.00 | 19,118.26 | 4,076.92 | 3,632.91 | 9.182 | SF |
| FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1 | 6,360.86 | 15,888.73 | 3,769.74 | 3,492.49 | 13.597 | CC |
| FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1 | 10,100.00 | 19,018.34 | 3,843.86 | 3,408.03 | 8.820 | ES |
| FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1 | 10,500.00 | 19,018.34 | 3,871.67 | 3,428.68 | 8.740 | SF |
| FRITZLER 11-21-4(PR_150CC) - OH - OH | 13,823.15 | 6,952.35 | 1,630.66 | 1,400.38 | 7.081 | CC |
| FRITZLER 11-21-4(PR_150CC) - OH - OH | 13,900.00 | 6,953.97 | 1,632.47 | 1,399.74 | 7.014 | ES |
| FRITZLER 11-21-4(PR_150CC) - OH - OH | 14,000.00 | 6,956.10 | 1,640.22 | 1,404.95 | 6.972 | SF |
| FRITZLER 11-21(PR_150CC) - OH - OH | 14,426.53 | 6,856.86 | 2,296.08 | 1,843.94 | 5.078 | CC |
| FRITZLER 11-21(PR_150CC) - OH - OH | 14,500.00 | 6,856.58 | 2,297.25 | 1,842.96 | 5.057 | ES |
| FRITZLER 11-21(PR_150CC) - OH - OH | 14,700.00 | 6,855.82 | 2,312.30 | 1,853.24 | 5.037 | SF |
| FRITZLER 1-17(PR_150CC) - OH - OH | 14,915.55 | 6,870.00 | 1,260.20 | 848.39 | 3.060 | CC, ES, SF |
| FRITZLER 17-23-18(PR_150CC) - OH - OH | 14,915.55 | 7,239.37 | 2,863.78 | 2,780.09 | 34.219 | CC, ES, SF |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

Summary

| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|-----------------|
| Offset Well - Wellbore - Design | | | | | | |
| HARVESTERS STATE 7-15 PAD | | | | | | |
| FRITZLER 17-32-12(PR_150CC) - OH - OH | 14,915.55 | 7,282.36 | 1,766.22 | 1,587.54 | 9.885 | CC, ES, SF |
| FRITZLER 17-42-11(PR_150CC) - OH - MWD | 14,915.55 | 7,252.49 | 1,008.82 | 743.49 | 3.802 | CC, ES, SF |
| FRITZLER 34-17(PR_150CC) - OH - OH | 14,915.55 | 6,983.62 | 2,327.35 | 2,192.79 | 17.297 | CC, ES, SF |
| FRITZLER 43-17(PR_150CC) - OH - OH | 14,915.55 | 7,037.69 | 902.18 | 760.67 | 6.375 | CC, ES, SF |
| FRITZLER 6-6-17 (PR_150CC) - OH - OH | 14,915.55 | 6,925.74 | 1,532.59 | 1,440.53 | 16.647 | CC, ES, SF |
| FRITZLER 6-8-17(PR_150CC) - OH - OH | 14,915.55 | 6,998.78 | 2,153.51 | 1,957.25 | 10.972 | CC, ES, SF |
| FRITZLER 8-8-17(PR_150CC) - OH - OH | 14,915.55 | 6,927.56 | 1,633.70 | 1,375.18 | 6.320 | CC, ES, SF |
| GREELEY SWD #1(XX) - OH - OH | 10,129.09 | 6,876.16 | 1,357.34 | 1,023.92 | 4.071 | CC |
| GREELEY SWD #1(XX) - OH - OH | 10,200.00 | 6,875.89 | 1,359.19 | 1,023.67 | 4.051 | ES |
| GREELEY SWD #1(XX) - OH - OH | 10,300.00 | 6,875.51 | 1,368.06 | 1,029.97 | 4.046 | SF |
| HARVESTER 31-15(SI_150CC) - OH - OH | 0.00 | 0.00 | 1,276.26 | | | |
| HARVESTER 31-15(SI_150CC) - OH - OH | 7,000.00 | 6,758.05 | 2,921.00 | 2,859.45 | 47.455 | SF |
| HARVESTER 32-15(SI_150CC) - OH - OH | 100.00 | 77.78 | 536.98 | 530.41 | 81.738 | CC, ES |
| HARVESTER 32-15(SI_150CC) - OH - OH | 6,600.00 | 6,383.59 | 1,798.41 | 1,740.00 | 30.788 | SF |
| HARVESTER STATE 30C-16-M - OH - PLAN #1 | 200.00 | 202.00 | 379.98 | 373.31 | 56.920 | CC, ES |
| HARVESTER STATE 30C-16-M - OH - PLAN #1 | 14,915.55 | 15,216.01 | 3,573.38 | 3,117.81 | 7.844 | SF |
| HARVESTER STATE 30N-16B-M - OH - PLAN #1 | 200.00 | 202.00 | 360.31 | 353.64 | 53.974 | CC, ES |
| HARVESTER STATE 30N-16B-M - OH - PLAN #1 | 14,915.55 | 14,942.37 | 3,343.45 | 2,886.68 | 7.320 | SF |
| HARVESTER STATE 31C-16-M - OH - PLAN #1 | 200.00 | 201.00 | 280.16 | 273.48 | 41.972 | CC, ES |
| HARVESTER STATE 31C-16-M - OH - PLAN #1 | 14,915.55 | 14,995.74 | 2,478.73 | 2,024.69 | 5.459 | SF |
| HARVESTER STATE 33C-16-M - OH - PLAN #1 | 906.92 | 902.15 | 19.19 | 9.08 | 1.897 | CC |
| HARVESTER STATE 33C-16-M - OH - PLAN #1 | 1,000.00 | 994.64 | 19.58 | 8.78 | 1.813 | ES |
| HARVESTER STATE 33C-16-M - OH - PLAN #1 | 14,915.55 | 15,256.47 | 352.31 | 59.76 | 1.204 | Level 2, SF |
| HARVESTER STATE 34C-16-M - OH - PLAN #1 | 1,000.00 | 962.24 | 135.43 | 124.76 | 12.692 | CC, ES |
| HARVESTER STATE 34C-16-M - OH - PLAN #1 | 14,915.55 | 15,775.66 | 1,500.17 | 1,053.38 | 3.358 | SF |
| HARVESTER STATE 5C-16-M - OH - PLAN #1 | 200.00 | 201.00 | 240.09 | 233.41 | 35.969 | CC, ES |
| HARVESTER STATE 5C-16-M - OH - PLAN #1 | 14,915.55 | 14,987.41 | 2,042.22 | 1,589.40 | 4.510 | SF |
| HARVESTER STATE 12N-16B-M - OH - PLAN #1 | 850.12 | 854.63 | 19.64 | 9.89 | 2.015 | CC |
| HARVESTER STATE 12N-16B-M - OH - PLAN #1 | 14,915.55 | 14,982.18 | 244.12 | -160.84 | 0.603 | Level 1, ES, SF |
| HARVESTER STATE 13C-16-M - OH - PLAN #1 | 1,000.00 | 977.66 | 77.36 | 66.63 | 7.209 | CC, ES |
| HARVESTER STATE 13C-16-M - OH - PLAN #1 | 14,915.55 | 15,427.01 | 888.76 | 457.59 | 2.061 | SF |
| HARVESTER STATE 33N-16C-M - OH - PLAN #1 | 924.75 | 909.16 | 57.92 | 47.72 | 5.678 | CC |
| HARVESTER STATE 33N-16C-M - OH - PLAN #1 | 1,000.00 | 982.93 | 58.02 | 47.27 | 5.397 | ES |
| HARVESTER STATE 33N-16C-M - OH - PLAN #1 | 14,915.55 | 15,267.08 | 655.35 | 217.65 | 1.497 | Level 3, SF |
| HARVESTER STATE 4C-16-M - OH - PLAN #1 | 200.00 | 202.00 | 340.28 | 336.32 | 85.927 | CC, ES |
| HARVESTER STATE 4C-16-M - OH - PLAN #1 | 14,915.55 | 15,116.21 | 3,170.63 | 2,715.60 | 6.968 | SF |
| HARVESTERS RESOURCES 15M-303 (PR_150CC) - O | 7,143.92 | 10,469.23 | 423.09 | 344.73 | 5.400 | CC |
| HARVESTERS RESOURCES 15M-303 (PR_150CC) - O | 7,200.00 | 10,478.69 | 429.09 | 341.17 | 4.880 | ES |
| HARVESTERS RESOURCES 15M-303 (PR_150CC) - O | 7,300.00 | 10,493.20 | 467.50 | 366.22 | 4.616 | SF |
| HARVESTERS RESOURCES 15M-423(PR_150CC) - O | 7,010.02 | 10,511.55 | 686.17 | 595.58 | 7.574 | CC, ES |
| HARVESTERS RESOURCES 15M-423(PR_150CC) - O | 7,200.00 | 10,539.72 | 737.60 | 631.43 | 6.947 | SF |
| HARVESTERS RESOURCES 15R-243(PR_150CC) - OH | 6,858.90 | 10,415.21 | 981.21 | 878.99 | 9.598 | CC |
| HARVESTERS RESOURCES 15R-243(PR_150CC) - OH | 6,900.00 | 10,423.53 | 983.36 | 878.85 | 9.409 | ES |
| HARVESTERS RESOURCES 15R-243(PR_150CC) - OH | 7,000.00 | 10,442.47 | 1,006.11 | 896.79 | 9.203 | SF |
| HARVESTERS RESOURCES 15R-403(PR_150CC) - OH | 6,834.41 | 10,546.39 | 1,338.06 | 1,230.66 | 12.459 | CC, ES |
| HARVESTERS RESOURCES 15R-403(PR_150CC) - OH | 7,000.00 | 10,583.39 | 1,368.74 | 1,255.70 | 12.108 | SF |
| HARVESTERS STATE 12N-16C-M - OH - PLAN #1 | 723.16 | 730.48 | 39.62 | 30.71 | 4.446 | CC |
| HARVESTERS STATE 12N-16C-M - OH - PLAN #1 | 14,914.72 | 15,009.50 | 454.42 | 25.97 | 1.061 | Level 2, ES, SF |
| HARVESTERS STATE 13N-16B-M - OH - PLAN #1 | 1,000.00 | 972.46 | 96.69 | 85.98 | 9.028 | CC, ES |
| HARVESTERS STATE 13N-16B-M - OH - PLAN #1 | 14,915.55 | 15,329.91 | 1,058.48 | 606.27 | 2.341 | SF |
| HARVESTERS STATE 31N-16B-M - OH - PLAN #1 | 200.00 | 201.00 | 260.13 | 253.46 | 38.972 | CC, ES |
| HARVESTERS STATE 31N-16B-M - OH - PLAN #1 | 14,915.55 | 14,817.75 | 2,241.95 | 1,785.26 | 4.909 | SF |
| HARVESTERS STATE 32C-16-M - OH - PLAN #1 | 670.12 | 680.05 | 59.53 | 50.93 | 6.927 | CC, ES |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

Summary

| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|--|--|-------------------------------------|--|---|----------------------|-----------------|
| Offset Well - Wellbore - Design | | | | | | |
| HARVESTERS STATE 7-15 PAD | | | | | | |
| HARVESTERS STATE 32C-16-M - OH - PLAN #1 | 14,909.84 | 15,086.02 | 690.64 | 230.52 | 1.501 | SF |
| HARVESTERS STATE 32C-16-M2 - OH - PLAN #1 | 200.00 | 201.00 | 179.98 | 173.30 | 26.963 | CC, ES |
| HARVESTERS STATE 32C-16-M2 - OH - PLAN #1 | 14,906.97 | 15,011.92 | 1,389.58 | 940.59 | 3.095 | SF |
| HARVESTERS STATE 32N-16B-M - OH - PLAN #1 | 200.00 | 200.00 | 80.15 | 73.48 | 12.010 | CC, ES |
| HARVESTERS STATE 32N-16B-M - OH - PLAN #1 | 14,909.45 | 14,879.07 | 836.16 | 382.38 | 1.843 | SF |
| HARVESTERS STATE 32N-16C-M - OH - PLAN #1 | 200.00 | 201.00 | 160.31 | 153.63 | 24.017 | CC, ES |
| HARVESTERS STATE 34N-16C-M - OH - PLAN #1 | 14,908.06 | 14,918.89 | 1,154.41 | 701.54 | 2.549 | SF |
| HARVESTERS STATE 33N-16B-M - OH - PLAN #1 | 914.91 | 905.25 | 38.67 | 28.52 | 3.809 | CC |
| HARVESTERS STATE 33N-16B-M - OH - PLAN #1 | 14,915.55 | 15,139.52 | 442.17 | 6.46 | 1.015 | Level 2, ES, SF |
| HARVESTERS STATE 34N-16C-M - OH - PLAN #1 | 1,000.00 | 967.32 | 116.04 | 105.35 | 10.855 | CC, ES |
| HARVESTERS STATE 34N-16C-M - OH - PLAN #1 | 14,915.55 | 15,475.82 | 1,274.36 | 823.74 | 2.828 | SF |
| HARVESTERS STATE 4N-16A-M - OH - PLAN #1 | 200.00 | 201.00 | 300.20 | 293.52 | 44.974 | CC, ES |
| HARVESTERS STATE 4N-16A-M - OH - PLAN #1 | 14,915.55 | 14,732.12 | 2,682.02 | 2,225.40 | 5.874 | SF |
| HARVESTERS STATE 4N-16C-M - OH - PLAN #1 | 200.00 | 201.00 | 320.24 | 313.57 | 47.977 | CC, ES |
| HARVESTERS STATE 4N-16C-M - OH - PLAN #1 | 14,915.55 | 14,969.16 | 2,808.19 | 2,352.79 | 6.166 | SF |
| HARVESTERS STATE 5N-16B-M - OH - PLAN #1 | 200.00 | 201.00 | 200.02 | 193.34 | 29.966 | CC, ES |
| HARVESTERS STATE 5N-16B-M - OH - PLAN #1 | 14,906.35 | 14,811.79 | 1,684.36 | 1,228.39 | 3.694 | SF |
| HARVESTERS STATE 5N-16C-M - OH - PLAN #1 | 200.00 | 201.00 | 220.05 | 213.38 | 32.967 | CC, ES |
| HARVESTERS STATE 5N-16C-M - OH - PLAN #1 | 14,915.55 | 14,872.41 | 1,810.20 | 1,355.62 | 3.982 | SF |
| HOOD 41-20(PR_150CC) - OH - OH | 14,915.55 | 6,862.00 | 2,462.00 | 2,011.41 | 5.464 | CC, ES, SF |
| HOOD 6-2-20(PR_150CC) - OH - OH | 14,915.55 | 7,258.13 | 3,262.73 | 3,024.46 | 13.693 | CC, ES, SF |
| LEFFLER 1 21-2(SI_75CC) - OH - OH | 11,765.83 | 6,871.64 | 2,267.44 | 2,098.23 | 13.400 | CC |
| LEFFLER 1 21-2(SI_75CC) - OH - OH | 11,800.00 | 6,873.05 | 2,267.70 | 2,097.46 | 13.320 | ES |
| LEFFLER 1 21-2(SI_75CC) - OH - OH | 12,300.00 | 6,894.33 | 2,329.39 | 2,147.68 | 12.819 | SF |
| LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P | 7,500.00 | 9,937.14 | 1,964.88 | 1,835.26 | 15.160 | ES |
| LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P | 9,721.49 | 7,719.63 | 1,960.05 | 1,839.72 | 16.289 | CC |
| LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P | 10,800.00 | 7,125.87 | 2,077.01 | 1,933.10 | 14.433 | SF |
| LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN | 7,200.00 | 10,078.43 | 1,711.12 | 1,574.79 | 12.551 | SF |
| LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN | 9,731.14 | 7,575.97 | 1,659.91 | 1,538.24 | 13.643 | CC |
| LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN | 9,800.00 | 7,530.34 | 1,660.40 | 1,537.36 | 13.495 | ES |
| LEFFLER FARM 1-21(PA_75CC) - OH - OH | 13,109.62 | 6,863.85 | 2,483.93 | 2,068.64 | 5.981 | CC |
| LEFFLER FARM 1-21(PA_75CC) - OH - OH | 13,200.00 | 6,863.51 | 2,485.58 | 2,067.65 | 5.947 | ES |
| LEFFLER FARM 1-21(PA_75CC) - OH - OH | 13,400.00 | 6,862.75 | 2,500.85 | 2,077.90 | 5.913 | SF |
| LOVELY 1(AB_150CC) - OH - OH | 13,081.35 | 6,910.96 | 4,315.05 | 3,898.91 | 10.369 | CC |
| LOVELY 1(AB_150CC) - OH - OH | 13,200.00 | 6,910.51 | 4,316.68 | 3,897.46 | 10.297 | ES |
| LOVELY 1(AB_150CC) - OH - OH | 13,900.00 | 6,907.85 | 4,392.02 | 3,957.50 | 10.108 | SF |
| LOVELY 14-9(AB_150CC) - OH - OH | 14,577.98 | 6,908.28 | 4,258.86 | 3,800.66 | 9.295 | CC |
| LOVELY 14-9(AB_150CC) - OH - OH | 14,700.00 | 6,907.82 | 4,260.61 | 3,799.24 | 9.235 | ES |
| LOVELY 14-9(AB_150CC) - OH - OH | 14,915.55 | 6,907.00 | 4,272.22 | 3,805.71 | 9.158 | SF |
| LUCAS SCHOOL 1(TA_150CC) - OH - OH | 10,352.80 | 6,941.31 | 4,349.16 | 4,007.46 | 12.728 | CC |
| LUCAS SCHOOL 1(TA_150CC) - OH - OH | 10,500.00 | 6,940.75 | 4,351.65 | 4,006.25 | 12.599 | ES |
| LUCAS SCHOOL 1(TA_150CC) - OH - OH | 11,400.00 | 6,937.34 | 4,473.46 | 4,108.03 | 12.242 | SF |
| LUCAS SCHOOL 34-9(TA_150CC) - OH - OH | 11,568.31 | 6,903.30 | 4,327.50 | 3,953.85 | 11.581 | CC |
| LUCAS SCHOOL 34-9(TA_150CC) - OH - OH | 11,700.00 | 6,903.80 | 4,329.51 | 3,952.44 | 11.482 | ES |
| LUCAS SCHOOL 34-9(TA_150CC) - OH - OH | 12,500.00 | 6,906.84 | 4,426.66 | 4,031.66 | 11.207 | SF |
| MAURICE LEFFLER 1(AB_150CC) - OH - OH | 13,124.20 | 4,452.00 | 3,322.35 | 3,081.99 | 13.823 | CC |
| MAURICE LEFFLER 1(AB_150CC) - OH - OH | 13,200.00 | 4,452.00 | 3,323.21 | 3,081.21 | 13.732 | ES |
| MAURICE LEFFLER 1(AB_150CC) - OH - OH | 14,000.00 | 4,452.00 | 3,435.84 | 3,177.33 | 13.291 | SF |
| MCGLOTHLIN 8-6-17 (PR_150CC) - OH - OH | 14,915.55 | 7,073.04 | 362.34 | 157.11 | 1.766 | CC, ES, SF |
| MCGLOTHLIN 17-11(PR_75CC) - OH - OH | 14,915.55 | 6,907.00 | 3,284.77 | 2,824.87 | 7.142 | CC, ES, SF |
| MONTERA 10-34 (PR_75CC) - OH - OH | 225.55 | 261.35 | 2,446.25 | 2,439.49 | 361.759 | CC, ES |
| MONTERA 10-34 (PR_75CC) - OH - OH | 10,100.00 | 7,000.01 | 5,404.04 | 5,301.11 | 52.503 | SF |
| RUTT-ADAMS HEIRS 2-22 - OH - OH | 7,809.64 | 6,889.95 | 2,284.75 | 2,005.46 | 8.180 | CC, ES |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

Summary

| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------------|
| Offset Well - Wellbore - Design | | | | | | |
| HARVESTERS STATE 7-15 PAD | | | | | | |
| RUTT-ADAMS HEIRS 2-22 - OH - OH | 8,200.00 | 6,888.47 | 2,317.86 | 2,030.91 | 8.077 | SF |
| SENA 15-21(PR_75CC) - OH - OH | 200.00 | 204.00 | 1,826.99 | 1,817.36 | 189.625 | CC |
| SENA 15-21(PR_75CC) - OH - OH | 300.00 | 304.02 | 1,828.23 | 1,815.34 | 141.781 | ES |
| SENA 15-21(PR_75CC) - OH - OH | 8,500.00 | 6,942.34 | 3,165.14 | 2,871.99 | 10.797 | SF |
| SENA 15-24(PR_75CC) - OH - OH | 200.00 | 182.00 | 1,107.42 | 1,098.43 | 123.139 | CC |
| SENA 15-24(PR_75CC) - OH - OH | 1,200.00 | 1,165.06 | 1,119.62 | 1,074.31 | 24.709 | ES |
| SENA 15-24(PR_75CC) - OH - OH | 8,000.00 | 6,930.23 | 1,808.77 | 1,525.23 | 6.379 | SF |
| SENA 15-25(PR_75CC) - OH - OH | 200.00 | 189.00 | 1,677.16 | 1,667.97 | 182.417 | CC |
| SENA 15-25(PR_75CC) - OH - OH | 500.00 | 488.45 | 1,683.27 | 1,663.83 | 86.583 | ES |
| SENA 15-25(PR_75CC) - OH - OH | 8,600.00 | 6,934.96 | 2,514.79 | 2,219.27 | 8.510 | SF |
| STATE 1(AB_150CC) - OH - OH | 11,721.89 | 6,886.11 | 3,014.38 | 2,637.07 | 7.989 | CC |
| STATE 1(AB_150CC) - OH - OH | 11,800.00 | 6,885.82 | 3,015.39 | 2,636.13 | 7.951 | ES |
| STATE 1(AB_150CC) - OH - OH | 12,200.00 | 6,884.30 | 3,052.06 | 2,664.26 | 7.870 | SF |
| STATE BEATRICE 16-1(AB_150CC) - OH - OH | 11,851.65 | 6,887.62 | 3,035.94 | 2,654.98 | 7.969 | CC |
| STATE BEATRICE 16-1(AB_150CC) - OH - OH | 11,900.00 | 6,887.44 | 3,036.33 | 2,654.14 | 7.945 | ES |
| STATE BEATRICE 16-1(AB_150CC) - OH - OH | 12,300.00 | 6,885.92 | 3,068.87 | 2,677.96 | 7.851 | SF |
| STATE BEATRICE 32-16(PR_75CC) - OH - OH | 11,657.72 | 6,881.36 | 1,562.93 | 1,187.56 | 4.164 | CC |
| STATE BEATRICE 32-16(PR_75CC) - OH - OH | 11,700.00 | 6,881.20 | 1,563.50 | 1,187.18 | 4.155 | ES |
| STATE BEATRICE 32-16(PR_75CC) - OH - OH | 11,800.00 | 6,880.82 | 1,569.39 | 1,191.20 | 4.150 | SF |
| STATE-HOPPE 16-1(SI_75CC) - OH - OH | 14,411.66 | 6,867.91 | 1,128.18 | 676.08 | 2.495 | CC, ES |
| STATE-HOPPE 16-1(SI_75CC) - OH - OH | 14,500.00 | 6,867.58 | 1,131.63 | 677.20 | 2.490 | SF |
| STATE-HOPPE 16-2(PR_75CC) - OH - OH | 13,267.12 | 6,885.25 | 356.86 | -63.60 | 0.849 | Level 1, CC, ES, SF |
| STATE-HOPPE 16-3(PR_150CC) - OH - OH | 14,467.03 | 6,902.73 | 1,521.33 | 1,276.18 | 6.206 | CC |
| STATE-HOPPE 16-3(PR_150CC) - OH - OH | 14,500.00 | 6,903.11 | 1,521.68 | 1,275.79 | 6.188 | ES |
| STATE-HOPPE 16-3(PR_150CC) - OH - OH | 14,600.00 | 6,904.27 | 1,527.12 | 1,279.56 | 6.169 | SF |
| STOCKOVER 16-1(PR_75CC) - OH - OH | 10,315.36 | 6,878.45 | 384.85 | 46.35 | 1.137 | Level 2, CC, ES, SF |
| ULRICH PC I 17-07D(PR_75CC) - OH - OH | 14,915.55 | 7,043.85 | 2,662.86 | 2,482.55 | 14.768 | CC, ES, SF |
| ULRICH PC I 17-08(PR_75CC) - OH - OH | 14,915.55 | 6,884.00 | 1,944.56 | 1,504.09 | 4.415 | CC, ES, SF |
| ULRICH PC I17-17D(PR_75CC) - OH - OH | 14,915.55 | 7,101.07 | 3,010.90 | 2,786.24 | 13.402 | CC, ES, SF |

| Offset Design HARVESTERS STATE 7-15 PAD - BERG 33-15 (AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|----------------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------|---------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference Measured Depth (ft) | Vertical Depth (ft) | Offset Measured Depth (ft) | Vertical Depth (ft) | Semi Major Axis | | | Distance | | | Minimum Separation | | Warning | | |
| Measured Depth (ft) | Depth (ft) | Measured Depth (ft) | Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Separation Factor | | | |
| 0.00 | 0.00 | 0.00 | 37.00 | 3.28 | 3.28 | 165.71 | -1,379.99 | 351.59 | 1,424.55 | | | | | |
| 100.00 | 100.00 | 60.10 | 97.10 | 3.28 | 3.28 | 165.71 | -1,380.05 | 351.59 | 1,424.14 | 1,417.57 | 6.57 | 216.855 | | |
| 200.00 | 200.00 | 158.65 | 195.65 | 3.34 | 3.31 | 165.71 | -1,380.36 | 351.57 | 1,424.44 | 1,417.79 | 6.65 | 214.200 | | |
| 300.00 | 299.98 | 260.89 | 297.89 | 3.44 | 3.40 | -19.69 | -1,380.68 | 351.36 | 1,423.04 | 1,416.20 | 6.84 | 207.979 | | |
| 400.00 | 399.84 | 361.50 | 398.50 | 3.59 | 3.54 | -19.79 | -1,380.79 | 351.29 | 1,418.20 | 1,411.07 | 7.13 | 198.825 | | |
| 500.00 | 499.45 | 460.79 | 497.79 | 3.79 | 3.72 | -19.97 | -1,380.90 | 351.31 | 1,410.11 | 1,402.60 | 7.51 | 187.662 | | |
| 600.00 | 598.70 | 556.62 | 593.62 | 4.03 | 3.93 | -20.21 | -1,381.05 | 351.45 | 1,398.85 | 1,390.89 | 7.97 | 175.582 | | |
| 700.00 | 697.47 | 652.68 | 689.68 | 4.31 | 4.18 | -20.53 | -1,381.53 | 351.55 | 1,384.67 | 1,376.18 | 8.49 | 163.149 | | |
| 800.00 | 795.62 | 753.01 | 790.00 | 4.64 | 4.45 | -20.93 | -1,382.12 | 351.40 | 1,367.31 | 1,358.23 | 9.08 | 150.638 | | |
| 900.00 | 893.06 | 853.39 | 890.39 | 5.00 | 4.76 | -21.41 | -1,382.56 | 350.87 | 1,346.54 | 1,336.82 | 9.72 | 138.586 | | |
| 1,000.00 | 989.78 | 951.80 | 988.79 | 5.39 | 5.07 | -21.87 | -1,382.84 | 350.36 | 1,322.98 | 1,312.59 | 10.39 | 127.325 | | |
| 1,100.00 | 1,086.42 | 1,047.42 | 1,084.40 | 5.81 | 5.39 | -22.25 | -1,383.09 | 349.70 | 1,299.11 | 1,288.03 | 11.08 | 117.247 | | |
| 1,200.00 | 1,183.06 | 1,142.35 | 1,179.33 | 6.25 | 5.72 | -22.65 | -1,383.52 | 349.14 | 1,275.48 | 1,263.69 | 11.80 | 108.125 | | |
| 1,300.00 | 1,279.69 | 1,239.38 | 1,276.37 | 6.71 | 6.06 | -23.07 | -1,383.99 | 348.51 | 1,251.93 | 1,239.39 | 12.54 | 99.809 | | |
| 1,400.00 | 1,376.33 | 1,337.04 | 1,374.01 | 7.17 | 6.42 | -23.50 | -1,384.49 | 347.73 | 1,228.44 | 1,215.13 | 13.31 | 92.279 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BERG 33-15 (AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 1,500.00 | 1,472.97 | 1,436.37 | 1,473.35 | 7.65 | 6.79 | -23.95 | -1,384.82 | 346.93 | 1,204.85 | 1,190.75 | 14.10 | 85.434 | | |
| 1,600.00 | 1,569.61 | 1,535.42 | 1,572.39 | 8.13 | 7.16 | -24.44 | -1,384.90 | 346.23 | 1,181.12 | 1,166.22 | 14.91 | 79.238 | | |
| 1,700.00 | 1,666.24 | 1,632.26 | 1,669.22 | 8.62 | 7.53 | -24.91 | -1,384.95 | 345.22 | 1,157.34 | 1,141.62 | 15.72 | 73.645 | | |
| 1,800.00 | 1,762.88 | 1,726.60 | 1,763.57 | 9.12 | 7.90 | -25.39 | -1,385.12 | 344.30 | 1,133.78 | 1,117.25 | 16.53 | 68.595 | | |
| 1,900.00 | 1,859.52 | 1,822.24 | 1,859.20 | 9.62 | 8.27 | -25.90 | -1,385.44 | 343.39 | 1,110.45 | 1,093.10 | 17.36 | 63.983 | | |
| 2,000.00 | 1,956.16 | 1,919.15 | 1,956.10 | 10.13 | 8.66 | -26.44 | -1,385.78 | 342.44 | 1,087.22 | 1,069.03 | 18.19 | 59.756 | | |
| 2,100.00 | 2,052.79 | 2,014.50 | 2,051.45 | 10.64 | 9.04 | -26.98 | -1,386.28 | 341.34 | 1,064.17 | 1,045.14 | 19.04 | 55.900 | | |
| 2,200.00 | 2,149.43 | 2,111.25 | 2,148.19 | 11.15 | 9.42 | -27.55 | -1,386.81 | 340.26 | 1,041.27 | 1,021.38 | 19.89 | 52.350 | | |
| 2,300.00 | 2,246.07 | 2,206.47 | 2,243.40 | 11.66 | 9.81 | -28.15 | -1,387.31 | 339.52 | 1,018.56 | 997.81 | 20.75 | 49.095 | | |
| 2,400.00 | 2,342.71 | 2,302.91 | 2,339.84 | 12.18 | 10.20 | -28.79 | -1,387.89 | 338.81 | 996.06 | 974.44 | 21.61 | 46.088 | | |
| 2,500.00 | 2,439.34 | 2,404.22 | 2,441.14 | 12.70 | 10.61 | -29.48 | -1,388.36 | 337.84 | 973.47 | 950.98 | 22.49 | 43.280 | | |
| 2,600.00 | 2,535.98 | 2,500.74 | 2,537.66 | 13.22 | 11.01 | -30.19 | -1,388.54 | 337.02 | 950.81 | 927.44 | 23.37 | 40.689 | | |
| 2,700.00 | 2,632.62 | 2,598.00 | 2,634.91 | 13.75 | 11.40 | -30.95 | -1,388.57 | 336.44 | 928.27 | 904.02 | 24.25 | 38.279 | | |
| 2,800.00 | 2,729.26 | 2,692.37 | 2,729.29 | 14.27 | 11.79 | -31.73 | -1,388.67 | 335.95 | 905.98 | 880.85 | 25.13 | 36.048 | | |
| 2,900.00 | 2,825.89 | 2,788.72 | 2,825.63 | 14.80 | 12.19 | -32.56 | -1,388.94 | 335.44 | 884.02 | 858.00 | 26.02 | 33.970 | | |
| 3,000.00 | 2,922.53 | 2,885.93 | 2,922.84 | 15.32 | 12.59 | -33.44 | -1,389.18 | 334.96 | 862.24 | 835.32 | 26.92 | 32.028 | | |
| 3,100.00 | 3,019.17 | 2,981.55 | 3,018.46 | 15.85 | 12.99 | -34.35 | -1,389.41 | 334.55 | 840.68 | 812.86 | 27.82 | 30.216 | | |
| 3,200.00 | 3,115.81 | 3,077.12 | 3,114.03 | 16.38 | 13.39 | -35.30 | -1,389.83 | 334.07 | 819.49 | 790.76 | 28.73 | 28.525 | | |
| 3,300.00 | 3,212.44 | 3,174.20 | 3,211.10 | 16.91 | 13.79 | -36.31 | -1,390.29 | 333.68 | 798.61 | 768.97 | 29.64 | 26.942 | | |
| 3,400.00 | 3,309.08 | 3,274.64 | 3,311.55 | 17.44 | 14.21 | -37.45 | -1,390.40 | 333.45 | 777.77 | 747.20 | 30.56 | 25.448 | | |
| 3,500.00 | 3,405.72 | 3,374.39 | 3,411.29 | 17.97 | 14.62 | -38.62 | -1,390.13 | 332.82 | 756.70 | 725.22 | 31.49 | 24.031 | | |
| 3,600.00 | 3,502.36 | 3,470.38 | 3,507.28 | 18.50 | 15.02 | -39.83 | -1,389.68 | 332.18 | 735.77 | 703.35 | 32.42 | 22.696 | | |
| 3,700.00 | 3,598.99 | 3,565.03 | 3,601.93 | 19.03 | 15.42 | -41.06 | -1,389.56 | 331.44 | 715.37 | 682.02 | 33.35 | 21.448 | | |
| 3,800.00 | 3,695.63 | 3,658.76 | 3,695.65 | 19.57 | 15.81 | -42.33 | -1,389.79 | 330.75 | 695.66 | 661.36 | 34.30 | 20.284 | | |
| 3,900.00 | 3,792.27 | 3,753.77 | 3,790.66 | 20.10 | 16.21 | -43.65 | -1,390.57 | 329.96 | 676.72 | 641.48 | 35.24 | 19.201 | | |
| 4,000.00 | 3,888.91 | 3,851.19 | 3,888.07 | 20.63 | 16.62 | -45.09 | -1,391.44 | 329.20 | 658.25 | 622.05 | 36.20 | 18.185 | | |
| 4,100.00 | 3,985.54 | 3,949.04 | 3,985.92 | 21.17 | 17.03 | -46.63 | -1,392.01 | 328.53 | 640.04 | 602.88 | 37.16 | 17.224 | | |
| 4,200.00 | 4,082.18 | 4,046.25 | 4,083.12 | 21.70 | 17.44 | -48.25 | -1,392.51 | 327.80 | 622.22 | 584.09 | 38.13 | 16.318 | | |
| 4,300.00 | 4,178.82 | 4,143.20 | 4,180.07 | 22.24 | 17.85 | -49.95 | -1,392.99 | 327.02 | 604.87 | 565.76 | 39.11 | 15.467 | | |
| 4,400.00 | 4,275.46 | 4,242.42 | 4,279.29 | 22.77 | 18.27 | -51.82 | -1,393.18 | 326.39 | 588.00 | 547.91 | 40.09 | 14.666 | | |
| 4,500.00 | 4,372.09 | 4,341.54 | 4,378.40 | 23.31 | 18.69 | -53.85 | -1,392.58 | 325.53 | 571.08 | 530.00 | 41.09 | 13.900 | | |
| 4,600.00 | 4,468.73 | 4,437.54 | 4,474.39 | 23.84 | 19.09 | -55.92 | -1,392.02 | 324.75 | 554.94 | 512.85 | 42.09 | 13.184 | | |
| 4,700.00 | 4,565.37 | 4,536.27 | 4,573.12 | 24.38 | 19.51 | -58.16 | -1,391.40 | 323.76 | 539.42 | 496.32 | 43.10 | 12.515 | | |
| 4,800.00 | 4,662.01 | 4,632.35 | 4,669.18 | 24.91 | 19.91 | -60.52 | -1,390.15 | 322.72 | 524.31 | 480.19 | 44.12 | 11.883 | | |
| 4,900.00 | 4,758.64 | 4,725.02 | 4,761.84 | 25.45 | 20.30 | -62.97 | -1,388.91 | 322.74 | 511.04 | 465.88 | 45.16 | 11.317 | | |
| 5,000.00 | 4,855.28 | 4,825.72 | 4,862.54 | 25.99 | 20.72 | -65.71 | -1,387.77 | 321.99 | 498.33 | 452.15 | 46.18 | 10.790 | | |
| 5,100.00 | 4,951.92 | 4,918.60 | 4,955.41 | 26.53 | 21.12 | -68.21 | -1,387.79 | 320.78 | 486.82 | 439.60 | 47.22 | 10.310 | | |
| 5,200.00 | 5,048.56 | 5,009.79 | 5,046.59 | 27.06 | 21.50 | -70.77 | -1,388.28 | 320.47 | 477.45 | 429.22 | 48.24 | 9.898 | | |
| 5,300.00 | 5,145.19 | 5,109.27 | 5,146.07 | 27.60 | 21.92 | -73.77 | -1,387.98 | 320.70 | 469.47 | 420.21 | 49.27 | 9.529 | | |
| 5,400.00 | 5,241.83 | 5,204.13 | 5,240.92 | 28.14 | 22.32 | -76.83 | -1,386.79 | 321.18 | 462.77 | 412.48 | 50.29 | 9.203 | | |
| 5,500.00 | 5,338.47 | 5,299.26 | 5,336.03 | 28.67 | 22.72 | -80.01 | -1,385.33 | 322.00 | 457.81 | 406.52 | 51.29 | 8.926 | | |
| 5,600.00 | 5,435.11 | 5,392.27 | 5,429.03 | 29.21 | 23.11 | -83.15 | -1,384.26 | 323.17 | 454.89 | 402.62 | 52.27 | 8.703 | | |
| 5,700.00 | 5,531.74 | 5,491.59 | 5,528.35 | 29.75 | 23.52 | -86.41 | -1,384.00 | 324.34 | 453.61 | 400.36 | 53.25 | 8.518 | | |
| 5,762.43 | 5,592.08 | 5,552.01 | 5,588.77 | 30.09 | 23.78 | -88.37 | -1,384.06 | 324.76 | 453.31 | 399.46 | 53.85 | 8.418 CC | | |
| 5,800.00 | 5,628.38 | 5,588.09 | 5,624.85 | 30.29 | 23.93 | -89.56 | -1,383.95 | 325.05 | 453.43 | 399.22 | 54.21 | 8.365 ES | | |
| 5,900.00 | 5,725.02 | 5,681.92 | 5,718.67 | 30.83 | 24.32 | -92.68 | -1,383.44 | 326.08 | 455.04 | 399.92 | 55.12 | 8.255 | | |
| 6,000.00 | 5,821.66 | 5,784.45 | 5,821.19 | 31.37 | 24.75 | -96.04 | -1,382.95 | 327.04 | 458.03 | 401.95 | 56.07 | 8.168 | | |
| 6,100.00 | 5,918.29 | 5,879.37 | 5,916.11 | 31.90 | 25.16 | -99.10 | -1,382.60 | 327.14 | 461.68 | 404.72 | 56.96 | 8.106 | | |
| 6,200.00 | 6,014.93 | 5,970.28 | 6,007.01 | 32.44 | 25.54 | -101.96 | -1,382.33 | 328.05 | 467.60 | 409.82 | 57.78 | 8.092 SF | | |
| 6,300.00 | 6,111.57 | 6,065.34 | 6,102.05 | 32.98 | 25.94 | -104.83 | -1,382.23 | 329.99 | 475.83 | 417.21 | 58.62 | 8.117 | | |
| 6,400.00 | 6,208.21 | 6,164.93 | 6,201.63 | 33.52 | 26.36 | -107.69 | -1,382.61 | 331.84 | 485.05 | 425.56 | 59.49 | 8.154 | | |
| 6,500.00 | 6,304.84 | 6,259.56 | 6,296.25 | 34.06 | 26.76 | -110.37 | -1,382.56 | 333.12 | 495.08 | 434.79 | 60.29 | 8.211 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BERG 33-15 (AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 6,600.00 | 6,401.37 | 6,355.59 | 6,392.26 | 34.60 | 27.16 | -129.82 | -1,382.36 | 335.05 | 508.94 | 447.84 | 61.10 | 8.329 | | |
| 6,700.00 | 6,496.25 | 6,452.29 | 6,488.94 | 35.12 | 27.57 | -155.05 | -1,382.94 | 336.81 | 536.13 | 474.21 | 61.93 | 8.657 | | |
| 6,800.00 | 6,587.15 | 6,546.87 | 6,583.48 | 35.59 | 27.97 | -169.96 | -1,384.61 | 338.59 | 577.15 | 514.41 | 62.74 | 9.199 | | |
| 6,900.00 | 6,671.83 | 6,636.90 | 6,673.50 | 36.03 | 28.36 | -179.58 | -1,385.98 | 339.23 | 630.09 | 566.57 | 63.52 | 9.919 | | |
| 7,000.00 | 6,748.21 | 6,714.80 | 6,751.40 | 36.41 | 28.69 | -173.10 | -1,386.50 | 339.04 | 694.07 | 629.87 | 64.19 | 10.812 | | |
| 7,100.00 | 6,814.41 | 6,778.43 | 6,815.03 | 36.76 | 28.96 | 166.37 | -1,387.10 | 339.14 | 768.23 | 703.49 | 64.74 | 11.866 | | |
| 7,200.00 | 6,868.79 | 6,832.71 | 6,869.30 | 37.07 | 29.19 | 158.69 | -1,387.70 | 339.32 | 850.83 | 785.63 | 65.20 | 13.049 | | |
| 7,300.00 | 6,910.01 | 6,873.77 | 6,910.36 | 37.39 | 29.36 | 147.76 | -1,388.16 | 339.45 | 939.99 | 874.44 | 65.55 | 14.340 | | |
| 7,400.00 | 6,937.07 | 6,900.60 | 6,937.19 | 37.76 | 29.48 | 129.54 | -1,388.45 | 339.54 | 1,033.75 | 967.97 | 65.77 | 15.717 | | |
| 7,500.00 | 6,949.29 | 6,912.54 | 6,949.13 | 38.27 | 29.53 | 100.20 | -1,388.59 | 339.58 | 1,129.96 | 1,064.08 | 65.88 | 17.151 | | |
| 7,600.00 | 6,949.75 | 6,912.69 | 6,949.28 | 39.02 | 29.53 | 89.04 | -1,388.59 | 339.58 | 1,226.75 | 1,160.84 | 65.91 | 18.612 | | |
| 7,700.00 | 6,949.37 | 6,911.99 | 6,948.58 | 40.05 | 29.53 | 88.91 | -1,388.58 | 339.58 | 1,323.98 | 1,258.04 | 65.93 | 20.081 | | |
| 7,800.00 | 6,948.99 | 6,911.29 | 6,947.88 | 41.35 | 29.52 | 88.77 | -1,388.57 | 339.57 | 1,421.59 | 1,355.63 | 65.95 | 21.554 | | |
| 7,900.00 | 6,948.61 | 6,910.60 | 6,947.19 | 42.86 | 29.52 | 88.64 | -1,388.56 | 339.57 | 1,519.51 | 1,453.53 | 65.98 | 23.031 | | |
| 8,000.00 | 6,948.23 | 6,909.90 | 6,946.49 | 44.53 | 29.52 | 88.51 | -1,388.56 | 339.57 | 1,617.69 | 1,551.69 | 66.00 | 24.511 | | |
| 8,100.00 | 6,947.85 | 6,909.20 | 6,945.79 | 46.34 | 29.51 | 88.37 | -1,388.55 | 339.57 | 1,716.07 | 1,650.05 | 66.02 | 25.994 | | |
| 8,200.00 | 6,947.47 | 6,908.51 | 6,945.10 | 48.26 | 29.51 | 88.24 | -1,388.54 | 339.56 | 1,814.63 | 1,748.60 | 66.04 | 27.478 | | |
| 8,300.00 | 6,947.09 | 6,907.81 | 6,944.40 | 50.28 | 29.51 | 88.10 | -1,388.53 | 339.56 | 1,913.35 | 1,847.29 | 66.06 | 28.963 | | |
| 8,400.00 | 6,946.72 | 6,907.11 | 6,943.70 | 52.39 | 29.50 | 87.97 | -1,388.53 | 339.56 | 2,012.18 | 1,946.10 | 66.08 | 30.450 | | |
| 8,500.00 | 6,946.34 | 6,906.42 | 6,943.01 | 54.56 | 29.50 | 87.84 | -1,388.52 | 339.56 | 2,111.13 | 2,045.03 | 66.10 | 31.937 | | |
| 8,600.00 | 6,945.96 | 6,905.72 | 6,942.31 | 56.80 | 29.50 | 87.70 | -1,388.51 | 339.56 | 2,210.17 | 2,144.05 | 66.13 | 33.424 | | |
| 8,700.00 | 6,945.58 | 6,905.02 | 6,941.61 | 59.10 | 29.50 | 87.57 | -1,388.50 | 339.55 | 2,309.30 | 2,243.15 | 66.15 | 34.911 | | |
| 8,800.00 | 6,945.20 | 6,904.33 | 6,940.92 | 61.44 | 29.49 | 87.44 | -1,388.50 | 339.55 | 2,408.50 | 2,342.33 | 66.17 | 36.399 | | |
| 8,900.00 | 6,944.82 | 6,903.63 | 6,940.22 | 63.83 | 29.49 | 87.30 | -1,388.49 | 339.55 | 2,507.76 | 2,441.56 | 66.19 | 37.885 | | |
| 9,000.00 | 6,944.44 | 6,902.93 | 6,939.52 | 66.25 | 29.49 | 87.17 | -1,388.48 | 339.55 | 2,607.07 | 2,540.86 | 66.22 | 39.372 | | |
| 9,100.00 | 6,944.06 | 6,902.24 | 6,938.83 | 68.71 | 29.48 | 87.04 | -1,388.47 | 339.54 | 2,706.44 | 2,640.20 | 66.24 | 40.858 | | |
| 9,200.00 | 6,943.68 | 6,901.54 | 6,938.13 | 71.20 | 29.48 | 86.90 | -1,388.46 | 339.54 | 2,805.85 | 2,739.59 | 66.27 | 42.343 | | |
| 9,300.00 | 6,943.30 | 6,900.84 | 6,937.43 | 73.72 | 29.48 | 86.77 | -1,388.46 | 339.54 | 2,905.30 | 2,839.01 | 66.29 | 43.827 | | |
| 9,400.00 | 6,942.92 | 6,900.15 | 6,936.74 | 76.26 | 29.48 | 86.64 | -1,388.45 | 339.54 | 3,004.79 | 2,938.47 | 66.32 | 45.310 | | |
| 9,500.00 | 6,942.54 | 6,899.45 | 6,936.04 | 78.82 | 29.47 | 86.50 | -1,388.44 | 339.54 | 3,104.31 | 3,037.97 | 66.34 | 46.791 | | |
| 9,600.00 | 6,942.16 | 6,898.75 | 6,935.35 | 81.40 | 29.47 | 86.37 | -1,388.43 | 339.53 | 3,203.86 | 3,137.49 | 66.37 | 48.272 | | |
| 9,700.00 | 6,941.78 | 6,898.06 | 6,934.65 | 84.00 | 29.47 | 86.24 | -1,388.43 | 339.53 | 3,303.44 | 3,237.04 | 66.40 | 49.751 | | |
| 9,800.00 | 6,941.40 | 6,897.36 | 6,933.95 | 86.62 | 29.46 | 86.10 | -1,388.42 | 339.53 | 3,403.04 | 3,336.61 | 66.43 | 51.229 | | |
| 9,900.00 | 6,941.03 | 6,896.67 | 6,933.26 | 89.25 | 29.46 | 85.97 | -1,388.41 | 339.53 | 3,502.67 | 3,436.21 | 66.46 | 52.706 | | |
| 10,000.00 | 6,940.65 | 6,895.97 | 6,932.56 | 91.90 | 29.46 | 85.84 | -1,388.40 | 339.52 | 3,602.31 | 3,535.82 | 66.49 | 54.180 | | |
| 10,100.00 | 6,940.27 | 6,895.27 | 6,931.86 | 94.56 | 29.45 | 85.70 | -1,388.40 | 339.52 | 3,701.98 | 3,635.46 | 66.52 | 55.653 | | |
| 10,200.00 | 6,939.89 | 6,894.58 | 6,931.17 | 97.23 | 29.45 | 85.57 | -1,388.39 | 339.52 | 3,801.66 | 3,735.11 | 66.55 | 57.125 | | |
| 10,300.00 | 6,939.51 | 6,893.88 | 6,930.47 | 99.91 | 29.45 | 85.44 | -1,388.38 | 339.52 | 3,901.36 | 3,834.77 | 66.58 | 58.594 | | |
| 10,400.00 | 6,939.13 | 6,893.18 | 6,929.77 | 102.60 | 29.45 | 85.30 | -1,388.37 | 339.51 | 4,001.07 | 3,934.45 | 66.62 | 60.062 | | |
| 10,500.00 | 6,938.75 | 6,892.49 | 6,929.08 | 105.30 | 29.44 | 85.17 | -1,388.36 | 339.51 | 4,100.80 | 4,034.14 | 66.65 | 61.527 | | |
| 10,600.00 | 6,938.37 | 6,891.79 | 6,928.38 | 108.00 | 29.44 | 85.04 | -1,388.36 | 339.51 | 4,200.53 | 4,133.85 | 66.69 | 62.990 | | |
| 10,700.00 | 6,937.99 | 6,891.09 | 6,927.68 | 110.72 | 29.44 | 84.91 | -1,388.35 | 339.51 | 4,300.29 | 4,233.57 | 66.72 | 64.452 | | |
| 10,800.00 | 6,937.61 | 6,890.40 | 6,926.99 | 113.44 | 29.43 | 84.77 | -1,388.34 | 339.51 | 4,400.05 | 4,333.29 | 66.76 | 65.911 | | |
| 10,900.00 | 6,937.23 | 6,889.70 | 6,926.29 | 116.17 | 29.43 | 84.64 | -1,388.33 | 339.50 | 4,499.82 | 4,433.03 | 66.79 | 67.368 | | |
| 11,000.00 | 6,936.85 | 6,889.00 | 6,925.59 | 118.90 | 29.43 | 84.51 | -1,388.33 | 339.50 | 4,599.61 | 4,532.77 | 66.83 | 68.822 | | |
| 11,100.00 | 6,936.47 | 6,888.31 | 6,924.90 | 121.64 | 29.42 | 84.38 | -1,388.32 | 339.50 | 4,699.40 | 4,632.53 | 66.87 | 70.274 | | |
| 11,200.00 | 6,936.09 | 6,887.61 | 6,924.20 | 124.39 | 29.42 | 84.24 | -1,388.31 | 339.50 | 4,799.20 | 4,732.29 | 66.91 | 71.724 | | |
| 11,300.00 | 6,935.71 | 6,886.91 | 6,923.50 | 127.14 | 29.42 | 84.11 | -1,388.30 | 339.49 | 4,899.01 | 4,832.05 | 66.95 | 73.171 | | |
| 11,400.00 | 6,935.34 | 6,886.22 | 6,922.81 | 129.90 | 29.42 | 83.98 | -1,388.30 | 339.49 | 4,998.82 | 4,931.83 | 66.99 | 74.616 | | |
| 11,500.00 | 6,934.96 | 6,885.52 | 6,922.11 | 132.66 | 29.41 | 83.85 | -1,388.29 | 339.49 | 5,098.65 | 5,031.61 | 67.04 | 76.058 | | |
| 11,600.00 | 6,934.58 | 6,884.82 | 6,921.41 | 135.42 | 29.41 | 83.72 | -1,388.28 | 339.49 | 5,198.48 | 5,131.40 | 67.08 | 77.498 | | |
| 11,700.00 | 6,934.20 | 6,884.13 | 6,920.72 | 138.19 | 29.41 | 83.58 | -1,388.27 | 339.49 | 5,298.31 | 5,231.19 | 67.12 | 78.934 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BERG 33-15 (AB_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 11,800.00 | 6,933.82 | 6,883.43 | 6,920.02 | 140.96 | 29.40 | 83.45 | -1,388.26 | 339.48 | 5,398.16 | 5,330.99 | 67.17 | 80.368 | |
| 11,900.00 | 6,933.44 | 6,882.73 | 6,919.32 | 143.74 | 29.40 | 83.32 | -1,388.26 | 339.48 | 5,498.00 | 5,430.79 | 67.21 | 81.799 | |
| 12,000.00 | 6,933.06 | 6,882.04 | 6,918.63 | 146.51 | 29.40 | 83.19 | -1,388.25 | 339.48 | 5,597.86 | 5,530.60 | 67.26 | 83.227 | |
| 12,100.00 | 6,932.68 | 6,881.34 | 6,917.93 | 149.30 | 29.40 | 83.06 | -1,388.24 | 339.48 | 5,697.71 | 5,630.41 | 67.31 | 84.653 | |
| 12,200.00 | 6,932.30 | 6,880.64 | 6,917.23 | 152.08 | 29.39 | 82.92 | -1,388.23 | 339.47 | 5,797.58 | 5,730.22 | 67.35 | 86.075 | |
| 12,300.00 | 6,931.92 | 6,879.95 | 6,916.54 | 154.87 | 29.39 | 82.79 | -1,388.23 | 339.47 | 5,897.45 | 5,830.04 | 67.40 | 87.494 | |
| 12,400.00 | 6,931.54 | 6,879.25 | 6,915.84 | 157.66 | 29.39 | 82.66 | -1,388.22 | 339.47 | 5,997.32 | 5,929.86 | 67.45 | 88.911 | |
| 12,500.00 | 6,931.16 | 6,878.55 | 6,915.14 | 160.45 | 29.38 | 82.53 | -1,388.21 | 339.47 | 6,097.19 | 6,029.69 | 67.50 | 90.324 | |
| 12,600.00 | 6,930.78 | 6,877.86 | 6,914.45 | 163.24 | 29.38 | 82.40 | -1,388.20 | 339.47 | 6,197.07 | 6,129.52 | 67.56 | 91.734 | |
| 12,700.00 | 6,930.40 | 6,877.16 | 6,913.75 | 166.04 | 29.38 | 82.27 | -1,388.20 | 339.46 | 6,296.96 | 6,229.35 | 67.61 | 93.140 | |
| 12,800.00 | 6,930.03 | 6,876.46 | 6,913.06 | 168.84 | 29.37 | 82.14 | -1,388.19 | 339.46 | 6,396.85 | 6,329.19 | 67.66 | 94.544 | |
| 12,900.00 | 6,929.65 | 6,875.77 | 6,912.36 | 171.64 | 29.37 | 82.01 | -1,388.18 | 339.46 | 6,496.74 | 6,429.02 | 67.71 | 95.944 | |
| 13,000.00 | 6,929.27 | 6,875.07 | 6,911.66 | 174.44 | 29.37 | 81.87 | -1,388.17 | 339.46 | 6,596.63 | 6,528.86 | 67.77 | 97.341 | |
| 13,100.00 | 6,928.89 | 6,874.37 | 6,910.97 | 177.24 | 29.37 | 81.74 | -1,388.16 | 339.45 | 6,696.53 | 6,628.70 | 67.82 | 98.735 | |
| 13,200.00 | 6,928.51 | 6,873.68 | 6,910.27 | 180.05 | 29.36 | 81.61 | -1,388.16 | 339.45 | 6,796.43 | 6,728.55 | 67.88 | 100.125 | |
| 13,300.00 | 6,928.13 | 6,872.98 | 6,909.57 | 182.86 | 29.36 | 81.48 | -1,388.15 | 339.45 | 6,896.33 | 6,828.39 | 67.94 | 101.512 | |
| 13,400.00 | 6,927.75 | 6,872.28 | 6,908.88 | 185.67 | 29.36 | 81.35 | -1,388.14 | 339.45 | 6,996.24 | 6,928.24 | 67.99 | 102.895 | |
| 13,500.00 | 6,927.37 | 6,871.59 | 6,908.18 | 188.48 | 29.35 | 81.22 | -1,388.13 | 339.45 | 7,096.14 | 7,028.09 | 68.05 | 104.275 | |
| 13,600.00 | 6,926.99 | 6,870.89 | 6,907.48 | 191.29 | 29.35 | 81.09 | -1,388.13 | 339.44 | 7,196.05 | 7,127.94 | 68.11 | 105.651 | |
| 13,700.00 | 6,926.61 | 6,870.19 | 6,906.79 | 194.10 | 29.35 | 80.96 | -1,388.12 | 339.44 | 7,295.97 | 7,227.80 | 68.17 | 107.023 | |
| 13,800.00 | 6,926.23 | 6,869.50 | 6,906.09 | 196.92 | 29.34 | 80.83 | -1,388.11 | 339.44 | 7,395.88 | 7,327.65 | 68.23 | 108.392 | |
| 13,900.00 | 6,925.85 | 6,868.80 | 6,905.39 | 199.73 | 29.34 | 80.70 | -1,388.10 | 339.44 | 7,495.80 | 7,427.51 | 68.29 | 109.758 | |
| 14,000.00 | 6,925.47 | 6,868.10 | 6,904.70 | 202.55 | 29.34 | 80.57 | -1,388.09 | 339.43 | 7,595.72 | 7,527.36 | 68.36 | 111.119 | |
| 14,100.00 | 6,925.09 | 6,867.41 | 6,904.00 | 205.37 | 29.34 | 80.44 | -1,388.09 | 339.43 | 7,695.64 | 7,627.22 | 68.42 | 112.477 | |
| 14,200.00 | 6,924.71 | 6,866.71 | 6,903.30 | 208.19 | 29.33 | 80.31 | -1,388.08 | 339.43 | 7,795.57 | 7,727.08 | 68.48 | 113.831 | |
| 14,300.00 | 6,924.34 | 6,866.01 | 6,902.61 | 211.01 | 29.33 | 80.18 | -1,388.07 | 339.43 | 7,895.49 | 7,826.94 | 68.55 | 115.182 | |
| 14,400.00 | 6,923.96 | 6,865.32 | 6,901.91 | 213.83 | 29.33 | 80.05 | -1,388.06 | 339.42 | 7,995.42 | 7,926.80 | 68.61 | 116.528 | |
| 14,500.00 | 6,923.58 | 6,864.62 | 6,901.21 | 216.65 | 29.32 | 79.92 | -1,388.06 | 339.42 | 8,095.35 | 8,026.67 | 68.68 | 117.871 | |
| 14,600.00 | 6,923.20 | 6,863.92 | 6,900.52 | 219.48 | 29.32 | 79.79 | -1,388.05 | 339.42 | 8,195.28 | 8,126.53 | 68.75 | 119.210 | |
| 14,700.00 | 6,922.82 | 6,863.23 | 6,899.82 | 222.30 | 29.32 | 79.66 | -1,388.04 | 339.42 | 8,295.21 | 8,226.40 | 68.81 | 120.545 | |
| 14,800.00 | 6,922.44 | 6,862.53 | 6,899.12 | 225.13 | 29.32 | 79.53 | -1,388.03 | 339.42 | 8,395.14 | 8,326.26 | 68.88 | 121.876 | |
| 14,900.00 | 6,922.06 | 6,861.83 | 6,898.43 | 227.95 | 29.31 | 79.41 | -1,388.03 | 339.41 | 8,495.08 | 8,426.13 | 68.95 | 123.203 | |
| 14,915.55 | 6,922.00 | 6,861.73 | 6,898.32 | 228.39 | 29.31 | 79.39 | -1,388.02 | 339.41 | 8,510.62 | 8,441.66 | 68.96 | 123.409 | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BERRY 22-2(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 69.00 | 3.28 | 3.28 | 172.43 | -4,119.19 | 547.19 | 4,155.95 | | | | | |
| 100.00 | 100.00 | 30.37 | 99.37 | 3.28 | 3.28 | 172.43 | -4,119.20 | 547.18 | 4,155.38 | 4,148.81 | 6.57 | 632.927 | | |
| 200.00 | 200.00 | 126.00 | 195.00 | 3.34 | 3.30 | 172.44 | -4,119.27 | 546.97 | 4,155.43 | 4,148.79 | 6.63 | 626.465 | | |
| 300.00 | 299.98 | 216.65 | 285.65 | 3.44 | 3.36 | -12.95 | -4,119.53 | 546.70 | 4,153.97 | 4,147.17 | 6.80 | 611.174 | | |
| 400.00 | 399.84 | 311.63 | 380.63 | 3.59 | 3.47 | -12.99 | -4,119.93 | 546.61 | 4,149.28 | 4,142.22 | 7.06 | 587.898 | | |
| 500.00 | 499.45 | 413.72 | 482.72 | 3.79 | 3.63 | -13.05 | -4,120.37 | 546.65 | 4,141.21 | 4,133.79 | 7.42 | 557.887 | | |
| 600.00 | 598.70 | 511.74 | 580.73 | 4.03 | 3.83 | -13.14 | -4,120.79 | 546.66 | 4,129.76 | 4,121.90 | 7.86 | 525.127 | | |
| 700.00 | 697.47 | 613.88 | 682.87 | 4.31 | 4.07 | -13.26 | -4,121.23 | 546.41 | 4,114.92 | 4,106.53 | 8.39 | 490.688 | | |
| 800.00 | 795.62 | 716.02 | 785.01 | 4.64 | 4.35 | -13.40 | -4,121.59 | 545.93 | 4,096.61 | 4,087.64 | 8.97 | 456.750 | | |
| 900.00 | 893.06 | 806.82 | 875.81 | 5.00 | 4.61 | -13.56 | -4,122.01 | 545.24 | 4,075.05 | 4,065.48 | 9.57 | 425.814 | | |
| 1,000.00 | 989.78 | 906.82 | 975.80 | 5.39 | 4.93 | -13.68 | -4,122.54 | 544.19 | 4,050.72 | 4,040.48 | 10.24 | 395.597 | | |
| 1,100.00 | 1,086.42 | 985.45 | 1,054.43 | 5.81 | 5.18 | -13.73 | -4,123.16 | 543.11 | 4,026.26 | 4,015.40 | 10.86 | 370.594 | | |
| 1,200.00 | 1,183.06 | 1,071.94 | 1,140.89 | 6.25 | 5.47 | -13.79 | -4,124.18 | 541.67 | 4,002.15 | 3,990.61 | 11.54 | 346.746 | | |
| 1,300.00 | 1,279.69 | 1,164.54 | 1,233.47 | 6.71 | 5.80 | -13.85 | -4,125.47 | 540.03 | 3,978.23 | 3,965.97 | 12.26 | 324.392 | | |
| 1,400.00 | 1,376.33 | 1,267.83 | 1,336.74 | 7.17 | 6.17 | -13.91 | -4,126.91 | 538.09 | 3,954.31 | 3,941.27 | 13.04 | 303.192 | | |
| 1,500.00 | 1,472.97 | 1,371.86 | 1,440.73 | 7.65 | 6.55 | -13.97 | -4,128.16 | 535.90 | 3,930.17 | 3,916.33 | 13.84 | 283.950 | | |
| 1,600.00 | 1,569.61 | 1,469.45 | 1,538.29 | 8.13 | 6.92 | -14.03 | -4,129.24 | 533.88 | 3,905.95 | 3,891.31 | 14.63 | 266.953 | | |
| 1,700.00 | 1,666.24 | 1,560.96 | 1,629.78 | 8.62 | 7.27 | -14.09 | -4,130.29 | 532.07 | 3,881.78 | 3,866.37 | 15.41 | 251.861 | | |
| 1,800.00 | 1,762.88 | 1,667.95 | 1,736.75 | 9.12 | 7.68 | -14.16 | -4,131.55 | 530.07 | 3,857.68 | 3,841.42 | 16.26 | 237.280 | | |
| 1,900.00 | 1,859.52 | 1,762.04 | 1,830.81 | 9.62 | 8.05 | -14.22 | -4,132.40 | 528.32 | 3,833.30 | 3,816.24 | 17.07 | 224.613 | | |
| 2,000.00 | 1,956.16 | 1,851.35 | 1,920.11 | 10.13 | 8.40 | -14.28 | -4,133.40 | 526.88 | 3,809.18 | 3,791.31 | 17.87 | 213.218 | | |
| 2,100.00 | 2,052.79 | 1,943.24 | 2,011.98 | 10.64 | 8.76 | -14.35 | -4,134.57 | 525.33 | 3,785.19 | 3,766.51 | 18.68 | 202.632 | | |
| 2,200.00 | 2,149.43 | 2,032.87 | 2,101.58 | 11.15 | 9.12 | -14.41 | -4,135.87 | 523.69 | 3,761.36 | 3,741.87 | 19.49 | 192.959 | | |
| 2,300.00 | 2,246.07 | 2,123.59 | 2,192.28 | 11.66 | 9.48 | -14.47 | -4,137.40 | 521.97 | 3,737.75 | 3,717.44 | 20.32 | 183.986 | | |
| 2,400.00 | 2,342.71 | 2,232.88 | 2,301.52 | 12.18 | 9.93 | -14.54 | -4,139.24 | 519.85 | 3,714.15 | 3,692.94 | 21.21 | 175.132 | | |
| 2,500.00 | 2,439.34 | 2,375.29 | 2,443.91 | 12.70 | 10.50 | -14.65 | -4,140.32 | 517.42 | 3,689.69 | 3,667.47 | 22.22 | 166.078 | | |
| 2,600.00 | 2,535.98 | 2,521.99 | 2,590.59 | 13.22 | 11.10 | -14.77 | -4,139.34 | 515.28 | 3,663.87 | 3,640.64 | 23.24 | 157.680 | | |
| 2,700.00 | 2,632.62 | 2,619.54 | 2,688.12 | 13.75 | 11.50 | -14.86 | -4,138.08 | 513.80 | 3,637.50 | 3,613.41 | 24.09 | 150.984 | | |
| 2,800.00 | 2,729.26 | 2,715.82 | 2,784.38 | 14.27 | 11.90 | -14.94 | -4,136.84 | 512.22 | 3,611.10 | 3,586.16 | 24.95 | 144.753 | | |
| 2,900.00 | 2,825.89 | 2,807.72 | 2,876.26 | 14.80 | 12.27 | -15.02 | -4,135.73 | 510.61 | 3,584.79 | 3,559.00 | 25.79 | 138.999 | | |
| 3,000.00 | 2,922.53 | 2,903.57 | 2,972.09 | 15.32 | 12.67 | -15.10 | -4,134.66 | 508.86 | 3,558.55 | 3,531.90 | 26.65 | 133.534 | | |
| 3,100.00 | 3,019.17 | 2,993.70 | 3,062.20 | 15.85 | 13.04 | -15.17 | -4,133.75 | 507.15 | 3,532.41 | 3,504.92 | 27.49 | 128.488 | | |
| 3,200.00 | 3,115.81 | 3,095.53 | 3,164.01 | 16.38 | 13.47 | -15.26 | -4,132.75 | 505.11 | 3,506.30 | 3,477.92 | 28.37 | 123.572 | | |
| 3,300.00 | 3,212.44 | 3,198.46 | 3,266.90 | 16.91 | 13.90 | -15.35 | -4,131.56 | 503.07 | 3,480.01 | 3,450.75 | 29.26 | 118.927 | | |
| 3,400.00 | 3,309.08 | 3,283.49 | 3,351.91 | 17.44 | 14.25 | -15.42 | -4,130.62 | 501.42 | 3,453.80 | 3,423.70 | 30.10 | 114.762 | | |
| 3,500.00 | 3,405.72 | 3,370.14 | 3,438.54 | 17.97 | 14.61 | -15.49 | -4,129.96 | 499.61 | 3,427.90 | 3,396.96 | 30.94 | 110.806 | | |
| 3,600.00 | 3,502.36 | 3,460.22 | 3,528.59 | 18.50 | 14.99 | -15.56 | -4,129.56 | 497.42 | 3,402.24 | 3,370.45 | 31.79 | 107.024 | | |
| 3,700.00 | 3,598.99 | 3,551.11 | 3,619.45 | 19.03 | 15.37 | -15.63 | -4,129.33 | 495.00 | 3,376.74 | 3,344.09 | 32.65 | 103.430 | | |
| 3,800.00 | 3,695.63 | 3,644.21 | 3,712.52 | 19.57 | 15.76 | -15.71 | -4,129.22 | 492.71 | 3,351.40 | 3,317.89 | 33.51 | 100.002 | | |
| 3,900.00 | 3,792.27 | 3,737.90 | 3,806.20 | 20.10 | 16.15 | -15.79 | -4,129.09 | 490.84 | 3,326.12 | 3,291.74 | 34.38 | 96.739 | | |
| 4,000.00 | 3,888.91 | 3,830.89 | 3,899.17 | 20.63 | 16.54 | -15.87 | -4,129.11 | 488.88 | 3,301.00 | 3,265.75 | 35.25 | 93.645 | | |
| 4,100.00 | 3,985.54 | 3,929.82 | 3,998.08 | 21.17 | 16.96 | -15.97 | -4,129.08 | 487.07 | 3,275.87 | 3,239.73 | 36.14 | 90.652 | | |
| 4,200.00 | 4,082.18 | 4,027.58 | 4,095.83 | 21.70 | 17.37 | -16.06 | -4,128.97 | 485.43 | 3,250.70 | 3,213.68 | 37.02 | 87.809 | | |
| 4,300.00 | 4,178.82 | 4,125.33 | 4,193.57 | 22.24 | 17.78 | -16.17 | -4,128.76 | 484.26 | 3,225.52 | 3,187.62 | 37.90 | 85.096 | | |
| 4,400.00 | 4,275.46 | 4,230.05 | 4,298.29 | 22.77 | 18.22 | -16.31 | -4,128.15 | 484.36 | 3,200.23 | 3,161.42 | 38.81 | 82.462 | | |
| 4,500.00 | 4,372.09 | 4,349.69 | 4,417.91 | 23.31 | 18.72 | -16.50 | -4,126.76 | 485.25 | 3,174.53 | 3,134.78 | 39.75 | 79.858 | | |
| 4,600.00 | 4,468.73 | 4,457.77 | 4,525.97 | 23.84 | 19.17 | -16.67 | -4,124.67 | 486.01 | 3,148.09 | 3,107.43 | 40.66 | 77.417 | | |
| 4,700.00 | 4,565.37 | 4,541.80 | 4,609.98 | 24.38 | 19.52 | -16.80 | -4,123.08 | 486.74 | 3,121.77 | 3,080.25 | 41.52 | 75.193 | | |
| 4,800.00 | 4,662.01 | 4,617.51 | 4,685.68 | 24.91 | 19.84 | -16.92 | -4,122.14 | 487.17 | 3,096.01 | 3,053.66 | 42.35 | 73.106 | | |
| 4,900.00 | 4,758.64 | 4,689.40 | 4,757.57 | 25.45 | 20.14 | -17.03 | -4,121.80 | 487.52 | 3,070.99 | 3,027.82 | 43.17 | 71.132 | | |
| 5,000.00 | 4,855.28 | 4,782.92 | 4,851.09 | 25.99 | 20.53 | -17.18 | -4,121.84 | 488.00 | 3,046.48 | 3,002.43 | 44.05 | 69.154 | | |
| 5,100.00 | 4,951.92 | 4,879.79 | 4,947.95 | 26.53 | 20.94 | -17.33 | -4,121.89 | 488.42 | 3,021.98 | 2,977.04 | 44.94 | 67.240 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BERRY 22-2(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,975.62 | 5,043.79 | 27.06 | 21.34 | -17.48 | -4,121.98 | 488.64 | 2,997.51 | 2,951.68 | 45.83 | 65.404 | | |
| 5,300.00 | 5,145.19 | 5,074.29 | 5,142.46 | 27.60 | 21.75 | -17.64 | -4,122.02 | 489.13 | 2,973.05 | 2,926.33 | 46.73 | 63.627 | | |
| 5,400.00 | 5,241.83 | 5,178.42 | 5,246.58 | 28.14 | 22.19 | -17.82 | -4,121.86 | 489.81 | 2,948.47 | 2,900.84 | 47.64 | 61.897 | | |
| 5,500.00 | 5,338.47 | 5,301.78 | 5,369.93 | 28.67 | 22.71 | -18.04 | -4,120.95 | 490.75 | 2,923.39 | 2,874.80 | 48.59 | 60.169 | | |
| 5,600.00 | 5,435.11 | 5,423.20 | 5,491.32 | 29.21 | 23.22 | -18.28 | -4,118.84 | 492.63 | 2,897.58 | 2,848.05 | 49.53 | 58.503 | | |
| 5,700.00 | 5,531.74 | 5,545.14 | 5,613.12 | 29.75 | 23.74 | -18.58 | -4,114.50 | 496.36 | 2,870.25 | 2,819.78 | 50.47 | 56.871 | | |
| 5,800.00 | 5,628.38 | 5,616.95 | 5,684.88 | 30.29 | 24.04 | -18.75 | -4,112.28 | 498.35 | 2,843.47 | 2,792.15 | 51.32 | 55.407 | | |
| 5,900.00 | 5,725.02 | 5,690.20 | 5,758.10 | 30.83 | 24.35 | -18.92 | -4,110.76 | 499.83 | 2,817.52 | 2,765.35 | 52.17 | 54.006 | | |
| 6,000.00 | 5,821.66 | 5,770.85 | 5,838.73 | 31.37 | 24.69 | -19.08 | -4,109.82 | 500.79 | 2,792.27 | 2,739.23 | 53.04 | 52.649 | | |
| 6,100.00 | 5,918.29 | 5,859.47 | 5,927.35 | 31.90 | 25.07 | -19.25 | -4,109.34 | 501.19 | 2,767.48 | 2,713.56 | 53.92 | 51.330 | | |
| 6,200.00 | 6,014.93 | 5,961.96 | 6,029.84 | 32.44 | 25.50 | -19.45 | -4,108.91 | 501.40 | 2,742.78 | 2,687.96 | 54.82 | 50.029 | | |
| 6,300.00 | 6,111.57 | 6,060.25 | 6,128.12 | 32.98 | 25.92 | -19.63 | -4,108.27 | 501.34 | 2,717.83 | 2,662.10 | 55.72 | 48.773 | | |
| 6,400.00 | 6,208.21 | 6,160.59 | 6,228.46 | 33.52 | 26.34 | -19.82 | -4,107.68 | 501.15 | 2,692.93 | 2,636.30 | 56.63 | 47.555 | | |
| 6,500.00 | 6,304.84 | 6,265.35 | 6,333.22 | 34.06 | 26.79 | -20.03 | -4,106.74 | 500.91 | 2,667.77 | 2,610.23 | 57.54 | 46.365 | | |
| 6,600.00 | 6,401.37 | 6,359.22 | 6,427.09 | 34.60 | 27.19 | -20.25 | -4,105.76 | 500.65 | 2,643.03 | 2,584.59 | 58.44 | 45.229 | | |
| 6,700.00 | 6,496.25 | 6,450.23 | 6,518.09 | 35.12 | 27.57 | -20.48 | -4,105.00 | 500.43 | 2,622.35 | 2,563.01 | 59.34 | 44.190 | | |
| 6,800.00 | 6,587.15 | 6,540.73 | 6,608.58 | 35.59 | 27.96 | -20.71 | -4,104.38 | 499.88 | 2,606.91 | 2,546.67 | 60.24 | 43.275 | | |
| 6,900.00 | 6,671.83 | 6,627.21 | 6,695.06 | 36.03 | 28.33 | -20.94 | -4,103.71 | 499.58 | 2,597.66 | 2,536.53 | 61.12 | 42.499 | | |
| 6,979.22 | 6,733.12 | 6,692.97 | 6,760.82 | 36.33 | 28.61 | -21.17 | -4,103.01 | 499.69 | 2,595.29 | 2,533.46 | 61.82 | 41.979 CC | | |
| 7,000.00 | 6,748.21 | 6,709.05 | 6,776.90 | 36.41 | 28.67 | -21.17 | -4,102.80 | 499.76 | 2,595.46 | 2,533.45 | 62.00 | 41.859 ES | | |
| 7,100.00 | 6,814.41 | 6,779.67 | 6,847.51 | 36.76 | 28.97 | -21.40 | -4,101.89 | 499.82 | 2,601.22 | 2,538.32 | 62.91 | 41.350 | | |
| 7,200.00 | 6,868.79 | 6,834.71 | 6,902.55 | 37.07 | 29.21 | -21.63 | -4,101.19 | 499.65 | 2,615.65 | 2,551.79 | 63.86 | 40.960 | | |
| 7,300.00 | 6,910.01 | 6,875.02 | 6,942.86 | 37.39 | 29.38 | -21.86 | -4,100.68 | 499.53 | 2,639.11 | 2,574.22 | 64.89 | 40.673 | | |
| 7,400.00 | 6,937.07 | 6,901.52 | 6,969.35 | 37.76 | 29.49 | -22.09 | -4,100.36 | 499.47 | 2,671.40 | 2,605.41 | 65.99 | 40.484 | | |
| 7,500.00 | 6,949.29 | 6,912.57 | 6,980.40 | 38.27 | 29.54 | -22.32 | -4,100.22 | 499.45 | 2,711.85 | 2,644.72 | 67.13 | 40.399 | | |
| 7,600.00 | 6,949.75 | 6,913.00 | 6,980.83 | 39.02 | 29.54 | -22.55 | -4,100.21 | 499.45 | 2,758.58 | 2,690.29 | 68.29 | 40.398 SF | | |
| 7,700.00 | 6,949.37 | 6,912.69 | 6,980.53 | 40.05 | 29.54 | -22.78 | -4,100.22 | 499.45 | 2,808.29 | 2,738.78 | 69.51 | 40.403 | | |
| 7,800.00 | 6,948.99 | 6,912.39 | 6,980.23 | 41.35 | 29.54 | -23.01 | -4,100.22 | 499.45 | 2,860.64 | 2,789.87 | 70.77 | 40.421 | | |
| 7,900.00 | 6,948.61 | 6,912.10 | 6,979.93 | 42.86 | 29.54 | -23.24 | -4,100.22 | 499.45 | 2,915.47 | 2,843.42 | 72.06 | 40.460 | | |
| 8,000.00 | 6,948.23 | 6,911.82 | 6,979.65 | 44.53 | 29.54 | -23.47 | -4,100.23 | 499.45 | 2,972.67 | 2,899.31 | 73.35 | 40.525 | | |
| 8,100.00 | 6,947.85 | 6,911.54 | 6,979.37 | 46.34 | 29.53 | -23.70 | -4,100.23 | 499.45 | 3,032.08 | 2,957.44 | 74.64 | 40.622 | | |
| 8,200.00 | 6,947.47 | 6,911.27 | 6,979.10 | 48.26 | 29.53 | -23.93 | -4,100.23 | 499.45 | 3,093.58 | 3,017.67 | 75.91 | 40.752 | | |
| 8,300.00 | 6,947.09 | 6,911.01 | 6,978.84 | 50.28 | 29.53 | -24.16 | -4,100.24 | 499.45 | 3,157.06 | 3,079.90 | 77.16 | 40.917 | | |
| 8,400.00 | 6,946.72 | 6,910.75 | 6,978.58 | 52.39 | 29.53 | -24.39 | -4,100.24 | 499.45 | 3,222.38 | 3,144.01 | 78.37 | 41.116 | | |
| 8,500.00 | 6,946.34 | 6,910.50 | 6,978.33 | 54.56 | 29.53 | -24.62 | -4,100.24 | 499.45 | 3,289.45 | 3,209.90 | 79.55 | 41.349 | | |
| 8,600.00 | 6,945.96 | 6,910.26 | 6,978.09 | 56.80 | 29.53 | -24.85 | -4,100.25 | 499.45 | 3,358.16 | 3,277.47 | 80.69 | 41.616 | | |
| 8,700.00 | 6,945.58 | 6,910.02 | 6,977.85 | 59.10 | 29.53 | -25.08 | -4,100.25 | 499.45 | 3,428.41 | 3,346.61 | 81.80 | 41.914 | | |
| 8,800.00 | 6,945.20 | 6,909.79 | 6,977.62 | 61.44 | 29.53 | -25.31 | -4,100.25 | 499.45 | 3,500.11 | 3,417.25 | 82.86 | 42.242 | | |
| 8,900.00 | 6,944.82 | 6,909.56 | 6,977.39 | 63.83 | 29.53 | -25.54 | -4,100.26 | 499.45 | 3,573.16 | 3,489.28 | 83.88 | 42.599 | | |
| 9,000.00 | 6,944.44 | 6,909.34 | 6,977.17 | 66.25 | 29.52 | -25.77 | -4,100.26 | 499.45 | 3,647.50 | 3,562.64 | 84.86 | 42.983 | | |
| 9,100.00 | 6,944.06 | 6,909.12 | 6,976.95 | 68.71 | 29.52 | -26.00 | -4,100.26 | 499.46 | 3,723.04 | 3,637.24 | 85.80 | 43.393 | | |
| 9,200.00 | 6,943.68 | 6,908.91 | 6,976.74 | 71.20 | 29.52 | -26.23 | -4,100.26 | 499.46 | 3,799.70 | 3,713.00 | 86.70 | 43.826 | | |
| 9,300.00 | 6,943.30 | 6,908.71 | 6,976.54 | 73.72 | 29.52 | -26.46 | -4,100.27 | 499.46 | 3,877.43 | 3,789.87 | 87.56 | 44.282 | | |
| 9,400.00 | 6,942.92 | 6,908.50 | 6,976.33 | 76.26 | 29.52 | -26.69 | -4,100.27 | 499.46 | 3,956.17 | 3,867.78 | 88.39 | 44.759 | | |
| 9,500.00 | 6,942.54 | 6,908.31 | 6,976.14 | 78.82 | 29.52 | -26.92 | -4,100.27 | 499.46 | 4,035.84 | 3,946.66 | 89.18 | 45.256 | | |
| 9,600.00 | 6,942.16 | 6,908.11 | 6,975.95 | 81.40 | 29.49 | -27.15 | -4,100.38 | 499.47 | 4,116.41 | 4,026.50 | 89.91 | 45.784 | | |
| 9,700.00 | 6,941.78 | 6,907.91 | 6,975.75 | 84.00 | 29.49 | -27.38 | -4,100.38 | 499.47 | 4,197.81 | 4,107.17 | 90.63 | 46.316 | | |
| 9,800.00 | 6,941.40 | 6,907.71 | 6,975.55 | 86.62 | 29.49 | -27.61 | -4,100.38 | 499.47 | 4,279.99 | 4,188.66 | 91.33 | 46.864 | | |
| 9,900.00 | 6,941.03 | 6,907.51 | 6,975.35 | 89.25 | 29.49 | -27.84 | -4,100.38 | 499.47 | 4,362.92 | 4,270.93 | 91.99 | 47.428 | | |
| 10,000.00 | 6,940.65 | 6,907.31 | 6,975.15 | 91.90 | 29.49 | -28.07 | -4,100.38 | 499.47 | 4,446.55 | 4,353.92 | 92.63 | 48.005 | | |
| 10,100.00 | 6,940.27 | 6,907.11 | 6,974.95 | 94.56 | 29.49 | -28.30 | -4,100.38 | 499.47 | 4,530.85 | 4,437.61 | 93.24 | 48.596 | | |
| 10,200.00 | 6,939.89 | 6,906.91 | 6,974.75 | 97.23 | 29.49 | -28.53 | -4,100.38 | 499.47 | 4,615.77 | 4,521.95 | 93.82 | 49.199 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BERRY 22-2(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,900.01 | 6,967.85 | 99.91 | 29.49 | -90.31 | -4,100.38 | 499.47 | 4,701.28 | 4,606.90 | 94.38 | 49.813 | | |
| 10,400.00 | 6,939.13 | 6,900.01 | 6,967.85 | 102.60 | 29.49 | -90.31 | -4,100.38 | 499.47 | 4,787.36 | 4,692.44 | 94.91 | 50.439 | | |
| 10,500.00 | 6,938.75 | 6,900.01 | 6,967.85 | 105.30 | 29.49 | -90.31 | -4,100.38 | 499.47 | 4,873.97 | 4,778.54 | 95.43 | 51.074 | | |
| 10,600.00 | 6,938.37 | 6,900.01 | 6,967.85 | 108.00 | 29.49 | -90.31 | -4,100.38 | 499.47 | 4,961.08 | 4,865.16 | 95.92 | 51.720 | | |
| 10,700.00 | 6,937.99 | 6,900.01 | 6,967.85 | 110.72 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,048.67 | 4,952.27 | 96.40 | 52.374 | | |
| 10,800.00 | 6,937.61 | 6,900.01 | 6,967.85 | 113.44 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,136.71 | 5,039.86 | 96.85 | 53.036 | | |
| 10,900.00 | 6,937.23 | 6,900.01 | 6,967.85 | 116.17 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,225.18 | 5,127.89 | 97.29 | 53.707 | | |
| 11,000.00 | 6,936.85 | 6,900.01 | 6,967.85 | 118.90 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,314.06 | 5,216.35 | 97.71 | 54.385 | | |
| 11,100.00 | 6,936.47 | 6,900.01 | 6,967.85 | 121.64 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,403.33 | 5,305.22 | 98.12 | 55.069 | | |
| 11,200.00 | 6,936.09 | 6,900.01 | 6,967.85 | 124.39 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,492.97 | 5,394.46 | 98.51 | 55.761 | | |
| 11,300.00 | 6,935.71 | 6,900.01 | 6,967.85 | 127.14 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,582.97 | 5,484.08 | 98.89 | 56.459 | | |
| 11,400.00 | 6,935.34 | 6,900.01 | 6,967.85 | 129.90 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,673.29 | 5,574.04 | 99.25 | 57.162 | | |
| 11,500.00 | 6,934.96 | 6,900.01 | 6,967.85 | 132.66 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,763.94 | 5,664.34 | 99.60 | 57.871 | | |
| 11,600.00 | 6,934.58 | 6,900.01 | 6,967.85 | 135.42 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,854.89 | 5,754.95 | 99.94 | 58.585 | | |
| 11,700.00 | 6,934.20 | 6,900.01 | 6,967.85 | 138.19 | 29.49 | -90.31 | -4,100.38 | 499.47 | 5,946.13 | 5,845.87 | 100.27 | 59.304 | | |
| 11,800.00 | 6,933.82 | 6,900.01 | 6,967.85 | 140.96 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,037.65 | 5,937.07 | 100.58 | 60.028 | | |
| 11,900.00 | 6,933.44 | 6,900.01 | 6,967.85 | 143.74 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,129.44 | 6,028.55 | 100.89 | 60.756 | | |
| 12,000.00 | 6,933.06 | 6,900.01 | 6,967.85 | 146.51 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,221.47 | 6,120.29 | 101.18 | 61.488 | | |
| 12,100.00 | 6,932.68 | 6,900.01 | 6,967.85 | 149.30 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,313.75 | 6,212.28 | 101.47 | 62.224 | | |
| 12,200.00 | 6,932.30 | 6,900.01 | 6,967.85 | 152.08 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,406.26 | 6,304.52 | 101.75 | 62.963 | | |
| 12,300.00 | 6,931.92 | 6,900.01 | 6,967.85 | 154.87 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,499.00 | 6,396.98 | 102.02 | 63.706 | | |
| 12,400.00 | 6,931.54 | 6,900.01 | 6,967.85 | 157.66 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,591.94 | 6,489.67 | 102.28 | 64.452 | | |
| 12,500.00 | 6,931.16 | 6,900.01 | 6,967.85 | 160.45 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,685.09 | 6,582.56 | 102.53 | 65.202 | | |
| 12,600.00 | 6,930.78 | 6,900.01 | 6,967.85 | 163.24 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,778.44 | 6,675.66 | 102.78 | 65.954 | | |
| 12,700.00 | 6,930.40 | 6,900.01 | 6,967.85 | 166.04 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,871.97 | 6,768.95 | 103.01 | 66.709 | | |
| 12,800.00 | 6,930.03 | 6,900.01 | 6,967.85 | 168.84 | 29.49 | -90.31 | -4,100.38 | 499.47 | 6,965.68 | 6,862.43 | 103.25 | 67.466 | | |
| 12,900.00 | 6,929.65 | 6,900.01 | 6,967.85 | 171.64 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,059.56 | 6,956.09 | 103.47 | 68.226 | | |
| 13,000.00 | 6,929.27 | 6,900.01 | 6,967.85 | 174.44 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,153.61 | 7,049.92 | 103.69 | 68.988 | | |
| 13,100.00 | 6,928.89 | 6,900.01 | 6,967.85 | 177.24 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,247.82 | 7,143.92 | 103.91 | 69.753 | | |
| 13,200.00 | 6,928.51 | 6,900.01 | 6,967.85 | 180.05 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,342.18 | 7,238.07 | 104.12 | 70.519 | | |
| 13,300.00 | 6,928.13 | 6,900.01 | 6,967.85 | 182.86 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,436.69 | 7,332.37 | 104.32 | 71.288 | | |
| 13,400.00 | 6,927.75 | 6,900.01 | 6,967.85 | 185.67 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,531.35 | 7,426.83 | 104.52 | 72.058 | | |
| 13,500.00 | 6,927.37 | 6,900.01 | 6,967.85 | 188.48 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,626.13 | 7,521.42 | 104.71 | 72.830 | | |
| 13,600.00 | 6,926.99 | 6,900.01 | 6,967.85 | 191.29 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,721.05 | 7,616.15 | 104.90 | 73.603 | | |
| 13,700.00 | 6,926.61 | 6,900.01 | 6,967.85 | 194.10 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,816.10 | 7,711.01 | 105.09 | 74.378 | | |
| 13,800.00 | 6,926.23 | 6,900.01 | 6,967.85 | 196.92 | 29.49 | -90.31 | -4,100.38 | 499.47 | 7,911.27 | 7,806.00 | 105.27 | 75.154 | | |
| 13,900.00 | 6,925.85 | 6,900.01 | 6,967.85 | 199.73 | 29.49 | -90.31 | -4,100.38 | 499.47 | 8,006.55 | 7,901.11 | 105.44 | 75.932 | | |
| 14,000.00 | 6,925.47 | 6,900.01 | 6,967.85 | 202.55 | 29.49 | -90.31 | -4,100.38 | 499.47 | 8,101.95 | 7,996.34 | 105.62 | 76.711 | | |
| 14,100.00 | 6,925.09 | 6,900.01 | 6,967.85 | 205.37 | 29.49 | -90.31 | -4,100.38 | 499.47 | 8,197.46 | 8,091.68 | 105.79 | 77.491 | | |
| 14,200.00 | 6,924.71 | 6,900.01 | 6,967.85 | 208.19 | 29.49 | -90.31 | -4,100.38 | 499.47 | 8,293.08 | 8,187.13 | 105.95 | 78.272 | | |
| 14,300.00 | 6,924.34 | 6,900.01 | 6,967.85 | 211.01 | 29.49 | -90.31 | -4,100.38 | 499.47 | 8,388.79 | 8,282.68 | 106.11 | 79.054 | | |
| 14,400.00 | 6,923.96 | 6,904.17 | 6,972.00 | 213.83 | 29.50 | -90.41 | -4,100.32 | 499.46 | 8,484.61 | 8,378.32 | 106.29 | 79.825 | | |
| 14,500.00 | 6,923.58 | 6,904.03 | 6,971.87 | 216.65 | 29.50 | -90.40 | -4,100.33 | 499.46 | 8,580.52 | 8,474.08 | 106.45 | 80.609 | | |
| 14,600.00 | 6,923.20 | 6,903.90 | 6,971.73 | 219.48 | 29.50 | -90.40 | -4,100.33 | 499.46 | 8,676.53 | 8,569.93 | 106.60 | 81.394 | | |
| 14,700.00 | 6,922.82 | 6,903.76 | 6,971.59 | 222.30 | 29.50 | -90.40 | -4,100.33 | 499.46 | 8,772.62 | 8,665.87 | 106.75 | 82.180 | | |
| 14,800.00 | 6,922.44 | 6,903.62 | 6,971.46 | 225.13 | 29.50 | -90.39 | -4,100.33 | 499.46 | 8,868.80 | 8,761.90 | 106.90 | 82.967 | | |
| 14,900.00 | 6,922.06 | 6,903.49 | 6,971.32 | 227.95 | 29.50 | -90.39 | -4,100.33 | 499.46 | 8,965.06 | 8,858.02 | 107.04 | 83.754 | | |
| 14,915.55 | 6,922.00 | 6,903.47 | 6,971.30 | 228.39 | 29.50 | -90.39 | -4,100.33 | 499.46 | 8,980.04 | 8,872.98 | 107.06 | 83.876 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 21.24 | -1.76 | 3.28 | 3.28 | 172.43 | -4,119.20 | 547.19 | 4,155.38 | | | | |
| 100.00 | 100.00 | 114.39 | 91.39 | 3.28 | 3.29 | 172.43 | -4,119.34 | 547.09 | 4,155.52 | 4,148.94 | 6.58 | 631.892 | |
| 200.00 | 200.00 | 213.43 | 190.43 | 3.34 | 3.35 | 172.44 | -4,119.58 | 546.97 | 4,155.75 | 4,149.06 | 6.69 | 621.096 | |
| 300.00 | 299.98 | 319.45 | 296.45 | 3.44 | 3.48 | -12.95 | -4,119.76 | 546.76 | 4,154.19 | 4,147.27 | 6.92 | 600.570 | |
| 400.00 | 399.84 | 419.59 | 396.59 | 3.59 | 3.64 | -12.99 | -4,119.90 | 546.42 | 4,149.18 | 4,141.94 | 7.23 | 573.602 | |
| 500.00 | 499.45 | 521.42 | 498.42 | 3.79 | 3.85 | -13.05 | -4,119.98 | 546.11 | 4,140.72 | 4,133.08 | 7.64 | 541.790 | |
| 600.00 | 598.70 | 619.05 | 596.05 | 4.03 | 4.09 | -13.14 | -4,120.08 | 545.74 | 4,128.90 | 4,120.79 | 8.12 | 508.570 | |
| 700.00 | 697.47 | 719.53 | 696.52 | 4.31 | 4.36 | -13.25 | -4,120.15 | 545.45 | 4,113.69 | 4,105.03 | 8.67 | 474.673 | |
| 800.00 | 795.62 | 814.31 | 791.31 | 4.64 | 4.64 | -13.40 | -4,120.25 | 545.25 | 4,095.18 | 4,085.93 | 9.25 | 442.621 | |
| 900.00 | 893.06 | 913.17 | 890.17 | 5.00 | 4.95 | -13.57 | -4,120.37 | 544.94 | 4,073.36 | 4,063.46 | 9.90 | 411.628 | |
| 1,000.00 | 989.78 | 1,008.21 | 985.20 | 5.39 | 5.26 | -13.70 | -4,120.51 | 544.66 | 4,048.75 | 4,038.19 | 10.56 | 383.223 | |
| 1,100.00 | 1,086.42 | 1,108.75 | 1,085.75 | 5.81 | 5.60 | -13.79 | -4,120.61 | 544.38 | 4,023.79 | 4,012.52 | 11.27 | 356.943 | |
| 1,200.00 | 1,183.06 | 1,200.66 | 1,177.65 | 6.25 | 5.93 | -13.86 | -4,120.74 | 544.05 | 3,998.86 | 3,986.88 | 11.98 | 333.842 | |
| 1,300.00 | 1,279.69 | 1,289.56 | 1,266.56 | 6.71 | 6.25 | -13.94 | -4,121.00 | 543.67 | 3,974.07 | 3,961.38 | 12.70 | 313.037 | |
| 1,400.00 | 1,376.33 | 1,387.23 | 1,364.22 | 7.17 | 6.61 | -14.02 | -4,121.39 | 543.21 | 3,949.40 | 3,935.94 | 13.46 | 293.394 | |
| 1,500.00 | 1,472.97 | 1,490.61 | 1,467.59 | 7.65 | 7.00 | -14.11 | -4,121.72 | 542.60 | 3,924.63 | 3,910.36 | 14.26 | 275.167 | |
| 1,600.00 | 1,569.61 | 1,586.48 | 1,563.47 | 8.13 | 7.36 | -14.19 | -4,121.95 | 541.96 | 3,899.78 | 3,884.73 | 15.05 | 259.105 | |
| 1,700.00 | 1,666.24 | 1,682.53 | 1,659.51 | 8.62 | 7.73 | -14.27 | -4,122.20 | 541.34 | 3,874.97 | 3,859.12 | 15.85 | 244.463 | |
| 1,800.00 | 1,762.88 | 1,775.88 | 1,752.86 | 9.12 | 8.10 | -14.35 | -4,122.49 | 540.73 | 3,850.20 | 3,833.55 | 16.65 | 231.231 | |
| 1,900.00 | 1,859.52 | 1,867.90 | 1,844.87 | 9.62 | 8.46 | -14.43 | -4,122.90 | 540.01 | 3,825.56 | 3,808.10 | 17.45 | 219.172 | |
| 2,000.00 | 1,956.16 | 1,962.50 | 1,939.47 | 10.13 | 8.84 | -14.51 | -4,123.44 | 539.10 | 3,801.02 | 3,782.74 | 18.27 | 207.993 | |
| 2,100.00 | 2,052.79 | 2,064.77 | 2,041.73 | 10.64 | 9.25 | -14.60 | -4,124.04 | 537.88 | 3,776.46 | 3,757.34 | 19.13 | 197.425 | |
| 2,200.00 | 2,149.43 | 2,167.61 | 2,144.56 | 11.15 | 9.66 | -14.68 | -4,124.44 | 536.60 | 3,751.72 | 3,731.73 | 19.99 | 187.684 | |
| 2,300.00 | 2,246.07 | 2,274.22 | 2,251.16 | 11.66 | 10.09 | -14.77 | -4,124.69 | 535.15 | 3,726.82 | 3,705.95 | 20.87 | 178.588 | |
| 2,400.00 | 2,342.71 | 2,379.94 | 2,356.87 | 12.18 | 10.52 | -14.86 | -4,124.61 | 533.80 | 3,701.64 | 3,679.90 | 21.75 | 170.213 | |
| 2,500.00 | 2,439.34 | 2,476.99 | 2,453.92 | 12.70 | 10.92 | -14.94 | -4,124.39 | 532.68 | 3,676.34 | 3,653.74 | 22.60 | 162.675 | |
| 2,600.00 | 2,535.98 | 2,575.58 | 2,552.50 | 13.22 | 11.32 | -15.03 | -4,124.12 | 531.77 | 3,651.05 | 3,627.59 | 23.46 | 155.630 | |
| 2,700.00 | 2,632.62 | 2,672.83 | 2,649.75 | 13.75 | 11.72 | -15.13 | -4,123.79 | 530.95 | 3,625.71 | 3,601.39 | 24.32 | 149.091 | |
| 2,800.00 | 2,729.26 | 2,764.59 | 2,741.50 | 14.27 | 12.10 | -15.22 | -4,123.52 | 530.16 | 3,600.42 | 3,575.26 | 25.16 | 143.090 | |
| 2,900.00 | 2,825.89 | 2,861.42 | 2,838.34 | 14.80 | 12.50 | -15.31 | -4,123.35 | 529.39 | 3,575.26 | 3,549.24 | 26.02 | 137.378 | |
| 3,000.00 | 2,922.53 | 2,951.37 | 2,928.28 | 15.32 | 12.87 | -15.41 | -4,123.16 | 528.79 | 3,550.10 | 3,523.23 | 26.87 | 132.134 | |
| 3,100.00 | 3,019.17 | 3,037.49 | 3,014.40 | 15.85 | 13.23 | -15.50 | -4,123.24 | 528.37 | 3,525.27 | 3,497.57 | 27.70 | 127.267 | |
| 3,200.00 | 3,115.81 | 3,131.16 | 3,108.06 | 16.38 | 13.62 | -15.60 | -4,123.52 | 527.91 | 3,500.64 | 3,472.08 | 28.56 | 122.574 | |
| 3,300.00 | 3,212.44 | 3,227.50 | 3,204.41 | 16.91 | 14.02 | -15.70 | -4,123.79 | 527.38 | 3,476.00 | 3,446.57 | 29.43 | 118.111 | |
| 3,400.00 | 3,309.08 | 3,314.87 | 3,291.78 | 17.44 | 14.38 | -15.80 | -4,124.21 | 526.88 | 3,451.55 | 3,421.28 | 30.27 | 114.014 | |
| 3,500.00 | 3,405.72 | 3,407.83 | 3,384.73 | 17.97 | 14.77 | -15.90 | -4,124.88 | 526.27 | 3,427.34 | 3,396.20 | 31.14 | 110.076 | |
| 3,600.00 | 3,502.36 | 3,545.08 | 3,521.98 | 18.50 | 15.35 | -16.05 | -4,124.92 | 525.64 | 3,402.47 | 3,370.33 | 32.14 | 105.867 | |
| 3,700.00 | 3,598.99 | 3,656.96 | 3,633.85 | 19.03 | 15.81 | -16.19 | -4,123.98 | 525.53 | 3,376.88 | 3,343.82 | 33.06 | 102.142 | |
| 3,800.00 | 3,695.63 | 3,762.73 | 3,739.61 | 19.57 | 16.25 | -16.33 | -4,122.77 | 525.28 | 3,350.99 | 3,317.03 | 33.96 | 98.663 | |
| 3,900.00 | 3,792.27 | 3,855.88 | 3,832.76 | 20.10 | 16.64 | -16.45 | -4,121.54 | 525.09 | 3,324.97 | 3,290.14 | 34.83 | 95.459 | |
| 4,000.00 | 3,888.91 | 3,944.04 | 3,920.92 | 20.63 | 17.01 | -16.56 | -4,120.63 | 524.78 | 3,299.20 | 3,263.51 | 35.69 | 92.452 | |
| 4,100.00 | 3,985.54 | 4,034.80 | 4,011.67 | 21.17 | 17.39 | -16.68 | -4,119.89 | 524.39 | 3,273.64 | 3,237.09 | 36.55 | 89.568 | |
| 4,200.00 | 4,082.18 | 4,123.93 | 4,100.79 | 21.70 | 17.76 | -16.79 | -4,119.34 | 523.87 | 3,248.25 | 3,210.84 | 37.41 | 86.830 | |
| 4,300.00 | 4,178.82 | 4,207.07 | 4,183.93 | 22.24 | 18.11 | -16.89 | -4,119.14 | 523.36 | 3,223.24 | 3,184.98 | 38.25 | 84.259 | |
| 4,400.00 | 4,275.46 | 4,306.30 | 4,283.16 | 22.77 | 18.53 | -17.02 | -4,119.05 | 522.79 | 3,198.38 | 3,159.23 | 39.15 | 81.705 | |
| 4,500.00 | 4,372.09 | 4,397.91 | 4,374.77 | 23.31 | 18.92 | -17.14 | -4,119.00 | 522.31 | 3,173.58 | 3,133.56 | 40.02 | 79.307 | |
| 4,600.00 | 4,468.73 | 4,495.63 | 4,472.49 | 23.84 | 19.33 | -17.27 | -4,118.99 | 521.87 | 3,148.84 | 3,107.94 | 40.91 | 76.979 | |
| 4,700.00 | 4,565.37 | 4,594.66 | 4,571.51 | 24.38 | 19.75 | -17.41 | -4,118.92 | 521.42 | 3,124.07 | 3,082.28 | 41.80 | 74.742 | |
| 4,800.00 | 4,662.01 | 4,685.36 | 4,662.22 | 24.91 | 20.14 | -17.53 | -4,118.92 | 520.95 | 3,099.37 | 3,056.70 | 42.67 | 72.635 | |
| 4,900.00 | 4,758.64 | 4,773.68 | 4,750.53 | 25.45 | 20.51 | -17.66 | -4,119.09 | 520.63 | 3,074.90 | 3,031.36 | 43.54 | 70.628 | |
| 5,000.00 | 4,855.28 | 4,868.22 | 4,845.08 | 25.99 | 20.91 | -17.80 | -4,119.41 | 520.65 | 3,050.65 | 3,006.23 | 44.42 | 68.676 | |
| 5,100.00 | 4,951.92 | 4,965.12 | 4,941.97 | 26.53 | 21.32 | -17.95 | -4,119.73 | 520.67 | 3,026.42 | 2,981.11 | 45.31 | 66.791 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,059.95 | 5,036.81 | 27.06 | 21.71 | -18.09 | -4,120.06 | 520.70 | 3,002.23 | 2,956.04 | 46.20 | 64.986 | | |
| 5,300.00 | 5,145.19 | 5,154.56 | 5,131.41 | 27.60 | 22.11 | -18.24 | -4,120.47 | 520.75 | 2,978.14 | 2,931.06 | 47.09 | 63.250 | | |
| 5,400.00 | 5,241.83 | 5,252.96 | 5,229.82 | 28.14 | 22.53 | -18.40 | -4,120.91 | 520.84 | 2,954.10 | 2,906.12 | 47.98 | 61.567 | | |
| 5,500.00 | 5,338.47 | 5,352.13 | 5,328.98 | 28.67 | 22.95 | -18.56 | -4,121.29 | 520.74 | 2,929.97 | 2,881.09 | 48.88 | 59.940 | | |
| 5,600.00 | 5,435.11 | 5,447.24 | 5,424.09 | 29.21 | 23.35 | -18.71 | -4,121.63 | 520.69 | 2,905.85 | 2,856.08 | 49.77 | 58.383 | | |
| 5,700.00 | 5,531.74 | 5,561.35 | 5,538.20 | 29.75 | 23.83 | -18.91 | -4,121.92 | 520.68 | 2,881.70 | 2,830.99 | 50.71 | 56.832 | | |
| 5,800.00 | 5,628.38 | 5,671.72 | 5,648.57 | 30.29 | 24.30 | -19.11 | -4,121.18 | 520.99 | 2,856.71 | 2,805.08 | 51.63 | 55.331 | | |
| 5,900.00 | 5,725.02 | 5,758.56 | 5,735.41 | 30.83 | 24.66 | -19.26 | -4,120.61 | 521.13 | 2,831.75 | 2,779.25 | 52.50 | 53.934 | | |
| 6,000.00 | 5,821.66 | 5,845.23 | 5,822.08 | 31.37 | 25.03 | -19.42 | -4,120.49 | 521.08 | 2,807.26 | 2,753.88 | 53.38 | 52.590 | | |
| 6,100.00 | 5,918.29 | 5,940.24 | 5,917.08 | 31.90 | 25.43 | -19.59 | -4,120.58 | 520.95 | 2,782.98 | 2,728.71 | 54.27 | 51.277 | | |
| 6,200.00 | 6,014.93 | 6,037.96 | 6,014.80 | 32.44 | 25.85 | -19.76 | -4,120.66 | 520.58 | 2,758.67 | 2,703.50 | 55.17 | 50.000 | | |
| 6,300.00 | 6,111.57 | 6,132.80 | 6,109.65 | 32.98 | 26.25 | -19.93 | -4,120.82 | 520.13 | 2,734.44 | 2,678.38 | 56.07 | 48.771 | | |
| 6,400.00 | 6,208.21 | 6,235.13 | 6,211.97 | 33.52 | 26.69 | -20.11 | -4,121.00 | 519.53 | 2,710.21 | 2,653.24 | 56.98 | 47.567 | | |
| 6,500.00 | 6,304.84 | 6,344.25 | 6,321.09 | 34.06 | 27.15 | -20.30 | -4,120.76 | 518.65 | 2,685.59 | 2,627.69 | 57.90 | 46.386 | | |
| 6,600.00 | 6,401.37 | 6,444.07 | 6,420.90 | 34.60 | 27.58 | -20.49 | -4,120.30 | 517.62 | 2,661.25 | 2,602.45 | 58.80 | 45.256 | | |
| 6,700.00 | 6,496.25 | 6,541.99 | 6,518.81 | 35.12 | 27.99 | -20.68 | -4,119.80 | 516.62 | 2,640.82 | 2,581.10 | 59.72 | 44.220 | | |
| 6,800.00 | 6,587.15 | 6,638.12 | 6,614.93 | 35.59 | 28.40 | -20.87 | -4,119.15 | 515.38 | 2,625.38 | 2,564.75 | 60.63 | 43.304 | | |
| 6,900.00 | 6,671.83 | 6,722.42 | 6,699.22 | 36.03 | 28.76 | -21.06 | -4,118.57 | 514.20 | 2,616.15 | 2,554.64 | 61.50 | 42.536 | | |
| 6,976.62 | 6,731.20 | 6,782.52 | 6,759.32 | 36.32 | 29.02 | -21.25 | -4,118.21 | 513.22 | 2,613.90 | 2,551.72 | 62.17 | 42.041 CC, ES | | |
| 7,000.00 | 6,748.21 | 6,799.84 | 6,776.63 | 36.41 | 29.09 | -21.34 | -4,118.12 | 512.91 | 2,614.12 | 2,551.74 | 62.38 | 41.908 | | |
| 7,100.00 | 6,814.41 | 6,878.51 | 6,855.28 | 36.76 | 29.43 | -21.53 | -4,117.63 | 511.14 | 2,619.98 | 2,556.69 | 63.29 | 41.398 | | |
| 7,200.00 | 6,868.79 | 6,941.23 | 6,917.97 | 37.07 | 29.69 | -21.72 | -4,117.14 | 509.37 | 2,634.31 | 2,570.06 | 64.25 | 41.003 | | |
| 7,300.00 | 6,910.01 | 6,988.54 | 6,965.26 | 37.39 | 29.90 | -21.91 | -4,116.71 | 507.97 | 2,657.54 | 2,592.26 | 65.28 | 40.709 | | |
| 7,400.00 | 6,937.07 | 7,022.33 | 6,999.03 | 37.76 | 30.04 | -22.10 | -4,116.38 | 506.93 | 2,689.59 | 2,623.20 | 66.39 | 40.511 | | |
| 7,500.00 | 6,949.29 | 7,040.35 | 7,017.04 | 38.27 | 30.12 | -22.29 | -4,116.20 | 506.33 | 2,729.87 | 2,662.32 | 67.54 | 40.416 | | |
| 7,600.00 | 6,949.75 | 7,044.92 | 7,021.61 | 39.02 | 30.14 | -22.48 | -4,116.15 | 506.18 | 2,776.52 | 2,707.81 | 68.71 | 40.408 | | |
| 7,700.00 | 6,949.37 | 7,048.60 | 7,025.29 | 40.05 | 30.15 | -22.67 | -4,116.11 | 506.05 | 2,826.16 | 2,756.21 | 69.94 | 40.406 SF | | |
| 7,800.00 | 6,948.99 | 7,052.37 | 7,029.05 | 41.35 | 30.17 | -22.86 | -4,116.07 | 505.92 | 2,878.41 | 2,807.19 | 71.22 | 40.415 | | |
| 7,900.00 | 6,948.61 | 7,056.23 | 7,032.91 | 42.86 | 30.18 | -23.05 | -4,116.03 | 505.78 | 2,933.14 | 2,860.61 | 72.52 | 40.444 | | |
| 8,000.00 | 6,948.23 | 7,060.17 | 7,036.85 | 44.53 | 30.20 | -23.24 | -4,115.99 | 505.64 | 2,990.20 | 2,916.37 | 73.83 | 40.499 | | |
| 8,100.00 | 6,947.85 | 7,064.22 | 7,040.90 | 46.34 | 30.22 | -23.43 | -4,115.95 | 505.49 | 3,049.48 | 2,974.34 | 75.14 | 40.584 | | |
| 8,200.00 | 6,947.47 | 7,068.37 | 7,045.04 | 48.26 | 30.24 | -23.62 | -4,115.90 | 505.34 | 3,110.83 | 3,034.40 | 76.43 | 40.702 | | |
| 8,300.00 | 6,947.09 | 7,072.61 | 7,049.28 | 50.28 | 30.25 | -23.81 | -4,115.86 | 505.18 | 3,174.15 | 3,096.45 | 77.70 | 40.853 | | |
| 8,400.00 | 6,946.72 | 7,076.97 | 7,053.64 | 52.39 | 30.27 | -24.00 | -4,115.81 | 505.02 | 3,239.31 | 3,160.38 | 78.93 | 41.038 | | |
| 8,500.00 | 6,946.34 | 7,081.44 | 7,058.10 | 54.56 | 30.29 | -24.19 | -4,115.76 | 504.85 | 3,306.21 | 3,226.07 | 80.14 | 41.257 | | |
| 8,600.00 | 6,945.96 | 7,086.02 | 7,062.68 | 56.80 | 30.31 | -24.38 | -4,115.72 | 504.67 | 3,374.74 | 3,293.44 | 81.30 | 41.508 | | |
| 8,700.00 | 6,945.58 | 7,090.73 | 7,067.39 | 59.10 | 30.33 | -24.57 | -4,115.66 | 504.49 | 3,444.81 | 3,362.38 | 82.43 | 41.790 | | |
| 8,800.00 | 6,945.20 | 7,095.56 | 7,072.21 | 61.44 | 30.35 | -24.76 | -4,115.61 | 504.30 | 3,516.32 | 3,432.80 | 83.52 | 42.102 | | |
| 8,900.00 | 6,944.82 | 7,100.52 | 7,077.17 | 63.83 | 30.37 | -24.95 | -4,115.56 | 504.10 | 3,589.19 | 3,504.62 | 84.57 | 42.442 | | |
| 9,000.00 | 6,944.44 | 7,105.62 | 7,082.26 | 66.25 | 30.40 | -25.14 | -4,115.50 | 503.90 | 3,663.33 | 3,577.75 | 85.58 | 42.808 | | |
| 9,100.00 | 6,944.06 | 7,110.86 | 7,087.50 | 68.71 | 30.42 | -25.33 | -4,115.45 | 503.69 | 3,738.67 | 3,652.13 | 86.54 | 43.200 | | |
| 9,200.00 | 6,943.68 | 7,116.25 | 7,092.88 | 71.20 | 30.44 | -25.52 | -4,115.39 | 503.46 | 3,815.14 | 3,727.67 | 87.47 | 43.614 | | |
| 9,300.00 | 6,943.30 | 7,114.79 | 7,091.43 | 73.72 | 30.43 | -25.71 | -4,115.40 | 503.54 | 3,892.69 | 3,804.34 | 88.35 | 44.060 | | |
| 9,400.00 | 6,942.92 | 7,118.40 | 7,095.03 | 76.26 | 30.45 | -25.90 | -4,115.36 | 503.39 | 3,971.22 | 3,882.02 | 89.20 | 44.520 | | |
| 9,500.00 | 6,942.54 | 7,122.00 | 7,098.63 | 78.82 | 30.47 | -26.09 | -4,115.33 | 503.25 | 4,050.71 | 3,960.69 | 90.02 | 44.999 | | |
| 9,600.00 | 6,942.16 | 7,125.60 | 7,102.23 | 81.40 | 30.48 | -26.28 | -4,115.29 | 503.10 | 4,131.08 | 4,040.28 | 90.80 | 45.497 | | |
| 9,700.00 | 6,941.78 | 7,129.21 | 7,105.83 | 84.00 | 30.50 | -26.47 | -4,115.25 | 502.96 | 4,212.28 | 4,120.73 | 91.55 | 46.012 | | |
| 9,800.00 | 6,941.40 | 7,132.81 | 7,109.43 | 86.62 | 30.51 | -26.66 | -4,115.21 | 502.82 | 4,294.28 | 4,202.01 | 92.27 | 46.542 | | |
| 9,900.00 | 6,941.03 | 7,136.42 | 7,113.03 | 89.25 | 30.53 | -26.85 | -4,115.17 | 502.67 | 4,377.02 | 4,284.07 | 92.95 | 47.088 | | |
| 10,000.00 | 6,940.65 | 7,140.02 | 7,116.63 | 91.90 | 30.54 | -27.04 | -4,115.13 | 502.53 | 4,460.47 | 4,366.86 | 93.61 | 47.647 | | |
| 10,100.00 | 6,940.27 | 7,143.62 | 7,120.23 | 94.56 | 30.56 | -27.23 | -4,115.09 | 502.39 | 4,544.58 | 4,450.34 | 94.25 | 48.219 | | |
| 10,200.00 | 6,939.89 | 7,147.23 | 7,123.83 | 97.23 | 30.57 | -27.42 | -4,115.05 | 502.24 | 4,629.33 | 4,534.47 | 94.86 | 48.804 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 7,150.83 | 7,127.44 | 99.91 | 30.59 | -94.06 | -4,115.01 | 502.10 | 4,714.66 | 4,619.22 | 95.44 | 49.399 | | |
| 10,400.00 | 6,939.13 | 7,154.44 | 7,131.04 | 102.60 | 30.60 | -94.15 | -4,114.97 | 501.95 | 4,800.56 | 4,704.56 | 96.00 | 50.006 | | |
| 10,500.00 | 6,938.75 | 7,158.04 | 7,134.64 | 105.30 | 30.62 | -94.23 | -4,114.93 | 501.81 | 4,887.00 | 4,790.46 | 96.54 | 50.622 | | |
| 10,600.00 | 6,938.37 | 7,161.64 | 7,138.24 | 108.00 | 30.63 | -94.32 | -4,114.89 | 501.67 | 4,973.94 | 4,876.88 | 97.06 | 51.248 | | |
| 10,700.00 | 6,937.99 | 7,165.25 | 7,141.84 | 110.72 | 30.65 | -94.40 | -4,114.85 | 501.52 | 5,061.36 | 4,963.80 | 97.55 | 51.882 | | |
| 10,800.00 | 6,937.61 | 7,168.85 | 7,145.44 | 113.44 | 30.67 | -94.49 | -4,114.82 | 501.38 | 5,149.23 | 5,051.20 | 98.03 | 52.525 | | |
| 10,900.00 | 6,937.23 | 7,172.46 | 7,149.04 | 116.17 | 30.68 | -94.57 | -4,114.78 | 501.23 | 5,237.54 | 5,139.04 | 98.50 | 53.175 | | |
| 11,000.00 | 6,936.85 | 7,176.06 | 7,152.64 | 118.90 | 30.70 | -94.66 | -4,114.74 | 501.09 | 5,326.26 | 5,227.32 | 98.94 | 53.833 | | |
| 11,100.00 | 6,936.47 | 7,179.66 | 7,156.24 | 121.64 | 30.71 | -94.74 | -4,114.70 | 500.95 | 5,415.37 | 5,316.00 | 99.37 | 54.497 | | |
| 11,200.00 | 6,936.09 | 7,183.27 | 7,159.84 | 124.39 | 30.73 | -94.82 | -4,114.66 | 500.80 | 5,504.85 | 5,405.06 | 99.78 | 55.168 | | |
| 11,300.00 | 6,935.71 | 7,186.87 | 7,163.45 | 127.14 | 30.74 | -94.91 | -4,114.62 | 500.66 | 5,594.68 | 5,494.50 | 100.18 | 55.844 | | |
| 11,400.00 | 6,935.34 | 7,190.48 | 7,167.05 | 129.90 | 30.76 | -94.99 | -4,114.58 | 500.52 | 5,684.86 | 5,584.29 | 100.57 | 56.527 | | |
| 11,500.00 | 6,934.96 | 7,194.08 | 7,170.65 | 132.66 | 30.77 | -95.08 | -4,114.54 | 500.37 | 5,775.35 | 5,674.41 | 100.94 | 57.214 | | |
| 11,600.00 | 6,934.58 | 7,197.68 | 7,174.25 | 135.42 | 30.79 | -95.16 | -4,114.50 | 500.23 | 5,866.15 | 5,764.85 | 101.30 | 57.907 | | |
| 11,700.00 | 6,934.20 | 7,201.29 | 7,177.85 | 138.19 | 30.80 | -95.25 | -4,114.46 | 500.08 | 5,957.24 | 5,855.59 | 101.65 | 58.604 | | |
| 11,800.00 | 6,933.82 | 7,204.89 | 7,181.45 | 140.96 | 30.82 | -95.33 | -4,114.42 | 499.94 | 6,048.61 | 5,946.62 | 101.99 | 59.305 | | |
| 11,900.00 | 6,933.44 | 7,208.50 | 7,185.05 | 143.74 | 30.84 | -95.42 | -4,114.38 | 499.80 | 6,140.25 | 6,037.93 | 102.32 | 60.011 | | |
| 12,000.00 | 6,933.06 | 7,212.10 | 7,188.65 | 146.51 | 30.85 | -95.50 | -4,114.35 | 499.65 | 6,232.15 | 6,129.51 | 102.64 | 60.721 | | |
| 12,100.00 | 6,932.68 | 7,215.70 | 7,192.25 | 149.30 | 30.87 | -95.58 | -4,114.31 | 499.51 | 6,324.28 | 6,221.34 | 102.94 | 61.434 | | |
| 12,200.00 | 6,932.30 | 7,219.31 | 7,195.85 | 152.08 | 30.88 | -95.67 | -4,114.27 | 499.37 | 6,416.66 | 6,313.41 | 103.24 | 62.151 | | |
| 12,300.00 | 6,931.92 | 7,222.91 | 7,199.45 | 154.87 | 30.90 | -95.75 | -4,114.23 | 499.22 | 6,509.25 | 6,405.72 | 103.53 | 62.871 | | |
| 12,400.00 | 6,931.54 | 7,226.52 | 7,203.06 | 157.66 | 30.91 | -95.84 | -4,114.19 | 499.08 | 6,602.06 | 6,498.24 | 103.82 | 63.593 | | |
| 12,500.00 | 6,931.16 | 7,230.12 | 7,206.66 | 160.45 | 30.93 | -95.92 | -4,114.15 | 498.93 | 6,695.07 | 6,590.98 | 104.09 | 64.319 | | |
| 12,600.00 | 6,930.78 | 7,233.73 | 7,210.26 | 163.24 | 30.94 | -96.00 | -4,114.11 | 498.79 | 6,788.28 | 6,683.92 | 104.36 | 65.048 | | |
| 12,700.00 | 6,930.40 | 7,237.33 | 7,213.86 | 166.04 | 30.96 | -96.09 | -4,114.07 | 498.65 | 6,881.68 | 6,777.06 | 104.62 | 65.779 | | |
| 12,800.00 | 6,930.03 | 7,240.93 | 7,217.46 | 168.84 | 30.97 | -96.17 | -4,114.03 | 498.50 | 6,975.26 | 6,870.39 | 104.87 | 66.512 | | |
| 12,900.00 | 6,929.65 | 7,244.54 | 7,221.06 | 171.64 | 30.99 | -96.26 | -4,113.99 | 498.36 | 7,069.02 | 6,963.90 | 105.12 | 67.248 | | |
| 13,000.00 | 6,929.27 | 7,248.14 | 7,224.66 | 174.44 | 31.00 | -96.34 | -4,113.95 | 498.22 | 7,162.94 | 7,057.58 | 105.36 | 67.985 | | |
| 13,100.00 | 6,928.89 | 7,251.75 | 7,228.26 | 177.24 | 31.02 | -96.43 | -4,113.91 | 498.07 | 7,257.02 | 7,151.43 | 105.60 | 68.725 | | |
| 13,200.00 | 6,928.51 | 7,255.35 | 7,231.86 | 180.05 | 31.04 | -96.51 | -4,113.87 | 497.93 | 7,351.26 | 7,245.43 | 105.82 | 69.466 | | |
| 13,300.00 | 6,928.13 | 7,258.95 | 7,235.46 | 182.86 | 31.05 | -96.59 | -4,113.84 | 497.78 | 7,445.64 | 7,339.59 | 106.05 | 70.210 | | |
| 13,400.00 | 6,927.75 | 7,262.56 | 7,239.07 | 185.67 | 31.07 | -96.68 | -4,113.80 | 497.64 | 7,540.17 | 7,433.90 | 106.27 | 70.954 | | |
| 13,500.00 | 6,927.37 | 7,266.16 | 7,242.67 | 188.48 | 31.08 | -96.76 | -4,113.76 | 497.50 | 7,634.84 | 7,528.35 | 106.48 | 71.701 | | |
| 13,600.00 | 6,926.99 | 7,269.77 | 7,246.27 | 191.29 | 31.10 | -96.85 | -4,113.72 | 497.35 | 7,729.63 | 7,622.94 | 106.69 | 72.448 | | |
| 13,700.00 | 6,926.61 | 7,273.37 | 7,249.87 | 194.10 | 31.11 | -96.93 | -4,113.68 | 497.21 | 7,824.56 | 7,717.66 | 106.90 | 73.197 | | |
| 13,800.00 | 6,926.23 | 7,276.97 | 7,253.47 | 196.92 | 31.13 | -97.01 | -4,113.64 | 497.07 | 7,919.61 | 7,812.51 | 107.10 | 73.947 | | |
| 13,900.00 | 6,925.85 | 7,280.58 | 7,257.07 | 199.73 | 31.14 | -97.10 | -4,113.60 | 496.92 | 8,014.78 | 7,907.48 | 107.30 | 74.698 | | |
| 14,000.00 | 6,925.47 | 7,284.18 | 7,260.67 | 202.55 | 31.16 | -97.18 | -4,113.56 | 496.78 | 8,110.06 | 8,002.57 | 107.49 | 75.451 | | |
| 14,100.00 | 6,925.09 | 7,287.79 | 7,264.27 | 205.37 | 31.17 | -97.26 | -4,113.52 | 496.63 | 8,205.46 | 8,097.78 | 107.68 | 76.204 | | |
| 14,200.00 | 6,924.71 | 7,291.39 | 7,267.87 | 208.19 | 31.19 | -97.35 | -4,113.48 | 496.49 | 8,300.96 | 8,193.09 | 107.86 | 76.958 | | |
| 14,300.00 | 6,924.34 | 7,294.99 | 7,271.47 | 211.01 | 31.21 | -97.43 | -4,113.44 | 496.35 | 8,396.56 | 8,288.52 | 108.05 | 77.713 | | |
| 14,400.00 | 6,923.96 | 7,298.60 | 7,275.08 | 213.83 | 31.22 | -97.52 | -4,113.40 | 496.20 | 8,492.26 | 8,384.04 | 108.23 | 78.468 | | |
| 14,500.00 | 6,923.58 | 7,302.20 | 7,278.68 | 216.65 | 31.24 | -97.60 | -4,113.37 | 496.06 | 8,588.06 | 8,479.66 | 108.40 | 79.225 | | |
| 14,600.00 | 6,923.20 | 7,305.81 | 7,282.28 | 219.48 | 31.25 | -97.68 | -4,113.33 | 495.91 | 8,683.96 | 8,575.38 | 108.57 | 79.981 | | |
| 14,700.00 | 6,922.82 | 7,309.41 | 7,285.88 | 222.30 | 31.27 | -97.77 | -4,113.29 | 495.77 | 8,779.94 | 8,671.20 | 108.74 | 80.739 | | |
| 14,800.00 | 6,922.44 | 7,313.01 | 7,289.48 | 225.13 | 31.28 | -97.85 | -4,113.25 | 495.63 | 8,876.01 | 8,767.10 | 108.91 | 81.497 | | |
| 14,900.00 | 6,922.06 | 7,316.62 | 7,293.08 | 227.95 | 31.30 | -97.93 | -4,113.21 | 495.48 | 8,972.17 | 8,863.09 | 109.08 | 82.255 | | |
| 14,915.55 | 6,922.00 | 7,317.18 | 7,293.64 | 228.39 | 31.30 | -97.95 | -4,113.20 | 495.46 | 8,987.13 | 8,878.02 | 109.10 | 82.373 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BLACKGOLD 3(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 23.88 | -0.12 | 3.28 | 3.28 | -24.24 | 2,562.91 | -1,154.17 | 2,810.81 | | | | | |
| 100.00 | 100.00 | 121.86 | 97.86 | 3.28 | 3.29 | -24.25 | 2,562.84 | -1,154.38 | 2,810.83 | 2,804.25 | 6.58 | 427.236 | | |
| 200.00 | 200.00 | 219.48 | 195.48 | 3.34 | 3.36 | -24.25 | 2,563.01 | -1,154.46 | 2,811.01 | 2,804.32 | 6.70 | 419.794 | | |
| 300.00 | 299.98 | 329.23 | 305.23 | 3.44 | 3.49 | 150.38 | 2,563.00 | -1,154.10 | 2,812.38 | 2,805.45 | 6.93 | 405.807 | | |
| 400.00 | 399.84 | 420.62 | 396.61 | 3.59 | 3.64 | 150.39 | 2,563.09 | -1,153.99 | 2,816.96 | 2,809.73 | 7.23 | 389.408 | | |
| 500.00 | 499.45 | 528.97 | 504.97 | 3.79 | 3.87 | 150.41 | 2,563.02 | -1,153.92 | 2,824.46 | 2,816.81 | 7.66 | 368.865 | | |
| 600.00 | 598.70 | 635.49 | 611.49 | 4.03 | 4.13 | 150.44 | 2,562.86 | -1,153.65 | 2,834.85 | 2,826.69 | 8.16 | 347.476 | | |
| 700.00 | 697.47 | 740.50 | 716.49 | 4.31 | 4.41 | 150.48 | 2,562.30 | -1,153.05 | 2,847.77 | 2,839.05 | 8.72 | 326.395 | | |
| 800.00 | 795.62 | 836.02 | 812.02 | 4.64 | 4.70 | 150.51 | 2,562.01 | -1,152.58 | 2,863.98 | 2,854.66 | 9.32 | 307.270 | | |
| 900.00 | 893.06 | 942.51 | 918.50 | 5.00 | 5.03 | 150.57 | 2,561.37 | -1,151.77 | 2,882.83 | 2,872.83 | 10.00 | 288.318 | | |
| 1,000.00 | 989.78 | 1,031.74 | 1,007.73 | 5.39 | 5.33 | 150.71 | 2,560.89 | -1,151.20 | 2,904.37 | 2,893.71 | 10.66 | 272.458 | | |
| 1,100.00 | 1,086.42 | 1,123.84 | 1,099.82 | 5.81 | 5.65 | 150.94 | 2,560.60 | -1,150.71 | 2,926.51 | 2,915.16 | 11.35 | 257.795 | | |
| 1,200.00 | 1,183.06 | 1,224.19 | 1,200.17 | 6.25 | 6.00 | 151.20 | 2,560.24 | -1,150.20 | 2,948.67 | 2,936.57 | 12.10 | 243.688 | | |
| 1,300.00 | 1,279.69 | 1,320.03 | 1,296.01 | 6.71 | 6.35 | 151.44 | 2,559.81 | -1,149.76 | 2,970.83 | 2,957.98 | 12.85 | 231.125 | | |
| 1,400.00 | 1,376.33 | 1,411.26 | 1,387.23 | 7.17 | 6.69 | 151.67 | 2,559.61 | -1,149.19 | 2,993.18 | 2,979.57 | 13.61 | 219.979 | | |
| 1,500.00 | 1,472.97 | 1,510.41 | 1,486.38 | 7.65 | 7.06 | 151.92 | 2,559.44 | -1,148.57 | 3,015.62 | 3,001.21 | 14.41 | 209.338 | | |
| 1,600.00 | 1,569.61 | 1,615.08 | 1,591.05 | 8.13 | 7.46 | 152.17 | 2,558.94 | -1,148.12 | 3,037.91 | 3,022.66 | 15.24 | 199.330 | | |
| 1,700.00 | 1,666.24 | 1,707.78 | 1,683.75 | 8.62 | 7.82 | 152.37 | 2,558.26 | -1,148.21 | 3,060.20 | 3,044.16 | 16.04 | 190.821 | | |
| 1,800.00 | 1,762.88 | 1,794.72 | 1,770.68 | 9.12 | 8.16 | 152.56 | 2,557.77 | -1,148.47 | 3,082.76 | 3,065.94 | 16.82 | 183.314 | | |
| 1,900.00 | 1,859.52 | 1,917.78 | 1,893.74 | 9.62 | 8.64 | 152.83 | 2,556.85 | -1,148.63 | 3,105.14 | 3,087.37 | 17.76 | 174.829 | | |
| 2,000.00 | 1,956.16 | 1,996.00 | 1,971.96 | 10.13 | 8.95 | 152.99 | 2,556.16 | -1,148.96 | 3,127.50 | 3,108.99 | 18.52 | 168.902 | | |
| 2,100.00 | 2,052.79 | 2,094.39 | 2,070.35 | 10.64 | 9.34 | 153.19 | 2,555.41 | -1,149.50 | 3,150.08 | 3,130.71 | 19.37 | 162.660 | | |
| 2,200.00 | 2,149.43 | 2,203.08 | 2,179.04 | 11.15 | 9.78 | 153.41 | 2,554.44 | -1,149.80 | 3,172.48 | 3,152.22 | 20.27 | 156.529 | | |
| 2,300.00 | 2,246.07 | 2,292.23 | 2,268.18 | 11.66 | 10.14 | 153.59 | 2,553.57 | -1,150.08 | 3,194.86 | 3,173.78 | 21.09 | 151.522 | | |
| 2,400.00 | 2,342.71 | 2,391.53 | 2,367.47 | 12.18 | 10.54 | 153.78 | 2,552.60 | -1,150.65 | 3,217.36 | 3,195.41 | 21.95 | 146.559 | | |
| 2,500.00 | 2,439.34 | 2,486.10 | 2,462.03 | 12.70 | 10.93 | 153.96 | 2,551.57 | -1,151.43 | 3,239.87 | 3,217.07 | 22.80 | 142.089 | | |
| 2,600.00 | 2,535.98 | 2,579.46 | 2,555.38 | 13.22 | 11.31 | 154.13 | 2,550.60 | -1,152.34 | 3,262.50 | 3,238.85 | 23.65 | 137.963 | | |
| 2,700.00 | 2,632.62 | 2,667.56 | 2,643.48 | 13.75 | 11.67 | 154.29 | 2,549.85 | -1,153.16 | 3,285.33 | 3,260.86 | 24.47 | 134.258 | | |
| 2,800.00 | 2,729.26 | 2,752.53 | 2,728.44 | 14.27 | 12.02 | 154.44 | 2,549.45 | -1,153.89 | 3,308.50 | 3,283.22 | 25.28 | 130.881 | | |
| 2,900.00 | 2,825.89 | 2,844.09 | 2,820.00 | 14.80 | 12.40 | 154.60 | 2,549.28 | -1,154.84 | 3,332.02 | 3,305.90 | 26.12 | 127.566 | | |
| 3,000.00 | 2,922.53 | 2,943.49 | 2,919.39 | 15.32 | 12.81 | 154.78 | 2,549.04 | -1,155.89 | 3,355.52 | 3,328.52 | 27.00 | 124.272 | | |
| 3,100.00 | 3,019.17 | 3,040.01 | 3,015.90 | 15.85 | 13.21 | 154.94 | 2,548.62 | -1,157.38 | 3,379.03 | 3,351.16 | 27.87 | 121.238 | | |
| 3,200.00 | 3,115.81 | 3,133.47 | 3,109.35 | 16.38 | 13.60 | 155.09 | 2,548.24 | -1,158.83 | 3,402.59 | 3,373.86 | 28.73 | 118.446 | | |
| 3,300.00 | 3,212.44 | 3,223.07 | 3,198.92 | 16.91 | 13.97 | 155.22 | 2,547.95 | -1,160.52 | 3,426.35 | 3,396.79 | 29.56 | 115.894 | | |
| 3,400.00 | 3,309.08 | 3,314.43 | 3,290.27 | 17.44 | 14.35 | 155.36 | 2,547.70 | -1,162.64 | 3,450.31 | 3,419.90 | 30.41 | 113.451 | | |
| 3,500.00 | 3,405.72 | 3,410.31 | 3,386.12 | 17.97 | 14.75 | 155.49 | 2,547.48 | -1,165.01 | 3,474.39 | 3,443.10 | 31.28 | 111.058 | | |
| 3,600.00 | 3,502.36 | 3,513.26 | 3,489.04 | 18.50 | 15.18 | 155.64 | 2,547.17 | -1,167.43 | 3,498.37 | 3,466.17 | 32.19 | 108.665 | | |
| 3,700.00 | 3,598.99 | 3,606.20 | 3,581.95 | 19.03 | 15.57 | 155.77 | 2,546.96 | -1,169.49 | 3,522.40 | 3,489.35 | 33.05 | 106.569 | | |
| 3,800.00 | 3,695.63 | 3,752.38 | 3,728.09 | 19.57 | 16.18 | 155.97 | 2,545.35 | -1,172.74 | 3,545.57 | 3,511.38 | 34.19 | 103.702 | | |
| 3,900.00 | 3,792.27 | 3,857.75 | 3,833.41 | 20.10 | 16.62 | 156.10 | 2,543.46 | -1,174.89 | 3,568.14 | 3,533.03 | 35.12 | 101.607 | | |
| 4,000.00 | 3,888.91 | 3,955.28 | 3,930.91 | 20.63 | 17.03 | 156.23 | 2,541.63 | -1,176.85 | 3,590.64 | 3,554.64 | 36.00 | 99.726 | | |
| 4,100.00 | 3,985.54 | 4,053.33 | 4,028.92 | 21.17 | 17.45 | 156.36 | 2,539.75 | -1,178.95 | 3,613.17 | 3,576.27 | 36.90 | 97.928 | | |
| 4,200.00 | 4,082.18 | 4,152.81 | 4,128.35 | 21.70 | 17.87 | 156.48 | 2,537.78 | -1,181.10 | 3,635.65 | 3,597.85 | 37.80 | 96.192 | | |
| 4,300.00 | 4,178.82 | 4,252.43 | 4,227.93 | 22.24 | 18.29 | 156.60 | 2,535.76 | -1,183.20 | 3,658.09 | 3,619.39 | 38.70 | 94.533 | | |
| 4,400.00 | 4,275.46 | 4,350.07 | 4,325.54 | 22.77 | 18.70 | 156.72 | 2,533.73 | -1,185.21 | 3,680.48 | 3,640.89 | 39.59 | 92.971 | | |
| 4,500.00 | 4,372.09 | 4,447.41 | 4,422.83 | 23.31 | 19.11 | 156.84 | 2,531.73 | -1,187.23 | 3,702.91 | 3,662.44 | 40.48 | 91.481 | | |
| 4,600.00 | 4,468.73 | 4,546.71 | 4,522.09 | 23.84 | 19.53 | 156.95 | 2,529.60 | -1,189.42 | 3,725.31 | 3,683.94 | 41.38 | 90.030 | | |
| 4,700.00 | 4,565.37 | 4,643.50 | 4,618.83 | 24.38 | 19.94 | 157.06 | 2,527.48 | -1,191.56 | 3,747.69 | 3,705.43 | 42.27 | 88.668 | | |
| 4,800.00 | 4,662.01 | 4,749.31 | 4,724.58 | 24.91 | 20.39 | 157.18 | 2,525.16 | -1,193.90 | 3,770.08 | 3,726.88 | 43.20 | 87.264 | | |
| 4,900.00 | 4,758.64 | 4,859.83 | 4,835.04 | 25.45 | 20.85 | 157.31 | 2,522.28 | -1,196.18 | 3,792.05 | 3,747.88 | 44.17 | 85.859 | | |
| 5,000.00 | 4,855.28 | 4,954.31 | 4,929.48 | 25.99 | 21.25 | 157.41 | 2,519.72 | -1,198.07 | 3,813.93 | 3,768.88 | 45.04 | 84.672 | | |
| 5,100.00 | 4,951.92 | 5,045.18 | 5,020.29 | 26.53 | 21.64 | 157.52 | 2,517.44 | -1,199.85 | 3,835.98 | 3,790.07 | 45.90 | 83.570 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BLACKGOLD 3(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,135.35 | 5,110.42 | 27.06 | 22.02 | 157.62 | 2,515.35 | -1,201.49 | 3,858.19 | 3,811.44 | 46.76 | 82.519 | | |
| 5,300.00 | 5,145.19 | 5,223.52 | 5,198.56 | 27.60 | 22.40 | 157.72 | 2,513.51 | -1,203.10 | 3,880.64 | 3,833.04 | 47.60 | 81.530 | | |
| 5,400.00 | 5,241.83 | 5,312.55 | 5,287.56 | 28.14 | 22.77 | 157.82 | 2,511.87 | -1,204.66 | 3,903.30 | 3,854.86 | 48.44 | 80.573 | | |
| 5,500.00 | 5,338.47 | 5,396.94 | 5,371.94 | 28.67 | 23.13 | 157.92 | 2,510.65 | -1,205.80 | 3,926.25 | 3,876.98 | 49.26 | 79.698 | | |
| 5,600.00 | 5,435.11 | 5,493.71 | 5,468.69 | 29.21 | 23.54 | 158.04 | 2,509.50 | -1,206.85 | 3,949.37 | 3,899.22 | 50.15 | 78.747 | | |
| 5,700.00 | 5,531.74 | 5,582.15 | 5,557.12 | 29.75 | 23.92 | 158.15 | 2,508.50 | -1,207.91 | 3,972.60 | 3,921.61 | 50.99 | 77.903 | | |
| 5,800.00 | 5,628.38 | 5,662.63 | 5,637.59 | 30.29 | 24.26 | 158.24 | 2,507.85 | -1,208.88 | 3,996.15 | 3,944.36 | 51.79 | 77.161 | | |
| 5,900.00 | 5,725.02 | 5,777.86 | 5,752.82 | 30.83 | 24.75 | 158.39 | 2,507.34 | -1,209.49 | 4,019.91 | 3,967.13 | 52.78 | 76.160 | | |
| 6,000.00 | 5,821.66 | 5,883.98 | 5,858.93 | 31.37 | 25.20 | 158.54 | 2,506.44 | -1,209.25 | 4,043.07 | 3,989.35 | 53.72 | 75.256 | | |
| 6,100.00 | 5,918.29 | 5,987.00 | 5,961.95 | 31.90 | 25.63 | 158.68 | 2,505.51 | -1,208.78 | 4,066.15 | 4,011.51 | 54.65 | 74.406 | | |
| 6,200.00 | 6,014.93 | 6,159.90 | 6,134.78 | 32.44 | 26.37 | 158.95 | 2,502.37 | -1,205.64 | 4,087.88 | 4,031.92 | 55.96 | 73.050 | | |
| 6,300.00 | 6,111.57 | 6,340.39 | 6,315.09 | 32.98 | 27.14 | 159.24 | 2,496.42 | -1,200.25 | 4,108.11 | 4,050.81 | 57.30 | 71.700 | | |
| 6,400.00 | 6,208.21 | 6,400.00 | 6,374.62 | 33.52 | 27.39 | 159.33 | 2,493.80 | -1,198.61 | 4,127.58 | 4,069.59 | 57.99 | 71.174 | | |
| 6,500.00 | 6,304.84 | 6,468.17 | 6,442.73 | 34.06 | 27.68 | 159.42 | 2,491.19 | -1,197.43 | 4,147.83 | 4,089.10 | 58.73 | 70.625 | | |
| 6,600.00 | 6,401.37 | 6,520.12 | 6,494.66 | 34.60 | 27.90 | 141.84 | 2,489.82 | -1,197.06 | 4,168.76 | 4,109.38 | 59.37 | 70.211 | | |
| 6,700.00 | 6,496.25 | 6,576.92 | 6,551.45 | 35.12 | 28.15 | 117.95 | 2,488.82 | -1,196.92 | 4,186.93 | 4,126.89 | 60.04 | 69.741 | | |
| 6,800.00 | 6,587.15 | 6,646.62 | 6,621.14 | 35.59 | 28.44 | 104.66 | 2,488.11 | -1,196.98 | 4,201.50 | 4,140.75 | 60.75 | 69.161 | | |
| 6,900.00 | 6,671.83 | 6,721.27 | 6,695.80 | 36.03 | 28.76 | 97.25 | 2,487.51 | -1,197.24 | 4,211.97 | 4,150.49 | 61.48 | 68.513 | | |
| 7,000.00 | 6,748.21 | 6,786.79 | 6,761.31 | 36.41 | 29.04 | 92.97 | 2,487.12 | -1,197.67 | 4,218.47 | 4,156.31 | 62.16 | 67.864 | | |
| 7,100.00 | 6,814.41 | 6,833.45 | 6,807.97 | 36.76 | 29.24 | 90.45 | 2,486.97 | -1,198.12 | 4,221.38 | 4,158.60 | 62.78 | 67.238 | | |
| 7,200.00 | 6,868.79 | 6,869.49 | 6,844.01 | 37.07 | 29.39 | 89.08 | 2,487.02 | -1,198.57 | 4,221.14 | 4,157.70 | 63.44 | 66.537 | | |
| 7,300.00 | 6,910.01 | 6,900.00 | 6,874.51 | 37.39 | 29.52 | 88.57 | 2,487.19 | -1,199.01 | 4,218.08 | 4,153.86 | 64.21 | 65.687 | | |
| 7,400.00 | 6,937.07 | 6,926.10 | 6,900.61 | 37.76 | 29.63 | 88.71 | 2,487.37 | -1,199.41 | 4,212.49 | 4,147.34 | 65.15 | 64.661 | | |
| 7,500.00 | 6,949.29 | 6,940.78 | 6,915.29 | 38.27 | 29.69 | 89.30 | 2,487.47 | -1,199.63 | 4,204.71 | 4,138.51 | 66.20 | 63.517 | | |
| 7,600.00 | 6,949.75 | 6,942.82 | 6,917.33 | 39.02 | 29.70 | 89.57 | 2,487.48 | -1,199.66 | 4,195.98 | 4,128.64 | 67.34 | 62.310 | | |
| 7,700.00 | 6,949.37 | 6,943.95 | 6,918.46 | 40.05 | 29.71 | 89.59 | 2,487.49 | -1,199.67 | 4,189.40 | 4,120.76 | 68.64 | 61.033 | | |
| 7,800.00 | 6,948.99 | 6,945.08 | 6,919.59 | 41.35 | 29.71 | 89.60 | 2,487.49 | -1,199.69 | 4,185.19 | 4,115.10 | 70.09 | 59.715 | | |
| 7,900.00 | 6,948.61 | 6,946.20 | 6,920.71 | 42.86 | 29.72 | 89.62 | 2,487.50 | -1,199.70 | 4,183.37 | 4,111.71 | 71.66 | 58.380 | | |
| 7,926.15 | 6,948.51 | 6,946.49 | 6,921.00 | 43.29 | 29.72 | 89.62 | 2,487.50 | -1,199.71 | 4,183.29 | 4,111.19 | 72.10 | 58.022 | | |
| 8,000.00 | 6,948.23 | 6,947.31 | 6,921.82 | 44.53 | 29.72 | 89.63 | 2,487.51 | -1,199.72 | 4,183.94 | 4,110.61 | 73.34 | 57.051 | | |
| 8,100.00 | 6,947.85 | 6,948.42 | 6,922.92 | 46.34 | 29.73 | 89.65 | 2,487.51 | -1,199.74 | 4,186.90 | 4,111.80 | 75.11 | 55.747 | | |
| 8,200.00 | 6,947.47 | 6,949.52 | 6,924.02 | 48.26 | 29.73 | 89.66 | 2,487.52 | -1,199.75 | 4,192.24 | 4,115.30 | 76.95 | 54.482 | | |
| 8,300.00 | 6,947.09 | 6,950.61 | 6,925.12 | 50.28 | 29.74 | 89.68 | 2,487.53 | -1,199.77 | 4,199.96 | 4,121.11 | 78.85 | 53.266 | | |
| 8,400.00 | 6,946.72 | 6,951.70 | 6,926.21 | 52.39 | 29.74 | 89.69 | 2,487.54 | -1,199.78 | 4,210.04 | 4,129.24 | 80.80 | 52.107 | | |
| 8,500.00 | 6,946.34 | 6,952.78 | 6,927.29 | 54.56 | 29.74 | 89.71 | 2,487.54 | -1,199.80 | 4,222.46 | 4,139.69 | 82.77 | 51.012 | | |
| 8,600.00 | 6,945.96 | 6,953.86 | 6,928.36 | 56.80 | 29.75 | 89.72 | 2,487.55 | -1,199.81 | 4,237.21 | 4,152.44 | 84.77 | 49.983 | | |
| 8,700.00 | 6,945.58 | 6,954.93 | 6,929.43 | 59.10 | 29.75 | 89.74 | 2,487.56 | -1,199.83 | 4,254.26 | 4,167.47 | 86.78 | 49.022 | | |
| 8,800.00 | 6,945.20 | 6,955.99 | 6,930.50 | 61.44 | 29.76 | 89.75 | 2,487.56 | -1,199.84 | 4,273.58 | 4,184.78 | 88.79 | 48.129 | | |
| 8,900.00 | 6,944.82 | 6,957.05 | 6,931.56 | 63.83 | 29.76 | 89.77 | 2,487.57 | -1,199.86 | 4,295.14 | 4,204.34 | 90.80 | 47.304 | | |
| 9,000.00 | 6,944.44 | 6,958.10 | 6,932.61 | 66.25 | 29.77 | 89.78 | 2,487.58 | -1,199.87 | 4,318.91 | 4,226.12 | 92.79 | 46.546 | | |
| 9,100.00 | 6,944.06 | 6,959.15 | 6,933.66 | 68.71 | 29.77 | 89.80 | 2,487.58 | -1,199.89 | 4,344.85 | 4,250.09 | 94.76 | 45.852 | | |
| 9,200.00 | 6,943.68 | 6,960.19 | 6,934.70 | 71.20 | 29.78 | 89.81 | 2,487.59 | -1,199.90 | 4,372.92 | 4,276.22 | 96.70 | 45.220 | | |
| 9,300.00 | 6,943.30 | 6,961.23 | 6,935.73 | 73.72 | 29.78 | 89.82 | 2,487.60 | -1,199.92 | 4,403.09 | 4,304.47 | 98.62 | 44.648 | | |
| 9,400.00 | 6,942.92 | 6,962.26 | 6,936.76 | 76.26 | 29.78 | 89.84 | 2,487.60 | -1,199.93 | 4,435.30 | 4,334.80 | 100.50 | 44.133 | | |
| 9,500.00 | 6,942.54 | 6,963.28 | 6,937.79 | 78.82 | 29.79 | 89.85 | 2,487.61 | -1,199.95 | 4,469.52 | 4,367.18 | 102.34 | 43.673 | | |
| 9,600.00 | 6,942.16 | 6,964.30 | 6,938.81 | 81.40 | 29.79 | 89.87 | 2,487.62 | -1,199.96 | 4,505.71 | 4,401.56 | 104.14 | 43.265 | | |
| 9,700.00 | 6,941.78 | 6,965.32 | 6,939.82 | 84.00 | 29.80 | 89.88 | 2,487.62 | -1,199.97 | 4,543.80 | 4,437.90 | 105.90 | 42.906 | | |
| 9,800.00 | 6,941.40 | 6,966.32 | 6,940.83 | 86.62 | 29.80 | 89.89 | 2,487.63 | -1,199.99 | 4,583.76 | 4,476.14 | 107.62 | 42.594 | | |
| 9,900.00 | 6,941.03 | 6,967.33 | 6,941.83 | 89.25 | 29.81 | 89.91 | 2,487.63 | -1,200.00 | 4,625.53 | 4,516.25 | 109.28 | 42.326 | | |
| 10,000.00 | 6,940.65 | 6,968.33 | 6,942.83 | 91.90 | 29.81 | 89.92 | 2,487.64 | -1,200.02 | 4,669.08 | 4,558.17 | 110.90 | 42.100 | | |
| 10,100.00 | 6,940.27 | 6,969.32 | 6,943.82 | 94.56 | 29.81 | 89.94 | 2,487.65 | -1,200.03 | 4,714.34 | 4,601.86 | 112.48 | 41.914 | | |
| 10,200.00 | 6,939.89 | 6,970.31 | 6,944.81 | 97.23 | 29.82 | 89.95 | 2,487.65 | -1,200.04 | 4,761.28 | 4,647.27 | 114.00 | 41.765 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BLACKGOLD 3(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,971.29 | 6,945.79 | 99.91 | 29.82 | 89.96 | 2,487.66 | -1,200.06 | 4,809.83 | 4,694.35 | 115.48 | 41.652 | | |
| 10,400.00 | 6,939.13 | 6,972.27 | 6,946.77 | 102.60 | 29.83 | 89.98 | 2,487.67 | -1,200.07 | 4,859.96 | 4,743.05 | 116.91 | 41.572 | | |
| 10,500.00 | 6,938.75 | 6,973.24 | 6,947.74 | 105.30 | 29.83 | 89.99 | 2,487.67 | -1,200.08 | 4,911.61 | 4,793.32 | 118.28 | 41.524 | | |
| 10,600.00 | 6,938.37 | 6,974.21 | 6,948.71 | 108.00 | 29.83 | 90.00 | 2,487.68 | -1,200.10 | 4,964.74 | 4,845.12 | 119.62 | 41.505 SF | | |
| 10,700.00 | 6,937.99 | 6,975.17 | 6,949.67 | 110.72 | 29.84 | 90.02 | 2,487.68 | -1,200.11 | 5,019.30 | 4,898.39 | 120.90 | 41.516 | | |
| 10,800.00 | 6,937.61 | 6,976.12 | 6,950.63 | 113.44 | 29.84 | 90.03 | 2,487.69 | -1,200.12 | 5,075.24 | 4,953.10 | 122.14 | 41.552 | | |
| 10,900.00 | 6,937.23 | 6,977.08 | 6,951.58 | 116.17 | 29.85 | 90.04 | 2,487.69 | -1,200.13 | 5,132.52 | 5,009.18 | 123.33 | 41.615 | | |
| 11,000.00 | 6,936.85 | 6,978.02 | 6,952.53 | 118.90 | 29.85 | 90.06 | 2,487.70 | -1,200.15 | 5,191.09 | 5,066.61 | 124.48 | 41.701 | | |
| 11,100.00 | 6,936.47 | 6,978.97 | 6,953.47 | 121.64 | 29.86 | 90.07 | 2,487.71 | -1,200.16 | 5,250.92 | 5,125.33 | 125.59 | 41.810 | | |
| 11,200.00 | 6,936.09 | 6,979.90 | 6,954.41 | 124.39 | 29.86 | 90.08 | 2,487.71 | -1,200.17 | 5,311.96 | 5,185.30 | 126.66 | 41.940 | | |
| 11,300.00 | 6,935.71 | 6,980.84 | 6,955.34 | 127.14 | 29.86 | 90.09 | 2,487.72 | -1,200.19 | 5,374.16 | 5,246.48 | 127.68 | 42.091 | | |
| 11,400.00 | 6,935.34 | 6,981.77 | 6,956.27 | 129.90 | 29.87 | 90.11 | 2,487.72 | -1,200.20 | 5,437.49 | 5,308.82 | 128.66 | 42.261 | | |
| 11,500.00 | 6,934.96 | 6,982.69 | 6,957.19 | 132.66 | 29.87 | 90.12 | 2,487.73 | -1,200.21 | 5,501.91 | 5,372.30 | 129.61 | 42.449 | | |
| 11,600.00 | 6,934.58 | 6,983.61 | 6,958.11 | 135.42 | 29.87 | 90.13 | 2,487.73 | -1,200.22 | 5,567.38 | 5,436.86 | 130.52 | 42.655 | | |
| 11,700.00 | 6,934.20 | 6,984.52 | 6,959.03 | 138.19 | 29.88 | 90.14 | 2,487.74 | -1,200.23 | 5,633.86 | 5,502.46 | 131.39 | 42.878 | | |
| 11,800.00 | 6,933.82 | 6,985.43 | 6,959.94 | 140.96 | 29.88 | 90.16 | 2,487.74 | -1,200.25 | 5,701.32 | 5,569.09 | 132.23 | 43.116 | | |
| 11,900.00 | 6,933.44 | 6,986.34 | 6,960.84 | 143.74 | 29.89 | 90.17 | 2,487.75 | -1,200.26 | 5,769.73 | 5,636.69 | 133.04 | 43.369 | | |
| 12,000.00 | 6,933.06 | 6,987.24 | 6,961.74 | 146.51 | 29.89 | 90.18 | 2,487.76 | -1,200.27 | 5,839.04 | 5,705.23 | 133.81 | 43.636 | | |
| 12,100.00 | 6,932.68 | 6,988.13 | 6,962.64 | 149.30 | 29.89 | 90.19 | 2,487.76 | -1,200.28 | 5,909.24 | 5,774.68 | 134.56 | 43.916 | | |
| 12,200.00 | 6,932.30 | 6,989.02 | 6,963.53 | 152.08 | 29.90 | 90.21 | 2,487.77 | -1,200.29 | 5,980.29 | 5,845.01 | 135.27 | 44.210 | | |
| 12,300.00 | 6,931.92 | 6,989.91 | 6,964.41 | 154.87 | 29.90 | 90.22 | 2,487.77 | -1,200.31 | 6,052.15 | 5,916.19 | 135.96 | 44.515 | | |
| 12,400.00 | 6,931.54 | 6,990.79 | 6,965.30 | 157.66 | 29.91 | 90.23 | 2,487.78 | -1,200.32 | 6,124.80 | 5,988.19 | 136.61 | 44.833 | | |
| 12,500.00 | 6,931.16 | 6,991.67 | 6,966.18 | 160.45 | 29.91 | 90.24 | 2,487.78 | -1,200.33 | 6,198.21 | 6,060.97 | 137.25 | 45.161 | | |
| 12,600.00 | 6,930.78 | 6,992.55 | 6,967.05 | 163.24 | 29.91 | 90.25 | 2,487.79 | -1,200.34 | 6,272.36 | 6,134.51 | 137.85 | 45.500 | | |
| 12,700.00 | 6,930.40 | 6,993.42 | 6,967.92 | 166.04 | 29.92 | 90.27 | 2,487.79 | -1,200.35 | 6,347.22 | 6,208.78 | 138.44 | 45.849 | | |
| 12,800.00 | 6,930.03 | 6,994.28 | 6,968.78 | 168.84 | 29.92 | 90.28 | 2,487.80 | -1,200.36 | 6,422.76 | 6,283.77 | 139.00 | 46.208 | | |
| 12,900.00 | 6,929.65 | 6,995.14 | 6,969.65 | 171.64 | 29.92 | 90.29 | 2,487.80 | -1,200.37 | 6,498.97 | 6,359.43 | 139.54 | 46.576 | | |
| 13,000.00 | 6,929.27 | 6,996.00 | 6,970.50 | 174.44 | 29.93 | 90.30 | 2,487.81 | -1,200.39 | 6,575.81 | 6,435.75 | 140.05 | 46.952 | | |
| 13,100.00 | 6,928.89 | 6,996.85 | 6,971.35 | 177.24 | 29.93 | 90.31 | 2,487.81 | -1,200.40 | 6,653.26 | 6,512.71 | 140.55 | 47.337 | | |
| 13,200.00 | 6,928.51 | 6,997.70 | 6,972.20 | 180.05 | 29.93 | 90.32 | 2,487.82 | -1,200.41 | 6,731.31 | 6,590.29 | 141.03 | 47.731 | | |
| 13,300.00 | 6,928.13 | 6,998.55 | 6,973.05 | 182.86 | 29.94 | 90.34 | 2,487.82 | -1,200.42 | 6,809.94 | 6,668.45 | 141.49 | 48.131 | | |
| 13,400.00 | 6,927.75 | 6,999.39 | 6,973.89 | 185.67 | 29.94 | 90.35 | 2,487.83 | -1,200.43 | 6,889.12 | 6,747.19 | 141.93 | 48.540 | | |
| 13,500.00 | 6,927.37 | 7,000.23 | 6,974.73 | 188.48 | 29.95 | 90.36 | 2,487.83 | -1,200.44 | 6,968.83 | 6,826.48 | 142.35 | 48.955 | | |
| 13,600.00 | 6,926.99 | 7,001.08 | 6,975.58 | 191.29 | 29.95 | 90.37 | 2,487.84 | -1,200.45 | 7,049.06 | 6,906.30 | 142.76 | 49.377 | | |
| 13,700.00 | 6,926.61 | 7,001.93 | 6,976.44 | 194.10 | 29.95 | 90.38 | 2,487.84 | -1,200.46 | 7,129.79 | 6,986.64 | 143.15 | 49.805 | | |
| 13,800.00 | 6,926.23 | 7,002.79 | 6,977.29 | 196.92 | 29.96 | 90.39 | 2,487.85 | -1,200.47 | 7,211.00 | 7,067.47 | 143.53 | 50.240 | | |
| 13,900.00 | 6,925.85 | 7,003.64 | 6,978.14 | 199.73 | 29.96 | 90.41 | 2,487.85 | -1,200.48 | 7,292.68 | 7,148.79 | 143.90 | 50.680 | | |
| 14,000.00 | 6,925.47 | 7,004.49 | 6,978.99 | 202.55 | 29.96 | 90.42 | 2,487.86 | -1,200.50 | 7,374.82 | 7,230.57 | 144.25 | 51.127 | | |
| 14,100.00 | 6,925.09 | 7,005.35 | 6,979.85 | 205.37 | 29.97 | 90.43 | 2,487.86 | -1,200.51 | 7,457.38 | 7,312.80 | 144.58 | 51.578 | | |
| 14,200.00 | 6,924.71 | 7,006.20 | 6,980.70 | 208.19 | 29.97 | 90.44 | 2,487.87 | -1,200.52 | 7,540.37 | 7,395.46 | 144.91 | 52.035 | | |
| 14,300.00 | 6,924.34 | 7,007.05 | 6,981.55 | 211.01 | 29.97 | 90.45 | 2,487.87 | -1,200.53 | 7,623.77 | 7,478.55 | 145.22 | 52.497 | | |
| 14,400.00 | 6,923.96 | 7,007.90 | 6,982.40 | 213.83 | 29.98 | 90.46 | 2,487.88 | -1,200.54 | 7,707.56 | 7,562.04 | 145.53 | 52.964 | | |
| 14,500.00 | 6,923.58 | 7,008.75 | 6,983.25 | 216.65 | 29.98 | 90.48 | 2,487.88 | -1,200.55 | 7,791.74 | 7,645.92 | 145.82 | 53.435 | | |
| 14,600.00 | 6,923.20 | 7,009.60 | 6,984.10 | 219.48 | 29.98 | 90.49 | 2,487.89 | -1,200.56 | 7,876.28 | 7,730.18 | 146.10 | 53.911 | | |
| 14,700.00 | 6,922.82 | 7,010.45 | 6,984.95 | 222.30 | 29.99 | 90.50 | 2,487.89 | -1,200.57 | 7,961.18 | 7,814.82 | 146.37 | 54.391 | | |
| 14,800.00 | 6,922.44 | 7,011.30 | 6,985.80 | 225.13 | 29.99 | 90.51 | 2,487.90 | -1,200.58 | 8,046.43 | 7,899.80 | 146.63 | 54.875 | | |
| 14,900.00 | 6,922.06 | 7,012.15 | 6,986.65 | 227.95 | 30.00 | 90.52 | 2,487.90 | -1,200.59 | 8,132.02 | 7,985.14 | 146.88 | 55.363 | | |
| 14,915.55 | 6,922.00 | 7,012.28 | 6,986.78 | 228.39 | 30.00 | 90.52 | 2,487.90 | -1,200.60 | 8,145.36 | 7,998.44 | 146.92 | 55.440 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURBACH 15-22(SI_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 20.00 | 3.28 | 3.28 | -62.12 | 1,145.11 | -2,164.67 | 2,448.97 | | | | | |
| 100.00 | 100.00 | 80.00 | 100.00 | 3.28 | 3.56 | -62.12 | 1,145.11 | -2,164.67 | 2,448.89 | 2,442.04 | 6.85 | 357.524 | | |
| 200.00 | 200.00 | 180.00 | 200.00 | 3.34 | 5.60 | -62.12 | 1,145.11 | -2,164.67 | 2,448.89 | 2,439.95 | 8.94 | 274.031 | CC | |
| 300.00 | 299.98 | 279.98 | 299.98 | 3.44 | 8.67 | 112.52 | 1,145.11 | -2,164.67 | 2,449.56 | 2,437.45 | 12.11 | 202.239 | | |
| 400.00 | 399.84 | 379.84 | 399.84 | 3.59 | 11.97 | 112.60 | 1,145.11 | -2,164.67 | 2,451.57 | 2,436.01 | 15.56 | 157.539 | | |
| 500.00 | 499.45 | 479.45 | 499.45 | 3.79 | 15.35 | 112.72 | 1,145.11 | -2,164.67 | 2,454.94 | 2,435.80 | 19.13 | 128.303 | ES | |
| 600.00 | 598.70 | 578.70 | 598.70 | 4.03 | 18.75 | 112.90 | 1,145.11 | -2,164.67 | 2,459.69 | 2,436.92 | 22.78 | 107.994 | | |
| 700.00 | 697.47 | 677.47 | 697.47 | 4.31 | 22.15 | 113.11 | 1,145.11 | -2,164.67 | 2,465.87 | 2,439.41 | 26.46 | 93.182 | | |
| 800.00 | 795.62 | 775.62 | 795.62 | 4.64 | 25.54 | 113.37 | 1,145.11 | -2,164.67 | 2,473.52 | 2,443.34 | 30.18 | 81.963 | | |
| 900.00 | 893.06 | 873.06 | 893.06 | 5.00 | 28.92 | 113.67 | 1,145.11 | -2,164.67 | 2,482.70 | 2,448.78 | 33.91 | 73.210 | | |
| 1,000.00 | 989.78 | 969.78 | 989.78 | 5.39 | 32.28 | 114.10 | 1,145.11 | -2,164.67 | 2,493.25 | 2,455.59 | 37.66 | 66.211 | | |
| 1,100.00 | 1,086.42 | 1,066.42 | 1,086.42 | 5.81 | 35.63 | 114.63 | 1,145.11 | -2,164.67 | 2,504.16 | 2,462.74 | 41.42 | 60.453 | | |
| 1,200.00 | 1,183.06 | 1,163.06 | 1,183.06 | 6.25 | 39.00 | 115.14 | 1,145.11 | -2,164.67 | 2,515.29 | 2,470.08 | 45.21 | 55.635 | | |
| 1,300.00 | 1,279.69 | 1,259.69 | 1,279.69 | 6.71 | 42.36 | 115.66 | 1,145.11 | -2,164.67 | 2,526.63 | 2,477.62 | 49.01 | 51.549 | | |
| 1,400.00 | 1,376.33 | 1,356.33 | 1,376.33 | 7.17 | 45.72 | 116.17 | 1,145.11 | -2,164.67 | 2,538.18 | 2,485.35 | 52.83 | 48.044 | | |
| 1,500.00 | 1,472.97 | 1,452.97 | 1,472.97 | 7.65 | 49.09 | 116.67 | 1,145.11 | -2,164.67 | 2,549.94 | 2,493.28 | 56.66 | 45.007 | | |
| 1,600.00 | 1,569.61 | 1,549.61 | 1,569.61 | 8.13 | 52.45 | 117.17 | 1,145.11 | -2,164.67 | 2,561.90 | 2,501.41 | 60.49 | 42.352 | | |
| 1,700.00 | 1,666.24 | 1,646.24 | 1,666.24 | 8.62 | 55.82 | 117.67 | 1,145.11 | -2,164.67 | 2,574.06 | 2,509.73 | 64.33 | 40.012 | | |
| 1,800.00 | 1,762.88 | 1,742.88 | 1,762.88 | 9.12 | 59.19 | 118.16 | 1,145.11 | -2,164.67 | 2,586.42 | 2,518.24 | 68.18 | 37.936 | | |
| 1,900.00 | 1,859.52 | 1,839.52 | 1,859.52 | 9.62 | 62.56 | 118.65 | 1,145.11 | -2,164.67 | 2,598.98 | 2,526.95 | 72.03 | 36.082 | | |
| 2,000.00 | 1,956.16 | 1,936.16 | 1,956.16 | 10.13 | 65.93 | 119.13 | 1,145.11 | -2,164.67 | 2,611.73 | 2,535.84 | 75.88 | 34.417 | | |
| 2,100.00 | 2,052.79 | 2,032.79 | 2,052.79 | 10.64 | 69.30 | 119.61 | 1,145.11 | -2,164.67 | 2,624.67 | 2,544.93 | 79.74 | 32.914 | | |
| 2,200.00 | 2,149.43 | 2,129.43 | 2,149.43 | 11.15 | 72.67 | 120.08 | 1,145.11 | -2,164.67 | 2,637.79 | 2,554.19 | 83.60 | 31.551 | | |
| 2,300.00 | 2,246.07 | 2,226.07 | 2,246.07 | 11.66 | 76.04 | 120.55 | 1,145.11 | -2,164.67 | 2,651.11 | 2,563.64 | 87.47 | 30.310 | | |
| 2,400.00 | 2,342.71 | 2,322.71 | 2,342.71 | 12.18 | 79.41 | 121.01 | 1,145.11 | -2,164.67 | 2,664.60 | 2,573.27 | 91.33 | 29.176 | | |
| 2,500.00 | 2,439.34 | 2,419.34 | 2,439.34 | 12.70 | 82.78 | 121.47 | 1,145.11 | -2,164.67 | 2,678.27 | 2,583.08 | 95.20 | 28.135 | | |
| 2,600.00 | 2,535.98 | 2,515.98 | 2,535.98 | 13.22 | 86.15 | 121.93 | 1,145.11 | -2,164.67 | 2,692.12 | 2,593.06 | 99.06 | 27.176 | | |
| 2,700.00 | 2,632.62 | 2,612.62 | 2,632.62 | 13.75 | 89.52 | 122.38 | 1,145.11 | -2,164.67 | 2,706.14 | 2,603.21 | 102.93 | 26.291 | | |
| 2,800.00 | 2,729.26 | 2,709.26 | 2,729.26 | 14.27 | 92.89 | 122.83 | 1,145.11 | -2,164.67 | 2,720.33 | 2,613.54 | 106.80 | 25.472 | | |
| 2,900.00 | 2,825.89 | 2,805.89 | 2,825.89 | 14.80 | 96.26 | 123.27 | 1,145.11 | -2,164.67 | 2,734.69 | 2,624.03 | 110.67 | 24.711 | | |
| 3,000.00 | 2,922.53 | 2,902.53 | 2,922.53 | 15.32 | 99.64 | 123.71 | 1,145.11 | -2,164.67 | 2,749.22 | 2,634.68 | 114.53 | 24.003 | | |
| 3,100.00 | 3,019.17 | 3,000.83 | 3,019.17 | 15.85 | 103.07 | 124.14 | 1,145.11 | -2,164.67 | 2,763.91 | 2,645.44 | 118.46 | 23.332 | | |
| 3,200.00 | 3,115.81 | 3,104.19 | 3,115.81 | 16.38 | 106.67 | 124.57 | 1,145.11 | -2,164.67 | 2,778.76 | 2,656.19 | 122.57 | 22.671 | | |
| 3,300.00 | 3,212.44 | 3,207.56 | 3,212.44 | 16.91 | 110.28 | 124.99 | 1,145.11 | -2,164.67 | 2,793.76 | 2,667.09 | 126.67 | 22.055 | | |
| 3,400.00 | 3,309.08 | 3,289.08 | 3,309.08 | 17.44 | 113.12 | 125.41 | 1,145.11 | -2,164.67 | 2,808.92 | 2,678.91 | 130.01 | 21.605 | | |
| 3,500.00 | 3,405.72 | 3,385.72 | 3,405.72 | 17.97 | 116.50 | 125.83 | 1,145.11 | -2,164.67 | 2,824.24 | 2,690.36 | 133.88 | 21.095 | | |
| 3,600.00 | 3,502.36 | 3,482.36 | 3,502.36 | 18.50 | 119.87 | 126.24 | 1,145.11 | -2,164.67 | 2,839.70 | 2,701.95 | 137.75 | 20.615 | | |
| 3,700.00 | 3,598.99 | 3,578.99 | 3,598.99 | 19.03 | 123.24 | 126.65 | 1,145.11 | -2,164.67 | 2,855.32 | 2,713.70 | 141.62 | 20.162 | | |
| 3,800.00 | 3,695.63 | 3,675.63 | 3,695.63 | 19.57 | 126.61 | 127.05 | 1,145.11 | -2,164.67 | 2,871.08 | 2,725.59 | 145.49 | 19.734 | | |
| 3,900.00 | 3,792.27 | 3,772.27 | 3,792.27 | 20.10 | 129.99 | 127.45 | 1,145.11 | -2,164.67 | 2,886.98 | 2,737.62 | 149.36 | 19.329 | | |
| 4,000.00 | 3,888.91 | 3,868.91 | 3,888.91 | 20.63 | 133.36 | 127.84 | 1,145.11 | -2,164.67 | 2,903.02 | 2,749.79 | 153.23 | 18.946 | | |
| 4,100.00 | 3,985.54 | 3,965.54 | 3,985.54 | 21.17 | 136.73 | 128.23 | 1,145.11 | -2,164.67 | 2,919.20 | 2,762.10 | 157.10 | 18.582 | | |
| 4,200.00 | 4,082.18 | 4,062.18 | 4,082.18 | 21.70 | 140.10 | 128.62 | 1,145.11 | -2,164.67 | 2,935.51 | 2,774.55 | 160.96 | 18.237 | | |
| 4,300.00 | 4,178.82 | 4,158.82 | 4,178.82 | 22.24 | 143.48 | 129.00 | 1,145.11 | -2,164.67 | 2,951.96 | 2,787.13 | 164.83 | 17.909 | | |
| 4,400.00 | 4,275.46 | 4,255.46 | 4,275.46 | 22.77 | 146.85 | 129.38 | 1,145.11 | -2,164.67 | 2,968.55 | 2,799.85 | 168.70 | 17.597 | | |
| 4,500.00 | 4,372.09 | 4,352.09 | 4,372.09 | 23.31 | 150.22 | 129.75 | 1,145.11 | -2,164.67 | 2,985.26 | 2,812.69 | 172.57 | 17.299 | | |
| 4,600.00 | 4,468.73 | 4,448.73 | 4,468.73 | 23.84 | 153.60 | 130.12 | 1,145.11 | -2,164.67 | 3,002.10 | 2,825.66 | 176.43 | 17.016 | | |
| 4,700.00 | 4,565.37 | 4,545.37 | 4,565.37 | 24.38 | 156.97 | 130.49 | 1,145.11 | -2,164.67 | 3,019.06 | 2,838.76 | 180.30 | 16.745 | | |
| 4,800.00 | 4,662.01 | 4,642.01 | 4,662.01 | 24.91 | 160.34 | 130.85 | 1,145.11 | -2,164.67 | 3,036.15 | 2,851.98 | 184.16 | 16.486 | | |
| 4,900.00 | 4,758.64 | 4,738.64 | 4,758.64 | 25.45 | 163.71 | 131.21 | 1,145.11 | -2,164.67 | 3,053.35 | 2,865.32 | 188.03 | 16.239 | | |
| 5,000.00 | 4,855.28 | 4,835.28 | 4,855.28 | 25.99 | 167.09 | 131.56 | 1,145.11 | -2,164.67 | 3,070.68 | 2,878.78 | 191.90 | 16.002 | | |
| 5,100.00 | 4,951.92 | 4,931.92 | 4,951.92 | 26.53 | 170.46 | 131.92 | 1,145.11 | -2,164.67 | 3,088.12 | 2,892.36 | 195.76 | 15.775 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURBACH 15-22(SI_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 5,200.00 | 5,048.56 | 5,028.56 | 5,048.56 | 27.06 | 173.83 | 132.26 | 1,145.11 | -2,164.67 | 3,105.68 | 2,906.06 | 199.62 | 15.558 | |
| 5,300.00 | 5,145.19 | 5,125.19 | 5,145.19 | 27.60 | 177.21 | 132.60 | 1,145.11 | -2,164.67 | 3,123.35 | 2,919.86 | 203.49 | 15.349 | |
| 5,400.00 | 5,241.83 | 5,221.83 | 5,241.83 | 28.14 | 180.58 | 132.94 | 1,145.11 | -2,164.67 | 3,141.13 | 2,933.78 | 207.35 | 15.149 | |
| 5,500.00 | 5,338.47 | 5,318.47 | 5,338.47 | 28.67 | 183.95 | 133.28 | 1,145.11 | -2,164.67 | 3,159.02 | 2,947.81 | 211.21 | 14.956 | |
| 5,600.00 | 5,435.11 | 5,415.11 | 5,435.11 | 29.21 | 187.32 | 133.61 | 1,145.11 | -2,164.67 | 3,177.02 | 2,961.95 | 215.08 | 14.772 | |
| 5,700.00 | 5,531.74 | 5,511.74 | 5,531.74 | 29.75 | 190.70 | 133.94 | 1,145.11 | -2,164.67 | 3,195.13 | 2,976.19 | 218.94 | 14.594 | |
| 5,800.00 | 5,628.38 | 5,608.38 | 5,628.38 | 30.29 | 194.07 | 134.26 | 1,145.11 | -2,164.67 | 3,213.34 | 2,990.53 | 222.80 | 14.422 | |
| 5,900.00 | 5,725.02 | 5,705.02 | 5,725.02 | 30.83 | 197.44 | 134.58 | 1,145.11 | -2,164.67 | 3,231.65 | 3,004.98 | 226.66 | 14.257 | |
| 6,000.00 | 5,821.66 | 5,801.66 | 5,821.66 | 31.37 | 200.82 | 134.90 | 1,145.11 | -2,164.67 | 3,250.06 | 3,019.53 | 230.53 | 14.098 | |
| 6,100.00 | 5,918.29 | 5,901.71 | 5,918.29 | 31.90 | 204.31 | 135.22 | 1,145.11 | -2,164.67 | 3,268.57 | 3,034.06 | 234.51 | 13.938 | |
| 6,200.00 | 6,014.93 | 6,005.07 | 6,014.93 | 32.44 | 207.92 | 135.53 | 1,145.11 | -2,164.67 | 3,287.17 | 3,048.57 | 238.60 | 13.777 | |
| 6,300.00 | 6,111.57 | 6,108.43 | 6,111.57 | 32.98 | 211.53 | 135.83 | 1,145.11 | -2,164.67 | 3,305.87 | 3,063.18 | 242.70 | 13.621 | |
| 6,400.00 | 6,208.21 | 6,188.21 | 6,208.21 | 33.52 | 214.31 | 136.14 | 1,145.11 | -2,164.67 | 3,324.67 | 3,078.70 | 245.97 | 13.517 | |
| 6,500.00 | 6,304.84 | 6,284.84 | 6,304.84 | 34.06 | 217.68 | 136.44 | 1,145.11 | -2,164.67 | 3,343.55 | 3,093.73 | 249.83 | 13.383 | |
| 6,600.00 | 6,401.37 | 6,381.37 | 6,401.37 | 34.60 | 221.05 | 136.74 | 1,145.11 | -2,164.67 | 3,361.21 | 3,107.53 | 253.68 | 13.250 | |
| 6,700.00 | 6,496.25 | 6,476.25 | 6,496.25 | 35.12 | 224.36 | 137.04 | 1,145.11 | -2,164.67 | 3,379.48 | 3,113.01 | 257.47 | 13.091 | |
| 6,800.00 | 6,587.15 | 6,567.15 | 6,587.15 | 35.59 | 227.54 | 137.34 | 1,145.11 | -2,164.67 | 3,397.41 | 3,119.31 | 261.10 | 12.909 | |
| 6,900.00 | 6,671.83 | 6,651.83 | 6,671.83 | 36.03 | 230.49 | 137.64 | 1,145.11 | -2,164.67 | 3,415.39 | 3,125.92 | 264.48 | 12.710 | |
| 7,000.00 | 6,748.21 | 6,728.21 | 6,748.21 | 36.41 | 233.16 | 137.94 | 1,145.11 | -2,164.67 | 3,434.14 | 3,132.58 | 267.56 | 12.499 | |
| 7,100.00 | 6,814.41 | 6,805.59 | 6,814.41 | 36.76 | 235.86 | 138.24 | 1,145.11 | -2,164.67 | 3,452.87 | 3,139.58 | 270.70 | 12.263 | |
| 7,200.00 | 6,868.79 | 6,848.79 | 6,868.79 | 37.07 | 237.37 | 138.54 | 1,145.11 | -2,164.67 | 3,471.17 | 3,146.11 | 272.71 | 12.060 | |
| 7,300.00 | 6,910.01 | 6,909.99 | 6,910.01 | 37.39 | 239.51 | 138.84 | 1,145.11 | -2,164.67 | 3,489.48 | 3,152.61 | 275.47 | 11.809 | |
| 7,400.00 | 6,937.07 | 6,917.07 | 6,937.07 | 37.76 | 239.75 | 139.14 | 1,145.11 | -2,164.67 | 3,507.41 | 3,159.13 | 276.48 | 11.623 | |
| 7,500.00 | 6,949.29 | 6,929.29 | 6,949.29 | 38.27 | 240.18 | 139.44 | 1,145.11 | -2,164.67 | 3,525.41 | 3,165.61 | 277.81 | 11.416 | |
| 7,600.00 | 6,949.75 | 6,929.75 | 6,949.75 | 39.02 | 240.19 | 139.74 | 1,145.11 | -2,164.67 | 3,543.41 | 3,172.11 | 278.88 | 11.220 | |
| 7,700.00 | 6,949.37 | 6,929.37 | 6,949.37 | 40.05 | 240.18 | 140.04 | 1,145.11 | -2,164.67 | 3,561.41 | 3,178.61 | 280.10 | 11.028 | |
| 7,800.00 | 6,948.99 | 6,928.99 | 6,948.99 | 41.35 | 240.17 | 140.34 | 1,145.11 | -2,164.67 | 3,579.41 | 3,185.11 | 281.47 | 10.841 | |
| 7,900.00 | 6,948.61 | 6,928.61 | 6,948.61 | 42.86 | 240.16 | 140.64 | 1,145.11 | -2,164.67 | 3,597.41 | 3,191.61 | 283.00 | 10.660 | |
| 8,000.00 | 6,948.23 | 6,928.23 | 6,948.23 | 44.53 | 240.14 | 140.94 | 1,145.11 | -2,164.67 | 3,615.41 | 3,198.11 | 284.67 | 10.486 | |
| 8,100.00 | 6,947.85 | 6,927.85 | 6,947.85 | 46.34 | 240.13 | 141.24 | 1,145.11 | -2,164.67 | 3,633.41 | 3,204.61 | 286.47 | 10.321 | |
| 8,200.00 | 6,947.47 | 6,927.47 | 6,947.47 | 48.26 | 240.12 | 141.54 | 1,145.11 | -2,164.67 | 3,651.41 | 3,211.11 | 288.38 | 10.164 | |
| 8,300.00 | 6,947.09 | 6,927.09 | 6,947.09 | 50.28 | 240.10 | 141.84 | 1,145.11 | -2,164.67 | 3,669.41 | 3,217.61 | 290.38 | 10.018 | |
| 8,400.00 | 6,946.72 | 6,926.72 | 6,946.72 | 52.39 | 240.09 | 142.14 | 1,145.11 | -2,164.67 | 3,687.41 | 3,224.11 | 292.47 | 9.881 | |
| 8,500.00 | 6,946.34 | 6,926.34 | 6,946.34 | 54.56 | 240.08 | 142.44 | 1,145.11 | -2,164.67 | 3,705.41 | 3,230.61 | 294.61 | 9.757 | |
| 8,600.00 | 6,945.96 | 6,925.96 | 6,945.96 | 56.80 | 240.06 | 142.74 | 1,145.11 | -2,164.67 | 3,723.41 | 3,237.11 | 296.80 | 9.644 | |
| 8,700.00 | 6,945.58 | 6,925.58 | 6,945.58 | 59.10 | 240.05 | 143.04 | 1,145.11 | -2,164.67 | 3,741.41 | 3,243.61 | 299.02 | 9.543 | |
| 8,800.00 | 6,945.20 | 6,925.20 | 6,945.20 | 61.44 | 240.04 | 143.34 | 1,145.11 | -2,164.67 | 3,759.41 | 3,250.11 | 301.24 | 9.455 | |
| 8,899.03 | 6,944.82 | 6,924.82 | 6,944.82 | 63.80 | 240.02 | 143.64 | 1,145.11 | -2,164.67 | 3,777.41 | 3,256.61 | 303.44 | 9.381 | |
| 8,900.00 | 6,944.82 | 6,924.82 | 6,944.82 | 63.83 | 240.02 | 143.64 | 1,145.11 | -2,164.67 | 3,777.41 | 3,256.61 | 303.46 | 9.380 | |
| 9,000.00 | 6,944.44 | 6,924.44 | 6,944.44 | 66.25 | 240.01 | 143.94 | 1,145.11 | -2,164.67 | 3,795.41 | 3,263.11 | 305.66 | 9.319 | |
| 9,100.00 | 6,944.06 | 6,924.06 | 6,944.06 | 68.71 | 240.00 | 144.24 | 1,145.11 | -2,164.67 | 3,813.41 | 3,269.61 | 307.82 | 9.271 | |
| 9,200.00 | 6,943.68 | 6,923.68 | 6,943.68 | 71.20 | 239.98 | 144.54 | 1,145.11 | -2,164.67 | 3,831.41 | 3,276.11 | 309.94 | 9.235 | |
| 9,300.00 | 6,943.30 | 6,923.30 | 6,943.30 | 73.72 | 239.97 | 144.84 | 1,145.11 | -2,164.67 | 3,849.41 | 3,282.61 | 312.01 | 9.214 | |
| 9,400.00 | 6,942.92 | 6,922.92 | 6,942.92 | 76.26 | 239.96 | 145.14 | 1,145.11 | -2,164.67 | 3,867.41 | 3,289.11 | 314.00 | 9.205 SF | |
| 9,500.00 | 6,942.54 | 6,922.54 | 6,942.54 | 78.82 | 239.94 | 145.44 | 1,145.11 | -2,164.67 | 3,885.41 | 3,295.61 | 315.92 | 9.209 | |
| 9,600.00 | 6,942.16 | 6,922.16 | 6,942.16 | 81.40 | 239.93 | 145.74 | 1,145.11 | -2,164.67 | 3,903.41 | 3,302.11 | 317.76 | 9.226 | |
| 9,700.00 | 6,941.78 | 6,921.78 | 6,941.78 | 84.00 | 239.92 | 146.04 | 1,145.11 | -2,164.67 | 3,921.41 | 3,308.61 | 319.51 | 9.255 | |
| 9,800.00 | 6,941.40 | 6,921.40 | 6,941.40 | 86.62 | 239.90 | 146.34 | 1,145.11 | -2,164.67 | 3,939.41 | 3,315.11 | 321.17 | 9.297 | |
| 9,900.00 | 6,941.03 | 6,921.03 | 6,941.03 | 89.25 | 239.89 | 146.64 | 1,145.11 | -2,164.67 | 3,957.41 | 3,321.61 | 322.74 | 9.349 | |
| 10,000.00 | 6,940.65 | 6,920.65 | 6,940.65 | 91.90 | 239.88 | 146.94 | 1,145.11 | -2,164.67 | 3,975.41 | 3,328.11 | 324.22 | 9.414 | |
| 10,100.00 | 6,940.27 | 6,920.27 | 6,940.27 | 94.56 | 239.86 | 147.24 | 1,145.11 | -2,164.67 | 3,993.41 | 3,334.61 | 325.60 | 9.489 | |
| 10,200.00 | 6,939.89 | 6,919.89 | 6,939.89 | 97.23 | 239.85 | 147.54 | 1,145.11 | -2,164.67 | 4,011.41 | 3,341.11 | 326.89 | 9.574 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURBACH 15-22(SI_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 10,300.00 | 6,939.51 | 6,919.51 | 6,939.51 | 99.91 | 239.84 | 89.89 | 1,145.11 | -2,164.67 | 3,172.68 | 2,844.58 | 328.09 | 9.670 | | |
| 10,400.00 | 6,939.13 | 6,919.13 | 6,939.13 | 102.60 | 239.82 | 89.89 | 1,145.11 | -2,164.67 | 3,218.08 | 2,888.88 | 329.20 | 9.775 | | |
| 10,500.00 | 6,938.75 | 6,918.75 | 6,938.75 | 105.30 | 239.81 | 89.88 | 1,145.11 | -2,164.67 | 3,265.92 | 2,935.69 | 330.23 | 9.890 | | |
| 10,600.00 | 6,938.37 | 6,918.37 | 6,938.37 | 108.00 | 239.80 | 89.87 | 1,145.11 | -2,164.67 | 3,316.09 | 2,984.91 | 331.17 | 10.013 | | |
| 10,700.00 | 6,937.99 | 6,917.99 | 6,937.99 | 110.72 | 239.78 | 89.86 | 1,145.11 | -2,164.67 | 3,368.48 | 3,036.44 | 332.04 | 10.145 | | |
| 10,800.00 | 6,937.61 | 6,917.61 | 6,937.61 | 113.44 | 239.77 | 89.85 | 1,145.11 | -2,164.67 | 3,422.98 | 3,090.15 | 332.83 | 10.284 | | |
| 10,900.00 | 6,937.23 | 6,917.23 | 6,937.23 | 116.17 | 239.76 | 89.85 | 1,145.11 | -2,164.67 | 3,479.51 | 3,145.96 | 333.56 | 10.432 | | |
| 11,000.00 | 6,936.85 | 6,916.85 | 6,936.85 | 118.90 | 239.74 | 89.84 | 1,145.11 | -2,164.67 | 3,537.97 | 3,203.75 | 334.21 | 10.586 | | |
| 11,100.00 | 6,936.47 | 6,916.47 | 6,936.47 | 121.64 | 239.73 | 89.83 | 1,145.11 | -2,164.67 | 3,598.25 | 3,263.44 | 334.81 | 10.747 | | |
| 11,200.00 | 6,936.09 | 6,916.09 | 6,936.09 | 124.39 | 239.72 | 89.82 | 1,145.11 | -2,164.67 | 3,660.27 | 3,324.93 | 335.34 | 10.915 | | |
| 11,300.00 | 6,935.71 | 6,915.71 | 6,935.71 | 127.14 | 239.71 | 89.82 | 1,145.11 | -2,164.67 | 3,723.95 | 3,388.12 | 335.82 | 11.089 | | |
| 11,400.00 | 6,935.34 | 6,915.34 | 6,935.34 | 129.90 | 239.69 | 89.81 | 1,145.11 | -2,164.67 | 3,789.19 | 3,452.93 | 336.26 | 11.269 | | |
| 11,500.00 | 6,934.96 | 6,914.96 | 6,934.96 | 132.66 | 239.68 | 89.80 | 1,145.11 | -2,164.67 | 3,855.92 | 3,519.28 | 336.64 | 11.454 | | |
| 11,600.00 | 6,934.58 | 6,914.58 | 6,934.58 | 135.42 | 239.67 | 89.79 | 1,145.11 | -2,164.67 | 3,924.07 | 3,587.08 | 336.99 | 11.645 | | |
| 11,700.00 | 6,934.20 | 6,914.20 | 6,934.20 | 138.19 | 239.65 | 89.79 | 1,145.11 | -2,164.67 | 3,993.56 | 3,656.27 | 337.29 | 11.840 | | |
| 11,800.00 | 6,933.82 | 6,913.82 | 6,933.82 | 140.96 | 239.64 | 89.78 | 1,145.11 | -2,164.67 | 4,064.32 | 3,726.76 | 337.56 | 12.040 | | |
| 11,900.00 | 6,933.44 | 6,913.44 | 6,933.44 | 143.74 | 239.63 | 89.77 | 1,145.11 | -2,164.67 | 4,136.29 | 3,798.50 | 337.79 | 12.245 | | |
| 12,000.00 | 6,933.06 | 6,913.06 | 6,933.06 | 146.51 | 239.61 | 89.76 | 1,145.11 | -2,164.67 | 4,209.40 | 3,871.41 | 337.99 | 12.454 | | |
| 12,100.00 | 6,932.68 | 6,912.68 | 6,932.68 | 149.30 | 239.60 | 89.76 | 1,145.11 | -2,164.67 | 4,283.60 | 3,945.43 | 338.17 | 12.667 | | |
| 12,200.00 | 6,932.30 | 6,912.30 | 6,932.30 | 152.08 | 239.59 | 89.75 | 1,145.11 | -2,164.67 | 4,358.84 | 4,020.52 | 338.32 | 12.884 | | |
| 12,300.00 | 6,931.92 | 6,911.92 | 6,931.92 | 154.87 | 239.57 | 89.74 | 1,145.11 | -2,164.67 | 4,435.05 | 4,096.60 | 338.45 | 13.104 | | |
| 12,400.00 | 6,931.54 | 6,911.54 | 6,931.54 | 157.66 | 239.56 | 89.73 | 1,145.11 | -2,164.67 | 4,512.18 | 4,173.63 | 338.55 | 13.328 | | |
| 12,500.00 | 6,931.16 | 6,911.16 | 6,931.16 | 160.45 | 239.55 | 89.73 | 1,145.11 | -2,164.67 | 4,590.21 | 4,251.57 | 338.64 | 13.555 | | |
| 12,600.00 | 6,930.78 | 6,910.78 | 6,930.78 | 163.24 | 239.53 | 89.72 | 1,145.11 | -2,164.67 | 4,669.07 | 4,330.36 | 338.70 | 13.785 | | |
| 12,700.00 | 6,930.40 | 6,910.40 | 6,930.40 | 166.04 | 239.52 | 89.71 | 1,145.11 | -2,164.67 | 4,748.72 | 4,409.97 | 338.76 | 14.018 | | |
| 12,800.00 | 6,930.03 | 6,910.03 | 6,930.03 | 168.84 | 239.51 | 89.70 | 1,145.11 | -2,164.67 | 4,829.14 | 4,490.34 | 338.79 | 14.254 | | |
| 12,900.00 | 6,929.65 | 6,909.65 | 6,929.65 | 171.64 | 239.49 | 89.69 | 1,145.11 | -2,164.67 | 4,910.27 | 4,571.45 | 338.82 | 14.492 | | |
| 13,000.00 | 6,929.27 | 6,909.27 | 6,929.27 | 174.44 | 239.48 | 89.69 | 1,145.11 | -2,164.67 | 4,992.09 | 4,653.25 | 338.83 | 14.733 | | |
| 13,100.00 | 6,928.89 | 6,908.89 | 6,928.89 | 177.24 | 239.47 | 89.68 | 1,145.11 | -2,164.67 | 5,074.55 | 4,735.72 | 338.83 | 14.977 | | |
| 13,200.00 | 6,928.51 | 6,908.51 | 6,928.51 | 180.05 | 239.45 | 89.67 | 1,145.11 | -2,164.67 | 5,157.64 | 4,818.82 | 338.82 | 15.222 | | |
| 13,300.00 | 6,928.13 | 6,908.13 | 6,928.13 | 182.86 | 239.44 | 89.66 | 1,145.11 | -2,164.67 | 5,241.32 | 4,902.52 | 338.81 | 15.470 | | |
| 13,400.00 | 6,927.75 | 6,907.75 | 6,927.75 | 185.67 | 239.43 | 89.66 | 1,145.11 | -2,164.67 | 5,325.56 | 4,986.78 | 338.78 | 15.720 | | |
| 13,500.00 | 6,927.37 | 6,907.37 | 6,927.37 | 188.48 | 239.41 | 89.65 | 1,145.11 | -2,164.67 | 5,410.34 | 5,071.59 | 338.75 | 15.972 | | |
| 13,600.00 | 6,926.99 | 6,906.99 | 6,926.99 | 191.29 | 239.40 | 89.64 | 1,145.11 | -2,164.67 | 5,495.64 | 5,156.92 | 338.71 | 16.225 | | |
| 13,700.00 | 6,926.61 | 6,906.61 | 6,926.61 | 194.10 | 239.39 | 89.63 | 1,145.11 | -2,164.67 | 5,581.41 | 5,242.75 | 338.67 | 16.481 | | |
| 13,800.00 | 6,926.23 | 6,906.23 | 6,926.23 | 196.92 | 239.37 | 89.63 | 1,145.11 | -2,164.67 | 5,667.66 | 5,329.04 | 338.62 | 16.738 | | |
| 13,900.00 | 6,925.85 | 6,905.85 | 6,925.85 | 199.73 | 239.36 | 89.62 | 1,145.11 | -2,164.67 | 5,754.35 | 5,415.78 | 338.57 | 16.996 | | |
| 14,000.00 | 6,925.47 | 6,905.47 | 6,925.47 | 202.55 | 239.35 | 89.61 | 1,145.11 | -2,164.67 | 5,841.47 | 5,502.96 | 338.51 | 17.256 | | |
| 14,100.00 | 6,925.09 | 6,905.09 | 6,925.09 | 205.37 | 239.33 | 89.60 | 1,145.11 | -2,164.67 | 5,928.99 | 5,590.54 | 338.45 | 17.518 | | |
| 14,200.00 | 6,924.71 | 6,904.71 | 6,924.71 | 208.19 | 239.32 | 89.60 | 1,145.11 | -2,164.67 | 6,016.90 | 5,678.51 | 338.38 | 17.781 | | |
| 14,300.00 | 6,924.34 | 6,904.34 | 6,924.34 | 211.01 | 239.31 | 89.59 | 1,145.11 | -2,164.67 | 6,105.18 | 5,766.86 | 338.32 | 18.046 | | |
| 14,400.00 | 6,923.96 | 6,903.96 | 6,923.96 | 213.83 | 239.29 | 89.58 | 1,145.11 | -2,164.67 | 6,193.82 | 5,855.57 | 338.25 | 18.311 | | |
| 14,500.00 | 6,923.58 | 6,903.58 | 6,923.58 | 216.65 | 239.28 | 89.57 | 1,145.11 | -2,164.67 | 6,282.80 | 5,944.62 | 338.18 | 18.578 | | |
| 14,600.00 | 6,923.20 | 6,903.20 | 6,923.20 | 219.48 | 239.27 | 89.56 | 1,145.11 | -2,164.67 | 6,372.11 | 6,034.00 | 338.11 | 18.846 | | |
| 14,700.00 | 6,922.82 | 6,902.82 | 6,922.82 | 222.30 | 239.25 | 89.56 | 1,145.11 | -2,164.67 | 6,461.73 | 6,123.70 | 338.04 | 19.115 | | |
| 14,800.00 | 6,922.44 | 6,902.44 | 6,922.44 | 225.13 | 239.24 | 89.55 | 1,145.11 | -2,164.67 | 6,551.65 | 6,213.69 | 337.96 | 19.386 | | |
| 14,900.00 | 6,922.06 | 6,902.06 | 6,922.06 | 227.95 | 239.23 | 89.54 | 1,145.11 | -2,164.67 | 6,641.86 | 6,303.97 | 337.89 | 19.657 | | |
| 14,915.55 | 6,922.00 | 6,902.00 | 6,922.00 | 228.39 | 239.23 | 89.54 | 1,145.11 | -2,164.67 | 6,655.91 | 6,318.04 | 337.88 | 19.699 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 35.00 | 3.28 | 3.28 | -94.25 | -188.21 | -2,534.71 | 2,541.93 | | | | |
| 100.00 | 100.00 | 65.00 | 100.00 | 3.28 | 3.47 | -94.25 | -188.21 | -2,534.71 | 2,541.69 | 2,534.94 | 6.76 | 376.245 | |
| 200.00 | 200.00 | 165.00 | 200.00 | 3.34 | 5.18 | -94.25 | -188.21 | -2,534.71 | 2,541.69 | 2,533.17 | 8.52 | 298.278 | |
| 300.00 | 299.98 | 264.98 | 299.98 | 3.44 | 8.19 | 80.42 | -188.21 | -2,534.71 | 2,541.40 | 2,529.77 | 11.63 | 218.526 | |
| 400.00 | 399.84 | 364.84 | 399.84 | 3.59 | 11.47 | 80.55 | -188.21 | -2,534.71 | 2,540.53 | 2,525.47 | 15.06 | 168.712 | |
| 500.00 | 499.45 | 464.45 | 499.45 | 3.79 | 14.84 | 80.77 | -188.21 | -2,534.71 | 2,539.11 | 2,520.49 | 18.62 | 136.351 | |
| 600.00 | 598.70 | 563.70 | 598.70 | 4.03 | 18.23 | 81.08 | -188.21 | -2,534.71 | 2,537.18 | 2,514.92 | 22.26 | 113.980 | |
| 700.00 | 697.47 | 662.47 | 697.47 | 4.31 | 21.63 | 81.47 | -188.21 | -2,534.71 | 2,534.78 | 2,508.83 | 25.94 | 97.698 | |
| 800.00 | 795.62 | 760.62 | 795.62 | 4.64 | 25.02 | 81.95 | -188.21 | -2,534.71 | 2,531.97 | 2,502.31 | 29.66 | 85.363 | |
| 900.00 | 893.06 | 858.06 | 893.06 | 5.00 | 28.40 | 82.50 | -188.21 | -2,534.71 | 2,528.85 | 2,495.45 | 33.40 | 75.720 | |
| 1,000.00 | 989.78 | 954.78 | 989.78 | 5.39 | 31.76 | 83.08 | -188.21 | -2,534.71 | 2,525.56 | 2,488.42 | 37.15 | 67.988 | |
| 1,100.00 | 1,086.42 | 1,051.42 | 1,086.42 | 5.81 | 35.11 | 83.64 | -188.21 | -2,534.71 | 2,522.49 | 2,481.57 | 40.92 | 61.639 | |
| 1,200.00 | 1,183.06 | 1,148.06 | 1,183.06 | 6.25 | 38.47 | 84.20 | -188.21 | -2,534.71 | 2,519.67 | 2,474.95 | 44.72 | 56.340 | |
| 1,300.00 | 1,279.69 | 1,244.69 | 1,279.69 | 6.71 | 41.84 | 84.77 | -188.21 | -2,534.71 | 2,517.12 | 2,468.58 | 48.54 | 51.858 | |
| 1,400.00 | 1,376.33 | 1,341.33 | 1,376.33 | 7.17 | 45.20 | 85.33 | -188.21 | -2,534.71 | 2,514.82 | 2,462.45 | 52.37 | 48.022 | |
| 1,500.00 | 1,472.97 | 1,437.97 | 1,472.97 | 7.65 | 48.56 | 85.90 | -188.21 | -2,534.71 | 2,512.79 | 2,456.58 | 56.21 | 44.704 | |
| 1,600.00 | 1,569.61 | 1,534.61 | 1,569.61 | 8.13 | 51.93 | 86.46 | -188.21 | -2,534.71 | 2,511.02 | 2,450.95 | 60.06 | 41.808 | |
| 1,700.00 | 1,666.24 | 1,631.24 | 1,666.24 | 8.62 | 55.30 | 87.03 | -188.21 | -2,534.71 | 2,509.50 | 2,445.58 | 63.92 | 39.260 | |
| 1,800.00 | 1,762.88 | 1,727.88 | 1,762.88 | 9.12 | 58.67 | 87.59 | -188.21 | -2,534.71 | 2,508.26 | 2,440.47 | 67.79 | 37.003 | |
| 1,900.00 | 1,859.52 | 1,824.52 | 1,859.52 | 9.62 | 62.04 | 88.16 | -188.21 | -2,534.71 | 2,507.27 | 2,435.62 | 71.66 | 34.990 | |
| 2,000.00 | 1,956.16 | 1,921.16 | 1,956.16 | 10.13 | 65.40 | 88.73 | -188.21 | -2,534.71 | 2,506.55 | 2,431.02 | 75.53 | 33.185 | |
| 2,100.00 | 2,052.79 | 2,017.79 | 2,052.79 | 10.64 | 68.77 | 89.30 | -188.21 | -2,534.71 | 2,506.09 | 2,426.68 | 79.41 | 31.559 | |
| 2,200.00 | 2,149.43 | 2,114.43 | 2,149.43 | 11.15 | 72.14 | 89.87 | -188.21 | -2,534.71 | 2,505.90 | 2,422.60 | 83.29 | 30.085 | |
| 2,223.58 | 2,172.22 | 2,137.22 | 2,172.22 | 11.27 | 72.94 | 90.00 | -188.21 | -2,534.71 | 2,505.89 | 2,421.68 | 84.21 | 29.758 | |
| 2,300.00 | 2,246.07 | 2,211.07 | 2,246.07 | 11.66 | 75.51 | 90.43 | -188.21 | -2,534.71 | 2,505.97 | 2,418.79 | 87.18 | 28.745 | |
| 2,400.00 | 2,342.71 | 2,307.71 | 2,342.71 | 12.18 | 78.88 | 91.00 | -188.21 | -2,534.71 | 2,506.30 | 2,415.23 | 91.07 | 27.522 | |
| 2,500.00 | 2,439.34 | 2,404.34 | 2,439.34 | 12.70 | 82.26 | 91.57 | -188.21 | -2,534.71 | 2,506.90 | 2,411.94 | 94.96 | 26.400 | |
| 2,600.00 | 2,535.98 | 2,500.98 | 2,535.98 | 13.22 | 85.63 | 92.14 | -188.21 | -2,534.71 | 2,507.76 | 2,408.91 | 98.85 | 25.370 | |
| 2,700.00 | 2,632.62 | 2,602.38 | 2,632.62 | 13.75 | 89.16 | 92.70 | -188.21 | -2,534.71 | 2,508.88 | 2,405.98 | 102.91 | 24.380 | |
| 2,800.00 | 2,729.26 | 2,705.74 | 2,729.26 | 14.27 | 92.77 | 93.27 | -188.21 | -2,534.71 | 2,510.27 | 2,403.23 | 107.04 | 23.452 | |
| 2,900.00 | 2,825.89 | 2,809.11 | 2,825.89 | 14.80 | 96.38 | 93.84 | -188.21 | -2,534.71 | 2,511.92 | 2,400.75 | 111.17 | 22.596 | |
| 3,000.00 | 2,922.53 | 2,887.53 | 2,922.53 | 15.32 | 99.11 | 94.40 | -188.21 | -2,534.71 | 2,513.83 | 2,399.40 | 114.43 | 21.969 | |
| 3,100.00 | 3,019.17 | 2,984.17 | 3,019.17 | 15.85 | 102.48 | 94.97 | -188.21 | -2,534.71 | 2,516.00 | 2,397.68 | 118.33 | 21.263 | |
| 3,200.00 | 3,115.81 | 3,080.81 | 3,115.81 | 16.38 | 105.86 | 95.53 | -188.21 | -2,534.71 | 2,518.44 | 2,396.21 | 122.22 | 20.605 | |
| 3,300.00 | 3,212.44 | 3,177.44 | 3,212.44 | 16.91 | 109.23 | 96.09 | -188.21 | -2,534.71 | 2,521.13 | 2,395.01 | 126.12 | 19.990 | |
| 3,400.00 | 3,309.08 | 3,274.08 | 3,309.08 | 17.44 | 112.60 | 96.65 | -188.21 | -2,534.71 | 2,524.08 | 2,394.06 | 130.02 | 19.413 | |
| 3,500.00 | 3,405.72 | 3,370.72 | 3,405.72 | 17.97 | 115.97 | 97.21 | -188.21 | -2,534.71 | 2,527.29 | 2,393.38 | 133.92 | 18.872 | |
| 3,600.00 | 3,502.36 | 3,467.36 | 3,502.36 | 18.50 | 119.35 | 97.77 | -188.21 | -2,534.71 | 2,530.76 | 2,392.95 | 137.82 | 18.363 | |
| 3,700.00 | 3,598.99 | 3,563.99 | 3,598.99 | 19.03 | 122.72 | 98.33 | -188.21 | -2,534.71 | 2,534.49 | 2,392.77 | 141.71 | 17.884 | |
| 3,800.00 | 3,695.63 | 3,660.63 | 3,695.63 | 19.57 | 126.09 | 98.88 | -188.21 | -2,534.71 | 2,538.46 | 2,392.85 | 145.61 | 17.433 | |
| 3,900.00 | 3,792.27 | 3,757.27 | 3,792.27 | 20.10 | 129.46 | 99.44 | -188.21 | -2,534.71 | 2,542.70 | 2,393.19 | 149.51 | 17.007 | |
| 4,000.00 | 3,888.91 | 3,853.91 | 3,888.91 | 20.63 | 132.84 | 99.99 | -188.21 | -2,534.71 | 2,547.18 | 2,393.77 | 153.41 | 16.604 | |
| 4,100.00 | 3,985.54 | 3,950.54 | 3,985.54 | 21.17 | 136.21 | 100.54 | -188.21 | -2,534.71 | 2,551.92 | 2,394.61 | 157.31 | 16.223 | |
| 4,200.00 | 4,082.18 | 4,047.18 | 4,082.18 | 21.70 | 139.58 | 101.09 | -188.21 | -2,534.71 | 2,556.91 | 2,395.70 | 161.20 | 15.861 | |
| 4,300.00 | 4,178.82 | 4,143.82 | 4,178.82 | 22.24 | 142.95 | 101.63 | -188.21 | -2,534.71 | 2,562.14 | 2,397.04 | 165.10 | 15.519 | |
| 4,400.00 | 4,275.46 | 4,240.46 | 4,275.46 | 22.77 | 146.33 | 102.18 | -188.21 | -2,534.71 | 2,567.62 | 2,398.62 | 169.00 | 15.193 | |
| 4,500.00 | 4,372.09 | 4,337.09 | 4,372.09 | 23.31 | 149.70 | 102.72 | -188.21 | -2,534.71 | 2,573.35 | 2,400.45 | 172.89 | 14.884 | |
| 4,600.00 | 4,468.73 | 4,433.73 | 4,468.73 | 23.84 | 153.07 | 103.26 | -188.21 | -2,534.71 | 2,579.32 | 2,402.53 | 176.79 | 14.590 | |
| 4,700.00 | 4,565.37 | 4,530.37 | 4,565.37 | 24.38 | 156.44 | 103.80 | -188.21 | -2,534.71 | 2,585.53 | 2,404.85 | 180.69 | 14.310 | |
| 4,800.00 | 4,662.01 | 4,627.01 | 4,662.01 | 24.91 | 159.82 | 104.33 | -188.21 | -2,534.71 | 2,591.99 | 2,407.41 | 184.58 | 14.043 | |
| 4,900.00 | 4,758.64 | 4,723.64 | 4,758.64 | 25.45 | 163.19 | 104.86 | -188.21 | -2,534.71 | 2,598.68 | 2,410.20 | 188.47 | 13.788 | |
| 5,000.00 | 4,855.28 | 4,820.28 | 4,855.28 | 25.99 | 166.56 | 105.39 | -188.21 | -2,534.71 | 2,605.60 | 2,413.24 | 192.37 | 13.545 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURBACH 15-23(SI_150CC - OH - OH) | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 4,916.92 | 4,951.92 | 26.53 | 169.94 | 105.92 | -188.21 | -2,534.71 | 2,612.77 | 2,416.51 | 196.26 | 13.313 | | |
| 5,200.00 | 5,048.56 | 5,013.56 | 5,048.56 | 27.06 | 173.31 | 106.44 | -188.21 | -2,534.71 | 2,620.16 | 2,420.01 | 200.15 | 13.091 | | |
| 5,300.00 | 5,145.19 | 5,110.19 | 5,145.19 | 27.60 | 176.68 | 106.97 | -188.21 | -2,534.71 | 2,627.79 | 2,423.75 | 204.04 | 12.879 | | |
| 5,400.00 | 5,241.83 | 5,206.83 | 5,241.83 | 28.14 | 180.06 | 107.48 | -188.21 | -2,534.71 | 2,635.64 | 2,427.71 | 207.93 | 12.676 | | |
| 5,500.00 | 5,338.47 | 5,303.47 | 5,338.47 | 28.67 | 183.43 | 108.00 | -188.21 | -2,534.71 | 2,643.72 | 2,431.90 | 211.82 | 12.481 | | |
| 5,600.00 | 5,435.11 | 5,400.11 | 5,435.11 | 29.21 | 186.80 | 108.51 | -188.21 | -2,534.71 | 2,652.03 | 2,436.32 | 215.71 | 12.294 | | |
| 5,700.00 | 5,531.74 | 5,503.26 | 5,531.74 | 29.75 | 190.40 | 109.02 | -188.21 | -2,534.71 | 2,660.56 | 2,440.74 | 219.82 | 12.103 | | |
| 5,800.00 | 5,628.38 | 5,606.62 | 5,628.38 | 30.29 | 194.01 | 109.53 | -188.21 | -2,534.71 | 2,669.31 | 2,445.36 | 223.95 | 11.919 | | |
| 5,900.00 | 5,725.02 | 5,709.98 | 5,725.02 | 30.83 | 197.62 | 110.03 | -188.21 | -2,534.71 | 2,678.28 | 2,450.21 | 228.07 | 11.743 | | |
| 6,000.00 | 5,821.66 | 5,786.66 | 5,821.66 | 31.37 | 200.29 | 110.53 | -188.21 | -2,534.71 | 2,687.46 | 2,456.21 | 231.25 | 11.621 | | |
| 6,100.00 | 5,918.29 | 5,883.29 | 5,918.29 | 31.90 | 203.67 | 111.03 | -188.21 | -2,534.71 | 2,696.86 | 2,461.72 | 235.14 | 11.469 | | |
| 6,200.00 | 6,014.93 | 5,979.93 | 6,014.93 | 32.44 | 207.04 | 111.52 | -188.21 | -2,534.71 | 2,706.47 | 2,467.45 | 239.02 | 11.323 | | |
| 6,300.00 | 6,111.57 | 6,076.57 | 6,111.57 | 32.98 | 210.41 | 112.01 | -188.21 | -2,534.71 | 2,716.29 | 2,473.38 | 242.91 | 11.183 | | |
| 6,400.00 | 6,208.21 | 6,173.21 | 6,208.21 | 33.52 | 213.79 | 112.50 | -188.21 | -2,534.71 | 2,726.31 | 2,479.53 | 246.79 | 11.047 | | |
| 6,500.00 | 6,304.84 | 6,269.84 | 6,304.84 | 34.06 | 217.16 | 112.98 | -188.21 | -2,534.71 | 2,736.54 | 2,485.88 | 250.67 | 10.917 | | |
| 6,600.00 | 6,401.37 | 6,366.37 | 6,401.37 | 34.60 | 220.53 | 96.62 | -188.21 | -2,534.71 | 2,745.07 | 2,490.53 | 254.54 | 10.784 | | |
| 6,700.00 | 6,496.25 | 6,461.25 | 6,496.25 | 35.12 | 223.84 | 74.90 | -188.21 | -2,534.71 | 2,741.70 | 2,483.34 | 258.35 | 10.612 | | |
| 6,800.00 | 6,587.15 | 6,552.15 | 6,587.15 | 35.59 | 227.01 | 64.01 | -188.21 | -2,534.71 | 2,725.21 | 2,463.22 | 261.99 | 10.402 | | |
| 6,900.00 | 6,671.83 | 6,636.83 | 6,671.83 | 36.03 | 229.97 | 59.30 | -188.21 | -2,534.71 | 2,696.29 | 2,430.92 | 265.37 | 10.160 | | |
| 7,000.00 | 6,748.21 | 6,713.21 | 6,748.21 | 36.41 | 232.64 | 58.28 | -188.21 | -2,534.71 | 2,655.95 | 2,387.51 | 268.44 | 9.894 | | |
| 7,100.00 | 6,814.41 | 6,779.41 | 6,814.41 | 36.76 | 234.95 | 59.92 | -188.21 | -2,534.71 | 2,605.49 | 2,334.35 | 271.15 | 9.609 | | |
| 7,200.00 | 6,868.79 | 6,833.79 | 6,868.79 | 37.07 | 236.85 | 63.81 | -188.21 | -2,534.71 | 2,546.44 | 2,272.98 | 273.46 | 9.312 | | |
| 7,300.00 | 6,910.01 | 6,875.01 | 6,910.01 | 37.39 | 238.28 | 69.78 | -188.21 | -2,534.71 | 2,480.52 | 2,205.15 | 275.37 | 9.008 | | |
| 7,400.00 | 6,937.07 | 6,902.07 | 6,937.07 | 37.76 | 239.23 | 77.64 | -188.21 | -2,534.71 | 2,409.54 | 2,132.68 | 276.85 | 8.703 | | |
| 7,500.00 | 6,949.29 | 6,914.29 | 6,949.29 | 38.27 | 239.66 | 86.95 | -188.21 | -2,534.71 | 2,335.37 | 2,057.46 | 277.91 | 8.403 | | |
| 7,600.00 | 6,949.75 | 6,914.75 | 6,949.75 | 39.02 | 239.67 | 90.24 | -188.21 | -2,534.71 | 2,260.37 | 1,981.71 | 278.66 | 8.112 | | |
| 7,700.00 | 6,949.37 | 6,914.37 | 6,949.37 | 40.05 | 239.66 | 90.23 | -188.21 | -2,534.71 | 2,187.21 | 1,907.68 | 279.53 | 7.825 | | |
| 7,800.00 | 6,948.99 | 6,913.99 | 6,948.99 | 41.35 | 239.64 | 90.21 | -188.21 | -2,534.71 | 2,116.24 | 1,835.69 | 280.55 | 7.543 | | |
| 7,900.00 | 6,948.61 | 6,913.61 | 6,948.61 | 42.86 | 239.63 | 90.20 | -188.21 | -2,534.71 | 2,047.70 | 1,765.94 | 281.75 | 7.268 | | |
| 8,000.00 | 6,948.23 | 6,913.23 | 6,948.23 | 44.53 | 239.62 | 90.18 | -188.21 | -2,534.71 | 1,981.83 | 1,698.70 | 283.14 | 7.000 | | |
| 8,100.00 | 6,947.85 | 6,912.85 | 6,947.85 | 46.34 | 239.61 | 90.17 | -188.21 | -2,534.71 | 1,918.92 | 1,634.21 | 284.71 | 6.740 | | |
| 8,200.00 | 6,947.47 | 6,912.47 | 6,947.47 | 48.26 | 239.59 | 90.15 | -188.21 | -2,534.71 | 1,859.26 | 1,572.79 | 286.47 | 6.490 | | |
| 8,300.00 | 6,947.09 | 6,912.09 | 6,947.09 | 50.28 | 239.58 | 90.14 | -188.21 | -2,534.71 | 1,803.17 | 1,514.75 | 288.43 | 6.252 | | |
| 8,400.00 | 6,946.72 | 6,911.72 | 6,946.72 | 52.39 | 239.57 | 90.13 | -188.21 | -2,534.71 | 1,751.01 | 1,460.45 | 290.56 | 6.026 | | |
| 8,500.00 | 6,946.34 | 6,911.34 | 6,946.34 | 54.56 | 239.55 | 90.11 | -188.21 | -2,534.71 | 1,703.12 | 1,410.27 | 292.86 | 5.816 | | |
| 8,600.00 | 6,945.96 | 6,910.96 | 6,945.96 | 56.80 | 239.54 | 90.10 | -188.21 | -2,534.71 | 1,659.88 | 1,364.59 | 295.29 | 5.621 | | |
| 8,700.00 | 6,945.58 | 6,910.58 | 6,945.58 | 59.10 | 239.53 | 90.08 | -188.21 | -2,534.71 | 1,621.67 | 1,323.83 | 297.83 | 5.445 | | |
| 8,800.00 | 6,945.20 | 6,910.20 | 6,945.20 | 61.44 | 239.51 | 90.07 | -188.21 | -2,534.71 | 1,588.83 | 1,288.39 | 300.44 | 5.288 | | |
| 8,900.00 | 6,944.82 | 6,909.82 | 6,944.82 | 63.83 | 239.50 | 90.05 | -188.21 | -2,534.71 | 1,561.72 | 1,258.65 | 303.07 | 5.153 | | |
| 9,000.00 | 6,944.44 | 6,909.44 | 6,944.44 | 66.25 | 239.49 | 90.04 | -188.21 | -2,534.71 | 1,540.64 | 1,234.97 | 305.67 | 5.040 | | |
| 9,100.00 | 6,944.06 | 6,909.06 | 6,944.06 | 68.71 | 239.47 | 90.03 | -188.21 | -2,534.71 | 1,525.83 | 1,217.65 | 308.18 | 4.951 | | |
| 9,200.00 | 6,943.68 | 6,908.68 | 6,943.68 | 71.20 | 239.46 | 90.01 | -188.21 | -2,534.71 | 1,517.48 | 1,206.93 | 310.56 | 4.886 | | |
| 9,277.05 | 6,943.39 | 6,908.39 | 6,943.39 | 73.14 | 239.45 | 90.00 | -188.21 | -2,534.71 | 1,515.53 | 1,203.26 | 312.26 | 4.853 CC | | |
| 9,300.00 | 6,943.30 | 6,908.30 | 6,943.30 | 73.72 | 239.45 | 90.00 | -188.21 | -2,534.71 | 1,515.70 | 1,202.95 | 312.75 | 4.846 ES | | |
| 9,400.00 | 6,942.92 | 6,907.92 | 6,942.92 | 76.26 | 239.43 | 89.98 | -188.21 | -2,534.71 | 1,520.50 | 1,205.79 | 314.71 | 4.831 SF | | |
| 9,500.00 | 6,942.54 | 6,907.54 | 6,942.54 | 78.82 | 239.42 | 89.97 | -188.21 | -2,534.71 | 1,531.84 | 1,215.41 | 316.42 | 4.841 | | |
| 9,600.00 | 6,942.16 | 6,907.16 | 6,942.16 | 81.40 | 239.41 | 89.95 | -188.21 | -2,534.71 | 1,549.55 | 1,231.69 | 317.87 | 4.875 | | |
| 9,700.00 | 6,941.78 | 6,906.78 | 6,941.78 | 84.00 | 239.39 | 89.94 | -188.21 | -2,534.71 | 1,573.44 | 1,254.40 | 319.04 | 4.932 | | |
| 9,800.00 | 6,941.40 | 6,906.40 | 6,941.40 | 86.62 | 239.38 | 89.93 | -188.21 | -2,534.71 | 1,603.21 | 1,283.27 | 319.94 | 5.011 | | |
| 9,900.00 | 6,941.03 | 6,906.03 | 6,941.03 | 89.25 | 239.37 | 89.91 | -188.21 | -2,534.71 | 1,638.56 | 1,317.96 | 320.59 | 5.111 | | |
| 10,000.00 | 6,940.65 | 6,905.65 | 6,940.65 | 91.90 | 239.35 | 89.90 | -188.21 | -2,534.71 | 1,679.13 | 1,358.11 | 321.02 | 5.231 | | |
| 10,100.00 | 6,940.27 | 6,905.27 | 6,940.27 | 94.56 | 239.34 | 89.88 | -188.21 | -2,534.71 | 1,724.54 | 1,403.31 | 321.24 | 5.368 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURBACH 15-23(SI_150CC - OH - OH) | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,200.00 | 6,939.89 | 6,904.89 | 6,939.89 | 97.23 | 239.33 | 89.87 | -188.21 | -2,534.71 | 1,774.44 | 1,453.16 | 321.28 | 5.523 | | |
| 10,300.00 | 6,939.51 | 6,904.51 | 6,939.51 | 99.91 | 239.31 | 89.85 | -188.21 | -2,534.71 | 1,828.45 | 1,507.27 | 321.17 | 5.693 | | |
| 10,400.00 | 6,939.13 | 6,904.13 | 6,939.13 | 102.60 | 239.30 | 89.84 | -188.21 | -2,534.71 | 1,886.22 | 1,565.27 | 320.95 | 5.877 | | |
| 10,500.00 | 6,938.75 | 6,903.75 | 6,938.75 | 105.30 | 239.29 | 89.82 | -188.21 | -2,534.71 | 1,947.41 | 1,626.79 | 320.62 | 6.074 | | |
| 10,600.00 | 6,938.37 | 6,903.37 | 6,938.37 | 108.00 | 239.27 | 89.81 | -188.21 | -2,534.71 | 2,011.71 | 1,691.50 | 320.21 | 6.282 | | |
| 10,700.00 | 6,937.99 | 6,902.99 | 6,937.99 | 110.72 | 239.26 | 89.80 | -188.21 | -2,534.71 | 2,078.84 | 1,759.10 | 319.74 | 6.502 | | |
| 10,800.00 | 6,937.61 | 6,902.61 | 6,937.61 | 113.44 | 239.25 | 89.78 | -188.21 | -2,534.71 | 2,148.52 | 1,829.29 | 319.23 | 6.730 | | |
| 10,900.00 | 6,937.23 | 6,902.23 | 6,937.23 | 116.17 | 239.23 | 89.77 | -188.21 | -2,534.71 | 2,220.53 | 1,901.84 | 318.69 | 6.968 | | |
| 11,000.00 | 6,936.85 | 6,901.85 | 6,936.85 | 118.90 | 239.22 | 89.75 | -188.21 | -2,534.71 | 2,294.63 | 1,976.50 | 318.12 | 7.213 | | |
| 11,100.00 | 6,936.47 | 6,901.47 | 6,936.47 | 121.64 | 239.21 | 89.74 | -188.21 | -2,534.71 | 2,370.63 | 2,053.08 | 317.55 | 7.465 | | |
| 11,200.00 | 6,936.09 | 6,901.09 | 6,936.09 | 124.39 | 239.19 | 89.72 | -188.21 | -2,534.71 | 2,448.37 | 2,131.39 | 316.97 | 7.724 | | |
| 11,300.00 | 6,935.71 | 6,900.71 | 6,935.71 | 127.14 | 239.18 | 89.71 | -188.21 | -2,534.71 | 2,527.66 | 2,211.27 | 316.39 | 7.989 | | |
| 11,400.00 | 6,935.34 | 6,900.34 | 6,935.34 | 129.90 | 239.17 | 89.70 | -188.21 | -2,534.71 | 2,608.38 | 2,292.56 | 315.82 | 8.259 | | |
| 11,500.00 | 6,934.96 | 6,900.04 | 6,934.96 | 132.66 | 239.16 | 89.68 | -188.21 | -2,534.71 | 2,690.40 | 2,375.14 | 315.26 | 8.534 | | |
| 11,600.00 | 6,934.58 | 6,900.42 | 6,934.58 | 135.42 | 239.17 | 89.67 | -188.21 | -2,534.71 | 2,773.59 | 2,458.86 | 314.73 | 8.812 | | |
| 11,700.00 | 6,934.20 | 6,900.80 | 6,934.20 | 138.19 | 239.18 | 89.65 | -188.21 | -2,534.71 | 2,857.87 | 2,543.65 | 314.22 | 9.095 | | |
| 11,800.00 | 6,933.82 | 6,901.18 | 6,933.82 | 140.96 | 239.20 | 89.64 | -188.21 | -2,534.71 | 2,943.13 | 2,629.40 | 313.72 | 9.381 | | |
| 11,900.00 | 6,933.44 | 6,901.56 | 6,933.44 | 143.74 | 239.21 | 89.62 | -188.21 | -2,534.71 | 3,029.29 | 2,716.04 | 313.24 | 9.671 | | |
| 12,000.00 | 6,933.06 | 6,901.94 | 6,933.06 | 146.51 | 239.22 | 89.61 | -188.21 | -2,534.71 | 3,116.27 | 2,803.50 | 312.78 | 9.963 | | |
| 12,100.00 | 6,932.68 | 6,902.32 | 6,932.68 | 149.30 | 239.24 | 89.60 | -188.21 | -2,534.71 | 3,204.02 | 2,891.69 | 312.33 | 10.258 | | |
| 12,200.00 | 6,932.30 | 6,902.70 | 6,932.30 | 152.08 | 239.25 | 89.58 | -188.21 | -2,534.71 | 3,292.46 | 2,980.57 | 311.90 | 10.556 | | |
| 12,300.00 | 6,931.92 | 6,903.08 | 6,931.92 | 154.87 | 239.26 | 89.57 | -188.21 | -2,534.71 | 3,381.55 | 3,070.07 | 311.48 | 10.856 | | |
| 12,400.00 | 6,931.54 | 6,903.46 | 6,931.54 | 157.66 | 239.28 | 89.55 | -188.21 | -2,534.71 | 3,471.24 | 3,160.16 | 311.08 | 11.159 | | |
| 12,500.00 | 6,931.16 | 6,903.84 | 6,931.16 | 160.45 | 239.29 | 89.54 | -188.21 | -2,534.71 | 3,561.47 | 3,250.77 | 310.70 | 11.463 | | |
| 12,600.00 | 6,930.78 | 6,904.22 | 6,930.78 | 163.24 | 239.30 | 89.52 | -188.21 | -2,534.71 | 3,652.21 | 3,341.88 | 310.33 | 11.769 | | |
| 12,700.00 | 6,930.40 | 6,904.60 | 6,930.40 | 166.04 | 239.32 | 89.51 | -188.21 | -2,534.71 | 3,743.42 | 3,433.45 | 309.97 | 12.077 | | |
| 12,800.00 | 6,930.03 | 6,904.98 | 6,930.03 | 168.84 | 239.33 | 89.49 | -188.21 | -2,534.71 | 3,835.07 | 3,525.44 | 309.64 | 12.386 | | |
| 12,900.00 | 6,929.65 | 6,905.35 | 6,929.65 | 171.64 | 239.34 | 89.48 | -188.21 | -2,534.71 | 3,927.13 | 3,617.82 | 309.31 | 12.696 | | |
| 13,000.00 | 6,929.27 | 6,905.73 | 6,929.27 | 174.44 | 239.36 | 89.47 | -188.21 | -2,534.71 | 4,019.57 | 3,710.57 | 309.00 | 13.008 | | |
| 13,100.00 | 6,928.89 | 6,906.11 | 6,928.89 | 177.24 | 239.37 | 89.45 | -188.21 | -2,534.71 | 4,112.36 | 3,803.66 | 308.71 | 13.321 | | |
| 13,200.00 | 6,928.51 | 6,906.49 | 6,928.51 | 180.05 | 239.38 | 89.44 | -188.21 | -2,534.71 | 4,205.49 | 3,897.07 | 308.42 | 13.636 | | |
| 13,300.00 | 6,928.13 | 6,906.87 | 6,928.13 | 182.86 | 239.40 | 89.42 | -188.21 | -2,534.71 | 4,298.92 | 3,990.77 | 308.15 | 13.951 | | |
| 13,400.00 | 6,927.75 | 6,907.25 | 6,927.75 | 185.67 | 239.41 | 89.41 | -188.21 | -2,534.71 | 4,392.64 | 4,084.75 | 307.89 | 14.267 | | |
| 13,500.00 | 6,927.37 | 6,907.63 | 6,927.37 | 188.48 | 239.42 | 89.39 | -188.21 | -2,534.71 | 4,486.63 | 4,178.99 | 307.64 | 14.584 | | |
| 13,600.00 | 6,926.99 | 6,908.01 | 6,926.99 | 191.29 | 239.44 | 89.38 | -188.21 | -2,534.71 | 4,580.88 | 4,273.47 | 307.40 | 14.902 | | |
| 13,700.00 | 6,926.61 | 6,908.39 | 6,926.61 | 194.10 | 239.45 | 89.37 | -188.21 | -2,534.71 | 4,675.36 | 4,368.19 | 307.18 | 15.220 | | |
| 13,800.00 | 6,926.23 | 6,908.77 | 6,926.23 | 196.92 | 239.46 | 89.35 | -188.21 | -2,534.71 | 4,770.07 | 4,463.11 | 306.96 | 15.540 | | |
| 13,900.00 | 6,925.85 | 6,909.15 | 6,925.85 | 199.73 | 239.48 | 89.34 | -188.21 | -2,534.71 | 4,864.99 | 4,558.24 | 306.75 | 15.860 | | |
| 14,000.00 | 6,925.47 | 6,909.53 | 6,925.47 | 202.55 | 239.49 | 89.32 | -188.21 | -2,534.71 | 4,960.11 | 4,653.56 | 306.55 | 16.180 | | |
| 14,100.00 | 6,925.09 | 6,909.91 | 6,925.09 | 205.37 | 239.50 | 89.31 | -188.21 | -2,534.71 | 5,055.42 | 4,749.06 | 306.36 | 16.501 | | |
| 14,200.00 | 6,924.71 | 6,889.71 | 6,924.71 | 208.19 | 238.80 | 89.29 | -188.21 | -2,534.71 | 5,150.91 | 4,845.45 | 305.47 | 16.863 | | |
| 14,300.00 | 6,924.34 | 6,889.34 | 6,924.34 | 211.01 | 238.78 | 89.28 | -188.21 | -2,534.71 | 5,246.57 | 4,941.30 | 305.27 | 17.187 | | |
| 14,400.00 | 6,923.96 | 6,888.96 | 6,923.96 | 213.83 | 238.77 | 89.27 | -188.21 | -2,534.71 | 5,342.38 | 5,037.31 | 305.08 | 17.512 | | |
| 14,500.00 | 6,923.58 | 6,888.58 | 6,923.58 | 216.65 | 238.76 | 89.25 | -188.21 | -2,534.71 | 5,438.35 | 5,133.45 | 304.89 | 17.837 | | |
| 14,600.00 | 6,923.20 | 6,888.20 | 6,923.20 | 219.48 | 238.74 | 89.24 | -188.21 | -2,534.71 | 5,534.45 | 5,229.74 | 304.72 | 18.163 | | |
| 14,700.00 | 6,922.82 | 6,887.82 | 6,922.82 | 222.30 | 238.73 | 89.22 | -188.21 | -2,534.71 | 5,630.70 | 5,326.15 | 304.55 | 18.489 | | |
| 14,800.00 | 6,922.44 | 6,887.44 | 6,922.44 | 225.13 | 238.72 | 89.21 | -188.21 | -2,534.71 | 5,727.07 | 5,422.69 | 304.38 | 18.815 | | |
| 14,900.00 | 6,922.06 | 6,887.06 | 6,922.06 | 227.95 | 238.70 | 89.19 | -188.21 | -2,534.71 | 5,823.56 | 5,519.34 | 304.23 | 19.142 | | |
| 14,915.55 | 6,922.00 | 6,887.00 | 6,922.00 | 228.39 | 238.70 | 89.19 | -188.21 | -2,534.71 | 5,838.58 | 5,534.38 | 304.20 | 19.193 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURMAN 16-42(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 46.00 | 3.28 | 3.28 | -105.80 | -1,357.29 | -4,796.24 | 4,984.80 | | | | | |
| 100.00 | 100.00 | 54.00 | 100.00 | 3.28 | 3.41 | -105.80 | -1,357.29 | -4,796.24 | 4,984.59 | 4,977.89 | 6.70 | 744.250 | | |
| 200.00 | 200.00 | 154.00 | 200.00 | 3.34 | 4.89 | -105.80 | -1,357.29 | -4,796.24 | 4,984.59 | 4,976.36 | 8.23 | 605.670 | | |
| 300.00 | 299.98 | 253.98 | 299.98 | 3.44 | 7.84 | 68.85 | -1,357.29 | -4,796.24 | 4,983.96 | 4,972.68 | 11.28 | 441.863 | | |
| 400.00 | 399.84 | 353.84 | 399.84 | 3.59 | 11.10 | 68.94 | -1,357.29 | -4,796.24 | 4,982.07 | 4,967.38 | 14.69 | 339.116 | | |
| 500.00 | 499.45 | 453.45 | 499.45 | 3.79 | 14.46 | 69.09 | -1,357.29 | -4,796.24 | 4,978.94 | 4,960.69 | 18.25 | 272.845 | | |
| 600.00 | 598.70 | 552.70 | 598.70 | 4.03 | 17.85 | 69.30 | -1,357.29 | -4,796.24 | 4,974.59 | 4,952.70 | 21.88 | 227.328 | | |
| 700.00 | 697.47 | 651.47 | 697.47 | 4.31 | 21.25 | 69.57 | -1,357.29 | -4,796.24 | 4,969.03 | 4,943.47 | 25.57 | 194.367 | | |
| 800.00 | 795.62 | 749.62 | 795.62 | 4.64 | 24.64 | 69.90 | -1,357.29 | -4,796.24 | 4,962.31 | 4,933.04 | 29.28 | 169.487 | | |
| 900.00 | 893.06 | 847.06 | 893.06 | 5.00 | 28.02 | 70.29 | -1,357.29 | -4,796.24 | 4,954.48 | 4,921.47 | 33.01 | 150.085 | | |
| 1,000.00 | 989.78 | 943.78 | 989.78 | 5.39 | 31.37 | 70.63 | -1,357.29 | -4,796.24 | 4,945.75 | 4,908.99 | 36.76 | 134.554 | | |
| 1,100.00 | 1,086.42 | 1,040.42 | 1,086.42 | 5.81 | 34.73 | 70.91 | -1,357.29 | -4,796.24 | 4,937.02 | 4,896.49 | 40.53 | 121.820 | | |
| 1,200.00 | 1,183.06 | 1,137.06 | 1,183.06 | 6.25 | 38.09 | 71.18 | -1,357.29 | -4,796.24 | 4,928.41 | 4,884.09 | 44.32 | 111.202 | | |
| 1,300.00 | 1,279.69 | 1,233.69 | 1,279.69 | 6.71 | 41.45 | 71.45 | -1,357.29 | -4,796.24 | 4,919.91 | 4,871.78 | 48.13 | 102.223 | | |
| 1,400.00 | 1,376.33 | 1,330.33 | 1,376.33 | 7.17 | 44.82 | 71.73 | -1,357.29 | -4,796.24 | 4,911.54 | 4,859.59 | 51.95 | 94.537 | | |
| 1,500.00 | 1,472.97 | 1,426.97 | 1,472.97 | 7.65 | 48.18 | 72.01 | -1,357.29 | -4,796.24 | 4,903.29 | 4,847.50 | 55.79 | 87.890 | | |
| 1,600.00 | 1,569.61 | 1,523.61 | 1,569.61 | 8.13 | 51.55 | 72.28 | -1,357.29 | -4,796.24 | 4,895.16 | 4,835.52 | 59.63 | 82.086 | | |
| 1,700.00 | 1,666.24 | 1,620.24 | 1,666.24 | 8.62 | 54.92 | 72.56 | -1,357.29 | -4,796.24 | 4,887.15 | 4,823.66 | 63.49 | 76.977 | | |
| 1,800.00 | 1,762.88 | 1,716.88 | 1,762.88 | 9.12 | 58.28 | 72.84 | -1,357.29 | -4,796.24 | 4,879.26 | 4,811.91 | 67.35 | 72.448 | | |
| 1,900.00 | 1,859.52 | 1,813.52 | 1,859.52 | 9.62 | 61.65 | 73.12 | -1,357.29 | -4,796.24 | 4,871.50 | 4,800.28 | 71.21 | 68.406 | | |
| 2,000.00 | 1,956.16 | 1,910.16 | 1,956.16 | 10.13 | 65.02 | 73.40 | -1,357.29 | -4,796.24 | 4,863.86 | 4,788.77 | 75.09 | 64.777 | | |
| 2,100.00 | 2,052.79 | 2,006.79 | 2,052.79 | 10.64 | 68.39 | 73.68 | -1,357.29 | -4,796.24 | 4,856.34 | 4,777.38 | 78.96 | 61.503 | | |
| 2,200.00 | 2,149.43 | 2,103.43 | 2,149.43 | 11.15 | 71.76 | 73.97 | -1,357.29 | -4,796.24 | 4,848.95 | 4,766.11 | 82.84 | 58.533 | | |
| 2,300.00 | 2,246.07 | 2,200.07 | 2,246.07 | 11.66 | 75.13 | 74.25 | -1,357.29 | -4,796.24 | 4,841.68 | 4,754.96 | 86.72 | 55.829 | | |
| 2,400.00 | 2,342.71 | 2,303.29 | 2,342.71 | 12.18 | 78.73 | 74.53 | -1,357.29 | -4,796.24 | 4,834.54 | 4,743.70 | 90.84 | 53.221 | | |
| 2,500.00 | 2,439.34 | 2,406.66 | 2,439.34 | 12.70 | 82.34 | 74.82 | -1,357.29 | -4,796.24 | 4,827.53 | 4,732.56 | 94.96 | 50.837 | | |
| 2,600.00 | 2,535.98 | 2,489.98 | 2,535.98 | 13.22 | 85.24 | 75.11 | -1,357.29 | -4,796.24 | 4,820.64 | 4,722.25 | 98.39 | 48.996 | | |
| 2,700.00 | 2,632.62 | 2,586.62 | 2,632.62 | 13.75 | 88.61 | 75.39 | -1,357.29 | -4,796.24 | 4,813.88 | 4,711.60 | 102.28 | 47.066 | | |
| 2,800.00 | 2,729.26 | 2,683.26 | 2,729.26 | 14.27 | 91.99 | 75.68 | -1,357.29 | -4,796.24 | 4,807.25 | 4,701.07 | 106.17 | 45.277 | | |
| 2,900.00 | 2,825.89 | 2,779.89 | 2,825.89 | 14.80 | 95.36 | 75.97 | -1,357.29 | -4,796.24 | 4,800.74 | 4,690.67 | 110.07 | 43.615 | | |
| 3,000.00 | 2,922.53 | 2,876.53 | 2,922.53 | 15.32 | 98.73 | 76.26 | -1,357.29 | -4,796.24 | 4,794.37 | 4,680.40 | 113.97 | 42.068 | | |
| 3,100.00 | 3,019.17 | 2,973.17 | 3,019.17 | 15.85 | 102.10 | 76.55 | -1,357.29 | -4,796.24 | 4,788.13 | 4,670.26 | 117.87 | 40.623 | | |
| 3,200.00 | 3,115.81 | 3,069.81 | 3,115.81 | 16.38 | 105.47 | 76.84 | -1,357.29 | -4,796.24 | 4,782.01 | 4,660.24 | 121.77 | 39.272 | | |
| 3,300.00 | 3,212.44 | 3,166.44 | 3,212.44 | 16.91 | 108.84 | 77.13 | -1,357.29 | -4,796.24 | 4,776.03 | 4,650.36 | 125.67 | 38.005 | | |
| 3,400.00 | 3,309.08 | 3,263.08 | 3,309.08 | 17.44 | 112.22 | 77.42 | -1,357.29 | -4,796.24 | 4,770.18 | 4,640.60 | 129.57 | 36.815 | | |
| 3,500.00 | 3,405.72 | 3,359.72 | 3,405.72 | 17.97 | 115.59 | 77.71 | -1,357.29 | -4,796.24 | 4,764.45 | 4,630.98 | 133.48 | 35.695 | | |
| 3,600.00 | 3,502.36 | 3,456.36 | 3,502.36 | 18.50 | 118.96 | 78.00 | -1,357.29 | -4,796.24 | 4,758.87 | 4,621.48 | 137.38 | 34.640 | | |
| 3,700.00 | 3,598.99 | 3,552.99 | 3,598.99 | 19.03 | 122.33 | 78.30 | -1,357.29 | -4,796.24 | 4,753.41 | 4,612.12 | 141.29 | 33.644 | | |
| 3,800.00 | 3,695.63 | 3,649.63 | 3,695.63 | 19.57 | 125.71 | 78.59 | -1,357.29 | -4,796.24 | 4,748.09 | 4,602.89 | 145.19 | 32.702 | | |
| 3,900.00 | 3,792.27 | 3,746.27 | 3,792.27 | 20.10 | 129.08 | 78.88 | -1,357.29 | -4,796.24 | 4,742.90 | 4,593.80 | 149.10 | 31.810 | | |
| 4,000.00 | 3,888.91 | 3,842.91 | 3,888.91 | 20.63 | 132.45 | 79.18 | -1,357.29 | -4,796.24 | 4,737.84 | 4,584.83 | 153.01 | 30.965 | | |
| 4,100.00 | 3,985.54 | 3,939.54 | 3,985.54 | 21.17 | 135.82 | 79.48 | -1,357.29 | -4,796.24 | 4,732.92 | 4,576.00 | 156.92 | 30.162 | | |
| 4,200.00 | 4,082.18 | 4,036.18 | 4,082.18 | 21.70 | 139.20 | 79.77 | -1,357.29 | -4,796.24 | 4,728.13 | 4,567.31 | 160.82 | 29.399 | | |
| 4,300.00 | 4,178.82 | 4,132.82 | 4,178.82 | 22.24 | 142.57 | 80.07 | -1,357.29 | -4,796.24 | 4,723.48 | 4,558.74 | 164.73 | 28.673 | | |
| 4,400.00 | 4,275.46 | 4,229.46 | 4,275.46 | 22.77 | 145.94 | 80.37 | -1,357.29 | -4,796.24 | 4,718.96 | 4,550.32 | 168.64 | 27.982 | | |
| 4,500.00 | 4,372.09 | 4,326.09 | 4,372.09 | 23.31 | 149.31 | 80.66 | -1,357.29 | -4,796.24 | 4,714.58 | 4,542.03 | 172.55 | 27.322 | | |
| 4,600.00 | 4,468.73 | 4,422.73 | 4,468.73 | 23.84 | 152.69 | 80.96 | -1,357.29 | -4,796.24 | 4,710.34 | 4,533.87 | 176.47 | 26.693 | | |
| 4,700.00 | 4,565.37 | 4,519.37 | 4,565.37 | 24.38 | 156.06 | 81.26 | -1,357.29 | -4,796.24 | 4,706.23 | 4,525.85 | 180.38 | 26.091 | | |
| 4,800.00 | 4,662.01 | 4,616.01 | 4,662.01 | 24.91 | 159.43 | 81.56 | -1,357.29 | -4,796.24 | 4,702.26 | 4,517.97 | 184.29 | 25.516 | | |
| 4,900.00 | 4,758.64 | 4,712.64 | 4,758.64 | 25.45 | 162.81 | 81.86 | -1,357.29 | -4,796.24 | 4,698.43 | 4,510.23 | 188.20 | 24.965 | | |
| 5,000.00 | 4,855.28 | 4,809.28 | 4,855.28 | 25.99 | 166.18 | 82.16 | -1,357.29 | -4,796.24 | 4,694.73 | 4,502.62 | 192.11 | 24.437 | | |
| 5,100.00 | 4,951.92 | 4,905.92 | 4,951.92 | 26.53 | 169.55 | 82.46 | -1,357.29 | -4,796.24 | 4,691.17 | 4,495.15 | 196.03 | 23.931 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURMAN 16-42(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,002.56 | 5,048.56 | 27.06 | 172.93 | 82.76 | -1,357.29 | -4,796.24 | 4,687.75 | 4,487.82 | 199.94 | 23.446 | | |
| 5,300.00 | 5,145.19 | 5,100.81 | 5,145.19 | 27.60 | 176.35 | 83.07 | -1,357.29 | -4,796.24 | 4,684.47 | 4,480.57 | 203.91 | 22.974 | | |
| 5,400.00 | 5,241.83 | 5,204.17 | 5,241.83 | 28.14 | 179.96 | 83.37 | -1,357.29 | -4,796.24 | 4,681.33 | 4,473.28 | 208.06 | 22.500 | | |
| 5,500.00 | 5,338.47 | 5,307.53 | 5,338.47 | 28.67 | 183.57 | 83.67 | -1,357.29 | -4,796.24 | 4,678.33 | 4,466.13 | 212.20 | 22.046 | | |
| 5,600.00 | 5,435.11 | 5,389.11 | 5,435.11 | 29.21 | 186.42 | 83.97 | -1,357.29 | -4,796.24 | 4,675.47 | 4,459.88 | 215.59 | 21.687 | | |
| 5,700.00 | 5,531.74 | 5,485.74 | 5,531.74 | 29.75 | 189.79 | 84.28 | -1,357.29 | -4,796.24 | 4,672.75 | 4,453.24 | 219.51 | 21.288 | | |
| 5,800.00 | 5,628.38 | 5,582.38 | 5,628.38 | 30.29 | 193.16 | 84.58 | -1,357.29 | -4,796.24 | 4,670.16 | 4,446.74 | 223.42 | 20.903 | | |
| 5,900.00 | 5,725.02 | 5,679.02 | 5,725.02 | 30.83 | 196.54 | 84.88 | -1,357.29 | -4,796.24 | 4,667.72 | 4,440.39 | 227.33 | 20.532 | | |
| 6,000.00 | 5,821.66 | 5,775.66 | 5,821.66 | 31.37 | 199.91 | 85.19 | -1,357.29 | -4,796.24 | 4,665.42 | 4,434.17 | 231.25 | 20.175 | | |
| 6,100.00 | 5,918.29 | 5,872.29 | 5,918.29 | 31.90 | 203.28 | 85.49 | -1,357.29 | -4,796.24 | 4,663.26 | 4,428.09 | 235.16 | 19.830 | | |
| 6,200.00 | 6,014.93 | 5,968.93 | 6,014.93 | 32.44 | 206.66 | 85.80 | -1,357.29 | -4,796.24 | 4,661.23 | 4,422.16 | 239.08 | 19.497 | | |
| 6,300.00 | 6,111.57 | 6,065.57 | 6,111.57 | 32.98 | 210.03 | 86.10 | -1,357.29 | -4,796.24 | 4,659.36 | 4,416.36 | 242.99 | 19.175 | | |
| 6,400.00 | 6,208.21 | 6,162.21 | 6,208.21 | 33.52 | 213.40 | 86.41 | -1,357.29 | -4,796.24 | 4,657.62 | 4,410.71 | 246.91 | 18.864 | | |
| 6,500.00 | 6,304.84 | 6,258.84 | 6,304.84 | 34.06 | 216.78 | 86.71 | -1,357.29 | -4,796.24 | 4,656.02 | 4,405.20 | 250.82 | 18.563 | | |
| 6,600.00 | 6,401.37 | 6,355.37 | 6,401.37 | 34.60 | 220.15 | 87.03 | -1,357.29 | -4,796.24 | 4,652.39 | 4,397.66 | 254.73 | 18.264 | | |
| 6,700.00 | 6,496.25 | 6,450.25 | 6,496.25 | 35.12 | 223.46 | 87.23 | -1,357.29 | -4,796.24 | 4,635.06 | 4,376.50 | 258.56 | 17.926 | | |
| 6,800.00 | 6,587.15 | 6,541.15 | 6,587.15 | 35.59 | 226.63 | 87.34 | -1,357.29 | -4,796.24 | 4,602.72 | 4,340.52 | 262.21 | 17.554 | | |
| 6,900.00 | 6,671.83 | 6,625.83 | 6,671.83 | 36.03 | 229.59 | 29.96 | -1,357.29 | -4,796.24 | 4,556.16 | 4,290.57 | 265.59 | 17.155 | | |
| 7,000.00 | 6,748.21 | 6,702.21 | 6,748.21 | 36.41 | 232.25 | 26.58 | -1,357.29 | -4,796.24 | 4,496.51 | 4,227.88 | 268.63 | 16.739 | | |
| 7,100.00 | 6,814.41 | 6,768.41 | 6,814.41 | 36.76 | 234.56 | 25.15 | -1,357.29 | -4,796.24 | 4,425.21 | 4,153.95 | 271.26 | 16.313 | | |
| 7,200.00 | 6,868.79 | 6,822.79 | 6,868.79 | 37.07 | 236.46 | 25.42 | -1,357.29 | -4,796.24 | 4,344.00 | 4,070.57 | 273.43 | 15.887 | | |
| 7,300.00 | 6,910.01 | 6,864.01 | 6,910.01 | 37.39 | 237.90 | 27.95 | -1,357.29 | -4,796.24 | 4,254.84 | 3,979.77 | 275.08 | 15.468 | | |
| 7,400.00 | 6,937.07 | 6,908.93 | 6,937.07 | 37.76 | 239.47 | 35.56 | -1,357.29 | -4,796.24 | 4,159.90 | 3,883.10 | 276.80 | 15.028 | | |
| 7,500.00 | 6,949.29 | 6,903.29 | 6,949.29 | 38.27 | 239.27 | 65.48 | -1,357.29 | -4,796.24 | 4,061.48 | 3,784.77 | 276.71 | 14.678 | | |
| 7,600.00 | 6,949.75 | 6,903.75 | 6,949.75 | 39.02 | 239.29 | 92.38 | -1,357.29 | -4,796.24 | 3,961.91 | 3,685.12 | 276.80 | 14.313 | | |
| 7,700.00 | 6,949.37 | 6,903.37 | 6,949.37 | 40.05 | 239.27 | 92.32 | -1,357.29 | -4,796.24 | 3,862.34 | 3,585.48 | 276.86 | 13.951 | | |
| 7,800.00 | 6,948.99 | 6,902.99 | 6,948.99 | 41.35 | 239.26 | 92.26 | -1,357.29 | -4,796.24 | 3,762.79 | 3,485.87 | 276.92 | 13.588 | | |
| 7,900.00 | 6,948.61 | 6,902.61 | 6,948.61 | 42.86 | 239.25 | 92.20 | -1,357.29 | -4,796.24 | 3,663.26 | 3,386.26 | 277.00 | 13.225 | | |
| 8,000.00 | 6,948.23 | 6,902.23 | 6,948.23 | 44.53 | 239.23 | 92.14 | -1,357.29 | -4,796.24 | 3,563.76 | 3,286.68 | 277.08 | 12.862 | | |
| 8,100.00 | 6,947.85 | 6,901.85 | 6,947.85 | 46.34 | 239.22 | 92.08 | -1,357.29 | -4,796.24 | 3,464.28 | 3,187.12 | 277.17 | 12.499 | | |
| 8,200.00 | 6,947.47 | 6,901.47 | 6,947.47 | 48.26 | 239.21 | 92.02 | -1,357.29 | -4,796.24 | 3,364.84 | 3,087.57 | 277.27 | 12.136 | | |
| 8,300.00 | 6,947.09 | 6,901.09 | 6,947.09 | 50.28 | 239.19 | 91.96 | -1,357.29 | -4,796.24 | 3,265.43 | 2,988.05 | 277.38 | 11.772 | | |
| 8,400.00 | 6,946.72 | 6,900.72 | 6,946.72 | 52.39 | 239.18 | 91.90 | -1,357.29 | -4,796.24 | 3,166.06 | 2,888.56 | 277.51 | 11.409 | | |
| 8,500.00 | 6,946.34 | 6,900.34 | 6,946.34 | 54.56 | 239.17 | 91.84 | -1,357.29 | -4,796.24 | 3,066.73 | 2,789.09 | 277.65 | 11.045 | | |
| 8,600.00 | 6,945.96 | 6,900.04 | 6,945.96 | 56.80 | 239.16 | 91.78 | -1,357.29 | -4,796.24 | 2,967.45 | 2,689.65 | 277.80 | 10.682 | | |
| 8,700.00 | 6,945.58 | 6,900.42 | 6,945.58 | 59.10 | 239.17 | 91.72 | -1,357.29 | -4,796.24 | 2,868.22 | 2,590.21 | 278.00 | 10.317 | | |
| 8,800.00 | 6,945.20 | 6,900.80 | 6,945.20 | 61.44 | 239.18 | 91.66 | -1,357.29 | -4,796.24 | 2,769.04 | 2,490.81 | 278.22 | 9.953 | | |
| 8,900.00 | 6,944.82 | 6,901.18 | 6,944.82 | 63.83 | 239.20 | 91.60 | -1,357.29 | -4,796.24 | 2,669.92 | 2,391.45 | 278.46 | 9.588 | | |
| 9,000.00 | 6,944.44 | 6,901.56 | 6,944.44 | 66.25 | 239.21 | 91.54 | -1,357.29 | -4,796.24 | 2,570.87 | 2,292.13 | 278.73 | 9.223 | | |
| 9,100.00 | 6,944.06 | 6,901.94 | 6,944.06 | 68.71 | 239.22 | 91.48 | -1,357.29 | -4,796.24 | 2,471.89 | 2,192.86 | 279.03 | 8.859 | | |
| 9,200.00 | 6,943.68 | 6,902.32 | 6,943.68 | 71.20 | 239.24 | 91.42 | -1,357.29 | -4,796.24 | 2,373.00 | 2,093.64 | 279.37 | 8.494 | | |
| 9,300.00 | 6,943.30 | 6,902.70 | 6,943.30 | 73.72 | 239.25 | 91.36 | -1,357.29 | -4,796.24 | 2,274.21 | 1,994.47 | 279.74 | 8.130 | | |
| 9,400.00 | 6,942.92 | 6,903.08 | 6,942.92 | 76.26 | 239.26 | 91.30 | -1,357.29 | -4,796.24 | 2,175.53 | 1,895.37 | 280.16 | 7.765 | | |
| 9,500.00 | 6,942.54 | 6,903.46 | 6,942.54 | 78.82 | 239.28 | 91.23 | -1,357.29 | -4,796.24 | 2,076.98 | 1,796.33 | 280.64 | 7.401 | | |
| 9,600.00 | 6,942.16 | 6,903.84 | 6,942.16 | 81.40 | 239.29 | 91.17 | -1,357.29 | -4,796.24 | 1,978.57 | 1,697.38 | 281.19 | 7.036 | | |
| 9,700.00 | 6,941.78 | 6,904.22 | 6,941.78 | 84.00 | 239.30 | 91.11 | -1,357.29 | -4,796.24 | 1,880.32 | 1,598.51 | 281.82 | 6.672 | | |
| 9,800.00 | 6,941.40 | 6,904.60 | 6,941.40 | 86.62 | 239.32 | 91.05 | -1,357.29 | -4,796.24 | 1,782.28 | 1,499.74 | 282.54 | 6.308 | | |
| 9,900.00 | 6,941.03 | 6,904.97 | 6,941.03 | 89.25 | 239.33 | 90.99 | -1,357.29 | -4,796.24 | 1,684.46 | 1,401.09 | 283.37 | 5.944 | | |
| 10,000.00 | 6,940.65 | 6,905.35 | 6,940.65 | 91.90 | 239.34 | 90.93 | -1,357.29 | -4,796.24 | 1,586.92 | 1,302.57 | 284.35 | 5.581 | | |
| 10,100.00 | 6,940.27 | 6,905.73 | 6,940.27 | 94.56 | 239.36 | 90.87 | -1,357.29 | -4,796.24 | 1,489.70 | 1,204.20 | 285.49 | 5.218 | | |
| 10,200.00 | 6,939.89 | 6,906.11 | 6,939.89 | 97.23 | 239.37 | 90.81 | -1,357.29 | -4,796.24 | 1,392.87 | 1,106.02 | 286.85 | 4.856 | | |
| 10,300.00 | 6,939.51 | 6,906.49 | 6,939.51 | 99.91 | 239.38 | 90.75 | -1,357.29 | -4,796.24 | 1,296.53 | 1,008.05 | 288.47 | 4.494 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURMAN 16-42(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,906.87 | 6,939.13 | 102.60 | 239.40 | 90.69 | -1,357.29 | -4,796.24 | 1,200.78 | 910.36 | 290.43 | 4.135 | | |
| 10,500.00 | 6,938.75 | 6,907.25 | 6,938.75 | 105.30 | 239.41 | 90.63 | -1,357.29 | -4,796.24 | 1,105.79 | 812.99 | 292.80 | 3.777 | | |
| 10,600.00 | 6,938.37 | 6,907.63 | 6,938.37 | 108.00 | 239.42 | 90.57 | -1,357.29 | -4,796.24 | 1,011.76 | 716.05 | 295.71 | 3.421 | | |
| 10,700.00 | 6,937.99 | 6,908.01 | 6,937.99 | 110.72 | 239.44 | 90.51 | -1,357.29 | -4,796.24 | 918.99 | 619.68 | 299.32 | 3.070 | | |
| 10,800.00 | 6,937.61 | 6,908.39 | 6,937.61 | 113.44 | 239.45 | 90.45 | -1,357.29 | -4,796.24 | 827.91 | 524.09 | 303.83 | 2.725 | | |
| 10,900.00 | 6,937.23 | 6,908.77 | 6,937.23 | 116.17 | 239.46 | 90.39 | -1,357.29 | -4,796.24 | 739.14 | 429.63 | 309.51 | 2.388 | | |
| 11,000.00 | 6,936.85 | 6,909.15 | 6,936.85 | 118.90 | 239.48 | 90.33 | -1,357.29 | -4,796.24 | 653.62 | 336.92 | 316.71 | 2.064 | | |
| 11,100.00 | 6,936.47 | 6,909.53 | 6,936.47 | 121.64 | 239.49 | 90.27 | -1,357.29 | -4,796.24 | 572.81 | 247.03 | 325.78 | 1.758 | | |
| 11,200.00 | 6,936.09 | 6,909.91 | 6,936.09 | 124.39 | 239.50 | 90.21 | -1,357.29 | -4,796.24 | 499.01 | 162.01 | 336.99 | 1.481 | Level 3 | |
| 11,300.00 | 6,935.71 | 6,889.71 | 6,935.71 | 127.14 | 238.80 | 90.15 | -1,357.29 | -4,796.24 | 435.77 | 86.49 | 349.28 | 1.248 | Level 2 | |
| 11,400.00 | 6,935.34 | 6,889.34 | 6,935.34 | 129.90 | 238.78 | 90.09 | -1,357.29 | -4,796.24 | 388.31 | 26.09 | 362.22 | 1.072 | Level 2 | |
| 11,500.00 | 6,934.96 | 6,888.96 | 6,934.96 | 132.66 | 238.77 | 90.03 | -1,357.29 | -4,796.24 | 362.87 | -8.22 | 371.09 | 0.978 | Level 1 | |
| 11,545.55 | 6,934.78 | 6,888.78 | 6,934.78 | 133.92 | 238.76 | 90.00 | -1,357.29 | -4,796.24 | 360.00 | -12.52 | 372.52 | 0.966 | Level 1, CC, ES, SF | |
| 11,600.00 | 6,934.58 | 6,888.58 | 6,934.58 | 135.42 | 238.76 | 89.97 | -1,357.29 | -4,796.24 | 364.10 | -7.58 | 371.68 | 0.980 | Level 1 | |
| 11,700.00 | 6,934.20 | 6,888.20 | 6,934.20 | 138.19 | 238.74 | 89.91 | -1,357.29 | -4,796.24 | 391.73 | 27.73 | 364.00 | 1.076 | Level 2 | |
| 11,800.00 | 6,933.82 | 6,887.82 | 6,933.82 | 140.96 | 238.73 | 89.85 | -1,357.29 | -4,796.24 | 440.84 | 88.64 | 352.20 | 1.252 | Level 3 | |
| 11,900.00 | 6,933.44 | 6,887.44 | 6,933.44 | 143.74 | 238.72 | 89.79 | -1,357.29 | -4,796.24 | 505.21 | 165.05 | 340.15 | 1.485 | Level 3 | |
| 12,000.00 | 6,933.06 | 6,887.06 | 6,933.06 | 146.51 | 238.70 | 89.73 | -1,357.29 | -4,796.24 | 579.76 | 250.12 | 329.64 | 1.759 | | |
| 12,100.00 | 6,932.68 | 6,886.68 | 6,932.68 | 149.30 | 238.69 | 89.67 | -1,357.29 | -4,796.24 | 661.07 | 340.04 | 321.03 | 2.059 | | |
| 12,200.00 | 6,932.30 | 6,886.30 | 6,932.30 | 152.08 | 238.68 | 89.60 | -1,357.29 | -4,796.24 | 746.92 | 432.80 | 314.13 | 2.378 | | |
| 12,300.00 | 6,931.92 | 6,885.92 | 6,931.92 | 154.87 | 238.67 | 89.54 | -1,357.29 | -4,796.24 | 835.93 | 527.32 | 308.61 | 2.709 | | |
| 12,400.00 | 6,931.54 | 6,885.54 | 6,931.54 | 157.66 | 238.65 | 89.48 | -1,357.29 | -4,796.24 | 927.18 | 622.99 | 304.19 | 3.048 | | |
| 12,500.00 | 6,931.16 | 6,885.16 | 6,931.16 | 160.45 | 238.64 | 89.42 | -1,357.29 | -4,796.24 | 1,020.08 | 719.46 | 300.62 | 3.393 | | |
| 12,600.00 | 6,930.78 | 6,884.78 | 6,930.78 | 163.24 | 238.63 | 89.36 | -1,357.29 | -4,796.24 | 1,114.20 | 816.50 | 297.71 | 3.743 | | |
| 12,700.00 | 6,930.40 | 6,884.40 | 6,930.40 | 166.04 | 238.61 | 89.30 | -1,357.29 | -4,796.24 | 1,209.27 | 913.96 | 295.31 | 4.095 | | |
| 12,800.00 | 6,930.03 | 6,884.03 | 6,930.03 | 168.84 | 238.60 | 89.24 | -1,357.29 | -4,796.24 | 1,305.07 | 1,011.76 | 293.31 | 4.449 | | |
| 12,900.00 | 6,929.65 | 6,883.65 | 6,929.65 | 171.64 | 238.59 | 89.18 | -1,357.29 | -4,796.24 | 1,401.46 | 1,109.82 | 291.64 | 4.805 | | |
| 13,000.00 | 6,929.27 | 6,883.27 | 6,929.27 | 174.44 | 238.57 | 89.12 | -1,357.29 | -4,796.24 | 1,498.33 | 1,208.09 | 290.24 | 5.162 | | |
| 13,100.00 | 6,928.89 | 6,882.89 | 6,928.89 | 177.24 | 238.56 | 89.06 | -1,357.29 | -4,796.24 | 1,595.58 | 1,306.54 | 289.04 | 5.520 | | |
| 13,200.00 | 6,928.51 | 6,882.51 | 6,928.51 | 180.05 | 238.55 | 89.00 | -1,357.29 | -4,796.24 | 1,693.15 | 1,405.13 | 288.02 | 5.879 | | |
| 13,300.00 | 6,928.13 | 6,882.13 | 6,928.13 | 182.86 | 238.53 | 88.94 | -1,357.29 | -4,796.24 | 1,790.99 | 1,503.85 | 287.14 | 6.237 | | |
| 13,400.00 | 6,927.75 | 6,881.75 | 6,927.75 | 185.67 | 238.52 | 88.88 | -1,357.29 | -4,796.24 | 1,889.05 | 1,602.68 | 286.37 | 6.596 | | |
| 13,500.00 | 6,927.37 | 6,881.37 | 6,927.37 | 188.48 | 238.51 | 88.82 | -1,357.29 | -4,796.24 | 1,987.31 | 1,701.60 | 285.71 | 6.956 | | |
| 13,600.00 | 6,926.99 | 6,880.99 | 6,926.99 | 191.29 | 238.49 | 88.76 | -1,357.29 | -4,796.24 | 2,085.74 | 1,800.60 | 285.14 | 7.315 | | |
| 13,700.00 | 6,926.61 | 6,880.61 | 6,926.61 | 194.10 | 238.48 | 88.70 | -1,357.29 | -4,796.24 | 2,184.30 | 1,899.67 | 284.63 | 7.674 | | |
| 13,800.00 | 6,926.23 | 6,880.23 | 6,926.23 | 196.92 | 238.47 | 88.64 | -1,357.29 | -4,796.24 | 2,282.99 | 1,998.81 | 284.19 | 8.033 | | |
| 13,900.00 | 6,925.85 | 6,879.85 | 6,925.85 | 199.73 | 238.45 | 88.58 | -1,357.29 | -4,796.24 | 2,381.79 | 2,098.00 | 283.80 | 8.393 | | |
| 14,000.00 | 6,925.47 | 6,879.47 | 6,925.47 | 202.55 | 238.44 | 88.52 | -1,357.29 | -4,796.24 | 2,480.69 | 2,197.24 | 283.45 | 8.752 | | |
| 14,100.00 | 6,925.09 | 6,879.09 | 6,925.09 | 205.37 | 238.43 | 88.46 | -1,357.29 | -4,796.24 | 2,579.67 | 2,296.52 | 283.15 | 9.111 | | |
| 14,200.00 | 6,924.71 | 6,878.71 | 6,924.71 | 208.19 | 238.41 | 88.40 | -1,357.29 | -4,796.24 | 2,678.73 | 2,395.85 | 282.88 | 9.470 | | |
| 14,300.00 | 6,924.34 | 6,878.34 | 6,924.34 | 211.01 | 238.40 | 88.34 | -1,357.29 | -4,796.24 | 2,777.85 | 2,495.22 | 282.64 | 9.828 | | |
| 14,400.00 | 6,923.96 | 6,877.96 | 6,923.96 | 213.83 | 238.39 | 88.28 | -1,357.29 | -4,796.24 | 2,877.04 | 2,594.61 | 282.42 | 10.187 | | |
| 14,500.00 | 6,923.58 | 6,877.58 | 6,923.58 | 216.65 | 238.37 | 88.22 | -1,357.29 | -4,796.24 | 2,976.28 | 2,694.04 | 282.24 | 10.545 | | |
| 14,600.00 | 6,923.20 | 6,877.20 | 6,923.20 | 219.48 | 238.36 | 88.16 | -1,357.29 | -4,796.24 | 3,075.57 | 2,793.50 | 282.07 | 10.904 | | |
| 14,700.00 | 6,922.82 | 6,876.82 | 6,922.82 | 222.30 | 238.35 | 88.10 | -1,357.29 | -4,796.24 | 3,174.90 | 2,892.98 | 281.92 | 11.262 | | |
| 14,800.00 | 6,922.44 | 6,876.44 | 6,922.44 | 225.13 | 238.33 | 88.04 | -1,357.29 | -4,796.24 | 3,274.27 | 2,992.49 | 281.79 | 11.620 | | |
| 14,900.00 | 6,922.06 | 6,876.06 | 6,922.06 | 227.95 | 238.32 | 87.98 | -1,357.29 | -4,796.24 | 3,373.69 | 3,092.02 | 281.67 | 11.977 | | |
| 14,915.55 | 6,922.00 | 6,876.00 | 6,922.00 | 228.39 | 238.32 | 87.97 | -1,357.29 | -4,796.24 | 3,389.15 | 3,107.49 | 281.65 | 12.033 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURMAN 16-43(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 49.00 | 3.28 | 3.28 | -120.76 | -2,858.23 | -4,802.09 | 5,588.56 | | | | | |
| 100.00 | 100.00 | 51.00 | 100.00 | 3.28 | 3.40 | -120.76 | -2,858.23 | -4,802.09 | 5,588.34 | 5,581.66 | 6.68 | 836.155 | | |
| 200.00 | 200.00 | 151.00 | 200.00 | 3.34 | 4.82 | -120.76 | -2,858.23 | -4,802.09 | 5,588.34 | 5,580.19 | 8.15 | 685.461 | | |
| 300.00 | 299.98 | 250.98 | 299.98 | 3.44 | 7.75 | 53.89 | -2,858.23 | -4,802.09 | 5,587.31 | 5,576.13 | 11.18 | 499.554 | | |
| 400.00 | 399.84 | 350.84 | 399.84 | 3.59 | 11.00 | 53.98 | -2,858.23 | -4,802.09 | 5,584.23 | 5,569.64 | 14.59 | 382.686 | | |
| 500.00 | 499.45 | 450.45 | 499.45 | 3.79 | 14.36 | 54.14 | -2,858.23 | -4,802.09 | 5,579.10 | 5,560.95 | 18.15 | 307.428 | | |
| 600.00 | 598.70 | 549.70 | 598.70 | 4.03 | 17.75 | 54.35 | -2,858.23 | -4,802.09 | 5,571.95 | 5,550.16 | 21.78 | 255.817 | | |
| 700.00 | 697.47 | 648.47 | 697.47 | 4.31 | 21.15 | 54.63 | -2,858.23 | -4,802.09 | 5,562.79 | 5,537.32 | 25.46 | 218.480 | | |
| 800.00 | 795.62 | 746.62 | 795.62 | 4.64 | 24.54 | 54.98 | -2,858.23 | -4,802.09 | 5,551.65 | 5,522.48 | 29.17 | 190.315 | | |
| 900.00 | 893.06 | 844.06 | 893.06 | 5.00 | 27.91 | 55.38 | -2,858.23 | -4,802.09 | 5,538.58 | 5,505.68 | 32.90 | 168.359 | | |
| 1,000.00 | 989.78 | 940.78 | 989.78 | 5.39 | 31.27 | 55.70 | -2,858.23 | -4,802.09 | 5,523.91 | 5,487.28 | 36.63 | 150.784 | | |
| 1,100.00 | 1,086.42 | 1,037.42 | 1,086.42 | 5.81 | 34.63 | 55.92 | -2,858.23 | -4,802.09 | 5,509.12 | 5,468.73 | 40.39 | 136.388 | | |
| 1,200.00 | 1,183.06 | 1,134.06 | 1,183.06 | 6.25 | 37.99 | 56.13 | -2,858.23 | -4,802.09 | 5,494.41 | 5,450.24 | 44.17 | 124.386 | | |
| 1,300.00 | 1,279.69 | 1,230.69 | 1,279.69 | 6.71 | 41.35 | 56.35 | -2,858.23 | -4,802.09 | 5,479.79 | 5,431.82 | 47.97 | 114.235 | | |
| 1,400.00 | 1,376.33 | 1,327.33 | 1,376.33 | 7.17 | 44.71 | 56.57 | -2,858.23 | -4,802.09 | 5,465.24 | 5,413.46 | 51.78 | 105.547 | | |
| 1,500.00 | 1,472.97 | 1,423.97 | 1,472.97 | 7.65 | 48.08 | 56.79 | -2,858.23 | -4,802.09 | 5,450.78 | 5,395.18 | 55.60 | 98.031 | | |
| 1,600.00 | 1,569.61 | 1,520.61 | 1,569.61 | 8.13 | 51.44 | 57.01 | -2,858.23 | -4,802.09 | 5,436.40 | 5,376.97 | 59.43 | 91.469 | | |
| 1,700.00 | 1,666.24 | 1,617.24 | 1,666.24 | 8.62 | 54.81 | 57.23 | -2,858.23 | -4,802.09 | 5,422.10 | 5,358.83 | 63.27 | 85.692 | | |
| 1,800.00 | 1,762.88 | 1,713.88 | 1,762.88 | 9.12 | 58.18 | 57.46 | -2,858.23 | -4,802.09 | 5,407.89 | 5,340.77 | 67.12 | 80.568 | | |
| 1,900.00 | 1,859.52 | 1,810.52 | 1,859.52 | 9.62 | 61.55 | 57.68 | -2,858.23 | -4,802.09 | 5,393.77 | 5,322.79 | 70.97 | 75.995 | | |
| 2,000.00 | 1,956.16 | 1,907.16 | 1,956.16 | 10.13 | 64.92 | 57.91 | -2,858.23 | -4,802.09 | 5,379.73 | 5,304.89 | 74.83 | 71.890 | | |
| 2,100.00 | 2,052.79 | 2,003.79 | 2,052.79 | 10.64 | 68.29 | 58.14 | -2,858.23 | -4,802.09 | 5,365.77 | 5,287.08 | 78.70 | 68.184 | | |
| 2,200.00 | 2,149.43 | 2,100.43 | 2,149.43 | 11.15 | 71.66 | 58.36 | -2,858.23 | -4,802.09 | 5,351.91 | 5,269.35 | 82.56 | 64.823 | | |
| 2,300.00 | 2,246.07 | 2,202.93 | 2,246.07 | 11.66 | 75.23 | 58.59 | -2,858.23 | -4,802.09 | 5,338.13 | 5,251.49 | 86.64 | 61.615 | | |
| 2,400.00 | 2,342.71 | 2,306.29 | 2,342.71 | 12.18 | 78.84 | 58.82 | -2,858.23 | -4,802.09 | 5,324.44 | 5,233.69 | 90.74 | 58.675 | | |
| 2,500.00 | 2,439.34 | 2,409.66 | 2,439.34 | 12.70 | 82.44 | 59.06 | -2,858.23 | -4,802.09 | 5,310.84 | 5,215.98 | 94.85 | 55.989 | | |
| 2,600.00 | 2,535.98 | 2,486.98 | 2,535.98 | 13.22 | 85.14 | 59.29 | -2,858.23 | -4,802.09 | 5,297.33 | 5,199.27 | 98.06 | 54.021 | | |
| 2,700.00 | 2,632.62 | 2,583.62 | 2,632.62 | 13.75 | 88.51 | 59.52 | -2,858.23 | -4,802.09 | 5,283.91 | 5,181.97 | 101.94 | 51.833 | | |
| 2,800.00 | 2,729.26 | 2,680.26 | 2,729.26 | 14.27 | 91.88 | 59.76 | -2,858.23 | -4,802.09 | 5,270.58 | 5,164.75 | 105.82 | 49.805 | | |
| 2,900.00 | 2,825.89 | 2,776.89 | 2,825.89 | 14.80 | 95.25 | 59.99 | -2,858.23 | -4,802.09 | 5,257.34 | 5,147.63 | 109.71 | 47.921 | | |
| 3,000.00 | 2,922.53 | 2,873.53 | 2,922.53 | 15.32 | 98.62 | 60.23 | -2,858.23 | -4,802.09 | 5,244.20 | 5,130.60 | 113.59 | 46.166 | | |
| 3,100.00 | 3,019.17 | 2,970.17 | 3,019.17 | 15.85 | 102.00 | 60.47 | -2,858.23 | -4,802.09 | 5,231.14 | 5,113.66 | 117.48 | 44.527 | | |
| 3,200.00 | 3,115.81 | 3,066.81 | 3,115.81 | 16.38 | 105.37 | 60.71 | -2,858.23 | -4,802.09 | 5,218.19 | 5,096.82 | 121.37 | 42.993 | | |
| 3,300.00 | 3,212.44 | 3,163.44 | 3,212.44 | 16.91 | 108.74 | 60.95 | -2,858.23 | -4,802.09 | 5,205.33 | 5,080.06 | 125.26 | 41.555 | | |
| 3,400.00 | 3,309.08 | 3,260.08 | 3,309.08 | 17.44 | 112.11 | 61.19 | -2,858.23 | -4,802.09 | 5,192.56 | 5,063.40 | 129.16 | 40.204 | | |
| 3,500.00 | 3,405.72 | 3,356.72 | 3,405.72 | 17.97 | 115.48 | 61.43 | -2,858.23 | -4,802.09 | 5,179.89 | 5,046.84 | 133.05 | 38.932 | | |
| 3,600.00 | 3,502.36 | 3,453.36 | 3,502.36 | 18.50 | 118.86 | 61.68 | -2,858.23 | -4,802.09 | 5,167.31 | 5,030.37 | 136.94 | 37.733 | | |
| 3,700.00 | 3,598.99 | 3,549.99 | 3,598.99 | 19.03 | 122.23 | 61.92 | -2,858.23 | -4,802.09 | 5,154.84 | 5,014.00 | 140.84 | 36.601 | | |
| 3,800.00 | 3,695.63 | 3,646.63 | 3,695.63 | 19.57 | 125.60 | 62.17 | -2,858.23 | -4,802.09 | 5,142.46 | 4,997.72 | 144.74 | 35.530 | | |
| 3,900.00 | 3,792.27 | 3,743.27 | 3,792.27 | 20.10 | 128.97 | 62.41 | -2,858.23 | -4,802.09 | 5,130.18 | 4,981.55 | 148.64 | 34.515 | | |
| 4,000.00 | 3,888.91 | 3,839.91 | 3,888.91 | 20.63 | 132.35 | 62.66 | -2,858.23 | -4,802.09 | 5,118.00 | 4,965.47 | 152.53 | 33.553 | | |
| 4,100.00 | 3,985.54 | 3,936.54 | 3,985.54 | 21.17 | 135.72 | 62.91 | -2,858.23 | -4,802.09 | 5,105.92 | 4,949.49 | 156.43 | 32.639 | | |
| 4,200.00 | 4,082.18 | 4,033.18 | 4,082.18 | 21.70 | 139.09 | 63.16 | -2,858.23 | -4,802.09 | 5,093.95 | 4,933.61 | 160.34 | 31.770 | | |
| 4,300.00 | 4,178.82 | 4,129.82 | 4,178.82 | 22.24 | 142.46 | 63.42 | -2,858.23 | -4,802.09 | 5,082.07 | 4,917.83 | 164.24 | 30.943 | | |
| 4,400.00 | 4,275.46 | 4,226.46 | 4,275.46 | 22.77 | 145.84 | 63.67 | -2,858.23 | -4,802.09 | 5,070.30 | 4,902.16 | 168.14 | 30.155 | | |
| 4,500.00 | 4,372.09 | 4,323.09 | 4,372.09 | 23.31 | 149.21 | 63.92 | -2,858.23 | -4,802.09 | 5,058.63 | 4,886.59 | 172.04 | 29.403 | | |
| 4,600.00 | 4,468.73 | 4,419.73 | 4,468.73 | 23.84 | 152.58 | 64.18 | -2,858.23 | -4,802.09 | 5,047.06 | 4,871.12 | 175.95 | 28.685 | | |
| 4,700.00 | 4,565.37 | 4,516.37 | 4,565.37 | 24.38 | 155.96 | 64.43 | -2,858.23 | -4,802.09 | 5,035.60 | 4,855.75 | 179.85 | 27.998 | | |
| 4,800.00 | 4,662.01 | 4,613.01 | 4,662.01 | 24.91 | 159.33 | 64.69 | -2,858.23 | -4,802.09 | 5,024.25 | 4,840.49 | 183.76 | 27.341 | | |
| 4,900.00 | 4,758.64 | 4,709.64 | 4,758.64 | 25.45 | 162.70 | 64.95 | -2,858.23 | -4,802.09 | 5,013.00 | 4,825.33 | 187.67 | 26.712 | | |
| 5,000.00 | 4,855.28 | 4,806.28 | 4,855.28 | 25.99 | 166.07 | 65.21 | -2,858.23 | -4,802.09 | 5,001.86 | 4,810.28 | 191.57 | 26.109 | | |
| 5,100.00 | 4,951.92 | 4,902.92 | 4,951.92 | 26.53 | 169.45 | 65.47 | -2,858.23 | -4,802.09 | 4,990.82 | 4,795.34 | 195.48 | 25.531 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURMAN 16-43(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------|---------|-------------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | Minimum Separation (ft) | |
| 5,200.00 | 5,048.56 | 5,000.44 | 5,048.56 | 27.06 | 172.85 | 65.73 | -2,858.23 | -4,802.09 | 4,979.89 | 4,780.47 | 199.42 | 24.972 | | |
| 5,300.00 | 5,145.19 | 5,103.81 | 5,145.19 | 27.60 | 176.46 | 65.99 | -2,858.23 | -4,802.09 | 4,969.08 | 4,765.51 | 203.56 | 24.410 | | |
| 5,400.00 | 5,241.83 | 5,207.17 | 5,241.83 | 28.14 | 180.07 | 66.26 | -2,858.23 | -4,802.09 | 4,958.37 | 4,750.66 | 207.71 | 23.872 | | |
| 5,500.00 | 5,338.47 | 5,289.47 | 5,338.47 | 28.67 | 182.94 | 66.52 | -2,858.23 | -4,802.09 | 4,947.77 | 4,736.65 | 211.12 | 23.436 | | |
| 5,600.00 | 5,435.11 | 5,386.11 | 5,435.11 | 29.21 | 186.31 | 66.79 | -2,858.23 | -4,802.09 | 4,937.29 | 4,722.26 | 215.03 | 22.961 | | |
| 5,700.00 | 5,531.74 | 5,482.74 | 5,531.74 | 29.75 | 189.69 | 67.05 | -2,858.23 | -4,802.09 | 4,926.91 | 4,707.97 | 218.94 | 22.503 | | |
| 5,800.00 | 5,628.38 | 5,579.38 | 5,628.38 | 30.29 | 193.06 | 67.32 | -2,858.23 | -4,802.09 | 4,916.65 | 4,693.80 | 222.85 | 22.062 | | |
| 5,900.00 | 5,725.02 | 5,676.02 | 5,725.02 | 30.83 | 196.43 | 67.59 | -2,858.23 | -4,802.09 | 4,906.50 | 4,679.74 | 226.77 | 21.637 | | |
| 6,000.00 | 5,821.66 | 5,772.66 | 5,821.66 | 31.37 | 199.81 | 67.86 | -2,858.23 | -4,802.09 | 4,896.47 | 4,665.79 | 230.68 | 21.226 | | |
| 6,100.00 | 5,918.29 | 5,869.29 | 5,918.29 | 31.90 | 203.18 | 68.13 | -2,858.23 | -4,802.09 | 4,886.55 | 4,651.96 | 234.59 | 20.830 | | |
| 6,200.00 | 6,014.93 | 5,965.93 | 6,014.93 | 32.44 | 206.55 | 68.41 | -2,858.23 | -4,802.09 | 4,876.74 | 4,638.24 | 238.51 | 20.447 | | |
| 6,300.00 | 6,111.57 | 6,062.57 | 6,111.57 | 32.98 | 209.92 | 68.68 | -2,858.23 | -4,802.09 | 4,867.06 | 4,624.64 | 242.42 | 20.077 | | |
| 6,400.00 | 6,208.21 | 6,159.21 | 6,208.21 | 33.52 | 213.30 | 68.95 | -2,858.23 | -4,802.09 | 4,857.49 | 4,611.15 | 246.34 | 19.719 | | |
| 6,500.00 | 6,304.84 | 6,255.84 | 6,304.84 | 34.06 | 216.67 | 69.23 | -2,858.23 | -4,802.09 | 4,848.03 | 4,597.78 | 250.25 | 19.373 | | |
| 6,600.00 | 6,401.37 | 6,352.37 | 6,401.37 | 34.60 | 220.04 | 69.50 | -2,858.23 | -4,802.09 | 4,836.60 | 4,582.44 | 254.16 | 19.030 | | |
| 6,700.00 | 6,496.25 | 6,447.25 | 6,496.25 | 35.12 | 223.35 | 69.78 | -2,858.23 | -4,802.09 | 4,812.05 | 4,554.07 | 257.98 | 18.653 | | |
| 6,800.00 | 6,587.15 | 6,538.15 | 6,587.15 | 35.59 | 226.53 | 70.05 | -2,858.23 | -4,802.09 | 4,773.23 | 4,511.63 | 261.60 | 18.246 | | |
| 6,900.00 | 6,671.83 | 6,622.83 | 6,671.83 | 36.03 | 229.48 | 70.32 | -2,858.23 | -4,802.09 | 4,721.06 | 4,456.11 | 264.95 | 17.818 | | |
| 7,000.00 | 6,748.21 | 6,700.79 | 6,748.21 | 36.41 | 232.20 | 70.59 | -2,858.23 | -4,802.09 | 4,656.79 | 4,388.79 | 268.00 | 17.376 | | |
| 7,100.00 | 6,814.41 | 6,765.41 | 6,814.41 | 36.76 | 234.46 | 70.86 | -2,858.23 | -4,802.09 | 4,581.99 | 4,311.48 | 270.51 | 16.938 | | |
| 7,200.00 | 6,868.79 | 6,819.79 | 6,868.79 | 37.07 | 236.36 | 71.13 | -2,858.23 | -4,802.09 | 4,498.51 | 4,225.92 | 272.59 | 16.503 | | |
| 7,300.00 | 6,910.01 | 6,861.01 | 6,910.01 | 37.39 | 237.80 | 71.40 | -2,858.23 | -4,802.09 | 4,408.43 | 4,134.30 | 274.13 | 16.082 | | |
| 7,400.00 | 6,937.07 | 6,888.07 | 6,937.07 | 37.76 | 238.74 | 71.67 | -2,858.23 | -4,802.09 | 4,314.01 | 4,038.91 | 275.10 | 15.681 | | |
| 7,500.00 | 6,949.29 | 6,900.29 | 6,949.29 | 38.27 | 239.17 | 71.94 | -2,858.23 | -4,802.09 | 4,217.65 | 3,942.15 | 275.50 | 15.309 | | |
| 7,600.00 | 6,949.75 | 6,900.75 | 6,949.75 | 39.02 | 239.18 | 72.21 | -2,858.23 | -4,802.09 | 4,121.42 | 3,845.95 | 275.47 | 14.962 | | |
| 7,700.00 | 6,949.37 | 6,900.37 | 6,949.37 | 40.05 | 239.17 | 72.48 | -2,858.23 | -4,802.09 | 4,025.42 | 3,750.00 | 275.42 | 14.616 | | |
| 7,800.00 | 6,948.99 | 6,900.01 | 6,948.99 | 41.35 | 239.16 | 72.75 | -2,858.23 | -4,802.09 | 3,929.62 | 3,654.22 | 275.40 | 14.269 | | |
| 7,900.00 | 6,948.61 | 6,900.39 | 6,948.61 | 42.86 | 239.17 | 73.02 | -2,858.23 | -4,802.09 | 3,834.04 | 3,558.61 | 275.43 | 13.920 | | |
| 8,000.00 | 6,948.23 | 6,900.77 | 6,948.23 | 44.53 | 239.18 | 73.29 | -2,858.23 | -4,802.09 | 3,738.69 | 3,463.19 | 275.50 | 13.571 | | |
| 8,100.00 | 6,947.85 | 6,901.15 | 6,947.85 | 46.34 | 239.20 | 73.56 | -2,858.23 | -4,802.09 | 3,643.59 | 3,367.99 | 275.60 | 13.220 | | |
| 8,200.00 | 6,947.47 | 6,901.53 | 6,947.47 | 48.26 | 239.21 | 73.83 | -2,858.23 | -4,802.09 | 3,548.76 | 3,273.01 | 275.75 | 12.870 | | |
| 8,300.00 | 6,947.09 | 6,901.91 | 6,947.09 | 50.28 | 239.22 | 74.10 | -2,858.23 | -4,802.09 | 3,454.21 | 3,178.27 | 275.94 | 12.518 | | |
| 8,400.00 | 6,946.72 | 6,902.28 | 6,946.72 | 52.39 | 239.24 | 74.37 | -2,858.23 | -4,802.09 | 3,359.99 | 3,083.80 | 276.19 | 12.165 | | |
| 8,500.00 | 6,946.34 | 6,902.66 | 6,946.34 | 54.56 | 239.25 | 74.64 | -2,858.23 | -4,802.09 | 3,266.11 | 2,989.61 | 276.50 | 11.812 | | |
| 8,600.00 | 6,945.96 | 6,903.04 | 6,945.96 | 56.80 | 239.26 | 74.91 | -2,858.23 | -4,802.09 | 3,172.60 | 2,895.71 | 276.89 | 11.458 | | |
| 8,700.00 | 6,945.58 | 6,903.42 | 6,945.58 | 59.10 | 239.28 | 75.18 | -2,858.23 | -4,802.09 | 3,079.50 | 2,802.15 | 277.35 | 11.103 | | |
| 8,800.00 | 6,945.20 | 6,903.80 | 6,945.20 | 61.44 | 239.29 | 75.45 | -2,858.23 | -4,802.09 | 2,986.85 | 2,708.94 | 277.91 | 10.748 | | |
| 8,900.00 | 6,944.82 | 6,904.18 | 6,944.82 | 63.83 | 239.30 | 75.72 | -2,858.23 | -4,802.09 | 2,894.68 | 2,616.11 | 278.57 | 10.391 | | |
| 9,000.00 | 6,944.44 | 6,904.56 | 6,944.44 | 66.25 | 239.32 | 75.99 | -2,858.23 | -4,802.09 | 2,803.05 | 2,523.71 | 279.34 | 10.034 | | |
| 9,100.00 | 6,944.06 | 6,904.94 | 6,944.06 | 68.71 | 239.33 | 76.26 | -2,858.23 | -4,802.09 | 2,712.02 | 2,431.77 | 280.25 | 9.677 | | |
| 9,200.00 | 6,943.68 | 6,905.32 | 6,943.68 | 71.20 | 239.34 | 76.53 | -2,858.23 | -4,802.09 | 2,621.63 | 2,340.34 | 281.29 | 9.320 | | |
| 9,300.00 | 6,943.30 | 6,905.70 | 6,943.30 | 73.72 | 239.36 | 76.80 | -2,858.23 | -4,802.09 | 2,531.97 | 2,249.47 | 282.50 | 8.963 | | |
| 9,400.00 | 6,942.92 | 6,906.08 | 6,942.92 | 76.26 | 239.37 | 77.07 | -2,858.23 | -4,802.09 | 2,443.12 | 2,159.23 | 283.89 | 8.606 | | |
| 9,500.00 | 6,942.54 | 6,906.46 | 6,942.54 | 78.82 | 239.38 | 77.34 | -2,858.23 | -4,802.09 | 2,355.15 | 2,069.68 | 285.47 | 8.250 | | |
| 9,600.00 | 6,942.16 | 6,906.84 | 6,942.16 | 81.40 | 239.40 | 77.61 | -2,858.23 | -4,802.09 | 2,268.19 | 1,980.92 | 287.26 | 7.896 | | |
| 9,700.00 | 6,941.78 | 6,907.22 | 6,941.78 | 84.00 | 239.41 | 77.88 | -2,858.23 | -4,802.09 | 2,182.34 | 1,893.04 | 289.30 | 7.544 | | |
| 9,800.00 | 6,941.40 | 6,907.60 | 6,941.40 | 86.62 | 239.42 | 78.15 | -2,858.23 | -4,802.09 | 2,097.74 | 1,806.16 | 291.58 | 7.194 | | |
| 9,900.00 | 6,941.03 | 6,907.97 | 6,941.03 | 89.25 | 239.43 | 78.42 | -2,858.23 | -4,802.09 | 2,014.56 | 1,720.41 | 294.15 | 6.849 | | |
| 10,000.00 | 6,940.65 | 6,908.35 | 6,940.65 | 91.90 | 239.45 | 78.69 | -2,858.23 | -4,802.09 | 1,932.97 | 1,635.95 | 297.02 | 6.508 | | |
| 10,100.00 | 6,940.27 | 6,908.73 | 6,940.27 | 94.56 | 239.46 | 78.96 | -2,858.23 | -4,802.09 | 1,853.19 | 1,552.98 | 300.21 | 6.173 | | |
| 10,200.00 | 6,939.89 | 6,909.11 | 6,939.89 | 97.23 | 239.47 | 79.26 | -2,858.23 | -4,802.09 | 1,775.45 | 1,471.71 | 303.75 | 5.845 | | |
| 10,300.00 | 6,939.51 | 6,909.49 | 6,939.51 | 99.91 | 239.49 | 79.24 | -2,858.23 | -4,802.09 | 1,700.05 | 1,392.40 | 307.64 | 5.526 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - BURMAN 16-43(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,909.87 | 6,939.13 | 102.60 | 239.50 | -90.22 | -2,858.23 | -4,802.09 | 1,627.29 | 1,315.38 | 311.91 | 5.217 | | |
| 10,500.00 | 6,938.75 | 6,889.75 | 6,938.75 | 105.30 | 238.80 | -90.20 | -2,858.23 | -4,802.09 | 1,557.56 | 1,241.71 | 315.85 | 4.931 | | |
| 10,600.00 | 6,938.37 | 6,889.37 | 6,938.37 | 108.00 | 238.79 | -90.18 | -2,858.23 | -4,802.09 | 1,491.28 | 1,170.43 | 320.85 | 4.648 | | |
| 10,700.00 | 6,937.99 | 6,888.99 | 6,937.99 | 110.72 | 238.77 | -90.16 | -2,858.23 | -4,802.09 | 1,428.93 | 1,102.73 | 326.21 | 4.380 | | |
| 10,800.00 | 6,937.61 | 6,888.61 | 6,937.61 | 113.44 | 238.76 | -90.14 | -2,858.23 | -4,802.09 | 1,371.05 | 1,039.17 | 331.87 | 4.131 | | |
| 10,900.00 | 6,937.23 | 6,888.23 | 6,937.23 | 116.17 | 238.75 | -90.13 | -2,858.23 | -4,802.09 | 1,318.22 | 980.43 | 337.79 | 3.903 | | |
| 11,000.00 | 6,936.85 | 6,887.85 | 6,936.85 | 118.90 | 238.73 | -90.11 | -2,858.23 | -4,802.09 | 1,271.07 | 927.23 | 343.84 | 3.697 | | |
| 11,100.00 | 6,936.47 | 6,887.47 | 6,936.47 | 121.64 | 238.72 | -90.09 | -2,858.23 | -4,802.09 | 1,230.26 | 880.36 | 349.91 | 3.516 | | |
| 11,200.00 | 6,936.09 | 6,887.09 | 6,936.09 | 124.39 | 238.71 | -90.07 | -2,858.23 | -4,802.09 | 1,196.44 | 840.63 | 355.81 | 3.363 | | |
| 11,300.00 | 6,935.71 | 6,886.71 | 6,935.71 | 127.14 | 238.69 | -90.05 | -2,858.23 | -4,802.09 | 1,170.21 | 808.84 | 361.37 | 3.238 | | |
| 11,400.00 | 6,935.34 | 6,886.34 | 6,935.34 | 129.90 | 238.68 | -90.03 | -2,858.23 | -4,802.09 | 1,152.09 | 785.71 | 366.38 | 3.145 | | |
| 11,500.00 | 6,934.96 | 6,885.96 | 6,934.96 | 132.66 | 238.67 | -90.01 | -2,858.23 | -4,802.09 | 1,142.47 | 771.81 | 370.66 | 3.082 | | |
| 11,560.39 | 6,934.73 | 6,885.73 | 6,934.73 | 134.33 | 238.66 | -90.00 | -2,858.23 | -4,802.09 | 1,140.87 | 768.05 | 372.82 | 3.060 CC | | |
| 11,600.00 | 6,934.58 | 6,885.58 | 6,934.58 | 135.42 | 238.65 | -89.99 | -2,858.23 | -4,802.09 | 1,141.56 | 767.50 | 374.06 | 3.052 ES, SF | | |
| 11,700.00 | 6,934.20 | 6,885.20 | 6,934.20 | 138.19 | 238.64 | -89.97 | -2,858.23 | -4,802.09 | 1,149.38 | 772.89 | 376.49 | 3.053 | | |
| 11,800.00 | 6,933.82 | 6,884.82 | 6,933.82 | 140.96 | 238.63 | -89.95 | -2,858.23 | -4,802.09 | 1,165.76 | 787.82 | 377.94 | 3.085 | | |
| 11,900.00 | 6,933.44 | 6,884.44 | 6,933.44 | 143.74 | 238.61 | -89.94 | -2,858.23 | -4,802.09 | 1,190.34 | 811.89 | 378.45 | 3.145 | | |
| 12,000.00 | 6,933.06 | 6,884.06 | 6,933.06 | 146.51 | 238.60 | -89.92 | -2,858.23 | -4,802.09 | 1,222.63 | 844.52 | 378.12 | 3.233 | | |
| 12,100.00 | 6,932.68 | 6,883.68 | 6,932.68 | 149.30 | 238.59 | -89.90 | -2,858.23 | -4,802.09 | 1,262.04 | 884.97 | 377.07 | 3.347 | | |
| 12,200.00 | 6,932.30 | 6,883.30 | 6,932.30 | 152.08 | 238.57 | -89.88 | -2,858.23 | -4,802.09 | 1,307.93 | 932.47 | 375.46 | 3.484 | | |
| 12,300.00 | 6,931.92 | 6,882.92 | 6,931.92 | 154.87 | 238.56 | -89.86 | -2,858.23 | -4,802.09 | 1,359.63 | 986.20 | 373.43 | 3.641 | | |
| 12,400.00 | 6,931.54 | 6,882.54 | 6,931.54 | 157.66 | 238.55 | -89.84 | -2,858.23 | -4,802.09 | 1,416.51 | 1,045.41 | 371.10 | 3.817 | | |
| 12,500.00 | 6,931.16 | 6,882.16 | 6,931.16 | 160.45 | 238.53 | -89.82 | -2,858.23 | -4,802.09 | 1,477.98 | 1,109.40 | 368.59 | 4.010 | | |
| 12,600.00 | 6,930.78 | 6,881.78 | 6,930.78 | 163.24 | 238.52 | -89.80 | -2,858.23 | -4,802.09 | 1,543.49 | 1,177.52 | 365.97 | 4.218 | | |
| 12,700.00 | 6,930.40 | 6,881.40 | 6,930.40 | 166.04 | 238.51 | -89.78 | -2,858.23 | -4,802.09 | 1,612.53 | 1,249.21 | 363.33 | 4.438 | | |
| 12,800.00 | 6,930.03 | 6,881.03 | 6,930.03 | 168.84 | 238.49 | -89.76 | -2,858.23 | -4,802.09 | 1,684.69 | 1,323.99 | 360.70 | 4.671 | | |
| 12,900.00 | 6,929.65 | 6,880.65 | 6,929.65 | 171.64 | 238.48 | -89.74 | -2,858.23 | -4,802.09 | 1,759.58 | 1,401.45 | 358.13 | 4.913 | | |
| 13,000.00 | 6,929.27 | 6,880.27 | 6,929.27 | 174.44 | 238.47 | -89.73 | -2,858.23 | -4,802.09 | 1,836.85 | 1,481.21 | 355.64 | 5.165 | | |
| 13,100.00 | 6,928.89 | 6,879.89 | 6,928.89 | 177.24 | 238.45 | -89.71 | -2,858.23 | -4,802.09 | 1,916.23 | 1,562.99 | 353.24 | 5.425 | | |
| 13,200.00 | 6,928.51 | 6,879.51 | 6,928.51 | 180.05 | 238.44 | -89.69 | -2,858.23 | -4,802.09 | 1,997.46 | 1,646.51 | 350.95 | 5.692 | | |
| 13,300.00 | 6,928.13 | 6,879.13 | 6,928.13 | 182.86 | 238.43 | -89.67 | -2,858.23 | -4,802.09 | 2,080.33 | 1,731.56 | 348.77 | 5.965 | | |
| 13,400.00 | 6,927.75 | 6,878.75 | 6,927.75 | 185.67 | 238.41 | -89.65 | -2,858.23 | -4,802.09 | 2,164.64 | 1,817.94 | 346.70 | 6.244 | | |
| 13,500.00 | 6,927.37 | 6,878.37 | 6,927.37 | 188.48 | 238.40 | -89.63 | -2,858.23 | -4,802.09 | 2,250.25 | 1,905.50 | 344.74 | 6.527 | | |
| 13,600.00 | 6,926.99 | 6,877.99 | 6,926.99 | 191.29 | 238.39 | -89.61 | -2,858.23 | -4,802.09 | 2,336.99 | 1,994.10 | 342.89 | 6.816 | | |
| 13,700.00 | 6,926.61 | 6,877.61 | 6,926.61 | 194.10 | 238.37 | -89.59 | -2,858.23 | -4,802.09 | 2,424.75 | 2,083.62 | 341.13 | 7.108 | | |
| 13,800.00 | 6,926.23 | 6,877.23 | 6,926.23 | 196.92 | 238.36 | -89.57 | -2,858.23 | -4,802.09 | 2,513.43 | 2,173.95 | 339.48 | 7.404 | | |
| 13,900.00 | 6,925.85 | 6,876.85 | 6,925.85 | 199.73 | 238.35 | -89.55 | -2,858.23 | -4,802.09 | 2,602.93 | 2,265.02 | 337.92 | 7.703 | | |
| 14,000.00 | 6,925.47 | 6,876.47 | 6,925.47 | 202.55 | 238.34 | -89.54 | -2,858.23 | -4,802.09 | 2,693.17 | 2,356.73 | 336.44 | 8.005 | | |
| 14,100.00 | 6,925.09 | 6,876.09 | 6,925.09 | 205.37 | 238.32 | -89.52 | -2,858.23 | -4,802.09 | 2,784.08 | 2,449.03 | 335.04 | 8.310 | | |
| 14,200.00 | 6,924.71 | 6,875.71 | 6,924.71 | 208.19 | 238.31 | -89.50 | -2,858.23 | -4,802.09 | 2,875.59 | 2,541.86 | 333.73 | 8.617 | | |
| 14,300.00 | 6,924.34 | 6,875.34 | 6,924.34 | 211.01 | 238.30 | -89.48 | -2,858.23 | -4,802.09 | 2,967.65 | 2,635.16 | 332.48 | 8.926 | | |
| 14,400.00 | 6,923.96 | 6,874.96 | 6,923.96 | 213.83 | 238.28 | -89.46 | -2,858.23 | -4,802.09 | 3,060.20 | 2,728.90 | 331.30 | 9.237 | | |
| 14,500.00 | 6,923.58 | 6,874.58 | 6,923.58 | 216.65 | 238.27 | -89.44 | -2,858.23 | -4,802.09 | 3,153.21 | 2,823.02 | 330.19 | 9.550 | | |
| 14,600.00 | 6,923.20 | 6,874.20 | 6,923.20 | 219.48 | 238.26 | -89.42 | -2,858.23 | -4,802.09 | 3,246.64 | 2,917.50 | 329.13 | 9.864 | | |
| 14,700.00 | 6,922.82 | 6,873.82 | 6,922.82 | 222.30 | 238.24 | -89.40 | -2,858.23 | -4,802.09 | 3,340.44 | 3,012.31 | 328.13 | 10.180 | | |
| 14,800.00 | 6,922.44 | 6,873.44 | 6,922.44 | 225.13 | 238.23 | -89.38 | -2,858.23 | -4,802.09 | 3,434.60 | 3,107.42 | 327.18 | 10.497 | | |
| 14,900.00 | 6,922.06 | 6,873.06 | 6,922.06 | 227.95 | 238.22 | -89.36 | -2,858.23 | -4,802.09 | 3,529.08 | 3,202.79 | 326.28 | 10.816 | | |
| 14,915.55 | 6,922.00 | 6,873.00 | 6,922.00 | 228.39 | 238.21 | -89.36 | -2,858.23 | -4,802.09 | 3,543.80 | 3,217.65 | 326.15 | 10.866 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 25.00 | 67.00 | 3.28 | 3.28 | -140.97 | -4,029.35 | -3,266.74 | 5,187.65 | | | | | |
| 100.00 | 100.00 | 891.91 | 928.82 | 3.28 | 5.11 | -141.14 | -3,981.99 | -3,208.95 | 5,180.79 | 5,172.35 | 8.43 | 614.429 | | |
| 200.00 | 200.00 | 990.57 | 1,026.16 | 3.34 | 5.53 | -141.17 | -3,971.77 | -3,196.48 | 5,164.79 | 5,155.97 | 8.82 | 585.679 | | |
| 300.00 | 299.98 | 1,089.00 | 1,123.27 | 3.44 | 5.96 | 33.61 | -3,961.58 | -3,184.05 | 5,147.36 | 5,138.09 | 9.27 | 555.114 | | |
| 400.00 | 399.84 | 1,186.92 | 1,219.87 | 3.59 | 6.41 | 33.84 | -3,951.44 | -3,171.68 | 5,127.08 | 5,117.29 | 9.79 | 523.858 | | |
| 500.00 | 499.45 | 1,284.19 | 1,315.84 | 3.79 | 6.87 | 34.12 | -3,941.37 | -3,159.39 | 5,103.96 | 5,093.61 | 10.35 | 492.961 | | |
| 600.00 | 598.70 | 1,380.71 | 1,411.06 | 4.03 | 7.33 | 34.47 | -3,931.38 | -3,147.19 | 5,078.05 | 5,067.08 | 10.96 | 463.130 | | |
| 700.00 | 697.47 | 1,476.35 | 1,505.41 | 4.31 | 7.80 | 34.87 | -3,921.48 | -3,135.11 | 5,049.37 | 5,037.76 | 11.61 | 434.793 | | |
| 800.00 | 795.62 | 1,571.00 | 1,598.79 | 4.64 | 8.27 | 35.34 | -3,911.68 | -3,123.15 | 5,017.97 | 5,005.68 | 12.29 | 408.171 | | |
| 900.00 | 893.06 | 1,664.53 | 1,691.07 | 5.00 | 8.74 | 35.88 | -3,901.99 | -3,111.34 | 4,983.90 | 4,970.89 | 13.00 | 383.337 | | |
| 1,000.00 | 989.78 | 1,757.05 | 1,782.34 | 5.39 | 9.21 | 36.22 | -3,892.42 | -3,099.65 | 4,947.59 | 4,933.86 | 13.73 | 360.314 | | |
| 1,100.00 | 1,086.42 | 1,849.43 | 1,873.48 | 5.81 | 9.68 | 36.36 | -3,882.85 | -3,087.98 | 4,911.05 | 4,896.58 | 14.47 | 339.344 | | |
| 1,200.00 | 1,183.06 | 1,941.81 | 1,964.63 | 6.25 | 10.16 | 36.50 | -3,873.29 | -3,076.31 | 4,874.53 | 4,859.30 | 15.23 | 319.973 | | |
| 1,300.00 | 1,279.69 | 2,034.20 | 2,055.77 | 6.71 | 10.64 | 36.65 | -3,863.72 | -3,064.63 | 4,838.04 | 4,822.02 | 16.01 | 302.115 | | |
| 1,400.00 | 1,376.33 | 2,126.58 | 2,146.91 | 7.17 | 11.12 | 36.79 | -3,854.16 | -3,052.96 | 4,801.58 | 4,784.77 | 16.81 | 285.663 | | |
| 1,500.00 | 1,472.97 | 2,231.04 | 2,238.06 | 7.65 | 11.67 | 36.94 | -3,844.59 | -3,041.29 | 4,765.14 | 4,747.47 | 17.67 | 269.691 | | |
| 1,600.00 | 1,569.61 | 2,311.35 | 2,329.20 | 8.13 | 12.09 | 37.10 | -3,835.02 | -3,029.62 | 4,728.74 | 4,710.30 | 18.43 | 256.525 | | |
| 1,700.00 | 1,666.24 | 2,403.74 | 2,420.34 | 8.62 | 12.58 | 37.25 | -3,825.46 | -3,017.95 | 4,692.36 | 4,673.10 | 19.26 | 243.618 | | |
| 1,800.00 | 1,762.88 | 2,496.12 | 2,511.49 | 9.12 | 13.07 | 37.41 | -3,815.89 | -3,006.28 | 4,656.01 | 4,635.92 | 20.10 | 231.684 | | |
| 1,900.00 | 1,859.52 | 2,588.50 | 2,602.63 | 9.62 | 13.56 | 37.57 | -3,806.33 | -2,994.60 | 4,619.70 | 4,598.76 | 20.94 | 220.631 | | |
| 2,000.00 | 1,956.16 | 2,680.89 | 2,693.78 | 10.13 | 14.05 | 37.73 | -3,796.76 | -2,982.93 | 4,583.42 | 4,561.63 | 21.79 | 210.376 | | |
| 2,100.00 | 2,052.79 | 2,773.27 | 2,784.92 | 10.64 | 14.54 | 37.89 | -3,787.20 | -2,971.26 | 4,547.17 | 4,524.53 | 22.64 | 200.843 | | |
| 2,200.00 | 2,149.43 | 2,865.66 | 2,876.06 | 11.15 | 15.03 | 38.06 | -3,777.63 | -2,959.59 | 4,510.95 | 4,487.45 | 23.50 | 191.965 | | |
| 2,300.00 | 2,246.07 | 2,958.04 | 2,967.21 | 11.66 | 15.53 | 38.23 | -3,768.07 | -2,947.92 | 4,474.77 | 4,450.41 | 24.36 | 183.683 | | |
| 2,400.00 | 2,342.71 | 3,050.43 | 3,058.35 | 12.18 | 16.02 | 38.40 | -3,758.50 | -2,936.25 | 4,438.63 | 4,413.40 | 25.23 | 175.942 | | |
| 2,500.00 | 2,439.34 | 3,142.81 | 3,149.49 | 12.70 | 16.52 | 38.57 | -3,748.94 | -2,924.58 | 4,402.52 | 4,376.42 | 26.10 | 168.695 | | |
| 2,600.00 | 2,535.98 | 3,235.19 | 3,240.64 | 13.22 | 17.02 | 38.75 | -3,739.37 | -2,912.90 | 4,366.44 | 4,339.47 | 26.97 | 161.898 | | |
| 2,700.00 | 2,632.62 | 3,327.58 | 3,331.78 | 13.75 | 17.52 | 38.93 | -3,729.81 | -2,901.23 | 4,330.41 | 4,302.56 | 27.85 | 155.512 | | |
| 2,800.00 | 2,729.26 | 3,430.05 | 3,422.92 | 14.27 | 18.07 | 39.12 | -3,720.24 | -2,889.56 | 4,294.41 | 4,265.64 | 28.77 | 149.267 | | |
| 2,900.00 | 2,825.89 | 3,512.35 | 3,514.07 | 14.80 | 18.51 | 39.30 | -3,710.68 | -2,877.89 | 4,258.45 | 4,228.85 | 29.61 | 143.842 | | |
| 3,000.00 | 2,922.53 | 3,604.73 | 3,605.21 | 15.32 | 19.01 | 39.49 | -3,701.11 | -2,866.22 | 4,222.54 | 4,192.05 | 30.49 | 138.498 | | |
| 3,100.00 | 3,019.17 | 3,697.12 | 3,696.35 | 15.85 | 19.51 | 39.69 | -3,691.55 | -2,854.55 | 4,186.66 | 4,155.29 | 31.37 | 133.448 | | |
| 3,200.00 | 3,115.81 | 3,789.50 | 3,787.50 | 16.38 | 20.01 | 39.88 | -3,681.98 | -2,842.87 | 4,150.83 | 4,118.57 | 32.26 | 128.668 | | |
| 3,300.00 | 3,212.44 | 3,881.88 | 3,878.64 | 16.91 | 20.51 | 40.08 | -3,672.42 | -2,831.20 | 4,115.04 | 4,081.89 | 33.15 | 124.139 | | |
| 3,400.00 | 3,309.08 | 3,974.27 | 3,969.78 | 17.44 | 21.01 | 40.28 | -3,662.85 | -2,819.53 | 4,079.30 | 4,045.26 | 34.04 | 119.841 | | |
| 3,500.00 | 3,405.72 | 4,066.65 | 4,060.93 | 17.97 | 21.51 | 40.49 | -3,653.29 | -2,807.86 | 4,043.61 | 4,008.67 | 34.93 | 115.759 | | |
| 3,600.00 | 3,502.36 | 4,159.04 | 4,152.07 | 18.50 | 22.02 | 40.70 | -3,643.72 | -2,796.19 | 4,007.96 | 3,972.13 | 35.83 | 111.876 | | |
| 3,700.00 | 3,598.99 | 4,251.42 | 4,243.22 | 19.03 | 22.52 | 40.91 | -3,634.16 | -2,784.52 | 3,972.36 | 3,935.64 | 36.72 | 108.178 | | |
| 3,800.00 | 3,695.63 | 4,343.81 | 4,334.36 | 19.57 | 23.02 | 41.13 | -3,624.59 | -2,772.84 | 3,936.81 | 3,899.19 | 37.62 | 104.654 | | |
| 3,900.00 | 3,792.27 | 4,436.19 | 4,425.50 | 20.10 | 23.52 | 41.35 | -3,615.03 | -2,761.17 | 3,901.31 | 3,862.80 | 38.52 | 101.292 | | |
| 4,000.00 | 3,888.91 | 4,528.57 | 4,516.65 | 20.63 | 24.02 | 41.58 | -3,605.46 | -2,749.50 | 3,865.87 | 3,826.45 | 39.42 | 98.081 | | |
| 4,100.00 | 3,985.54 | 4,620.96 | 4,607.79 | 21.17 | 24.57 | 41.81 | -3,595.90 | -2,737.83 | 3,830.48 | 3,790.12 | 40.35 | 94.924 | | |
| 4,200.00 | 4,082.18 | 4,713.34 | 4,698.93 | 21.70 | 25.03 | 42.04 | -3,586.33 | -2,726.16 | 3,795.14 | 3,753.92 | 41.22 | 92.074 | | |
| 4,300.00 | 4,178.82 | 4,805.73 | 4,790.08 | 22.24 | 25.53 | 42.28 | -3,576.77 | -2,714.49 | 3,759.87 | 3,717.75 | 42.12 | 89.261 | | |
| 4,400.00 | 4,275.46 | 4,901.89 | 4,881.22 | 22.77 | 26.06 | 42.52 | -3,567.20 | -2,702.81 | 3,724.65 | 3,681.61 | 43.04 | 86.530 | | |
| 4,500.00 | 4,372.09 | 4,990.50 | 4,972.36 | 23.31 | 26.54 | 42.77 | -3,557.64 | -2,691.14 | 3,689.49 | 3,645.56 | 43.93 | 83.979 | | |
| 4,600.00 | 4,468.73 | 5,082.88 | 5,063.51 | 23.84 | 27.04 | 43.02 | -3,548.07 | -2,679.47 | 3,654.40 | 3,609.56 | 44.84 | 81.496 | | |
| 4,700.00 | 4,565.37 | 5,175.27 | 5,154.65 | 24.38 | 27.55 | 43.27 | -3,538.51 | -2,667.80 | 3,619.37 | 3,573.62 | 45.75 | 79.111 | | |
| 4,800.00 | 4,662.01 | 5,267.65 | 5,245.79 | 24.91 | 28.05 | 43.54 | -3,528.94 | -2,656.13 | 3,584.41 | 3,537.75 | 46.66 | 76.818 | | |
| 4,900.00 | 4,758.64 | 5,360.03 | 5,336.94 | 25.45 | 28.55 | 43.80 | -3,519.37 | -2,644.46 | 3,549.52 | 3,501.94 | 47.57 | 74.612 | | |
| 5,000.00 | 4,855.28 | 5,452.42 | 5,428.08 | 25.99 | 29.06 | 44.07 | -3,509.81 | -2,632.78 | 3,514.69 | 3,466.21 | 48.49 | 72.489 | | |
| 5,100.00 | 4,951.92 | 5,544.80 | 5,519.22 | 26.53 | 29.56 | 44.35 | -3,500.24 | -2,621.11 | 3,479.94 | 3,430.54 | 49.40 | 70.443 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,637.19 | 5,610.37 | 27.06 | 30.07 | 44.63 | -3,490.68 | -2,609.44 | 3,445.27 | 3,394.95 | 50.32 | 68.471 | | |
| 5,300.00 | 5,145.19 | 5,729.57 | 5,701.51 | 27.60 | 30.57 | 44.92 | -3,481.11 | -2,597.77 | 3,410.67 | 3,359.43 | 51.23 | 66.570 | | |
| 5,400.00 | 5,241.83 | 5,828.07 | 5,792.66 | 28.14 | 31.11 | 45.21 | -3,471.55 | -2,586.10 | 3,376.15 | 3,323.97 | 52.18 | 64.700 | | |
| 5,500.00 | 5,338.47 | 5,914.34 | 5,883.80 | 28.67 | 31.58 | 45.51 | -3,461.98 | -2,574.43 | 3,341.71 | 3,288.64 | 53.07 | 62.963 | | |
| 5,600.00 | 5,435.11 | 6,006.72 | 5,974.94 | 29.21 | 32.09 | 45.81 | -3,452.42 | -2,562.76 | 3,307.36 | 3,253.36 | 54.00 | 61.251 | | |
| 5,700.00 | 5,531.74 | 6,100.89 | 6,066.09 | 29.75 | 32.60 | 46.12 | -3,442.85 | -2,551.08 | 3,273.09 | 3,218.16 | 54.93 | 59.588 | | |
| 5,800.00 | 5,628.38 | 6,191.49 | 6,157.23 | 30.29 | 33.10 | 46.44 | -3,433.29 | -2,539.41 | 3,238.91 | 3,183.07 | 55.85 | 57.997 | | |
| 5,900.00 | 5,725.02 | 6,260.38 | 6,225.19 | 30.83 | 33.47 | 46.68 | -3,426.16 | -2,530.71 | 3,204.92 | 3,148.18 | 56.73 | 56.491 | | |
| 6,000.00 | 5,821.66 | 6,284.26 | 6,248.80 | 31.37 | 33.59 | 46.77 | -3,423.69 | -2,528.14 | 3,172.52 | 3,114.99 | 57.53 | 55.145 | | |
| 6,100.00 | 5,918.29 | 6,300.00 | 6,264.41 | 31.90 | 33.68 | 46.84 | -3,422.07 | -2,526.93 | 3,142.44 | 3,084.15 | 58.29 | 53.909 | | |
| 6,200.00 | 6,014.93 | 6,325.01 | 6,289.27 | 32.44 | 33.79 | 46.95 | -3,419.51 | -2,525.81 | 3,114.69 | 3,055.64 | 59.05 | 52.745 | | |
| 6,300.00 | 6,111.57 | 6,350.00 | 6,314.12 | 32.98 | 33.90 | 47.08 | -3,416.97 | -2,525.67 | 3,089.39 | 3,029.60 | 59.79 | 51.673 | | |
| 6,400.00 | 6,208.21 | 6,350.00 | 6,314.12 | 33.52 | 33.90 | 47.08 | -3,416.97 | -2,525.67 | 3,066.56 | 3,006.15 | 60.41 | 50.759 | | |
| 6,500.00 | 6,304.84 | 6,381.01 | 6,344.95 | 34.06 | 34.01 | 47.25 | -3,413.85 | -2,526.86 | 3,046.09 | 2,984.98 | 61.11 | 49.847 | | |
| 6,600.00 | 6,401.37 | 6,400.00 | 6,363.79 | 34.60 | 34.08 | 30.06 | -3,411.96 | -2,528.33 | 3,026.58 | 2,964.85 | 61.73 | 49.033 | | |
| 6,700.00 | 6,496.25 | 6,425.01 | 6,388.52 | 35.12 | 34.16 | 6.06 | -3,409.50 | -2,531.14 | 2,998.91 | 2,936.63 | 62.29 | 48.146 | | |
| 6,800.00 | 6,587.15 | 6,439.00 | 6,402.29 | 35.59 | 34.20 | -8.60 | -3,408.14 | -2,533.13 | 2,962.08 | 2,899.38 | 62.71 | 47.238 | | |
| 6,900.00 | 6,671.83 | 6,450.00 | 6,413.10 | 36.03 | 34.23 | -18.74 | -3,407.08 | -2,534.91 | 2,916.83 | 2,853.81 | 63.02 | 46.285 | | |
| 7,000.00 | 6,748.21 | 6,475.79 | 6,438.29 | 36.41 | 34.29 | -27.14 | -3,404.62 | -2,539.81 | 2,863.79 | 2,800.46 | 63.33 | 45.218 | | |
| 7,100.00 | 6,814.41 | 6,500.00 | 6,461.76 | 36.76 | 34.34 | -35.23 | -3,402.36 | -2,545.34 | 2,804.18 | 2,740.59 | 63.58 | 44.101 | | |
| 7,200.00 | 6,868.79 | 6,500.00 | 6,461.76 | 37.07 | 34.34 | -43.52 | -3,402.36 | -2,545.34 | 2,739.07 | 2,675.41 | 63.66 | 43.028 | | |
| 7,300.00 | 6,910.01 | 6,525.01 | 6,485.76 | 37.39 | 34.39 | -52.79 | -3,400.06 | -2,552.00 | 2,669.82 | 2,605.93 | 63.89 | 41.789 | | |
| 7,400.00 | 6,937.07 | 6,535.52 | 6,495.76 | 37.76 | 34.41 | -62.52 | -3,399.11 | -2,555.07 | 2,598.16 | 2,534.07 | 64.08 | 40.545 | | |
| 7,500.00 | 6,949.29 | 6,550.00 | 6,509.46 | 38.27 | 34.44 | -72.53 | -3,397.82 | -2,559.58 | 2,525.84 | 2,461.44 | 64.40 | 39.219 | | |
| 7,600.00 | 6,949.75 | 6,550.00 | 6,509.46 | 39.02 | 34.44 | -75.64 | -3,397.82 | -2,559.58 | 2,454.66 | 2,389.86 | 64.79 | 37.885 | | |
| 7,700.00 | 6,949.37 | 6,550.00 | 6,509.46 | 40.05 | 34.44 | -75.64 | -3,397.82 | -2,559.58 | 2,385.53 | 2,320.16 | 65.38 | 36.488 | | |
| 7,800.00 | 6,948.99 | 6,571.73 | 6,529.81 | 41.35 | 34.47 | -76.27 | -3,395.91 | -2,566.94 | 2,318.30 | 2,252.01 | 66.29 | 34.974 | | |
| 7,900.00 | 6,948.61 | 6,581.84 | 6,539.20 | 42.86 | 34.48 | -76.56 | -3,395.03 | -2,570.59 | 2,253.47 | 2,186.11 | 67.36 | 33.454 | | |
| 8,000.00 | 6,948.23 | 6,600.00 | 6,555.91 | 44.53 | 34.51 | -77.09 | -3,393.49 | -2,577.54 | 2,191.16 | 2,122.45 | 68.71 | 31.891 | | |
| 8,100.00 | 6,947.85 | 6,600.00 | 6,555.91 | 46.34 | 34.51 | -77.09 | -3,393.49 | -2,577.54 | 2,131.45 | 2,061.21 | 70.24 | 30.344 | | |
| 8,200.00 | 6,947.47 | 6,625.01 | 6,578.58 | 48.26 | 34.53 | -77.81 | -3,391.41 | -2,587.88 | 2,074.64 | 2,002.53 | 72.11 | 28.770 | | |
| 8,300.00 | 6,947.09 | 6,632.42 | 6,585.22 | 50.28 | 34.54 | -78.02 | -3,390.81 | -2,591.11 | 2,020.85 | 1,946.66 | 74.19 | 27.239 | | |
| 8,400.00 | 6,946.72 | 6,650.00 | 6,600.82 | 52.39 | 34.55 | -78.52 | -3,389.40 | -2,599.10 | 1,970.37 | 1,893.83 | 76.54 | 25.744 | | |
| 8,500.00 | 6,946.34 | 6,665.97 | 6,614.80 | 54.56 | 34.56 | -78.97 | -3,388.15 | -2,606.72 | 1,923.35 | 1,844.24 | 79.12 | 24.310 | | |
| 8,600.00 | 6,945.96 | 6,685.55 | 6,631.67 | 56.80 | 34.57 | -79.52 | -3,386.65 | -2,616.55 | 1,880.01 | 1,798.10 | 81.92 | 22.950 | | |
| 8,700.00 | 6,945.58 | 6,707.39 | 6,650.12 | 59.10 | 34.58 | -80.12 | -3,385.03 | -2,628.11 | 1,840.51 | 1,755.61 | 84.90 | 21.678 | | |
| 8,800.00 | 6,945.20 | 6,731.83 | 6,670.29 | 61.44 | 34.59 | -80.78 | -3,383.28 | -2,641.80 | 1,805.00 | 1,716.96 | 88.04 | 20.501 | | |
| 8,900.00 | 6,944.82 | 6,750.00 | 6,684.94 | 63.83 | 34.59 | -81.26 | -3,382.03 | -2,652.47 | 1,773.63 | 1,682.31 | 91.32 | 19.422 | | |
| 9,000.00 | 6,944.44 | 6,790.25 | 6,716.28 | 66.25 | 34.59 | -82.30 | -3,379.41 | -2,677.58 | 1,746.32 | 1,651.69 | 94.63 | 18.454 | | |
| 9,100.00 | 6,944.06 | 6,825.01 | 6,742.03 | 68.71 | 34.59 | -83.16 | -3,377.31 | -2,700.83 | 1,723.19 | 1,625.20 | 97.99 | 17.585 | | |
| 9,200.00 | 6,943.68 | 6,864.82 | 6,769.93 | 71.20 | 34.58 | -84.10 | -3,375.11 | -2,729.14 | 1,704.12 | 1,602.77 | 101.36 | 16.813 | | |
| 9,300.00 | 6,943.30 | 6,909.62 | 6,799.14 | 73.72 | 34.58 | -85.09 | -3,372.91 | -2,763.01 | 1,688.94 | 1,584.26 | 104.68 | 16.134 | | |
| 9,400.00 | 6,942.92 | 6,960.19 | 6,829.19 | 76.26 | 34.57 | -86.11 | -3,370.77 | -2,803.62 | 1,677.38 | 1,569.42 | 107.96 | 15.537 | | |
| 9,500.00 | 6,942.54 | 7,016.95 | 6,858.99 | 78.82 | 34.59 | -87.14 | -3,368.83 | -2,851.87 | 1,669.08 | 1,557.89 | 111.19 | 15.011 | | |
| 9,600.00 | 6,942.16 | 7,080.03 | 6,886.94 | 81.40 | 34.65 | -88.11 | -3,367.27 | -2,908.37 | 1,663.62 | 1,549.20 | 114.42 | 14.540 | | |
| 9,700.00 | 6,941.78 | 7,150.00 | 6,911.27 | 84.00 | 34.81 | -88.95 | -3,366.28 | -2,973.92 | 1,660.52 | 1,542.85 | 117.66 | 14.112 | | |
| 9,800.00 | 6,941.40 | 7,223.25 | 6,928.93 | 86.62 | 35.11 | -89.57 | -3,366.10 | -3,044.97 | 1,659.31 | 1,538.31 | 121.01 | 13.712 | | |
| 9,825.95 | 6,941.31 | 7,243.13 | 6,932.31 | 87.30 | 35.23 | -89.69 | -3,366.21 | -3,064.56 | 1,659.26 | 1,537.37 | 121.90 | 13.612 CC | | |
| 9,900.00 | 6,941.03 | 7,300.82 | 6,938.66 | 89.25 | 35.64 | -89.92 | -3,366.87 | -3,121.88 | 1,659.64 | 1,535.16 | 124.48 | 13.332 | | |
| 10,000.00 | 6,940.65 | 7,388.93 | 6,939.83 | 91.90 | 36.50 | -89.97 | -3,368.76 | -3,209.94 | 1,661.17 | 1,532.99 | 128.18 | 12.960 | | |
| 10,100.00 | 6,940.27 | 7,488.92 | 6,939.41 | 94.56 | 37.81 | -89.97 | -3,371.08 | -3,309.90 | 1,662.90 | 1,530.68 | 132.21 | 12.577 | | |
| 10,200.00 | 6,939.89 | 7,588.90 | 6,938.99 | 97.23 | 39.39 | -89.97 | -3,373.41 | -3,409.85 | 1,664.62 | 1,528.14 | 136.49 | 12.196 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 7,688.89 | 6,938.57 | 99.91 | 41.21 | -89.96 | -3,375.73 | -3,509.81 | 1,666.35 | 1,525.37 | 140.98 | 11.820 | | |
| 10,400.00 | 6,939.13 | 7,788.87 | 6,938.16 | 102.60 | 43.21 | -89.96 | -3,378.06 | -3,609.77 | 1,668.08 | 1,522.41 | 145.66 | 11.452 | | |
| 10,500.00 | 6,938.75 | 7,888.86 | 6,937.74 | 105.30 | 45.38 | -89.96 | -3,380.38 | -3,709.72 | 1,669.80 | 1,519.29 | 150.51 | 11.094 | | |
| 10,600.00 | 6,938.37 | 7,988.84 | 6,937.32 | 108.00 | 47.68 | -89.96 | -3,382.71 | -3,809.68 | 1,671.53 | 1,516.03 | 155.51 | 10.749 | | |
| 10,700.00 | 6,937.99 | 8,088.83 | 6,936.91 | 110.72 | 50.09 | -89.96 | -3,385.03 | -3,909.64 | 1,673.26 | 1,512.63 | 160.62 | 10.417 | | |
| 10,800.00 | 6,937.61 | 8,188.81 | 6,936.49 | 113.44 | 52.60 | -89.96 | -3,387.36 | -4,009.60 | 1,674.98 | 1,509.14 | 165.85 | 10.099 | | |
| 10,900.00 | 6,937.23 | 8,288.80 | 6,936.07 | 116.17 | 55.20 | -89.96 | -3,389.68 | -4,109.55 | 1,676.71 | 1,505.54 | 171.17 | 9.796 | | |
| 11,000.00 | 6,936.85 | 8,388.78 | 6,935.65 | 118.90 | 57.87 | -89.96 | -3,392.01 | -4,209.51 | 1,678.44 | 1,501.87 | 176.57 | 9.506 | | |
| 11,100.00 | 6,936.47 | 8,488.77 | 6,935.24 | 121.64 | 60.60 | -89.95 | -3,394.33 | -4,309.47 | 1,680.17 | 1,498.12 | 182.04 | 9.229 | | |
| 11,200.00 | 6,936.09 | 8,588.75 | 6,934.82 | 124.39 | 63.39 | -89.95 | -3,396.66 | -4,409.43 | 1,681.89 | 1,494.31 | 187.58 | 8.966 | | |
| 11,300.00 | 6,935.71 | 8,688.74 | 6,934.40 | 127.14 | 66.23 | -89.95 | -3,398.98 | -4,509.38 | 1,683.62 | 1,490.45 | 193.17 | 8.716 | | |
| 11,400.00 | 6,935.34 | 8,788.72 | 6,933.99 | 129.90 | 69.11 | -89.95 | -3,401.31 | -4,609.34 | 1,685.35 | 1,486.54 | 198.81 | 8.477 | | |
| 11,500.00 | 6,934.96 | 8,888.71 | 6,933.57 | 132.66 | 72.03 | -89.95 | -3,403.63 | -4,709.30 | 1,687.07 | 1,482.58 | 204.49 | 8.250 | | |
| 11,600.00 | 6,934.58 | 8,988.69 | 6,933.15 | 135.42 | 74.99 | -89.95 | -3,405.96 | -4,809.25 | 1,688.80 | 1,478.59 | 210.21 | 8.034 | | |
| 11,700.00 | 6,934.20 | 9,088.68 | 6,932.74 | 138.19 | 77.97 | -89.95 | -3,408.28 | -4,909.21 | 1,690.53 | 1,474.56 | 215.96 | 7.828 | | |
| 11,800.00 | 6,933.82 | 9,188.66 | 6,932.32 | 140.96 | 80.98 | -89.95 | -3,410.61 | -5,009.17 | 1,692.25 | 1,470.50 | 221.75 | 7.631 | | |
| 11,900.00 | 6,933.44 | 9,288.65 | 6,931.90 | 143.74 | 84.01 | -89.94 | -3,412.93 | -5,109.13 | 1,693.98 | 1,466.42 | 227.56 | 7.444 | | |
| 12,000.00 | 6,933.06 | 9,388.64 | 6,931.48 | 146.51 | 87.07 | -89.94 | -3,415.26 | -5,209.08 | 1,695.71 | 1,462.31 | 233.40 | 7.265 | | |
| 12,100.00 | 6,932.68 | 9,488.62 | 6,931.07 | 149.30 | 90.14 | -89.94 | -3,417.58 | -5,309.04 | 1,697.43 | 1,458.18 | 239.25 | 7.095 | | |
| 12,200.00 | 6,932.30 | 9,588.61 | 6,930.65 | 152.08 | 93.23 | -89.94 | -3,419.91 | -5,409.00 | 1,699.16 | 1,454.03 | 245.13 | 6.932 | | |
| 12,300.00 | 6,931.92 | 9,688.59 | 6,930.23 | 154.87 | 96.34 | -89.94 | -3,422.23 | -5,508.95 | 1,700.89 | 1,449.86 | 251.03 | 6.776 | | |
| 12,400.00 | 6,931.54 | 9,788.58 | 6,929.82 | 157.66 | 99.46 | -89.94 | -3,424.56 | -5,608.91 | 1,702.61 | 1,445.67 | 256.94 | 6.626 | | |
| 12,500.00 | 6,931.16 | 9,888.56 | 6,929.40 | 160.45 | 102.59 | -89.94 | -3,426.88 | -5,708.87 | 1,704.34 | 1,441.47 | 262.87 | 6.484 | | |
| 12,600.00 | 6,930.78 | 9,988.55 | 6,928.98 | 163.24 | 105.73 | -89.94 | -3,429.21 | -5,808.83 | 1,706.07 | 1,437.25 | 268.81 | 6.347 | | |
| 12,700.00 | 6,930.40 | 10,088.53 | 6,928.56 | 166.04 | 108.89 | -89.93 | -3,431.53 | -5,908.78 | 1,707.79 | 1,433.02 | 274.77 | 6.215 | | |
| 12,800.00 | 6,930.03 | 10,188.52 | 6,928.15 | 168.84 | 112.05 | -89.93 | -3,433.86 | -6,008.74 | 1,709.52 | 1,428.78 | 280.74 | 6.089 | | |
| 12,900.00 | 6,929.65 | 10,288.50 | 6,927.73 | 171.64 | 115.23 | -89.93 | -3,436.18 | -6,108.70 | 1,711.25 | 1,424.53 | 286.71 | 5.968 | | |
| 13,000.00 | 6,929.27 | 10,388.49 | 6,927.31 | 174.44 | 118.41 | -89.93 | -3,438.51 | -6,208.65 | 1,712.97 | 1,420.27 | 292.70 | 5.852 | | |
| 13,100.00 | 6,928.89 | 10,478.83 | 6,926.93 | 177.24 | 121.32 | -89.93 | -3,440.66 | -6,299.97 | 1,714.75 | 1,416.34 | 298.41 | 5.746 | | |
| 13,200.00 | 6,928.51 | 10,538.69 | 6,926.69 | 180.05 | 123.20 | -89.93 | -3,443.18 | -6,358.78 | 1,718.33 | 1,415.39 | 302.94 | 5.672 | | |
| 13,300.00 | 6,928.13 | 10,638.59 | 6,926.27 | 182.86 | 126.38 | -89.93 | -3,448.40 | -6,458.53 | 1,722.95 | 1,414.02 | 308.93 | 5.577 | | |
| 13,400.00 | 6,927.75 | 10,725.53 | 6,925.91 | 185.67 | 129.16 | -89.93 | -3,452.94 | -6,545.36 | 1,727.63 | 1,413.19 | 314.44 | 5.494 | | |
| 13,500.00 | 6,927.37 | 10,784.68 | 6,925.66 | 188.48 | 131.04 | -89.93 | -3,456.94 | -6,604.37 | 1,733.95 | 1,415.20 | 318.75 | 5.440 | | |
| 13,600.00 | 6,926.99 | 10,825.02 | 6,925.49 | 191.29 | 132.32 | -89.93 | -3,460.71 | -6,644.53 | 1,743.10 | 1,421.12 | 321.98 | 5.414 | | |
| 13,700.00 | 6,926.61 | 10,900.00 | 6,925.18 | 194.10 | 134.68 | -89.93 | -3,469.98 | -6,718.93 | 1,754.87 | 1,428.18 | 326.70 | 5.372 | | |
| 13,800.00 | 6,926.23 | 10,940.12 | 6,925.01 | 196.92 | 135.93 | -89.93 | -3,476.14 | -6,758.58 | 1,769.27 | 1,439.87 | 329.39 | 5.371 | | |
| 13,900.00 | 6,925.85 | 10,992.19 | 6,924.79 | 199.73 | 137.54 | -89.92 | -3,485.37 | -6,809.82 | 1,786.38 | 1,453.89 | 332.49 | 5.373 | | |
| 14,000.00 | 6,925.47 | 11,088.45 | 6,924.39 | 202.55 | 140.51 | -89.92 | -3,503.73 | -6,904.32 | 1,804.86 | 1,466.65 | 338.21 | 5.336 | | |
| 14,100.00 | 6,925.09 | 11,535.15 | 6,922.52 | 205.37 | 154.78 | -89.92 | -3,539.47 | -7,348.70 | 1,806.89 | 1,446.88 | 360.01 | 5.019 | | |
| 14,200.00 | 6,924.71 | 11,635.15 | 6,922.11 | 208.19 | 158.04 | -89.92 | -3,539.46 | -7,448.69 | 1,806.28 | 1,440.19 | 366.09 | 4.934 | | |
| 14,300.00 | 6,924.34 | 11,735.15 | 6,921.69 | 211.01 | 161.30 | -89.92 | -3,539.44 | -7,548.69 | 1,805.67 | 1,433.49 | 372.17 | 4.852 | | |
| 14,400.00 | 6,923.96 | 11,835.14 | 6,921.27 | 213.83 | 164.56 | -89.92 | -3,539.43 | -7,648.69 | 1,805.05 | 1,426.80 | 378.26 | 4.772 | | |
| 14,500.00 | 6,923.58 | 11,935.14 | 6,920.86 | 216.65 | 167.83 | -89.91 | -3,539.42 | -7,748.68 | 1,804.44 | 1,420.10 | 384.35 | 4.695 | | |
| 14,600.00 | 6,923.20 | 12,035.14 | 6,920.44 | 219.48 | 171.09 | -89.91 | -3,539.40 | -7,848.68 | 1,803.83 | 1,413.39 | 390.44 | 4.620 | | |
| 14,700.00 | 6,922.82 | 12,135.14 | 6,920.02 | 222.30 | 174.36 | -89.91 | -3,539.39 | -7,948.68 | 1,803.22 | 1,406.69 | 396.53 | 4.547 | | |
| 14,800.00 | 6,922.44 | 12,235.14 | 6,919.60 | 225.13 | 177.64 | -89.91 | -3,539.38 | -8,048.68 | 1,802.61 | 1,399.97 | 402.63 | 4.477 | | |
| 14,900.00 | 6,922.06 | 12,335.13 | 6,919.19 | 227.95 | 180.91 | -89.91 | -3,539.36 | -8,148.67 | 1,802.00 | 1,393.26 | 408.73 | 4.409 | | |
| 14,915.55 | 6,922.00 | 12,350.68 | 6,919.12 | 228.39 | 181.42 | -89.91 | -3,539.36 | -8,164.22 | 1,801.90 | 1,392.22 | 409.68 | 4.398 ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWVD | | | | | | | | | | | | | Offset Well Error: | 0.00 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 25.00 | 67.00 | 3.28 | 0.00 | -141.11 | -4,049.38 | -3,266.74 | 5,203.23 | | | | | |
| 100.00 | 100.00 | 58.00 | 100.00 | 3.28 | 0.07 | -141.11 | -4,049.38 | -3,266.74 | 5,202.80 | 5,199.44 | 3.36 | 1,549.731 | | |
| 200.00 | 200.00 | 87.58 | 917.36 | 3.34 | 3.73 | -141.31 | -4,021.48 | -3,220.50 | 5,201.78 | 5,194.65 | 7.13 | 729.184 | | |
| 300.00 | 299.98 | 977.32 | 1,015.03 | 3.44 | 4.23 | 33.43 | -4,013.99 | -3,208.10 | 5,186.55 | 5,178.88 | 7.68 | 675.673 | | |
| 400.00 | 399.84 | 1,075.64 | 1,112.29 | 3.59 | 4.73 | 33.61 | -4,006.54 | -3,195.74 | 5,168.45 | 5,160.18 | 8.27 | 625.098 | | |
| 500.00 | 499.45 | 1,173.42 | 1,209.01 | 3.79 | 5.24 | 33.85 | -3,999.12 | -3,183.46 | 5,147.50 | 5,138.60 | 8.90 | 578.064 | | |
| 600.00 | 598.70 | 1,270.53 | 1,305.07 | 4.03 | 5.74 | 34.14 | -3,991.76 | -3,171.25 | 5,123.72 | 5,114.15 | 9.58 | 534.878 | | |
| 700.00 | 697.47 | 1,366.86 | 1,400.35 | 4.31 | 6.24 | 34.49 | -3,984.46 | -3,159.15 | 5,097.15 | 5,086.87 | 10.29 | 495.545 | | |
| 800.00 | 795.62 | 1,462.29 | 1,494.75 | 4.64 | 6.74 | 34.91 | -3,977.22 | -3,147.16 | 5,067.83 | 5,056.81 | 11.02 | 459.882 | | |
| 900.00 | 893.06 | 1,556.70 | 1,588.14 | 5.00 | 7.23 | 35.39 | -3,970.06 | -3,135.30 | 5,035.78 | 5,024.01 | 11.78 | 427.605 | | |
| 1,000.00 | 989.78 | 1,650.17 | 1,680.59 | 5.39 | 7.72 | 35.69 | -3,962.97 | -3,123.55 | 5,001.47 | 4,988.92 | 12.55 | 398.444 | | |
| 1,100.00 | 1,086.42 | 1,743.51 | 1,772.93 | 5.81 | 8.21 | 35.81 | -3,955.90 | -3,111.82 | 4,966.91 | 4,953.58 | 13.34 | 372.430 | | |
| 1,200.00 | 1,183.06 | 1,836.86 | 1,865.27 | 6.25 | 8.71 | 35.93 | -3,948.82 | -3,100.10 | 4,932.37 | 4,918.23 | 14.14 | 348.858 | | |
| 1,300.00 | 1,279.69 | 1,930.21 | 1,957.60 | 6.71 | 9.20 | 36.05 | -3,941.74 | -3,088.37 | 4,897.85 | 4,882.89 | 14.96 | 327.489 | | |
| 1,400.00 | 1,376.33 | 2,026.45 | 2,049.94 | 7.17 | 9.70 | 36.17 | -3,934.66 | -3,076.64 | 4,863.34 | 4,847.54 | 15.80 | 307.829 | | |
| 1,500.00 | 1,472.97 | 2,116.90 | 2,142.27 | 7.65 | 10.18 | 36.29 | -3,927.58 | -3,064.91 | 4,828.86 | 4,812.23 | 16.63 | 290.449 | | |
| 1,600.00 | 1,569.61 | 2,210.25 | 2,234.61 | 8.13 | 10.67 | 36.42 | -3,920.50 | -3,053.18 | 4,794.39 | 4,776.92 | 17.47 | 274.366 | | |
| 1,700.00 | 1,666.24 | 2,303.60 | 2,326.95 | 8.62 | 11.16 | 36.55 | -3,913.43 | -3,041.45 | 4,759.95 | 4,741.62 | 18.33 | 259.668 | | |
| 1,800.00 | 1,762.88 | 2,396.94 | 2,419.28 | 9.12 | 11.66 | 36.67 | -3,906.35 | -3,029.72 | 4,725.53 | 4,706.33 | 19.19 | 246.202 | | |
| 1,900.00 | 1,859.52 | 2,490.29 | 2,511.62 | 9.62 | 12.15 | 36.80 | -3,899.27 | -3,017.99 | 4,691.13 | 4,671.06 | 20.06 | 233.832 | | |
| 2,000.00 | 1,956.16 | 2,583.64 | 2,603.96 | 10.13 | 12.64 | 36.94 | -3,892.19 | -3,006.26 | 4,656.75 | 4,635.81 | 20.94 | 222.438 | | |
| 2,100.00 | 2,052.79 | 2,676.98 | 2,696.29 | 10.64 | 13.14 | 37.07 | -3,885.11 | -2,994.53 | 4,622.39 | 4,600.58 | 21.81 | 211.918 | | |
| 2,200.00 | 2,149.43 | 2,770.33 | 2,788.63 | 11.15 | 13.63 | 37.21 | -3,878.03 | -2,982.81 | 4,588.06 | 4,565.37 | 22.69 | 202.180 | | |
| 2,300.00 | 2,246.07 | 2,863.68 | 2,880.96 | 11.66 | 14.12 | 37.35 | -3,870.96 | -2,971.08 | 4,553.75 | 4,530.17 | 23.58 | 193.145 | | |
| 2,400.00 | 2,342.71 | 2,957.02 | 2,973.30 | 12.18 | 14.62 | 37.49 | -3,863.88 | -2,959.35 | 4,519.46 | 4,495.00 | 24.46 | 184.742 | | |
| 2,500.00 | 2,439.34 | 3,050.37 | 3,065.64 | 12.70 | 15.11 | 37.63 | -3,856.80 | -2,947.62 | 4,485.20 | 4,459.85 | 25.35 | 176.911 | | |
| 2,600.00 | 2,535.98 | 3,143.72 | 3,157.97 | 13.22 | 15.60 | 37.78 | -3,849.72 | -2,935.89 | 4,450.97 | 4,424.72 | 26.24 | 169.597 | | |
| 2,700.00 | 2,632.62 | 3,237.06 | 3,250.31 | 13.75 | 16.10 | 37.92 | -3,842.64 | -2,924.16 | 4,416.76 | 4,389.62 | 27.14 | 162.752 | | |
| 2,800.00 | 2,729.26 | 3,330.41 | 3,342.65 | 14.27 | 16.59 | 38.07 | -3,835.57 | -2,912.43 | 4,382.58 | 4,354.54 | 28.03 | 156.334 | | |
| 2,900.00 | 2,825.89 | 3,423.76 | 3,434.98 | 14.80 | 17.09 | 38.22 | -3,828.49 | -2,900.70 | 4,348.42 | 4,319.49 | 28.93 | 150.306 | | |
| 3,000.00 | 2,922.53 | 3,517.11 | 3,527.32 | 15.32 | 17.58 | 38.38 | -3,821.41 | -2,888.97 | 4,314.29 | 4,284.46 | 29.83 | 144.635 | | |
| 3,100.00 | 3,019.17 | 3,610.45 | 3,619.65 | 15.85 | 18.08 | 38.53 | -3,814.33 | -2,877.25 | 4,280.19 | 4,249.46 | 30.73 | 139.289 | | |
| 3,200.00 | 3,115.81 | 3,703.80 | 3,711.99 | 16.38 | 18.57 | 38.69 | -3,807.25 | -2,865.52 | 4,246.12 | 4,214.49 | 31.63 | 134.243 | | |
| 3,300.00 | 3,212.44 | 3,797.15 | 3,804.33 | 16.91 | 19.06 | 38.86 | -3,800.17 | -2,853.79 | 4,212.08 | 4,179.55 | 32.53 | 129.473 | | |
| 3,400.00 | 3,309.08 | 3,890.49 | 3,896.66 | 17.44 | 19.56 | 39.02 | -3,793.10 | -2,842.06 | 4,178.07 | 4,144.64 | 33.44 | 124.957 | | |
| 3,500.00 | 3,405.72 | 3,983.84 | 3,989.00 | 17.97 | 20.05 | 39.19 | -3,786.02 | -2,830.33 | 4,144.09 | 4,109.75 | 34.34 | 120.675 | | |
| 3,600.00 | 3,502.36 | 4,077.19 | 4,081.34 | 18.50 | 20.55 | 39.36 | -3,778.94 | -2,818.60 | 4,110.15 | 4,074.90 | 35.25 | 116.612 | | |
| 3,700.00 | 3,598.99 | 4,170.53 | 4,173.67 | 19.03 | 21.04 | 39.53 | -3,771.86 | -2,806.87 | 4,076.23 | 4,040.08 | 36.15 | 112.750 | | |
| 3,800.00 | 3,695.63 | 4,263.88 | 4,266.01 | 19.57 | 21.54 | 39.70 | -3,764.78 | -2,795.14 | 4,042.35 | 4,005.29 | 37.06 | 109.075 | | |
| 3,900.00 | 3,792.27 | 4,357.23 | 4,358.34 | 20.10 | 22.03 | 39.88 | -3,757.70 | -2,783.41 | 4,008.51 | 3,970.54 | 37.97 | 105.574 | | |
| 4,000.00 | 3,888.91 | 4,450.57 | 4,450.68 | 20.63 | 22.52 | 40.06 | -3,750.63 | -2,771.69 | 3,974.70 | 3,935.82 | 38.88 | 102.235 | | |
| 4,100.00 | 3,985.54 | 4,543.92 | 4,543.02 | 21.17 | 23.02 | 40.25 | -3,743.55 | -2,759.96 | 3,940.92 | 3,901.13 | 39.79 | 99.048 | | |
| 4,200.00 | 4,082.18 | 4,637.27 | 4,635.35 | 21.70 | 23.51 | 40.43 | -3,736.47 | -2,748.23 | 3,907.19 | 3,866.49 | 40.70 | 96.003 | | |
| 4,300.00 | 4,178.82 | 4,730.62 | 4,727.69 | 22.24 | 24.01 | 40.62 | -3,729.39 | -2,736.50 | 3,873.49 | 3,831.88 | 41.61 | 93.090 | | |
| 4,400.00 | 4,275.46 | 4,826.06 | 4,820.02 | 22.77 | 24.51 | 40.82 | -3,722.31 | -2,724.77 | 3,839.83 | 3,797.30 | 42.53 | 90.281 | | |
| 4,500.00 | 4,372.09 | 4,917.31 | 4,912.36 | 23.31 | 25.00 | 41.02 | -3,715.23 | -2,713.04 | 3,806.21 | 3,762.77 | 43.44 | 87.629 | | |
| 4,600.00 | 4,468.73 | 5,010.66 | 5,004.70 | 23.84 | 25.49 | 41.22 | -3,708.16 | -2,701.31 | 3,772.63 | 3,728.28 | 44.35 | 85.067 | | |
| 4,700.00 | 4,565.37 | 5,104.00 | 5,097.03 | 24.38 | 25.99 | 41.42 | -3,701.08 | -2,689.58 | 3,739.10 | 3,693.83 | 45.26 | 82.608 | | |
| 4,800.00 | 4,662.01 | 5,197.35 | 5,189.37 | 24.91 | 26.48 | 41.63 | -3,694.00 | -2,677.85 | 3,705.61 | 3,659.43 | 46.18 | 80.245 | | |
| 4,900.00 | 4,758.64 | 5,290.70 | 5,281.71 | 25.45 | 26.98 | 41.84 | -3,686.92 | -2,666.12 | 3,672.16 | 3,625.07 | 47.09 | 77.975 | | |
| 5,000.00 | 4,855.28 | 5,384.04 | 5,374.04 | 25.99 | 27.47 | 42.05 | -3,679.84 | -2,654.40 | 3,638.76 | 3,590.75 | 48.01 | 75.790 | | |
| 5,100.00 | 4,951.92 | 5,477.39 | 5,466.38 | 26.53 | 27.97 | 42.27 | -3,672.77 | -2,642.67 | 3,605.41 | 3,556.48 | 48.93 | 73.688 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWVD | | | | | | | | | | | | | Offset Well Error: | 0.00 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,570.74 | 5,558.71 | 27.06 | 28.46 | 42.50 | -3,665.69 | -2,630.94 | 3,572.10 | 3,522.26 | 49.85 | 71.663 | | |
| 5,300.00 | 5,145.19 | 5,664.09 | 5,651.05 | 27.60 | 28.96 | 42.72 | -3,658.61 | -2,619.21 | 3,538.85 | 3,488.08 | 50.76 | 69.711 | | |
| 5,400.00 | 5,241.83 | 5,757.43 | 5,743.39 | 28.14 | 29.45 | 42.96 | -3,651.53 | -2,607.48 | 3,505.65 | 3,453.96 | 51.68 | 67.828 | | |
| 5,500.00 | 5,338.47 | 5,850.78 | 5,835.72 | 28.67 | 29.95 | 43.19 | -3,644.45 | -2,595.75 | 3,472.50 | 3,419.89 | 52.60 | 66.011 | | |
| 5,600.00 | 5,435.11 | 5,944.13 | 5,928.06 | 29.21 | 30.44 | 43.43 | -3,637.37 | -2,584.02 | 3,439.40 | 3,385.88 | 53.53 | 64.257 | | |
| 5,700.00 | 5,531.74 | 6,037.47 | 6,020.40 | 29.75 | 30.93 | 43.68 | -3,630.30 | -2,572.29 | 3,406.36 | 3,351.91 | 54.45 | 62.562 | | |
| 5,800.00 | 5,628.38 | 6,130.82 | 6,112.73 | 30.29 | 31.43 | 43.93 | -3,623.22 | -2,560.56 | 3,373.38 | 3,318.01 | 55.37 | 60.924 | | |
| 5,900.00 | 5,725.02 | 6,225.86 | 6,205.07 | 30.83 | 31.93 | 44.18 | -3,616.14 | -2,548.84 | 3,340.46 | 3,284.16 | 56.30 | 59.331 | | |
| 6,000.00 | 5,821.66 | 6,317.51 | 6,297.40 | 31.37 | 32.42 | 44.44 | -3,609.06 | -2,537.11 | 3,307.60 | 3,250.38 | 57.22 | 57.807 | | |
| 6,100.00 | 5,918.29 | 6,374.99 | 6,354.26 | 31.90 | 32.72 | 44.60 | -3,604.70 | -2,529.88 | 3,275.00 | 3,216.92 | 58.08 | 56.391 | | |
| 6,200.00 | 6,014.93 | 6,400.00 | 6,379.05 | 32.44 | 32.85 | 44.68 | -3,602.81 | -2,527.23 | 3,244.11 | 3,185.25 | 58.86 | 55.116 | | |
| 6,300.00 | 6,111.57 | 6,425.01 | 6,403.94 | 32.98 | 32.97 | 44.77 | -3,600.94 | -2,525.55 | 3,215.53 | 3,155.90 | 59.62 | 53.931 | | |
| 6,400.00 | 6,208.21 | 6,440.61 | 6,419.49 | 33.52 | 33.04 | 44.83 | -3,599.78 | -2,525.01 | 3,189.22 | 3,128.88 | 60.34 | 52.855 | | |
| 6,500.00 | 6,304.84 | 6,450.00 | 6,428.85 | 34.06 | 33.08 | 44.87 | -3,599.09 | -2,524.86 | 3,165.37 | 3,104.36 | 61.01 | 51.887 | | |
| 6,600.00 | 6,401.37 | 6,479.85 | 6,458.60 | 34.60 | 33.19 | 27.55 | -3,596.90 | -2,525.31 | 3,142.13 | 3,080.43 | 61.69 | 50.930 | | |
| 6,700.00 | 6,496.25 | 6,500.00 | 6,478.68 | 35.12 | 33.26 | 3.19 | -3,595.45 | -2,526.41 | 3,111.11 | 3,048.82 | 62.29 | 49.949 | | |
| 6,800.00 | 6,587.15 | 6,525.01 | 6,503.52 | 35.59 | 33.34 | -11.85 | -3,593.67 | -2,528.66 | 3,071.45 | 3,008.65 | 62.81 | 48.904 | | |
| 6,900.00 | 6,671.83 | 6,537.15 | 6,515.54 | 36.03 | 33.37 | -22.45 | -3,592.82 | -2,530.10 | 3,023.79 | 2,960.59 | 63.19 | 47.849 | | |
| 7,000.00 | 6,748.21 | 6,550.00 | 6,528.24 | 36.41 | 33.41 | -31.31 | -3,591.92 | -2,531.88 | 2,969.13 | 2,905.62 | 63.51 | 46.749 | | |
| 7,100.00 | 6,814.41 | 6,571.63 | 6,549.52 | 36.76 | 33.46 | -39.86 | -3,590.44 | -2,535.45 | 2,908.49 | 2,844.68 | 63.81 | 45.580 | | |
| 7,200.00 | 6,868.79 | 6,600.00 | 6,577.23 | 37.07 | 33.53 | -48.86 | -3,588.53 | -2,541.23 | 2,843.34 | 2,779.22 | 64.11 | 44.348 | | |
| 7,300.00 | 6,910.01 | 6,600.00 | 6,577.23 | 37.39 | 33.53 | -57.97 | -3,588.53 | -2,541.23 | 2,774.75 | 2,710.44 | 64.30 | 43.152 | | |
| 7,400.00 | 6,937.07 | 6,611.98 | 6,588.84 | 37.76 | 33.55 | -67.53 | -3,587.74 | -2,544.04 | 2,704.76 | 2,640.16 | 64.60 | 41.867 | | |
| 7,500.00 | 6,949.29 | 6,625.01 | 6,601.42 | 38.27 | 33.58 | -76.88 | -3,586.89 | -2,547.34 | 2,635.09 | 2,570.07 | 65.02 | 40.529 | | |
| 7,600.00 | 6,949.75 | 6,625.01 | 6,601.42 | 39.02 | 33.58 | -79.71 | -3,586.89 | -2,547.34 | 2,567.34 | 2,501.80 | 65.54 | 39.173 | | |
| 7,700.00 | 6,949.37 | 6,634.87 | 6,610.89 | 40.05 | 33.60 | -79.99 | -3,586.25 | -2,550.02 | 2,501.72 | 2,435.42 | 66.30 | 37.732 | | |
| 7,800.00 | 6,948.99 | 6,650.00 | 6,625.34 | 41.35 | 33.63 | -80.41 | -3,585.29 | -2,554.40 | 2,438.40 | 2,371.10 | 67.30 | 36.230 | | |
| 7,900.00 | 6,948.61 | 6,650.00 | 6,625.34 | 42.86 | 33.63 | -80.41 | -3,585.29 | -2,554.40 | 2,377.42 | 2,308.93 | 68.49 | 34.710 | | |
| 8,000.00 | 6,948.23 | 6,650.00 | 6,625.34 | 44.53 | 33.63 | -80.41 | -3,585.29 | -2,554.40 | 2,319.15 | 2,249.22 | 69.94 | 33.161 | | |
| 8,100.00 | 6,947.85 | 6,670.42 | 6,644.66 | 46.34 | 33.66 | -80.98 | -3,584.01 | -2,560.86 | 2,263.52 | 2,191.85 | 71.67 | 31.583 | | |
| 8,200.00 | 6,947.47 | 6,681.56 | 6,655.12 | 48.26 | 33.67 | -81.29 | -3,583.33 | -2,564.64 | 2,210.94 | 2,137.31 | 73.63 | 30.028 | | |
| 8,300.00 | 6,947.09 | 6,700.00 | 6,672.28 | 50.28 | 33.70 | -81.79 | -3,582.22 | -2,571.31 | 2,161.54 | 2,085.71 | 75.83 | 28.505 | | |
| 8,400.00 | 6,946.72 | 6,707.55 | 6,679.24 | 52.39 | 33.71 | -82.00 | -3,581.77 | -2,574.18 | 2,115.44 | 2,037.19 | 78.25 | 27.034 | | |
| 8,500.00 | 6,946.34 | 6,725.01 | 6,695.23 | 54.56 | 33.73 | -82.47 | -3,580.75 | -2,581.15 | 2,072.91 | 1,992.03 | 80.88 | 25.630 | | |
| 8,600.00 | 6,945.96 | 6,739.92 | 6,708.72 | 56.80 | 33.74 | -82.88 | -3,579.90 | -2,587.43 | 2,034.08 | 1,950.39 | 83.69 | 24.305 | | |
| 8,700.00 | 6,945.58 | 6,750.00 | 6,717.75 | 59.10 | 33.75 | -83.15 | -3,579.34 | -2,591.86 | 1,999.16 | 1,912.49 | 86.67 | 23.067 | | |
| 8,800.00 | 6,945.20 | 6,781.12 | 6,745.20 | 61.44 | 33.78 | -83.97 | -3,577.65 | -2,606.43 | 1,968.14 | 1,878.41 | 89.73 | 21.935 | | |
| 8,900.00 | 6,944.82 | 6,806.10 | 6,766.69 | 63.83 | 33.79 | -84.62 | -3,576.36 | -2,619.09 | 1,941.23 | 1,848.35 | 92.88 | 20.900 | | |
| 9,000.00 | 6,944.44 | 6,834.78 | 6,790.74 | 66.25 | 33.81 | -85.35 | -3,574.95 | -2,634.65 | 1,918.44 | 1,822.37 | 96.07 | 19.969 | | |
| 9,100.00 | 6,944.06 | 6,867.89 | 6,817.60 | 68.71 | 33.82 | -86.17 | -3,573.42 | -2,653.94 | 1,899.74 | 1,800.47 | 99.26 | 19.138 | | |
| 9,200.00 | 6,943.68 | 6,906.32 | 6,847.48 | 71.20 | 33.84 | -87.08 | -3,571.77 | -2,678.05 | 1,885.02 | 1,782.60 | 102.42 | 18.405 | | |
| 9,300.00 | 6,943.30 | 6,950.00 | 6,879.60 | 73.72 | 33.85 | -88.06 | -3,570.09 | -2,707.58 | 1,874.08 | 1,768.57 | 105.51 | 17.762 | | |
| 9,400.00 | 6,942.92 | 7,003.38 | 6,916.01 | 76.26 | 33.88 | -89.19 | -3,568.30 | -2,746.56 | 1,866.62 | 1,758.11 | 108.52 | 17.201 | | |
| 9,500.00 | 6,942.54 | 7,064.31 | 6,953.42 | 78.82 | 33.94 | -90.34 | -3,566.66 | -2,794.59 | 1,862.21 | 1,750.75 | 111.46 | 16.707 | | |
| 9,600.00 | 6,942.16 | 7,134.79 | 6,990.77 | 81.40 | 34.05 | -91.50 | -3,565.29 | -2,854.31 | 1,860.29 | 1,745.91 | 114.37 | 16.265 | | |
| 9,654.72 | 6,941.96 | 7,177.56 | 7,010.13 | 82.83 | 34.16 | -92.10 | -3,564.74 | -2,892.43 | 1,860.05 | 1,744.06 | 115.99 | 16.036 CC | | |
| 9,700.00 | 6,941.78 | 7,215.14 | 7,025.01 | 84.00 | 34.29 | -92.56 | -3,564.44 | -2,926.93 | 1,860.19 | 1,742.84 | 117.34 | 15.852 | | |
| 9,800.00 | 6,941.40 | 7,304.45 | 7,052.05 | 86.62 | 34.75 | -93.41 | -3,564.42 | -3,011.98 | 1,861.23 | 1,740.73 | 120.49 | 15.447 | | |
| 9,900.00 | 6,941.03 | 7,400.34 | 7,067.57 | 89.25 | 35.50 | -93.89 | -3,565.46 | -3,106.50 | 1,862.80 | 1,738.88 | 123.92 | 15.033 | | |
| 10,000.00 | 6,940.65 | 7,500.56 | 7,069.77 | 91.90 | 36.55 | -93.97 | -3,567.59 | -3,205.51 | 1,864.52 | 1,736.85 | 127.67 | 14.604 | | |
| 10,100.00 | 6,940.27 | 7,599.43 | 7,069.17 | 94.56 | 37.87 | -93.96 | -3,569.94 | -3,305.47 | 1,866.26 | 1,734.59 | 131.68 | 14.173 | | |
| 10,200.00 | 6,939.89 | 7,700.59 | 7,068.57 | 97.23 | 39.47 | -93.95 | -3,572.30 | -3,405.42 | 1,868.00 | 1,732.04 | 135.96 | 13.739 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 7,799.40 | 7,067.97 | 99.91 | 41.26 | -93.94 | -3,574.65 | -3,505.38 | 1,869.74 | 1,729.32 | 140.42 | 13.315 | | |
| 10,400.00 | 6,939.13 | 7,900.62 | 7,067.36 | 102.60 | 43.27 | -93.93 | -3,577.01 | -3,605.33 | 1,871.48 | 1,726.36 | 145.12 | 12.896 | | |
| 10,500.00 | 6,938.75 | 8,000.63 | 7,066.76 | 105.30 | 45.42 | -93.92 | -3,579.37 | -3,705.28 | 1,873.22 | 1,723.26 | 149.95 | 12.492 | | |
| 10,600.00 | 6,938.37 | 8,100.65 | 7,066.16 | 108.00 | 47.70 | -93.90 | -3,581.72 | -3,805.24 | 1,874.95 | 1,720.02 | 154.94 | 12.101 | | |
| 10,700.00 | 6,937.99 | 8,200.67 | 7,065.56 | 110.72 | 50.10 | -93.89 | -3,584.08 | -3,905.19 | 1,876.69 | 1,716.65 | 160.04 | 11.726 | | |
| 10,800.00 | 6,937.61 | 8,300.68 | 7,064.96 | 113.44 | 52.60 | -93.88 | -3,586.44 | -4,005.15 | 1,878.43 | 1,713.17 | 165.26 | 11.367 | | |
| 10,900.00 | 6,937.23 | 8,400.70 | 7,064.35 | 116.17 | 55.19 | -93.87 | -3,588.79 | -4,105.10 | 1,880.17 | 1,709.60 | 170.57 | 11.023 | | |
| 11,000.00 | 6,936.85 | 8,500.71 | 7,063.75 | 118.90 | 57.85 | -93.86 | -3,591.15 | -4,205.06 | 1,881.91 | 1,705.95 | 175.96 | 10.695 | | |
| 11,100.00 | 6,936.47 | 8,600.73 | 7,063.15 | 121.64 | 60.58 | -93.85 | -3,593.50 | -4,305.01 | 1,883.65 | 1,702.23 | 181.42 | 10.383 | | |
| 11,200.00 | 6,936.09 | 8,700.74 | 7,062.55 | 124.39 | 63.37 | -93.84 | -3,595.86 | -4,404.97 | 1,885.39 | 1,698.44 | 186.95 | 10.085 | | |
| 11,300.00 | 6,935.71 | 8,800.76 | 7,061.95 | 127.14 | 66.20 | -93.83 | -3,598.22 | -4,504.92 | 1,887.13 | 1,694.60 | 192.53 | 9.802 | | |
| 11,400.00 | 6,935.34 | 8,899.23 | 7,061.34 | 129.90 | 69.03 | -93.82 | -3,600.57 | -4,604.88 | 1,888.87 | 1,690.75 | 198.12 | 9.534 | | |
| 11,500.00 | 6,934.96 | 9,000.79 | 7,060.74 | 132.66 | 72.00 | -93.81 | -3,602.93 | -4,704.83 | 1,890.61 | 1,686.77 | 203.83 | 9.275 | | |
| 11,600.00 | 6,934.58 | 9,099.19 | 7,060.14 | 135.42 | 74.90 | -93.80 | -3,605.29 | -4,804.79 | 1,892.35 | 1,682.85 | 209.50 | 9.033 | | |
| 11,700.00 | 6,934.20 | 9,199.18 | 7,059.54 | 138.19 | 77.88 | -93.79 | -3,607.64 | -4,904.74 | 1,894.09 | 1,678.85 | 215.24 | 8.800 | | |
| 11,800.00 | 6,933.82 | 9,299.16 | 7,058.93 | 140.96 | 80.89 | -93.78 | -3,610.00 | -5,004.70 | 1,895.83 | 1,674.81 | 221.01 | 8.578 | | |
| 11,900.00 | 6,933.44 | 9,400.85 | 7,058.33 | 143.74 | 83.97 | -93.77 | -3,612.36 | -5,104.65 | 1,897.57 | 1,670.70 | 226.87 | 8.364 | | |
| 12,000.00 | 6,933.06 | 9,499.13 | 7,057.73 | 146.51 | 86.97 | -93.76 | -3,614.71 | -5,204.61 | 1,899.31 | 1,666.66 | 232.64 | 8.164 | | |
| 12,100.00 | 6,932.68 | 9,600.89 | 7,057.13 | 149.30 | 90.09 | -93.75 | -3,617.07 | -5,304.56 | 1,901.05 | 1,662.50 | 238.55 | 7.969 | | |
| 12,200.00 | 6,932.30 | 9,699.10 | 7,056.53 | 152.08 | 93.13 | -93.74 | -3,619.42 | -5,404.51 | 1,902.78 | 1,658.42 | 244.36 | 7.787 | | |
| 12,300.00 | 6,931.92 | 9,800.92 | 7,055.92 | 154.87 | 96.29 | -93.73 | -3,621.78 | -5,504.47 | 1,904.52 | 1,654.22 | 250.31 | 7.609 | | |
| 12,400.00 | 6,931.54 | 9,900.93 | 7,055.32 | 157.66 | 99.41 | -93.72 | -3,624.14 | -5,604.42 | 1,906.26 | 1,650.05 | 256.21 | 7.440 | | |
| 12,500.00 | 6,931.16 | 10,000.95 | 7,054.72 | 160.45 | 102.54 | -93.71 | -3,626.49 | -5,704.38 | 1,908.00 | 1,645.87 | 262.13 | 7.279 | | |
| 12,600.00 | 6,930.78 | 10,100.96 | 7,054.12 | 163.24 | 105.69 | -93.70 | -3,628.85 | -5,804.33 | 1,909.74 | 1,641.68 | 268.07 | 7.124 | | |
| 12,700.00 | 6,930.40 | 10,200.98 | 7,053.52 | 166.04 | 108.84 | -93.69 | -3,631.21 | -5,904.29 | 1,911.49 | 1,637.47 | 274.02 | 6.976 | | |
| 12,800.00 | 6,930.03 | 10,301.00 | 7,052.91 | 168.84 | 112.01 | -93.68 | -3,633.56 | -6,004.24 | 1,913.23 | 1,633.25 | 279.98 | 6.833 | | |
| 12,900.00 | 6,929.65 | 10,401.01 | 7,052.31 | 171.64 | 115.18 | -93.67 | -3,635.92 | -6,104.20 | 1,914.97 | 1,629.02 | 285.95 | 6.697 | | |
| 13,000.00 | 6,929.27 | 10,501.03 | 7,051.71 | 174.44 | 118.37 | -93.66 | -3,638.27 | -6,204.15 | 1,916.71 | 1,624.77 | 291.93 | 6.566 | | |
| 13,100.00 | 6,928.89 | 10,601.04 | 7,051.11 | 177.24 | 121.56 | -93.65 | -3,640.63 | -6,304.11 | 1,918.45 | 1,620.52 | 297.92 | 6.439 | | |
| 13,200.00 | 6,928.51 | 10,701.06 | 7,050.51 | 180.05 | 124.76 | -93.64 | -3,642.99 | -6,404.06 | 1,920.19 | 1,616.26 | 303.92 | 6.318 | | |
| 13,300.00 | 6,928.13 | 10,801.07 | 7,049.90 | 182.86 | 127.96 | -93.63 | -3,645.34 | -6,504.02 | 1,921.93 | 1,611.99 | 309.93 | 6.201 | | |
| 13,400.00 | 6,927.75 | 10,901.09 | 7,049.30 | 185.67 | 131.17 | -93.62 | -3,647.70 | -6,603.97 | 1,923.67 | 1,607.72 | 315.95 | 6.089 | | |
| 13,500.00 | 6,927.37 | 11,001.11 | 7,048.70 | 188.48 | 134.39 | -93.61 | -3,650.06 | -6,703.93 | 1,925.41 | 1,603.44 | 321.97 | 5.980 | | |
| 13,600.00 | 6,926.99 | 11,098.88 | 7,048.10 | 191.29 | 137.54 | -93.60 | -3,652.41 | -6,803.88 | 1,927.15 | 1,599.22 | 327.93 | 5.877 | | |
| 13,700.00 | 6,926.61 | 11,201.14 | 7,047.50 | 194.10 | 140.84 | -93.59 | -3,654.77 | -6,903.84 | 1,928.89 | 1,594.85 | 334.04 | 5.774 | | |
| 13,800.00 | 6,926.23 | 11,298.85 | 7,046.89 | 196.92 | 143.99 | -93.58 | -3,657.12 | -7,003.79 | 1,930.63 | 1,590.62 | 340.01 | 5.678 | | |
| 13,900.00 | 6,925.85 | 11,401.17 | 7,046.29 | 199.73 | 147.30 | -93.57 | -3,659.48 | -7,103.75 | 1,932.37 | 1,586.24 | 346.13 | 5.583 | | |
| 14,000.00 | 6,925.47 | 11,501.18 | 7,045.69 | 202.55 | 150.54 | -93.56 | -3,661.84 | -7,203.70 | 1,934.11 | 1,581.93 | 352.18 | 5.492 | | |
| 14,100.00 | 6,925.09 | 11,598.80 | 7,045.09 | 205.37 | 153.71 | -93.55 | -3,664.19 | -7,303.65 | 1,935.85 | 1,577.69 | 358.16 | 5.405 | | |
| 14,200.00 | 6,924.71 | 11,701.22 | 7,044.49 | 208.19 | 157.03 | -93.54 | -3,666.55 | -7,403.61 | 1,937.59 | 1,573.29 | 364.30 | 5.319 | | |
| 14,300.00 | 6,924.34 | 11,798.77 | 7,043.88 | 211.01 | 160.20 | -93.53 | -3,668.91 | -7,503.56 | 1,939.34 | 1,569.04 | 370.29 | 5.237 | | |
| 14,400.00 | 6,923.96 | 11,898.75 | 7,043.28 | 213.83 | 163.45 | -93.52 | -3,671.26 | -7,603.52 | 1,941.08 | 1,564.71 | 376.36 | 5.157 | | |
| 14,500.00 | 6,923.58 | 11,998.74 | 7,042.68 | 216.65 | 166.71 | -93.51 | -3,673.62 | -7,703.47 | 1,942.82 | 1,560.38 | 382.44 | 5.080 | | |
| 14,600.00 | 6,923.20 | 12,101.28 | 7,042.08 | 219.48 | 170.05 | -93.50 | -3,675.97 | -7,803.43 | 1,944.56 | 1,555.96 | 388.60 | 5.004 | | |
| 14,700.00 | 6,922.82 | 12,201.29 | 7,041.48 | 222.30 | 173.31 | -93.49 | -3,678.33 | -7,903.38 | 1,946.30 | 1,551.62 | 394.68 | 4.931 | | |
| 14,800.00 | 6,922.44 | 12,298.69 | 7,040.87 | 225.13 | 176.49 | -93.48 | -3,680.69 | -8,003.34 | 1,948.04 | 1,547.36 | 400.68 | 4.862 | | |
| 14,900.00 | 6,922.06 | 12,398.68 | 7,040.27 | 227.95 | 179.75 | -93.47 | -3,683.04 | -8,103.29 | 1,949.78 | 1,543.01 | 406.77 | 4.793 | | |
| 14,915.55 | 6,922.00 | 12,414.22 | 7,040.18 | 228.39 | 180.26 | -93.47 | -3,683.41 | -8,118.84 | 1,950.05 | 1,542.34 | 407.72 | 4.783 ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 15,809.10 | 7,242.40 | 3.28 | 248.34 | 0.54 | 2,323.75 | 21.87 | 7,606.10 | | | | | |
| 100.00 | 100.00 | 15,808.86 | 7,242.40 | 3.28 | 248.33 | 0.53 | 2,323.75 | 21.62 | 7,510.94 | 7,388.84 | 122.10 | 61.515 | | |
| 200.00 | 200.00 | 15,808.61 | 7,242.41 | 3.34 | 248.32 | 0.53 | 2,323.75 | 21.38 | 7,415.91 | 7,293.33 | 122.59 | 60.496 | | |
| 300.00 | 299.98 | 15,808.21 | 7,242.41 | 3.44 | 248.31 | 175.60 | 2,323.75 | 20.97 | 7,321.59 | 7,198.47 | 123.12 | 59.467 | | |
| 400.00 | 399.84 | 15,807.48 | 7,242.41 | 3.59 | 248.29 | 175.95 | 2,323.76 | 20.25 | 7,228.65 | 7,104.91 | 123.74 | 58.420 | | |
| 500.00 | 499.45 | 15,806.44 | 7,242.41 | 3.79 | 248.26 | 176.24 | 2,323.76 | 19.20 | 7,137.27 | 7,012.82 | 124.45 | 57.352 | | |
| 600.00 | 598.70 | 15,805.07 | 7,242.41 | 4.03 | 248.22 | 176.47 | 2,323.76 | 17.84 | 7,047.62 | 6,922.36 | 125.26 | 56.265 | | |
| 700.00 | 697.47 | 15,803.39 | 7,242.42 | 4.31 | 248.18 | 176.66 | 2,323.76 | 16.16 | 6,959.88 | 6,833.71 | 126.17 | 55.161 | | |
| 800.00 | 795.62 | 15,801.40 | 7,242.42 | 4.64 | 248.12 | 176.82 | 2,323.77 | 14.16 | 6,874.23 | 6,747.03 | 127.20 | 54.043 | | |
| 900.00 | 893.06 | 15,800.97 | 7,242.43 | 5.00 | 248.11 | 176.95 | 2,323.77 | 11.86 | 6,790.86 | 6,662.49 | 128.37 | 52.900 | | |
| 1,000.00 | 989.78 | 15,803.54 | 7,242.43 | 5.39 | 248.18 | 176.98 | 2,323.78 | 9.29 | 6,709.64 | 6,579.94 | 129.70 | 51.731 | | |
| 1,100.00 | 1,086.42 | 15,806.15 | 7,242.44 | 5.81 | 248.25 | 176.94 | 2,323.78 | 6.68 | 6,629.14 | 6,498.01 | 131.13 | 50.555 | | |
| 1,200.00 | 1,183.06 | 15,808.75 | 7,242.45 | 6.25 | 248.33 | 176.90 | 2,323.78 | 4.08 | 6,549.17 | 6,416.55 | 132.62 | 49.384 | | |
| 1,300.00 | 1,279.69 | 15,811.35 | 7,242.45 | 6.71 | 248.40 | 176.86 | 2,323.79 | 1.48 | 6,469.76 | 6,335.58 | 134.18 | 48.217 | | |
| 1,400.00 | 1,376.33 | 15,813.95 | 7,242.46 | 7.17 | 248.47 | 176.83 | 2,323.79 | -1.12 | 6,390.93 | 6,255.12 | 135.81 | 47.057 | | |
| 1,500.00 | 1,472.97 | 15,816.55 | 7,242.47 | 7.65 | 248.55 | 176.79 | 2,323.80 | -3.72 | 6,312.70 | 6,175.18 | 137.52 | 45.905 | | |
| 1,600.00 | 1,569.61 | 15,819.16 | 7,242.47 | 8.13 | 248.62 | 176.75 | 2,323.80 | -6.32 | 6,235.09 | 6,095.79 | 139.29 | 44.762 | | |
| 1,700.00 | 1,666.24 | 15,821.76 | 7,242.48 | 8.62 | 248.69 | 176.71 | 2,323.81 | -8.93 | 6,158.12 | 6,016.98 | 141.14 | 43.630 | | |
| 1,800.00 | 1,762.88 | 15,824.36 | 7,242.49 | 9.12 | 248.77 | 176.68 | 2,323.81 | -11.53 | 6,081.82 | 5,938.75 | 143.07 | 42.510 | | |
| 1,900.00 | 1,859.52 | 15,826.96 | 7,242.49 | 9.62 | 248.84 | 176.64 | 2,323.82 | -14.13 | 6,006.22 | 5,861.15 | 145.07 | 41.403 | | |
| 2,000.00 | 1,956.16 | 15,829.56 | 7,242.50 | 10.13 | 248.92 | 176.60 | 2,323.82 | -16.73 | 5,931.34 | 5,784.20 | 147.14 | 40.310 | | |
| 2,100.00 | 2,052.79 | 15,832.16 | 7,242.50 | 10.64 | 248.99 | 176.56 | 2,323.83 | -19.33 | 5,857.21 | 5,707.92 | 149.29 | 39.234 | | |
| 2,200.00 | 2,149.43 | 15,834.77 | 7,242.51 | 11.15 | 249.06 | 176.52 | 2,323.83 | -21.93 | 5,783.85 | 5,632.34 | 151.51 | 38.174 | | |
| 2,300.00 | 2,246.07 | 15,837.37 | 7,242.52 | 11.66 | 249.14 | 176.49 | 2,323.84 | -24.54 | 5,711.30 | 5,557.50 | 153.81 | 37.133 | | |
| 2,400.00 | 2,342.71 | 15,839.97 | 7,242.52 | 12.18 | 249.21 | 176.45 | 2,323.84 | -27.14 | 5,639.60 | 5,483.42 | 156.17 | 36.111 | | |
| 2,500.00 | 2,439.34 | 15,842.57 | 7,242.53 | 12.70 | 249.28 | 176.41 | 2,323.85 | -29.74 | 5,568.76 | 5,410.14 | 158.61 | 35.109 | | |
| 2,600.00 | 2,535.98 | 15,845.17 | 7,242.54 | 13.22 | 249.36 | 176.37 | 2,323.85 | -32.34 | 5,498.83 | 5,337.70 | 161.13 | 34.128 | | |
| 2,700.00 | 2,632.62 | 15,847.77 | 7,242.54 | 13.75 | 249.43 | 176.34 | 2,323.85 | -34.94 | 5,429.83 | 5,266.13 | 163.71 | 33.168 | | |
| 2,800.00 | 2,729.26 | 15,850.38 | 7,242.55 | 14.27 | 249.50 | 176.30 | 2,323.86 | -37.54 | 5,361.82 | 5,195.46 | 166.36 | 32.230 | | |
| 2,900.00 | 2,825.89 | 15,852.98 | 7,242.56 | 14.80 | 249.58 | 176.26 | 2,323.86 | -40.15 | 5,294.81 | 5,125.73 | 169.08 | 31.315 | | |
| 3,000.00 | 2,922.53 | 15,855.58 | 7,242.56 | 15.32 | 249.65 | 176.22 | 2,323.87 | -42.75 | 5,228.86 | 5,056.99 | 171.87 | 30.424 | | |
| 3,100.00 | 3,019.17 | 15,858.18 | 7,242.57 | 15.85 | 249.72 | 176.19 | 2,323.87 | -45.35 | 5,164.01 | 4,989.28 | 174.72 | 29.556 | | |
| 3,200.00 | 3,115.81 | 15,860.78 | 7,242.57 | 16.38 | 249.80 | 176.15 | 2,323.88 | -47.95 | 5,100.28 | 4,922.64 | 177.64 | 28.711 | | |
| 3,300.00 | 3,212.44 | 15,863.38 | 7,242.58 | 16.91 | 249.87 | 176.11 | 2,323.88 | -50.55 | 5,037.74 | 4,857.12 | 180.62 | 27.891 | | |
| 3,400.00 | 3,309.08 | 15,865.99 | 7,242.59 | 17.44 | 249.95 | 176.07 | 2,323.89 | -53.15 | 4,976.42 | 4,792.76 | 183.66 | 27.096 | | |
| 3,500.00 | 3,405.72 | 15,868.59 | 7,242.59 | 17.97 | 250.02 | 176.04 | 2,323.89 | -55.76 | 4,916.36 | 4,729.60 | 186.76 | 26.325 | | |
| 3,600.00 | 3,502.36 | 15,871.19 | 7,242.60 | 18.50 | 250.09 | 176.00 | 2,323.90 | -58.36 | 4,857.62 | 4,667.71 | 189.91 | 25.579 | | |
| 3,700.00 | 3,598.99 | 15,873.79 | 7,242.61 | 19.03 | 250.17 | 175.96 | 2,323.90 | -60.96 | 4,800.24 | 4,607.13 | 193.11 | 24.857 | | |
| 3,800.00 | 3,695.63 | 15,876.39 | 7,242.61 | 19.57 | 250.24 | 175.92 | 2,323.91 | -63.56 | 4,744.28 | 4,547.91 | 196.37 | 24.160 | | |
| 3,900.00 | 3,792.27 | 15,878.99 | 7,242.62 | 20.10 | 250.31 | 175.88 | 2,323.91 | -66.16 | 4,689.78 | 4,490.12 | 199.66 | 23.489 | | |
| 4,000.00 | 3,888.91 | 15,881.60 | 7,242.63 | 20.63 | 250.39 | 175.85 | 2,323.92 | -68.76 | 4,636.79 | 4,433.80 | 203.00 | 22.842 | | |
| 4,100.00 | 3,985.54 | 15,884.20 | 7,242.63 | 21.17 | 250.46 | 175.81 | 2,323.92 | -71.37 | 4,585.38 | 4,379.01 | 206.37 | 22.220 | | |
| 4,200.00 | 4,082.18 | 15,886.80 | 7,242.64 | 21.70 | 250.53 | 175.77 | 2,323.92 | -73.97 | 4,535.58 | 4,325.81 | 209.76 | 21.622 | | |
| 4,300.00 | 4,178.82 | 15,889.40 | 7,242.64 | 22.24 | 250.61 | 175.73 | 2,323.93 | -76.57 | 4,487.45 | 4,274.27 | 213.19 | 21.049 | | |
| 4,400.00 | 4,275.46 | 15,908.06 | 7,242.65 | 22.77 | 251.14 | 175.70 | 2,323.93 | -79.17 | 4,441.06 | 4,224.08 | 216.98 | 20.468 | | |
| 4,500.00 | 4,372.09 | 15,905.46 | 7,242.66 | 23.31 | 251.06 | 175.66 | 2,323.94 | -81.77 | 4,396.45 | 4,176.13 | 220.32 | 19.955 | | |
| 4,600.00 | 4,468.73 | 15,902.86 | 7,242.66 | 23.84 | 250.99 | 175.62 | 2,323.94 | -84.37 | 4,353.68 | 4,130.02 | 223.66 | 19.466 | | |
| 4,700.00 | 4,565.37 | 15,900.26 | 7,242.67 | 24.38 | 250.91 | 175.58 | 2,323.95 | -86.98 | 4,312.80 | 4,085.81 | 226.99 | 19.000 | | |
| 4,800.00 | 4,662.01 | 15,902.41 | 7,242.68 | 24.91 | 250.98 | 175.55 | 2,323.95 | -89.58 | 4,273.87 | 4,043.45 | 230.42 | 18.548 | | |
| 4,900.00 | 4,758.64 | 15,905.01 | 7,242.68 | 25.45 | 251.05 | 175.51 | 2,323.96 | -92.18 | 4,236.94 | 4,003.11 | 233.83 | 18.119 | | |
| 5,000.00 | 4,855.28 | 15,907.61 | 7,242.69 | 25.99 | 251.12 | 175.47 | 2,323.96 | -94.78 | 4,202.07 | 3,964.84 | 237.22 | 17.714 | | |
| 5,100.00 | 4,951.92 | 15,910.21 | 7,242.70 | 26.53 | 251.20 | 175.43 | 2,323.97 | -97.38 | 4,169.30 | 3,928.73 | 240.57 | 17.331 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 15,912.82 | 7,242.70 | 27.06 | 251.27 | 175.39 | 2,323.97 | -99.98 | 4,138.68 | 3,894.81 | 243.87 | 16.971 | | |
| 5,300.00 | 5,145.19 | 15,915.42 | 7,242.71 | 27.60 | 251.34 | 175.36 | 2,323.98 | -102.59 | 4,110.27 | 3,863.16 | 247.11 | 16.633 | | |
| 5,400.00 | 5,241.83 | 15,918.02 | 7,242.71 | 28.14 | 251.42 | 175.32 | 2,323.98 | -105.19 | 4,084.11 | 3,833.83 | 250.29 | 16.318 | | |
| 5,500.00 | 5,338.47 | 15,920.62 | 7,242.72 | 28.67 | 251.49 | 175.28 | 2,323.99 | -107.79 | 4,060.25 | 3,806.86 | 253.38 | 16.024 | | |
| 5,600.00 | 5,435.11 | 15,923.22 | 7,242.73 | 29.21 | 251.56 | 175.24 | 2,323.99 | -110.39 | 4,038.71 | 3,782.32 | 256.40 | 15.752 | | |
| 5,700.00 | 5,531.74 | 15,925.82 | 7,242.73 | 29.75 | 251.64 | 175.21 | 2,323.99 | -112.99 | 4,019.55 | 3,760.24 | 259.31 | 15.501 | | |
| 5,800.00 | 5,628.38 | 15,928.43 | 7,242.74 | 30.29 | 251.71 | 175.17 | 2,324.00 | -115.59 | 4,002.80 | 3,740.68 | 262.12 | 15.271 | | |
| 5,900.00 | 5,725.02 | 15,931.03 | 7,242.75 | 30.83 | 251.79 | 175.13 | 2,324.00 | -118.20 | 3,988.48 | 3,723.66 | 264.82 | 15.061 | | |
| 6,000.00 | 5,821.66 | 15,933.63 | 7,242.75 | 31.37 | 251.86 | 175.09 | 2,324.01 | -120.80 | 3,976.62 | 3,709.23 | 267.39 | 14.872 | | |
| 6,100.00 | 5,918.29 | 15,936.23 | 7,242.76 | 31.90 | 251.93 | 175.06 | 2,324.01 | -123.40 | 3,967.25 | 3,697.41 | 269.84 | 14.702 | | |
| 6,200.00 | 6,014.93 | 15,938.83 | 7,242.77 | 32.44 | 252.01 | 175.02 | 2,324.02 | -126.00 | 3,960.38 | 3,688.23 | 272.14 | 14.552 | | |
| 6,300.00 | 6,111.57 | 15,941.43 | 7,242.77 | 32.98 | 252.08 | 174.98 | 2,324.02 | -128.60 | 3,956.02 | 3,681.71 | 274.31 | 14.422 | | |
| 6,400.00 | 6,208.21 | 15,944.04 | 7,242.78 | 33.52 | 252.15 | 174.94 | 2,324.03 | -131.20 | 3,954.19 | 3,677.86 | 276.32 | 14.310 | | |
| 6,422.55 | 6,230.00 | 15,944.62 | 7,242.78 | 33.64 | 252.17 | 174.93 | 2,324.03 | -131.79 | 3,954.12 | 3,677.36 | 276.76 | 14.287 | CC | |
| 6,500.00 | 6,304.84 | 15,946.64 | 7,242.78 | 34.06 | 252.23 | 174.90 | 2,324.03 | -133.81 | 3,954.88 | 3,676.69 | 278.19 | 14.217 | | |
| 6,600.00 | 6,401.37 | 15,951.42 | 7,242.80 | 34.60 | 252.36 | 157.95 | 2,324.04 | -138.59 | 3,958.11 | 3,678.16 | 279.95 | 14.139 | | |
| 6,700.00 | 6,496.25 | 15,970.03 | 7,242.84 | 35.12 | 252.89 | 134.68 | 2,324.07 | -157.20 | 3,963.87 | 3,681.95 | 281.92 | 14.060 | | |
| 6,800.00 | 6,587.15 | 16,003.76 | 7,242.92 | 35.59 | 253.84 | 121.11 | 2,324.13 | -190.93 | 3,971.79 | 3,687.68 | 284.12 | 13.980 | | |
| 6,900.00 | 6,671.83 | 16,051.79 | 7,243.04 | 36.03 | 255.20 | 112.60 | 2,324.22 | -238.95 | 3,981.31 | 3,694.80 | 286.52 | 13.896 | | |
| 7,000.00 | 6,748.21 | 16,112.92 | 7,243.19 | 36.41 | 256.93 | 106.69 | 2,324.33 | -300.09 | 3,991.69 | 3,702.56 | 289.13 | 13.806 | | |
| 7,100.00 | 6,814.41 | 16,185.67 | 7,243.37 | 36.76 | 258.99 | 102.29 | 2,324.46 | -372.83 | 4,002.10 | 3,710.13 | 291.96 | 13.708 | | |
| 7,200.00 | 6,868.79 | 16,268.22 | 7,243.57 | 37.07 | 261.33 | 98.98 | 2,324.61 | -455.39 | 4,011.71 | 3,716.65 | 295.05 | 13.597 | | |
| 7,300.00 | 6,910.01 | 16,358.56 | 7,243.79 | 37.39 | 263.89 | 96.57 | 2,324.77 | -545.73 | 4,019.75 | 3,721.34 | 298.41 | 13.471 | | |
| 7,400.00 | 6,937.07 | 16,454.46 | 7,244.03 | 37.76 | 266.60 | 95.00 | 2,324.94 | -641.62 | 4,025.59 | 3,723.56 | 302.04 | 13.328 | | |
| 7,500.00 | 6,949.29 | 16,553.55 | 7,244.27 | 38.27 | 269.41 | 94.25 | 2,325.12 | -740.71 | 4,028.79 | 3,722.91 | 305.89 | 13.171 | | |
| 7,600.00 | 6,949.75 | 16,653.53 | 7,244.51 | 39.02 | 272.24 | 94.19 | 2,325.30 | -840.70 | 4,029.77 | 3,719.88 | 309.90 | 13.004 | | |
| 7,700.00 | 6,949.37 | 16,753.53 | 7,244.76 | 40.05 | 275.08 | 94.20 | 2,325.48 | -940.69 | 4,030.60 | 3,716.52 | 314.08 | 12.833 | | |
| 7,800.00 | 6,948.99 | 16,853.52 | 7,245.00 | 41.35 | 277.91 | 94.21 | 2,325.66 | -1,040.69 | 4,031.42 | 3,713.00 | 318.41 | 12.661 | | |
| 7,900.00 | 6,948.61 | 16,953.52 | 7,245.24 | 42.86 | 280.74 | 94.22 | 2,325.84 | -1,140.68 | 4,032.24 | 3,709.35 | 322.89 | 12.488 | | |
| 8,000.00 | 6,948.23 | 17,053.51 | 7,245.49 | 44.53 | 283.58 | 94.23 | 2,326.02 | -1,240.67 | 4,033.06 | 3,705.58 | 327.49 | 12.315 | | |
| 8,100.00 | 6,947.85 | 17,153.51 | 7,245.73 | 46.34 | 286.42 | 94.23 | 2,326.20 | -1,340.67 | 4,033.88 | 3,701.69 | 332.19 | 12.143 | | |
| 8,200.00 | 6,947.47 | 17,253.50 | 7,245.98 | 48.26 | 289.25 | 94.24 | 2,326.38 | -1,440.66 | 4,034.71 | 3,697.71 | 336.99 | 11.973 | | |
| 8,300.00 | 6,947.09 | 17,353.50 | 7,246.22 | 50.28 | 292.09 | 94.25 | 2,326.56 | -1,540.66 | 4,035.53 | 3,693.65 | 341.88 | 11.804 | | |
| 8,400.00 | 6,946.72 | 17,453.49 | 7,246.47 | 52.39 | 294.93 | 94.26 | 2,326.74 | -1,640.65 | 4,036.35 | 3,689.51 | 346.84 | 11.637 | | |
| 8,500.00 | 6,946.34 | 17,553.49 | 7,246.71 | 54.56 | 297.76 | 94.27 | 2,326.92 | -1,740.65 | 4,037.17 | 3,685.30 | 351.87 | 11.474 | | |
| 8,600.00 | 6,945.96 | 17,653.48 | 7,246.96 | 56.80 | 300.60 | 94.27 | 2,327.10 | -1,840.64 | 4,037.99 | 3,681.04 | 356.95 | 11.312 | | |
| 8,700.00 | 6,945.58 | 17,753.48 | 7,247.20 | 59.10 | 303.44 | 94.28 | 2,327.27 | -1,940.64 | 4,038.82 | 3,676.72 | 362.09 | 11.154 | | |
| 8,800.00 | 6,945.20 | 17,853.47 | 7,247.44 | 61.44 | 306.28 | 94.29 | 2,327.45 | -2,040.63 | 4,039.64 | 3,672.36 | 367.28 | 10.999 | | |
| 8,900.00 | 6,944.82 | 17,953.47 | 7,247.69 | 63.83 | 309.12 | 94.30 | 2,327.63 | -2,140.63 | 4,040.46 | 3,667.96 | 372.50 | 10.847 | | |
| 9,000.00 | 6,944.44 | 18,053.46 | 7,247.93 | 66.25 | 311.96 | 94.31 | 2,327.81 | -2,240.62 | 4,041.28 | 3,663.52 | 377.76 | 10.698 | | |
| 9,100.00 | 6,944.06 | 18,153.46 | 7,248.18 | 68.71 | 314.80 | 94.31 | 2,327.99 | -2,340.61 | 4,042.11 | 3,659.05 | 383.05 | 10.552 | | |
| 9,200.00 | 6,943.68 | 18,253.45 | 7,248.42 | 71.20 | 317.64 | 94.32 | 2,328.17 | -2,440.61 | 4,042.93 | 3,654.56 | 388.38 | 10.410 | | |
| 9,300.00 | 6,943.30 | 18,353.45 | 7,248.67 | 73.72 | 320.48 | 94.33 | 2,328.35 | -2,540.60 | 4,043.75 | 3,650.03 | 393.72 | 10.271 | | |
| 9,400.00 | 6,942.92 | 18,453.44 | 7,248.91 | 76.26 | 323.32 | 94.34 | 2,328.53 | -2,640.60 | 4,044.58 | 3,645.48 | 399.10 | 10.134 | | |
| 9,500.00 | 6,942.54 | 18,553.44 | 7,249.15 | 78.82 | 326.16 | 94.35 | 2,328.71 | -2,740.59 | 4,045.40 | 3,640.91 | 404.49 | 10.001 | | |
| 9,600.00 | 6,942.16 | 18,653.43 | 7,249.40 | 81.40 | 329.01 | 94.35 | 2,328.89 | -2,840.59 | 4,046.22 | 3,636.32 | 409.90 | 9.871 | | |
| 9,700.00 | 6,941.78 | 18,753.43 | 7,249.64 | 84.00 | 331.85 | 94.36 | 2,329.07 | -2,940.58 | 4,047.05 | 3,631.71 | 415.33 | 9.744 | | |
| 9,800.00 | 6,941.40 | 18,853.42 | 7,249.89 | 86.62 | 334.69 | 94.37 | 2,329.25 | -3,040.58 | 4,047.87 | 3,627.09 | 420.78 | 9.620 | | |
| 9,900.00 | 6,941.03 | 18,953.42 | 7,250.13 | 89.25 | 337.53 | 94.38 | 2,329.43 | -3,140.57 | 4,048.69 | 3,622.45 | 426.24 | 9.499 | | |
| 10,000.00 | 6,940.65 | 19,053.41 | 7,250.38 | 91.90 | 340.38 | 94.38 | 2,329.61 | -3,240.57 | 4,049.52 | 3,617.80 | 431.72 | 9.380 | | |
| 10,100.00 | 6,940.27 | 19,118.26 | 7,250.53 | 94.56 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,050.49 | 3,614.34 | 436.15 | 9.287 | ES | |
| 10,200.00 | 6,939.89 | 19,118.26 | 7,250.53 | 97.23 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,053.42 | 3,614.92 | 438.50 | 9.244 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 19,118.26 | 7,250.53 | 99.91 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,058.80 | 3,618.21 | 440.59 | 9.212 | | |
| 10,400.00 | 6,939.13 | 19,118.26 | 7,250.53 | 102.60 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,066.64 | 3,624.22 | 442.43 | 9.192 | | |
| 10,500.00 | 6,938.75 | 19,118.26 | 7,250.53 | 105.30 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,076.92 | 3,632.91 | 444.01 | 9.182 SF | | |
| 10,600.00 | 6,938.37 | 19,118.26 | 7,250.53 | 108.00 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,089.62 | 3,644.28 | 445.34 | 9.183 | | |
| 10,700.00 | 6,937.99 | 19,118.26 | 7,250.53 | 110.72 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,104.72 | 3,658.30 | 446.42 | 9.195 | | |
| 10,800.00 | 6,937.61 | 19,118.26 | 7,250.53 | 113.44 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,122.18 | 3,674.94 | 447.25 | 9.217 | | |
| 10,900.00 | 6,937.23 | 19,118.26 | 7,250.53 | 116.17 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,141.99 | 3,694.17 | 447.83 | 9.249 | | |
| 11,000.00 | 6,936.85 | 19,118.26 | 7,250.53 | 118.90 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,164.11 | 3,715.94 | 448.17 | 9.291 | | |
| 11,100.00 | 6,936.47 | 19,118.26 | 7,250.53 | 121.64 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,188.50 | 3,740.23 | 448.27 | 9.344 | | |
| 11,200.00 | 6,936.09 | 19,118.26 | 7,250.53 | 124.39 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,215.12 | 3,766.97 | 448.15 | 9.406 | | |
| 11,300.00 | 6,935.71 | 19,118.26 | 7,250.53 | 127.14 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,243.93 | 3,796.11 | 447.81 | 9.477 | | |
| 11,400.00 | 6,935.34 | 19,118.26 | 7,250.53 | 129.90 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,274.88 | 3,827.62 | 447.26 | 9.558 | | |
| 11,500.00 | 6,934.96 | 19,118.26 | 7,250.53 | 132.66 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,307.94 | 3,861.42 | 446.52 | 9.648 | | |
| 11,600.00 | 6,934.58 | 19,118.26 | 7,250.53 | 135.42 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,343.04 | 3,897.46 | 445.58 | 9.747 | | |
| 11,700.00 | 6,934.20 | 19,118.26 | 7,250.53 | 138.19 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,380.15 | 3,935.69 | 444.46 | 9.855 | | |
| 11,800.00 | 6,933.82 | 19,118.26 | 7,250.53 | 140.96 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,419.21 | 3,976.03 | 443.18 | 9.972 | | |
| 11,900.00 | 6,933.44 | 19,118.26 | 7,250.53 | 143.74 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,460.17 | 4,018.43 | 441.74 | 10.097 | | |
| 12,000.00 | 6,933.06 | 19,118.26 | 7,250.53 | 146.51 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,502.98 | 4,062.83 | 440.15 | 10.230 | | |
| 12,100.00 | 6,932.68 | 19,118.26 | 7,250.53 | 149.30 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,547.58 | 4,109.15 | 438.43 | 10.372 | | |
| 12,200.00 | 6,932.30 | 19,118.26 | 7,250.53 | 152.08 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,593.93 | 4,157.35 | 436.58 | 10.522 | | |
| 12,300.00 | 6,931.92 | 19,118.26 | 7,250.53 | 154.87 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,641.97 | 4,207.35 | 434.62 | 10.680 | | |
| 12,400.00 | 6,931.54 | 19,118.26 | 7,250.53 | 157.66 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,691.65 | 4,259.10 | 432.56 | 10.846 | | |
| 12,500.00 | 6,931.16 | 19,118.26 | 7,250.53 | 160.45 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,742.92 | 4,312.52 | 430.40 | 11.020 | | |
| 12,600.00 | 6,930.78 | 19,118.26 | 7,250.53 | 163.24 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,795.73 | 4,367.57 | 428.16 | 11.201 | | |
| 12,700.00 | 6,930.40 | 19,118.26 | 7,250.53 | 166.04 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,850.02 | 4,424.19 | 425.84 | 11.389 | | |
| 12,800.00 | 6,930.03 | 19,118.26 | 7,250.53 | 168.84 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,905.75 | 4,482.30 | 423.45 | 11.585 | | |
| 12,900.00 | 6,929.65 | 19,118.26 | 7,250.53 | 171.64 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 4,962.87 | 4,541.87 | 421.01 | 11.788 | | |
| 13,000.00 | 6,929.27 | 19,118.26 | 7,250.53 | 174.44 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,021.34 | 4,602.82 | 418.51 | 11.998 | | |
| 13,100.00 | 6,928.89 | 19,118.26 | 7,250.53 | 177.24 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,081.09 | 4,665.12 | 415.98 | 12.215 | | |
| 13,200.00 | 6,928.51 | 19,118.26 | 7,250.53 | 180.05 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,142.10 | 4,728.70 | 413.40 | 12.438 | | |
| 13,300.00 | 6,928.13 | 19,118.26 | 7,250.53 | 182.86 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,204.32 | 4,793.52 | 410.80 | 12.669 | | |
| 13,400.00 | 6,927.75 | 19,118.26 | 7,250.53 | 185.67 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,267.70 | 4,859.52 | 408.17 | 12.905 | | |
| 13,500.00 | 6,927.37 | 19,118.26 | 7,250.53 | 188.48 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,332.20 | 4,926.67 | 405.53 | 13.149 | | |
| 13,600.00 | 6,926.99 | 19,118.26 | 7,250.53 | 191.29 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,397.78 | 4,994.91 | 402.87 | 13.398 | | |
| 13,700.00 | 6,926.61 | 19,118.26 | 7,250.53 | 194.10 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,464.41 | 5,064.20 | 400.21 | 13.654 | | |
| 13,800.00 | 6,926.23 | 19,118.26 | 7,250.53 | 196.92 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,532.04 | 5,134.50 | 397.54 | 13.916 | | |
| 13,900.00 | 6,925.85 | 19,118.26 | 7,250.53 | 199.73 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,600.64 | 5,205.76 | 394.87 | 14.183 | | |
| 14,000.00 | 6,925.47 | 19,118.26 | 7,250.53 | 202.55 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,670.17 | 5,277.96 | 392.21 | 14.457 | | |
| 14,100.00 | 6,925.09 | 19,118.26 | 7,250.53 | 205.37 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,740.60 | 5,351.05 | 389.55 | 14.736 | | |
| 14,200.00 | 6,924.71 | 19,118.26 | 7,250.53 | 208.19 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,811.90 | 5,425.00 | 386.91 | 15.021 | | |
| 14,300.00 | 6,924.34 | 19,118.26 | 7,250.53 | 211.01 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,884.04 | 5,499.76 | 384.28 | 15.312 | | |
| 14,400.00 | 6,923.96 | 19,118.26 | 7,250.53 | 213.83 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 5,956.98 | 5,575.32 | 381.66 | 15.608 | | |
| 14,500.00 | 6,923.58 | 19,118.26 | 7,250.53 | 216.65 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 6,030.70 | 5,651.63 | 379.07 | 15.909 | | |
| 14,600.00 | 6,923.20 | 19,118.26 | 7,250.53 | 219.48 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 6,105.17 | 5,728.67 | 376.49 | 16.216 | | |
| 14,700.00 | 6,922.82 | 19,118.26 | 7,250.53 | 222.30 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 6,180.35 | 5,806.41 | 373.94 | 16.528 | | |
| 14,800.00 | 6,922.44 | 19,118.26 | 7,250.53 | 225.13 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 6,256.23 | 5,884.82 | 371.41 | 16.845 | | |
| 14,900.00 | 6,922.06 | 19,118.26 | 7,250.53 | 227.95 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 6,332.78 | 5,963.88 | 368.90 | 17.166 | | |
| 14,915.55 | 6,922.00 | 19,118.26 | 7,250.53 | 228.39 | 342.22 | 94.39 | 2,329.72 | -3,305.41 | 6,344.75 | 5,976.23 | 368.52 | 17.217 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 15,718.83 | 7,134.46 | 3.28 | 248.10 | -0.13 | 2,163.45 | -4.74 | 7,455.27 | | | | | |
| 100.00 | 100.00 | 15,719.08 | 7,134.46 | 3.28 | 248.11 | -0.13 | 2,163.45 | -4.98 | 7,359.63 | 7,239.58 | 120.05 | 61.307 | | |
| 200.00 | 200.00 | 15,719.32 | 7,134.46 | 3.34 | 248.12 | -0.14 | 2,163.45 | -5.23 | 7,264.11 | 7,143.60 | 120.50 | 60.281 | | |
| 300.00 | 299.98 | 15,719.75 | 7,134.46 | 3.44 | 248.13 | 175.02 | 2,163.44 | -5.65 | 7,169.25 | 7,048.23 | 121.02 | 59.242 | | |
| 400.00 | 399.84 | 15,720.54 | 7,134.46 | 3.59 | 248.15 | 175.44 | 2,163.44 | -6.44 | 7,075.72 | 6,954.10 | 121.62 | 58.179 | | |
| 500.00 | 499.45 | 15,721.69 | 7,134.46 | 3.79 | 248.18 | 175.78 | 2,163.42 | -7.59 | 6,983.67 | 6,861.35 | 122.32 | 57.091 | | |
| 600.00 | 598.70 | 15,723.20 | 7,134.47 | 4.03 | 248.22 | 176.05 | 2,163.41 | -9.10 | 6,893.29 | 6,770.15 | 123.14 | 55.980 | | |
| 700.00 | 697.47 | 15,725.06 | 7,134.47 | 4.31 | 248.28 | 176.27 | 2,163.39 | -10.97 | 6,804.76 | 6,680.69 | 124.07 | 54.847 | | |
| 800.00 | 795.62 | 15,727.29 | 7,134.48 | 4.64 | 248.34 | 176.45 | 2,163.37 | -13.19 | 6,718.25 | 6,593.13 | 125.12 | 53.694 | | |
| 900.00 | 893.06 | 15,729.87 | 7,134.48 | 5.00 | 248.41 | 176.60 | 2,163.34 | -15.77 | 6,633.95 | 6,507.65 | 126.30 | 52.525 | | |
| 1,000.00 | 989.78 | 15,732.74 | 7,134.49 | 5.39 | 248.49 | 176.64 | 2,163.31 | -18.64 | 6,551.75 | 6,424.14 | 127.61 | 51.342 | | |
| 1,100.00 | 1,086.42 | 15,735.65 | 7,134.50 | 5.81 | 248.58 | 176.59 | 2,163.28 | -21.55 | 6,470.25 | 6,341.24 | 129.01 | 50.153 | | |
| 1,200.00 | 1,183.06 | 15,738.56 | 7,134.50 | 6.25 | 248.66 | 176.55 | 2,163.25 | -24.46 | 6,389.27 | 6,258.79 | 130.48 | 48.966 | | |
| 1,300.00 | 1,279.69 | 15,741.47 | 7,134.51 | 6.71 | 248.74 | 176.50 | 2,163.22 | -27.37 | 6,308.84 | 6,176.82 | 132.03 | 47.785 | | |
| 1,400.00 | 1,376.33 | 15,744.38 | 7,134.52 | 7.17 | 248.82 | 176.46 | 2,163.19 | -30.28 | 6,228.98 | 6,095.34 | 133.64 | 46.610 | | |
| 1,500.00 | 1,472.97 | 15,747.29 | 7,134.53 | 7.65 | 248.91 | 176.41 | 2,163.16 | -33.19 | 6,149.70 | 6,014.37 | 135.33 | 45.441 | | |
| 1,600.00 | 1,569.61 | 15,750.20 | 7,134.53 | 8.13 | 248.99 | 176.37 | 2,163.13 | -36.10 | 6,071.04 | 5,933.94 | 137.10 | 44.282 | | |
| 1,700.00 | 1,666.24 | 15,753.11 | 7,134.54 | 8.62 | 249.07 | 176.33 | 2,163.10 | -39.01 | 5,993.01 | 5,854.06 | 138.94 | 43.133 | | |
| 1,800.00 | 1,762.88 | 15,756.02 | 7,134.55 | 9.12 | 249.15 | 176.28 | 2,163.07 | -41.92 | 5,915.63 | 5,774.77 | 140.86 | 41.996 | | |
| 1,900.00 | 1,859.52 | 15,758.93 | 7,134.55 | 9.62 | 249.23 | 176.24 | 2,163.04 | -44.83 | 5,838.95 | 5,696.09 | 142.86 | 40.871 | | |
| 2,000.00 | 1,956.16 | 15,761.84 | 7,134.56 | 10.13 | 249.32 | 176.19 | 2,163.01 | -47.74 | 5,762.98 | 5,618.04 | 144.94 | 39.761 | | |
| 2,100.00 | 2,052.79 | 15,764.75 | 7,134.57 | 10.64 | 249.40 | 176.15 | 2,162.98 | -50.65 | 5,687.75 | 5,540.65 | 147.10 | 38.667 | | |
| 2,200.00 | 2,149.43 | 15,767.66 | 7,134.58 | 11.15 | 249.48 | 176.11 | 2,162.95 | -53.56 | 5,613.29 | 5,463.96 | 149.33 | 37.589 | | |
| 2,300.00 | 2,246.07 | 15,770.57 | 7,134.58 | 11.66 | 249.56 | 176.06 | 2,162.92 | -56.47 | 5,539.63 | 5,387.99 | 151.65 | 36.530 | | |
| 2,400.00 | 2,342.71 | 15,773.48 | 7,134.59 | 12.18 | 249.65 | 176.02 | 2,162.89 | -59.38 | 5,466.81 | 5,312.77 | 154.04 | 35.490 | | |
| 2,500.00 | 2,439.34 | 15,776.39 | 7,134.60 | 12.70 | 249.73 | 175.97 | 2,162.86 | -62.29 | 5,394.86 | 5,238.35 | 156.51 | 34.470 | | |
| 2,600.00 | 2,535.98 | 15,779.30 | 7,134.60 | 13.22 | 249.81 | 175.93 | 2,162.83 | -65.20 | 5,323.81 | 5,164.76 | 159.05 | 33.472 | | |
| 2,700.00 | 2,632.62 | 15,782.21 | 7,134.61 | 13.75 | 249.89 | 175.88 | 2,162.80 | -68.11 | 5,253.71 | 5,092.03 | 161.68 | 32.495 | | |
| 2,800.00 | 2,729.26 | 15,785.12 | 7,134.62 | 14.27 | 249.97 | 175.84 | 2,162.77 | -71.02 | 5,184.58 | 5,020.20 | 164.38 | 31.540 | | |
| 2,900.00 | 2,825.89 | 15,788.03 | 7,134.63 | 14.80 | 250.06 | 175.80 | 2,162.74 | -73.93 | 5,116.47 | 4,949.32 | 167.15 | 30.609 | | |
| 3,000.00 | 2,922.53 | 15,809.13 | 7,134.63 | 15.32 | 250.65 | 175.75 | 2,162.71 | -76.84 | 5,049.43 | 4,879.11 | 170.32 | 29.647 | | |
| 3,100.00 | 3,019.17 | 15,806.22 | 7,134.64 | 15.85 | 250.57 | 175.71 | 2,162.68 | -79.75 | 4,983.48 | 4,810.34 | 173.14 | 28.782 | | |
| 3,200.00 | 3,115.81 | 15,803.31 | 7,134.65 | 16.38 | 250.49 | 175.66 | 2,162.65 | -82.66 | 4,918.69 | 4,742.65 | 176.04 | 27.941 | | |
| 3,300.00 | 3,212.44 | 15,800.40 | 7,134.65 | 16.91 | 250.41 | 175.62 | 2,162.63 | -85.57 | 4,855.08 | 4,676.09 | 178.99 | 27.124 | | |
| 3,400.00 | 3,309.08 | 15,802.58 | 7,134.66 | 17.44 | 250.47 | 175.58 | 2,162.60 | -88.48 | 4,792.72 | 4,610.61 | 182.11 | 26.318 | | |
| 3,500.00 | 3,405.72 | 15,805.49 | 7,134.67 | 17.97 | 250.55 | 175.53 | 2,162.57 | -91.39 | 4,731.65 | 4,546.34 | 185.30 | 25.534 | | |
| 3,600.00 | 3,502.36 | 15,808.40 | 7,134.68 | 18.50 | 250.63 | 175.49 | 2,162.54 | -94.29 | 4,671.92 | 4,483.36 | 188.56 | 24.777 | | |
| 3,700.00 | 3,598.99 | 15,811.31 | 7,134.68 | 19.03 | 250.71 | 175.44 | 2,162.51 | -97.20 | 4,613.58 | 4,421.70 | 191.87 | 24.045 | | |
| 3,800.00 | 3,695.63 | 15,814.22 | 7,134.69 | 19.57 | 250.80 | 175.40 | 2,162.48 | -100.11 | 4,556.68 | 4,361.44 | 195.24 | 23.339 | | |
| 3,900.00 | 3,792.27 | 15,817.13 | 7,134.70 | 20.10 | 250.88 | 175.35 | 2,162.45 | -103.02 | 4,501.29 | 4,302.63 | 198.66 | 22.658 | | |
| 4,000.00 | 3,888.91 | 15,820.04 | 7,134.70 | 20.63 | 250.96 | 175.31 | 2,162.42 | -105.93 | 4,447.45 | 4,245.33 | 202.12 | 22.004 | | |
| 4,100.00 | 3,985.54 | 15,822.95 | 7,134.71 | 21.17 | 251.04 | 175.27 | 2,162.39 | -108.84 | 4,395.23 | 4,189.60 | 205.63 | 21.375 | | |
| 4,200.00 | 4,082.18 | 15,825.86 | 7,134.72 | 21.70 | 251.12 | 175.22 | 2,162.36 | -111.75 | 4,344.68 | 4,135.51 | 209.17 | 20.771 | | |
| 4,300.00 | 4,178.82 | 15,828.77 | 7,134.73 | 22.24 | 251.21 | 175.18 | 2,162.33 | -114.66 | 4,295.86 | 4,083.13 | 212.73 | 20.194 | | |
| 4,400.00 | 4,275.46 | 15,831.68 | 7,134.73 | 22.77 | 251.29 | 175.13 | 2,162.30 | -117.57 | 4,248.84 | 4,032.51 | 216.32 | 19.641 | | |
| 4,500.00 | 4,372.09 | 15,834.59 | 7,134.74 | 23.31 | 251.37 | 175.09 | 2,162.27 | -120.48 | 4,203.66 | 3,983.74 | 219.92 | 19.114 | | |
| 4,600.00 | 4,468.73 | 15,837.50 | 7,134.75 | 23.84 | 251.45 | 175.05 | 2,162.24 | -123.39 | 4,160.40 | 3,936.87 | 223.53 | 18.612 | | |
| 4,700.00 | 4,565.37 | 15,840.40 | 7,134.75 | 24.38 | 251.54 | 175.00 | 2,162.21 | -126.30 | 4,119.11 | 3,891.97 | 227.14 | 18.135 | | |
| 4,800.00 | 4,662.01 | 15,843.31 | 7,134.76 | 24.91 | 251.62 | 174.96 | 2,162.18 | -129.21 | 4,079.84 | 3,849.12 | 230.73 | 17.683 | | |
| 4,900.00 | 4,758.64 | 15,846.22 | 7,134.77 | 25.45 | 251.70 | 174.91 | 2,162.15 | -132.12 | 4,042.67 | 3,808.38 | 234.30 | 17.255 | | |
| 5,000.00 | 4,855.28 | 15,849.13 | 7,134.78 | 25.99 | 251.78 | 174.87 | 2,162.12 | -135.03 | 4,007.65 | 3,769.82 | 237.83 | 16.851 | | |
| 5,100.00 | 4,951.92 | 15,852.04 | 7,134.78 | 26.53 | 251.86 | 174.82 | 2,162.09 | -137.94 | 3,974.84 | 3,733.51 | 241.33 | 16.471 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1 | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 5,200.00 | 5,048.56 | 15,854.95 | 7,134.79 | 27.06 | 251.95 | 174.78 | 2,162.06 | -140.85 | 3,944.28 | 3,699.51 | 244.77 | 16.114 | |
| 5,300.00 | 5,145.19 | 15,857.86 | 7,134.80 | 27.60 | 252.03 | 174.74 | 2,162.03 | -143.76 | 3,916.04 | 3,667.90 | 248.14 | 15.781 | |
| 5,400.00 | 5,241.83 | 15,860.77 | 7,134.80 | 28.14 | 252.11 | 174.69 | 2,162.00 | -146.67 | 3,890.16 | 3,638.72 | 251.45 | 15.471 | |
| 5,500.00 | 5,338.47 | 15,863.68 | 7,134.81 | 28.67 | 252.19 | 174.65 | 2,161.97 | -149.58 | 3,866.70 | 3,612.04 | 254.66 | 15.184 | |
| 5,600.00 | 5,435.11 | 15,866.59 | 7,134.82 | 29.21 | 252.28 | 174.60 | 2,161.94 | -152.49 | 3,845.69 | 3,587.91 | 257.78 | 14.919 | |
| 5,700.00 | 5,531.74 | 15,869.50 | 7,134.82 | 29.75 | 252.36 | 174.56 | 2,161.91 | -155.40 | 3,827.18 | 3,566.39 | 260.78 | 14.676 | |
| 5,800.00 | 5,628.38 | 15,872.41 | 7,134.83 | 30.29 | 252.44 | 174.51 | 2,161.88 | -158.31 | 3,811.20 | 3,547.52 | 263.67 | 14.454 | |
| 5,900.00 | 5,725.02 | 15,875.32 | 7,134.84 | 30.83 | 252.52 | 174.47 | 2,161.85 | -161.22 | 3,797.78 | 3,531.35 | 266.43 | 14.254 | |
| 6,000.00 | 5,821.66 | 15,878.23 | 7,134.85 | 31.37 | 252.60 | 174.43 | 2,161.82 | -164.13 | 3,786.95 | 3,517.90 | 269.06 | 14.075 | |
| 6,100.00 | 5,918.29 | 15,881.14 | 7,134.85 | 31.90 | 252.69 | 174.38 | 2,161.79 | -167.04 | 3,778.74 | 3,507.21 | 271.53 | 13.916 | |
| 6,200.00 | 6,014.93 | 15,884.05 | 7,134.86 | 32.44 | 252.77 | 174.34 | 2,161.76 | -169.95 | 3,773.16 | 3,499.31 | 273.85 | 13.778 | |
| 6,300.00 | 6,111.57 | 15,886.96 | 7,134.87 | 32.98 | 252.85 | 174.29 | 2,161.73 | -172.86 | 3,770.23 | 3,494.22 | 276.01 | 13.660 | |
| 6,360.86 | 6,170.38 | 15,888.73 | 7,134.87 | 33.31 | 252.90 | 174.27 | 2,161.71 | -174.63 | 3,769.74 | 3,492.49 | 277.24 | 13.597 CC | |
| 6,400.00 | 6,208.21 | 15,889.87 | 7,134.87 | 33.52 | 252.93 | 174.25 | 2,161.70 | -175.77 | 3,769.94 | 3,491.94 | 278.00 | 13.561 | |
| 6,500.00 | 6,304.84 | 15,907.28 | 7,134.88 | 34.06 | 253.43 | 174.21 | 2,161.67 | -178.68 | 3,772.30 | 3,492.08 | 280.23 | 13.462 | |
| 6,600.00 | 6,401.37 | 15,902.19 | 7,134.89 | 34.60 | 253.28 | 157.16 | 2,161.62 | -183.77 | 3,777.29 | 3,495.64 | 281.65 | 13.411 | |
| 6,700.00 | 6,496.25 | 15,916.78 | 7,134.94 | 35.12 | 253.69 | 133.72 | 2,161.42 | -202.68 | 3,784.73 | 3,501.29 | 283.43 | 13.353 | |
| 6,800.00 | 6,587.15 | 15,950.81 | 7,135.02 | 35.59 | 254.66 | 119.99 | 2,161.08 | -236.70 | 3,794.16 | 3,508.62 | 285.54 | 13.288 | |
| 6,900.00 | 6,671.83 | 15,999.10 | 7,135.14 | 36.03 | 256.02 | 111.33 | 2,160.58 | -284.99 | 3,804.97 | 3,517.12 | 287.85 | 13.219 | |
| 7,000.00 | 6,748.21 | 16,060.49 | 7,135.29 | 36.41 | 257.76 | 105.29 | 2,159.95 | -346.37 | 3,816.36 | 3,526.00 | 290.36 | 13.143 | |
| 7,100.00 | 6,814.41 | 16,133.44 | 7,135.47 | 36.76 | 259.82 | 100.81 | 2,159.20 | -419.32 | 3,827.46 | 3,534.35 | 293.11 | 13.058 | |
| 7,200.00 | 6,868.79 | 16,216.18 | 7,135.67 | 37.07 | 262.16 | 97.44 | 2,158.36 | -502.05 | 3,837.39 | 3,541.26 | 296.12 | 12.959 | |
| 7,300.00 | 6,910.01 | 16,306.65 | 7,135.89 | 37.39 | 264.72 | 95.01 | 2,157.43 | -592.52 | 3,845.35 | 3,545.93 | 299.42 | 12.843 | |
| 7,400.00 | 6,937.07 | 16,402.63 | 7,136.13 | 37.76 | 267.43 | 93.47 | 2,156.45 | -688.50 | 3,850.71 | 3,547.71 | 303.01 | 12.708 | |
| 7,500.00 | 6,949.29 | 16,501.77 | 7,136.37 | 38.27 | 270.24 | 92.80 | 2,155.43 | -787.63 | 3,853.02 | 3,546.18 | 306.84 | 12.557 | |
| 7,600.00 | 6,949.75 | 16,601.76 | 7,136.61 | 39.02 | 273.07 | 92.78 | 2,154.41 | -887.61 | 3,852.81 | 3,541.96 | 310.85 | 12.394 | |
| 7,700.00 | 6,949.37 | 16,701.75 | 7,136.86 | 40.05 | 275.90 | 92.79 | 2,153.38 | -987.60 | 3,852.41 | 3,537.37 | 315.04 | 12.228 | |
| 7,800.00 | 6,948.99 | 16,801.75 | 7,137.10 | 41.35 | 278.73 | 92.80 | 2,152.36 | -1,087.59 | 3,852.02 | 3,532.63 | 319.38 | 12.061 | |
| 7,900.00 | 6,948.61 | 16,901.75 | 7,137.35 | 42.86 | 281.56 | 92.81 | 2,151.33 | -1,187.58 | 3,851.62 | 3,527.76 | 323.87 | 11.893 | |
| 8,000.00 | 6,948.23 | 17,001.74 | 7,137.59 | 44.53 | 284.39 | 92.82 | 2,150.31 | -1,287.58 | 3,851.23 | 3,522.76 | 328.47 | 11.725 | |
| 8,100.00 | 6,947.85 | 17,101.74 | 7,137.84 | 46.34 | 287.23 | 92.83 | 2,149.28 | -1,387.57 | 3,850.83 | 3,517.65 | 333.19 | 11.558 | |
| 8,200.00 | 6,947.47 | 17,201.74 | 7,138.08 | 48.26 | 290.06 | 92.84 | 2,148.26 | -1,487.56 | 3,850.44 | 3,512.44 | 338.00 | 11.392 | |
| 8,300.00 | 6,947.09 | 17,301.74 | 7,138.32 | 50.28 | 292.89 | 92.85 | 2,147.23 | -1,587.55 | 3,850.04 | 3,507.15 | 342.89 | 11.228 | |
| 8,400.00 | 6,946.72 | 17,401.73 | 7,138.57 | 52.39 | 295.73 | 92.86 | 2,146.21 | -1,687.54 | 3,849.65 | 3,501.79 | 347.86 | 11.067 | |
| 8,500.00 | 6,946.34 | 17,501.73 | 7,138.81 | 54.56 | 298.56 | 92.87 | 2,145.18 | -1,787.53 | 3,849.25 | 3,496.36 | 352.90 | 10.908 | |
| 8,600.00 | 6,945.96 | 17,601.73 | 7,139.06 | 56.80 | 301.40 | 92.88 | 2,144.16 | -1,887.53 | 3,848.86 | 3,490.87 | 357.99 | 10.751 | |
| 8,700.00 | 6,945.58 | 17,701.72 | 7,139.30 | 59.10 | 304.23 | 92.89 | 2,143.13 | -1,987.52 | 3,848.46 | 3,485.33 | 363.14 | 10.598 | |
| 8,800.00 | 6,945.20 | 17,801.72 | 7,139.55 | 61.44 | 307.07 | 92.90 | 2,142.11 | -2,087.51 | 3,848.07 | 3,479.74 | 368.33 | 10.447 | |
| 8,900.00 | 6,944.82 | 17,901.72 | 7,139.79 | 63.83 | 309.90 | 92.91 | 2,141.08 | -2,187.50 | 3,847.68 | 3,474.11 | 373.56 | 10.300 | |
| 9,000.00 | 6,944.44 | 18,001.72 | 7,140.03 | 66.25 | 312.74 | 92.92 | 2,140.06 | -2,287.49 | 3,847.28 | 3,468.45 | 378.83 | 10.156 | |
| 9,100.00 | 6,944.06 | 18,101.71 | 7,140.28 | 68.71 | 315.58 | 92.92 | 2,139.03 | -2,387.48 | 3,846.89 | 3,462.76 | 384.13 | 10.014 | |
| 9,200.00 | 6,943.68 | 18,201.71 | 7,140.52 | 71.20 | 318.41 | 92.93 | 2,138.01 | -2,487.48 | 3,846.50 | 3,457.03 | 389.46 | 9.876 | |
| 9,300.00 | 6,943.30 | 18,301.71 | 7,140.77 | 73.72 | 321.25 | 92.94 | 2,136.98 | -2,587.47 | 3,846.10 | 3,451.28 | 394.82 | 9.741 | |
| 9,400.00 | 6,942.92 | 18,401.70 | 7,141.01 | 76.26 | 324.09 | 92.95 | 2,135.96 | -2,687.46 | 3,845.71 | 3,445.51 | 400.20 | 9.609 | |
| 9,500.00 | 6,942.54 | 18,501.70 | 7,141.26 | 78.82 | 326.93 | 92.96 | 2,134.94 | -2,787.45 | 3,845.31 | 3,439.71 | 405.60 | 9.481 | |
| 9,600.00 | 6,942.16 | 18,601.70 | 7,141.50 | 81.40 | 329.77 | 92.97 | 2,133.91 | -2,887.44 | 3,844.92 | 3,433.90 | 411.02 | 9.355 | |
| 9,700.00 | 6,941.78 | 18,701.70 | 7,141.75 | 84.00 | 332.60 | 92.98 | 2,132.89 | -2,987.43 | 3,844.53 | 3,428.07 | 416.46 | 9.231 | |
| 9,800.00 | 6,941.40 | 18,801.69 | 7,141.99 | 86.62 | 335.44 | 92.99 | 2,131.86 | -3,087.42 | 3,844.14 | 3,422.22 | 421.91 | 9.111 | |
| 9,900.00 | 6,941.03 | 18,901.69 | 7,142.23 | 89.25 | 338.28 | 93.00 | 2,130.84 | -3,187.42 | 3,843.74 | 3,416.36 | 427.38 | 8.994 | |
| 10,000.00 | 6,940.65 | 19,001.69 | 7,142.48 | 91.90 | 341.12 | 93.01 | 2,129.81 | -3,287.41 | 3,843.35 | 3,410.49 | 432.86 | 8.879 | |
| 10,031.75 | 6,940.53 | 19,018.34 | 7,142.52 | 92.74 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,843.25 | 3,409.09 | 434.16 | 8.852 | |
| 10,100.00 | 6,940.27 | 19,018.34 | 7,142.52 | 94.56 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,843.86 | 3,408.03 | 435.83 | 8.820 ES | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,200.00 | 6,939.89 | 19,018.34 | 7,142.52 | 97.23 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,846.94 | 3,408.89 | 438.04 | 8.782 | | |
| 10,300.00 | 6,939.51 | 19,018.34 | 7,142.52 | 99.91 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,852.60 | 3,412.63 | 439.97 | 8.756 | | |
| 10,400.00 | 6,939.13 | 19,018.34 | 7,142.52 | 102.60 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,860.86 | 3,419.23 | 441.63 | 8.742 | | |
| 10,500.00 | 6,938.75 | 19,018.34 | 7,142.52 | 105.30 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,871.67 | 3,428.68 | 443.00 | 8.740 SF | | |
| 10,600.00 | 6,938.37 | 19,018.34 | 7,142.52 | 108.00 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,885.04 | 3,440.95 | 444.09 | 8.748 | | |
| 10,700.00 | 6,937.99 | 19,018.34 | 7,142.52 | 110.72 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,900.92 | 3,456.02 | 444.90 | 8.768 | | |
| 10,800.00 | 6,937.61 | 19,018.34 | 7,142.52 | 113.44 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,919.29 | 3,473.85 | 445.44 | 8.799 | | |
| 10,900.00 | 6,937.23 | 19,018.34 | 7,142.52 | 116.17 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,940.11 | 3,494.40 | 445.71 | 8.840 | | |
| 11,000.00 | 6,936.85 | 19,018.34 | 7,142.52 | 118.90 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,963.35 | 3,517.63 | 445.72 | 8.892 | | |
| 11,100.00 | 6,936.47 | 19,018.34 | 7,142.52 | 121.64 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 3,988.96 | 3,543.48 | 445.48 | 8.954 | | |
| 11,200.00 | 6,936.09 | 19,018.34 | 7,142.52 | 124.39 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,016.89 | 3,571.90 | 445.00 | 9.027 | | |
| 11,300.00 | 6,935.71 | 19,018.34 | 7,142.52 | 127.14 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,047.11 | 3,602.83 | 444.28 | 9.109 | | |
| 11,400.00 | 6,935.34 | 19,018.34 | 7,142.52 | 129.90 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,079.55 | 3,636.20 | 443.35 | 9.202 | | |
| 11,500.00 | 6,934.96 | 19,018.34 | 7,142.52 | 132.66 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,114.17 | 3,671.96 | 442.20 | 9.304 | | |
| 11,600.00 | 6,934.58 | 19,018.34 | 7,142.52 | 135.42 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,150.91 | 3,710.04 | 440.87 | 9.415 | | |
| 11,700.00 | 6,934.20 | 19,018.34 | 7,142.52 | 138.19 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,189.71 | 3,750.37 | 439.34 | 9.536 | | |
| 11,800.00 | 6,933.82 | 19,018.34 | 7,142.52 | 140.96 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,230.52 | 3,792.87 | 437.65 | 9.666 | | |
| 11,900.00 | 6,933.44 | 19,018.34 | 7,142.52 | 143.74 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,273.29 | 3,837.48 | 435.80 | 9.806 | | |
| 12,000.00 | 6,933.06 | 19,018.34 | 7,142.52 | 146.51 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,317.94 | 3,884.13 | 433.81 | 9.954 | | |
| 12,100.00 | 6,932.68 | 19,018.34 | 7,142.52 | 149.30 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,364.43 | 3,932.75 | 431.68 | 10.110 | | |
| 12,200.00 | 6,932.30 | 19,018.34 | 7,142.52 | 152.08 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,412.70 | 3,983.26 | 429.44 | 10.276 | | |
| 12,300.00 | 6,931.92 | 19,018.34 | 7,142.52 | 154.87 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,462.69 | 4,035.60 | 427.08 | 10.449 | | |
| 12,400.00 | 6,931.54 | 19,018.34 | 7,142.52 | 157.66 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,514.34 | 4,089.70 | 424.63 | 10.631 | | |
| 12,500.00 | 6,931.16 | 19,018.34 | 7,142.52 | 160.45 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,567.59 | 4,145.49 | 422.10 | 10.821 | | |
| 12,600.00 | 6,930.78 | 19,018.34 | 7,142.52 | 163.24 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,622.39 | 4,202.91 | 419.48 | 11.019 | | |
| 12,700.00 | 6,930.40 | 19,018.34 | 7,142.52 | 166.04 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,678.69 | 4,261.89 | 416.81 | 11.225 | | |
| 12,800.00 | 6,930.03 | 19,018.34 | 7,142.52 | 168.84 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,736.44 | 4,322.36 | 414.08 | 11.439 | | |
| 12,900.00 | 6,929.65 | 19,018.34 | 7,142.52 | 171.64 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,795.57 | 4,384.27 | 411.30 | 11.660 | | |
| 13,000.00 | 6,929.27 | 19,018.34 | 7,142.52 | 174.44 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,856.04 | 4,447.56 | 408.48 | 11.888 | | |
| 13,100.00 | 6,928.89 | 19,018.34 | 7,142.52 | 177.24 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,917.80 | 4,512.17 | 405.63 | 12.124 | | |
| 13,200.00 | 6,928.51 | 19,018.34 | 7,142.52 | 180.05 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 4,980.81 | 4,578.05 | 402.75 | 12.367 | | |
| 13,300.00 | 6,928.13 | 19,018.34 | 7,142.52 | 182.86 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,045.01 | 4,645.14 | 399.86 | 12.617 | | |
| 13,400.00 | 6,927.75 | 19,018.34 | 7,142.52 | 185.67 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,110.35 | 4,713.39 | 396.96 | 12.874 | | |
| 13,500.00 | 6,927.37 | 19,018.34 | 7,142.52 | 188.48 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,176.81 | 4,782.76 | 394.05 | 13.137 | | |
| 13,600.00 | 6,926.99 | 19,018.34 | 7,142.52 | 191.29 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,244.33 | 4,853.19 | 391.15 | 13.408 | | |
| 13,700.00 | 6,926.61 | 19,018.34 | 7,142.52 | 194.10 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,312.88 | 4,924.64 | 388.24 | 13.684 | | |
| 13,800.00 | 6,926.23 | 19,018.34 | 7,142.52 | 196.92 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,382.41 | 4,997.06 | 385.35 | 13.968 | | |
| 13,900.00 | 6,925.85 | 19,018.34 | 7,142.52 | 199.73 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,452.89 | 5,070.42 | 382.46 | 14.257 | | |
| 14,000.00 | 6,925.47 | 19,018.34 | 7,142.52 | 202.55 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,524.28 | 5,144.68 | 379.60 | 14.553 | | |
| 14,100.00 | 6,925.09 | 19,018.34 | 7,142.52 | 205.37 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,596.54 | 5,219.79 | 376.75 | 14.855 | | |
| 14,200.00 | 6,924.71 | 19,018.34 | 7,142.52 | 208.19 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,669.65 | 5,295.73 | 373.92 | 15.163 | | |
| 14,300.00 | 6,924.34 | 19,018.34 | 7,142.52 | 211.01 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,743.57 | 5,372.45 | 371.12 | 15.476 | | |
| 14,400.00 | 6,923.96 | 19,018.34 | 7,142.52 | 213.83 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,818.27 | 5,449.93 | 368.34 | 15.796 | | |
| 14,500.00 | 6,923.58 | 19,018.34 | 7,142.52 | 216.65 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,893.72 | 5,528.12 | 365.59 | 16.121 | | |
| 14,600.00 | 6,923.20 | 19,018.34 | 7,142.52 | 219.48 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 5,969.89 | 5,607.01 | 362.87 | 16.452 | | |
| 14,700.00 | 6,922.82 | 19,018.34 | 7,142.52 | 222.30 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 6,046.75 | 5,686.56 | 360.19 | 16.788 | | |
| 14,800.00 | 6,922.44 | 19,018.34 | 7,142.52 | 225.13 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 6,124.28 | 5,766.75 | 357.53 | 17.129 | | |
| 14,900.00 | 6,922.06 | 19,018.34 | 7,142.52 | 227.95 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 6,202.46 | 5,847.55 | 354.91 | 17.476 | | |
| 14,915.55 | 6,922.00 | 19,018.34 | 7,142.52 | 228.39 | 341.60 | 93.01 | 2,129.64 | -3,304.06 | 6,214.67 | 5,860.17 | 354.50 | 17.531 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 11-21-4(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 172-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1,493.26 | 1,540.77 | 3.28 | 8.03 | -117.27 | -3,876.50 | -7,518.97 | 8,598.61 | | | | | |
| 100.00 | 100.00 | 1,524.48 | 1,571.44 | 3.28 | 8.19 | -117.26 | -3,872.16 | -7,515.06 | 8,581.08 | 8,570.24 | 10.83 | 792.081 | | |
| 200.00 | 200.00 | 1,584.00 | 1,630.02 | 3.34 | 8.51 | -117.23 | -3,864.17 | -7,508.21 | 8,564.46 | 8,553.34 | 11.12 | 770.209 | | |
| 300.00 | 299.98 | 1,604.55 | 1,650.27 | 3.44 | 8.62 | 57.69 | -3,861.44 | -7,505.99 | 8,547.40 | 8,536.11 | 11.28 | 757.498 | | |
| 400.00 | 399.84 | 1,711.48 | 1,755.52 | 3.59 | 9.17 | 58.10 | -3,846.43 | -7,494.47 | 8,528.59 | 8,516.70 | 11.89 | 717.437 | | |
| 500.00 | 499.45 | 1,773.00 | 1,816.12 | 3.79 | 9.49 | 58.51 | -3,838.12 | -7,488.00 | 8,508.42 | 8,496.08 | 12.34 | 689.731 | | |
| 600.00 | 598.70 | 1,865.05 | 1,906.90 | 4.03 | 9.97 | 59.00 | -3,826.46 | -7,478.14 | 8,486.75 | 8,473.79 | 12.96 | 654.640 | | |
| 700.00 | 697.47 | 1,919.34 | 1,960.44 | 4.31 | 10.25 | 59.49 | -3,819.65 | -7,472.37 | 8,463.51 | 8,450.05 | 13.46 | 628.605 | | |
| 800.00 | 795.62 | 2,127.95 | 2,166.14 | 4.64 | 11.34 | 60.28 | -3,792.98 | -7,450.08 | 8,438.74 | 8,424.04 | 14.70 | 574.056 | | |
| 900.00 | 893.06 | 900.00 | 2,419.59 | 5.00 | 4.96 | 61.27 | -3,760.01 | -7,417.30 | 8,410.48 | 8,400.57 | 9.91 | 848.551 | | |
| 1,000.00 | 989.78 | 2,507.57 | 2,539.21 | 5.39 | 13.44 | 61.77 | -3,743.59 | -7,400.30 | 8,379.44 | 8,362.33 | 17.11 | 489.681 | | |
| 1,100.00 | 1,086.42 | 2,560.78 | 2,591.44 | 5.81 | 13.74 | 61.88 | -3,736.62 | -7,392.92 | 8,348.60 | 8,330.86 | 17.73 | 470.800 | | |
| 1,200.00 | 1,183.06 | 2,882.20 | 2,906.02 | 6.25 | 15.62 | 62.57 | -3,690.44 | -7,346.11 | 8,316.65 | 8,297.05 | 19.61 | 424.169 | | |
| 1,300.00 | 1,279.69 | 2,926.19 | 2,948.96 | 6.71 | 15.88 | 62.66 | -3,683.70 | -7,339.40 | 8,283.94 | 8,263.71 | 20.23 | 409.493 | | |
| 1,400.00 | 1,376.33 | 2,970.45 | 2,992.24 | 7.17 | 16.15 | 62.76 | -3,677.17 | -7,332.79 | 8,251.83 | 8,230.96 | 20.87 | 395.378 | | |
| 1,500.00 | 1,472.97 | 3,134.69 | 3,152.85 | 7.65 | 17.13 | 63.11 | -3,654.21 | -7,307.27 | 8,219.59 | 8,197.53 | 22.07 | 372.516 | | |
| 1,600.00 | 1,569.61 | 3,164.95 | 3,182.45 | 8.13 | 17.31 | 63.18 | -3,650.14 | -7,302.48 | 8,187.44 | 8,164.78 | 22.67 | 361.233 | | |
| 1,700.00 | 1,666.24 | 3,200.00 | 3,216.79 | 8.62 | 17.52 | 63.25 | -3,645.57 | -7,297.16 | 8,156.06 | 8,132.76 | 23.30 | 350.078 | | |
| 1,800.00 | 1,762.88 | 3,328.17 | 3,342.34 | 9.12 | 18.27 | 63.52 | -3,628.75 | -7,277.65 | 8,124.68 | 8,100.33 | 24.35 | 333.651 | | |
| 1,900.00 | 1,859.52 | 3,391.00 | 3,403.90 | 9.62 | 18.64 | 63.66 | -3,620.52 | -7,268.17 | 8,093.55 | 8,068.43 | 25.12 | 322.157 | | |
| 2,000.00 | 1,956.16 | 3,391.00 | 3,403.90 | 10.13 | 18.64 | 63.66 | -3,620.52 | -7,268.17 | 8,063.14 | 8,037.51 | 25.63 | 314.650 | | |
| 2,100.00 | 2,052.79 | 3,435.80 | 3,447.88 | 10.64 | 18.89 | 63.76 | -3,614.69 | -7,261.88 | 8,033.38 | 8,007.05 | 26.33 | 305.082 | | |
| 2,200.00 | 2,149.43 | 3,486.00 | 3,497.27 | 11.15 | 19.18 | 63.87 | -3,608.16 | -7,255.75 | 8,004.76 | 7,977.69 | 27.07 | 295.731 | | |
| 2,300.00 | 2,246.07 | 3,486.00 | 3,497.27 | 11.66 | 19.18 | 63.87 | -3,608.16 | -7,255.75 | 7,976.68 | 7,949.09 | 27.59 | 289.142 | | |
| 2,400.00 | 2,342.71 | 3,581.00 | 3,590.77 | 12.18 | 19.70 | 64.09 | -3,595.48 | -7,244.70 | 7,948.88 | 7,920.34 | 28.53 | 278.588 | | |
| 2,500.00 | 2,439.34 | 3,622.38 | 3,631.49 | 12.70 | 19.93 | 64.19 | -3,589.74 | -7,240.08 | 7,921.62 | 7,892.37 | 29.25 | 270.860 | | |
| 2,600.00 | 2,535.98 | 3,677.00 | 3,685.32 | 13.22 | 20.23 | 64.32 | -3,581.97 | -7,235.09 | 7,895.56 | 7,865.53 | 30.02 | 262.982 | | |
| 2,700.00 | 2,632.62 | 4,098.74 | 4,098.60 | 13.75 | 22.67 | 65.39 | -3,513.79 | -7,186.86 | 7,866.20 | 7,833.72 | 32.48 | 242.196 | | |
| 2,800.00 | 2,729.26 | 2,800.00 | 4,231.26 | 14.27 | 15.03 | 65.71 | -3,495.70 | -7,166.81 | 7,836.23 | 7,809.41 | 26.82 | 292.184 | | |
| 2,900.00 | 2,825.89 | 4,291.12 | 4,287.04 | 14.80 | 23.81 | 65.84 | -3,488.05 | -7,158.00 | 7,805.93 | 7,771.52 | 34.41 | 226.865 | | |
| 3,000.00 | 2,922.53 | 4,343.00 | 4,337.99 | 15.32 | 24.11 | 65.96 | -3,481.38 | -7,150.79 | 7,776.82 | 7,741.63 | 35.19 | 221.013 | | |
| 3,100.00 | 3,019.17 | 4,343.00 | 4,337.99 | 15.85 | 24.11 | 65.96 | -3,481.38 | -7,150.79 | 7,748.21 | 7,712.46 | 35.75 | 216.741 | | |
| 3,200.00 | 3,115.81 | 4,438.35 | 4,431.71 | 16.38 | 24.66 | 66.19 | -3,468.94 | -7,138.43 | 7,720.34 | 7,683.63 | 36.72 | 210.254 | | |
| 3,300.00 | 3,212.44 | 4,482.57 | 4,475.17 | 16.91 | 24.91 | 66.30 | -3,462.99 | -7,132.85 | 7,692.73 | 7,655.25 | 37.48 | 205.274 | | |
| 3,400.00 | 3,309.08 | 4,534.00 | 4,525.77 | 17.44 | 25.20 | 66.42 | -3,456.19 | -7,126.67 | 7,665.80 | 7,627.53 | 38.27 | 200.334 | | |
| 3,500.00 | 3,405.72 | 4,593.35 | 4,584.24 | 17.97 | 25.53 | 66.56 | -3,448.76 | -7,119.67 | 7,639.43 | 7,600.34 | 39.09 | 195.448 | | |
| 3,600.00 | 3,502.36 | 4,629.00 | 4,619.39 | 18.50 | 25.72 | 66.65 | -3,444.61 | -7,115.40 | 7,613.54 | 7,573.73 | 39.81 | 191.249 | | |
| 3,700.00 | 3,598.99 | 4,671.48 | 4,661.33 | 19.03 | 25.95 | 66.75 | -3,439.90 | -7,110.55 | 7,588.39 | 7,547.83 | 40.56 | 187.095 | | |
| 3,800.00 | 3,695.63 | 4,724.00 | 4,713.28 | 19.57 | 26.23 | 66.87 | -3,434.37 | -7,105.22 | 7,564.29 | 7,522.94 | 41.35 | 182.926 | | |
| 3,900.00 | 3,792.27 | 4,755.95 | 4,744.92 | 20.10 | 26.39 | 66.94 | -3,431.14 | -7,102.15 | 7,540.82 | 7,498.76 | 42.06 | 179.298 | | |
| 4,000.00 | 3,888.91 | 4,819.00 | 4,807.35 | 20.63 | 26.71 | 67.09 | -3,425.02 | -7,095.78 | 7,517.58 | 7,474.69 | 42.89 | 175.263 | | |
| 4,100.00 | 3,985.54 | 4,879.09 | 4,866.88 | 21.17 | 27.01 | 67.23 | -3,419.48 | -7,089.85 | 7,494.85 | 7,451.14 | 43.71 | 171.449 | | |
| 4,200.00 | 4,082.18 | 4,915.00 | 4,902.51 | 21.70 | 27.19 | 67.31 | -3,416.31 | -7,086.66 | 7,473.05 | 7,428.62 | 44.44 | 168.169 | | |
| 4,300.00 | 4,178.82 | 4,961.80 | 4,948.98 | 22.24 | 27.42 | 67.41 | -3,412.27 | -7,082.81 | 7,452.02 | 7,406.81 | 45.20 | 164.854 | | |
| 4,400.00 | 4,275.46 | 5,009.09 | 4,995.97 | 22.77 | 27.64 | 67.52 | -3,408.27 | -7,079.20 | 7,431.67 | 7,385.70 | 45.97 | 161.655 | | |
| 4,500.00 | 4,372.09 | 5,056.50 | 5,043.09 | 23.31 | 27.87 | 67.63 | -3,404.35 | -7,075.86 | 7,412.02 | 7,365.28 | 46.74 | 158.573 | | |
| 4,600.00 | 4,468.73 | 5,104.00 | 5,090.34 | 23.84 | 28.09 | 67.74 | -3,400.50 | -7,072.80 | 7,393.06 | 7,345.55 | 47.51 | 155.604 | | |
| 4,700.00 | 4,565.37 | 5,104.00 | 5,090.34 | 24.38 | 28.09 | 67.74 | -3,400.50 | -7,072.80 | 7,375.11 | 7,327.03 | 48.08 | 153.392 | | |
| 4,800.00 | 4,662.01 | 5,184.99 | 5,170.98 | 24.91 | 28.45 | 67.93 | -3,394.58 | -7,068.25 | 7,357.45 | 7,308.47 | 48.98 | 150.212 | | |
| 4,900.00 | 4,758.64 | 5,225.83 | 5,211.69 | 25.45 | 28.63 | 68.02 | -3,392.04 | -7,066.28 | 7,340.83 | 7,291.12 | 49.71 | 147.659 | | |
| 5,000.00 | 4,855.28 | 5,294.00 | 5,279.71 | 25.99 | 28.92 | 68.16 | -3,388.45 | -7,063.46 | 7,325.13 | 7,274.57 | 50.56 | 144.874 | | |
| 5,100.00 | 4,951.92 | 5,294.00 | 5,279.71 | 26.53 | 28.92 | 68.16 | -3,388.45 | -7,063.46 | 7,310.03 | 7,258.91 | 51.12 | 142.990 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 11-21-4(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|--------------------|---------|
| Survey Program: 172-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 5,200.00 | 5,048.56 | 5,376.77 | 5,362.35 | 27.06 | 29.25 | 68.34 | -3,384.86 | -7,060.60 | 7,295.54 | 7,243.53 | 52.02 | 140.256 | | |
| 5,300.00 | 5,145.19 | 5,438.64 | 5,424.15 | 27.60 | 29.49 | 68.47 | -3,382.50 | -7,058.70 | 7,281.64 | 7,228.81 | 52.82 | 137.846 | | |
| 5,400.00 | 5,241.83 | 5,500.71 | 5,486.16 | 28.14 | 29.74 | 68.60 | -3,380.42 | -7,057.02 | 7,268.27 | 7,214.64 | 53.63 | 135.518 | | |
| 5,500.00 | 5,338.47 | 5,579.00 | 5,564.40 | 28.67 | 30.05 | 68.76 | -3,378.20 | -7,055.18 | 7,255.46 | 7,200.95 | 54.51 | 133.107 | | |
| 5,600.00 | 5,435.11 | 5,625.22 | 5,610.59 | 29.21 | 30.22 | 68.86 | -3,377.09 | -7,054.27 | 7,243.13 | 7,187.88 | 55.25 | 131.108 | | |
| 5,700.00 | 5,531.74 | 5,687.56 | 5,672.91 | 29.75 | 30.45 | 68.98 | -3,375.76 | -7,053.24 | 7,231.36 | 7,175.32 | 56.05 | 129.024 | | |
| 5,800.00 | 5,628.38 | 5,750.03 | 5,735.37 | 30.29 | 30.68 | 69.11 | -3,374.65 | -7,052.45 | 7,220.13 | 7,163.28 | 56.85 | 127.008 | | |
| 5,900.00 | 5,725.02 | 5,812.65 | 5,797.98 | 30.83 | 30.92 | 69.24 | -3,373.75 | -7,051.90 | 7,209.44 | 7,151.79 | 57.65 | 125.059 | | |
| 6,000.00 | 5,821.66 | 5,864.00 | 5,849.32 | 31.37 | 31.11 | 69.34 | -3,373.18 | -7,051.63 | 7,199.29 | 7,140.89 | 58.40 | 123.272 | | |
| 6,100.00 | 5,918.29 | 5,949.78 | 5,935.10 | 31.90 | 31.41 | 69.51 | -3,372.36 | -7,051.48 | 7,189.56 | 7,130.27 | 59.29 | 121.269 | | |
| 6,200.00 | 6,014.93 | 6,022.41 | 6,007.72 | 32.44 | 31.66 | 69.65 | -3,371.71 | -7,051.61 | 7,180.24 | 7,120.13 | 60.12 | 119.437 | | |
| 6,300.00 | 6,111.57 | 6,095.07 | 6,080.38 | 32.98 | 31.92 | 69.80 | -3,371.09 | -7,051.98 | 7,171.34 | 7,110.39 | 60.95 | 117.663 | | |
| 6,400.00 | 6,208.21 | 6,175.63 | 6,160.94 | 33.52 | 32.20 | 69.96 | -3,370.44 | -7,052.66 | 7,162.83 | 7,101.02 | 61.81 | 115.883 | | |
| 6,500.00 | 6,304.84 | 6,282.44 | 6,267.73 | 34.06 | 32.57 | 70.18 | -3,369.47 | -7,053.57 | 7,154.40 | 7,091.62 | 62.78 | 113.958 | | |
| 6,600.00 | 6,401.37 | 6,389.03 | 6,374.32 | 34.60 | 32.95 | 53.55 | -3,368.32 | -7,054.37 | 7,143.82 | 7,080.07 | 63.75 | 112.067 | | |
| 6,700.00 | 6,496.25 | 6,482.05 | 6,467.33 | 35.12 | 33.28 | 30.68 | -3,367.19 | -7,055.01 | 7,119.92 | 7,055.30 | 64.63 | 110.171 | | |
| 6,800.00 | 6,587.15 | 6,561.79 | 6,547.06 | 35.59 | 33.56 | 17.44 | -3,366.15 | -7,055.68 | 7,081.78 | 7,016.38 | 65.40 | 108.283 | | |
| 6,900.00 | 6,671.83 | 6,636.29 | 6,621.56 | 36.03 | 33.83 | 8.99 | -3,365.15 | -7,056.43 | 7,030.30 | 6,964.20 | 66.09 | 106.368 | | |
| 7,000.00 | 6,748.21 | 6,703.79 | 6,689.04 | 36.41 | 34.07 | 2.48 | -3,364.21 | -7,057.22 | 6,966.69 | 6,900.00 | 66.69 | 104.459 | | |
| 7,100.00 | 6,814.41 | 6,754.30 | 6,739.54 | 36.76 | 34.25 | -3.81 | -3,363.51 | -7,057.89 | 6,892.51 | 6,825.36 | 67.15 | 102.644 | | |
| 7,200.00 | 6,868.79 | 6,792.95 | 6,778.18 | 37.07 | 34.38 | -11.42 | -3,363.02 | -7,058.50 | 6,809.58 | 6,742.10 | 67.48 | 100.912 | | |
| 7,300.00 | 6,910.01 | 6,822.79 | 6,808.02 | 37.39 | 34.49 | -22.82 | -3,362.67 | -7,059.03 | 6,719.89 | 6,652.19 | 67.70 | 99.260 | | |
| 7,400.00 | 6,937.07 | 6,843.01 | 6,828.23 | 37.76 | 34.56 | -42.77 | -3,362.46 | -7,059.41 | 6,625.60 | 6,557.79 | 67.81 | 97.709 | | |
| 7,500.00 | 6,949.29 | 6,852.99 | 6,838.20 | 38.27 | 34.59 | -75.25 | -3,362.36 | -7,059.61 | 6,529.00 | 6,461.18 | 67.82 | 96.270 | | |
| 7,600.00 | 6,949.75 | 6,854.74 | 6,839.96 | 39.02 | 34.60 | -86.98 | -3,362.34 | -7,059.65 | 6,432.20 | 6,364.44 | 67.77 | 94.915 | | |
| 7,700.00 | 6,949.37 | 6,855.92 | 6,841.14 | 40.05 | 34.60 | -87.02 | -3,362.33 | -7,059.67 | 6,335.53 | 6,267.81 | 67.73 | 93.545 | | |
| 7,800.00 | 6,948.99 | 6,857.10 | 6,842.32 | 41.35 | 34.61 | -87.06 | -3,362.31 | -7,059.70 | 6,238.97 | 6,171.26 | 67.70 | 92.150 | | |
| 7,900.00 | 6,948.61 | 6,858.30 | 6,843.52 | 42.86 | 34.61 | -87.10 | -3,362.30 | -7,059.72 | 6,142.51 | 6,074.81 | 67.70 | 90.729 | | |
| 8,000.00 | 6,948.23 | 6,859.50 | 6,844.72 | 44.53 | 34.62 | -87.14 | -3,362.29 | -7,059.74 | 6,046.17 | 5,978.45 | 67.72 | 89.281 | | |
| 8,100.00 | 6,947.85 | 6,860.72 | 6,845.94 | 46.34 | 34.62 | -87.19 | -3,362.28 | -7,059.77 | 5,949.95 | 5,882.19 | 67.76 | 87.806 | | |
| 8,200.00 | 6,947.47 | 6,861.94 | 6,847.16 | 48.26 | 34.62 | -87.23 | -3,362.27 | -7,059.80 | 5,853.86 | 5,786.03 | 67.83 | 86.301 | | |
| 8,300.00 | 6,947.09 | 6,863.18 | 6,848.40 | 50.28 | 34.63 | -87.27 | -3,362.25 | -7,059.82 | 5,757.90 | 5,689.97 | 67.93 | 84.767 | | |
| 8,400.00 | 6,946.72 | 6,864.43 | 6,849.64 | 52.39 | 34.63 | -87.31 | -3,362.24 | -7,059.85 | 5,662.07 | 5,594.02 | 68.05 | 83.203 | | |
| 8,500.00 | 6,946.34 | 6,865.68 | 6,850.90 | 54.56 | 34.64 | -87.36 | -3,362.23 | -7,059.87 | 5,566.40 | 5,498.19 | 68.21 | 81.606 | | |
| 8,600.00 | 6,945.96 | 6,866.95 | 6,852.16 | 56.80 | 34.64 | -87.40 | -3,362.22 | -7,059.90 | 5,470.88 | 5,402.47 | 68.40 | 79.978 | | |
| 8,700.00 | 6,945.58 | 6,868.23 | 6,853.44 | 59.10 | 34.65 | -87.45 | -3,362.21 | -7,059.93 | 5,375.52 | 5,306.88 | 68.64 | 78.318 | | |
| 8,800.00 | 6,945.20 | 6,869.51 | 6,854.73 | 61.44 | 34.65 | -87.49 | -3,362.19 | -7,059.95 | 5,280.33 | 5,211.42 | 68.91 | 76.625 | | |
| 8,900.00 | 6,944.82 | 6,870.81 | 6,856.03 | 63.83 | 34.66 | -87.54 | -3,362.18 | -7,059.98 | 5,185.33 | 5,116.10 | 69.23 | 74.900 | | |
| 9,000.00 | 6,944.44 | 6,872.13 | 6,857.34 | 66.25 | 34.66 | -87.58 | -3,362.17 | -7,060.01 | 5,090.51 | 5,020.91 | 69.60 | 73.143 | | |
| 9,100.00 | 6,944.06 | 6,873.45 | 6,858.66 | 68.71 | 34.66 | -87.63 | -3,362.16 | -7,060.04 | 4,995.90 | 4,925.88 | 70.02 | 71.354 | | |
| 9,200.00 | 6,943.68 | 6,874.78 | 6,859.99 | 71.20 | 34.67 | -87.68 | -3,362.14 | -7,060.07 | 4,901.50 | 4,831.01 | 70.49 | 69.536 | | |
| 9,300.00 | 6,943.30 | 6,876.13 | 6,861.34 | 73.72 | 34.67 | -87.72 | -3,362.13 | -7,060.10 | 4,807.32 | 4,736.30 | 71.02 | 67.688 | | |
| 9,400.00 | 6,942.92 | 6,877.49 | 6,862.70 | 76.26 | 34.68 | -87.77 | -3,362.12 | -7,060.12 | 4,713.39 | 4,641.77 | 71.62 | 65.813 | | |
| 9,500.00 | 6,942.54 | 6,878.85 | 6,864.07 | 78.82 | 34.68 | -87.82 | -3,362.11 | -7,060.15 | 4,619.70 | 4,547.42 | 72.28 | 63.912 | | |
| 9,600.00 | 6,942.16 | 6,880.24 | 6,865.45 | 81.40 | 34.69 | -87.87 | -3,362.09 | -7,060.18 | 4,526.29 | 4,453.28 | 73.02 | 61.989 | | |
| 9,700.00 | 6,941.78 | 6,881.63 | 6,866.84 | 84.00 | 34.69 | -87.92 | -3,362.08 | -7,060.22 | 4,433.17 | 4,359.34 | 73.83 | 60.046 | | |
| 9,800.00 | 6,941.40 | 6,883.04 | 6,868.25 | 86.62 | 34.70 | -87.97 | -3,362.07 | -7,060.25 | 4,340.35 | 4,265.63 | 74.72 | 58.087 | | |
| 9,900.00 | 6,941.03 | 6,884.46 | 6,869.67 | 89.25 | 34.70 | -88.02 | -3,362.05 | -7,060.28 | 4,247.86 | 4,172.16 | 75.70 | 56.114 | | |
| 10,000.00 | 6,940.65 | 6,885.89 | 6,871.10 | 91.90 | 34.71 | -88.07 | -3,362.04 | -7,060.31 | 4,155.71 | 4,078.94 | 76.77 | 54.131 | | |
| 10,100.00 | 6,940.27 | 6,887.33 | 6,872.54 | 94.56 | 34.71 | -88.12 | -3,362.03 | -7,060.34 | 4,063.93 | 3,986.00 | 77.94 | 52.143 | | |
| 10,200.00 | 6,939.89 | 6,888.79 | 6,874.00 | 97.23 | 34.72 | -88.17 | -3,362.02 | -7,060.37 | 3,972.55 | 3,893.35 | 79.21 | 50.155 | | |
| 10,300.00 | 6,939.51 | 6,890.26 | 6,875.47 | 99.91 | 34.72 | -88.22 | -3,362.00 | -7,060.41 | 3,881.60 | 3,801.02 | 80.58 | 48.169 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 11-21-4(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 172-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,891.75 | 6,876.95 | 102.60 | 34.73 | -88.27 | -3,361.99 | -7,060.44 | 3,791.10 | 3,709.03 | 82.07 | 46.192 | | |
| 10,500.00 | 6,938.75 | 6,893.25 | 6,878.45 | 105.30 | 34.73 | -88.33 | -3,361.98 | -7,060.47 | 3,701.09 | 3,617.40 | 83.68 | 44.227 | | |
| 10,600.00 | 6,938.37 | 6,894.76 | 6,879.96 | 108.00 | 34.74 | -88.38 | -3,361.96 | -7,060.51 | 3,611.60 | 3,526.18 | 85.42 | 42.280 | | |
| 10,700.00 | 6,937.99 | 6,896.28 | 6,881.49 | 110.72 | 34.74 | -88.43 | -3,361.95 | -7,060.54 | 3,522.68 | 3,435.38 | 87.29 | 40.355 | | |
| 10,800.00 | 6,937.61 | 6,897.83 | 6,883.03 | 113.44 | 34.75 | -88.49 | -3,361.94 | -7,060.58 | 3,434.36 | 3,345.06 | 89.31 | 38.456 | | |
| 10,900.00 | 6,937.23 | 6,899.38 | 6,884.59 | 116.17 | 34.76 | -88.54 | -3,361.92 | -7,060.61 | 3,346.71 | 3,255.24 | 91.47 | 36.589 | | |
| 11,000.00 | 6,936.85 | 6,900.95 | 6,886.16 | 118.90 | 34.76 | -88.60 | -3,361.91 | -7,060.65 | 3,259.76 | 3,165.97 | 93.79 | 34.757 | | |
| 11,100.00 | 6,936.47 | 6,902.54 | 6,887.74 | 121.64 | 34.77 | -88.65 | -3,361.90 | -7,060.69 | 3,173.58 | 3,077.31 | 96.27 | 32.964 | | |
| 11,200.00 | 6,936.09 | 6,904.14 | 6,889.34 | 124.39 | 34.77 | -88.71 | -3,361.88 | -7,060.72 | 3,088.23 | 2,989.30 | 98.93 | 31.216 | | |
| 11,300.00 | 6,935.71 | 6,905.75 | 6,890.96 | 127.14 | 34.78 | -88.76 | -3,361.87 | -7,060.76 | 3,003.79 | 2,902.01 | 101.78 | 29.514 | | |
| 11,400.00 | 6,935.34 | 6,907.38 | 6,892.59 | 129.90 | 34.78 | -88.82 | -3,361.86 | -7,060.80 | 2,920.33 | 2,815.51 | 104.81 | 27.862 | | |
| 11,500.00 | 6,934.96 | 6,909.03 | 6,894.23 | 132.66 | 34.79 | -88.88 | -3,361.84 | -7,060.84 | 2,837.93 | 2,729.88 | 108.05 | 26.264 | | |
| 11,600.00 | 6,934.58 | 6,910.69 | 6,895.90 | 135.42 | 34.79 | -88.94 | -3,361.83 | -7,060.88 | 2,756.70 | 2,645.20 | 111.51 | 24.722 | | |
| 11,700.00 | 6,934.20 | 6,912.37 | 6,897.57 | 138.19 | 34.80 | -89.00 | -3,361.81 | -7,060.92 | 2,676.74 | 2,561.56 | 115.18 | 23.239 | | |
| 11,800.00 | 6,933.82 | 6,914.07 | 6,899.27 | 140.96 | 34.81 | -89.06 | -3,361.80 | -7,060.96 | 2,598.17 | 2,479.08 | 119.09 | 21.816 | | |
| 11,900.00 | 6,933.44 | 6,915.78 | 6,900.98 | 143.74 | 34.81 | -89.12 | -3,361.79 | -7,061.00 | 2,521.11 | 2,397.87 | 123.24 | 20.457 | | |
| 12,000.00 | 6,933.06 | 6,917.51 | 6,902.71 | 146.51 | 34.82 | -89.18 | -3,361.77 | -7,061.04 | 2,445.72 | 2,318.08 | 127.64 | 19.161 | | |
| 12,100.00 | 6,932.68 | 6,919.26 | 6,904.46 | 149.30 | 34.82 | -89.24 | -3,361.76 | -7,061.08 | 2,372.14 | 2,239.84 | 132.30 | 17.931 | | |
| 12,200.00 | 6,932.30 | 6,921.02 | 6,906.22 | 152.08 | 34.83 | -89.30 | -3,361.75 | -7,061.12 | 2,300.55 | 2,163.35 | 137.21 | 16.767 | | |
| 12,300.00 | 6,931.92 | 6,922.80 | 6,908.00 | 154.87 | 34.84 | -89.36 | -3,361.73 | -7,061.17 | 2,231.15 | 2,088.77 | 142.38 | 15.670 | | |
| 12,400.00 | 6,931.54 | 6,924.60 | 6,909.80 | 157.66 | 34.84 | -89.43 | -3,361.72 | -7,061.21 | 2,164.15 | 2,016.34 | 147.81 | 14.641 | | |
| 12,500.00 | 6,931.16 | 6,926.42 | 6,911.62 | 160.45 | 34.85 | -89.49 | -3,361.70 | -7,061.25 | 2,099.77 | 1,946.28 | 153.49 | 13.680 | | |
| 12,600.00 | 6,930.78 | 6,928.26 | 6,913.46 | 163.24 | 34.86 | -89.55 | -3,361.69 | -7,061.30 | 2,038.26 | 1,878.86 | 159.40 | 12.787 | | |
| 12,700.00 | 6,930.40 | 6,930.11 | 6,915.31 | 166.04 | 34.86 | -89.62 | -3,361.68 | -7,061.34 | 1,979.89 | 1,814.37 | 165.52 | 11.961 | | |
| 12,800.00 | 6,930.03 | 6,931.99 | 6,917.19 | 168.84 | 34.87 | -89.69 | -3,361.66 | -7,061.39 | 1,924.95 | 1,753.13 | 171.82 | 11.203 | | |
| 12,900.00 | 6,929.65 | 6,933.88 | 6,919.08 | 171.64 | 34.88 | -89.75 | -3,361.65 | -7,061.44 | 1,873.73 | 1,695.48 | 178.25 | 10.512 | | |
| 13,000.00 | 6,929.27 | 6,935.80 | 6,920.99 | 174.44 | 34.88 | -89.82 | -3,361.63 | -7,061.49 | 1,826.56 | 1,641.80 | 184.76 | 9.886 | | |
| 13,100.00 | 6,928.89 | 6,937.73 | 6,922.93 | 177.24 | 34.89 | -89.89 | -3,361.62 | -7,061.53 | 1,783.75 | 1,592.47 | 191.28 | 9.325 | | |
| 13,200.00 | 6,928.51 | 6,939.69 | 6,924.88 | 180.05 | 34.90 | -89.96 | -3,361.60 | -7,061.58 | 1,745.62 | 1,547.90 | 197.72 | 8.829 | | |
| 13,300.00 | 6,928.13 | 6,941.66 | 6,926.86 | 182.86 | 34.90 | -90.03 | -3,361.59 | -7,061.63 | 1,712.49 | 1,508.48 | 204.00 | 8.394 | | |
| 13,400.00 | 6,927.75 | 6,943.66 | 6,928.85 | 185.67 | 34.91 | -90.10 | -3,361.58 | -7,061.68 | 1,684.64 | 1,474.62 | 210.02 | 8.021 | | |
| 13,500.00 | 6,927.37 | 6,945.68 | 6,930.87 | 188.48 | 34.92 | -90.17 | -3,361.56 | -7,061.74 | 1,662.36 | 1,446.68 | 215.67 | 7.708 | | |
| 13,600.00 | 6,926.99 | 6,947.72 | 6,932.91 | 191.29 | 34.92 | -90.24 | -3,361.55 | -7,061.79 | 1,645.85 | 1,425.00 | 220.85 | 7.452 | | |
| 13,700.00 | 6,926.61 | 6,949.78 | 6,934.97 | 194.10 | 34.93 | -90.31 | -3,361.53 | -7,061.84 | 1,635.30 | 1,409.83 | 225.48 | 7.253 | | |
| 13,800.00 | 6,926.23 | 6,951.87 | 6,937.05 | 196.92 | 34.94 | -90.38 | -3,361.52 | -7,061.89 | 1,630.82 | 1,401.37 | 229.45 | 7.107 | | |
| 13,823.15 | 6,926.14 | 6,952.35 | 6,937.54 | 197.57 | 34.94 | -90.40 | -3,361.52 | -7,061.91 | 1,630.66 | 1,400.38 | 230.28 | 7.081 CC | | |
| 13,900.00 | 6,925.85 | 6,953.97 | 6,939.16 | 199.73 | 34.95 | -90.46 | -3,361.50 | -7,061.95 | 1,632.47 | 1,399.74 | 232.73 | 7.014 ES | | |
| 14,000.00 | 6,925.47 | 6,956.10 | 6,941.29 | 202.55 | 34.95 | -90.53 | -3,361.49 | -7,062.00 | 1,640.22 | 1,404.95 | 235.27 | 6.972 SF | | |
| 14,100.00 | 6,925.09 | 6,958.26 | 6,943.45 | 205.37 | 34.96 | -90.61 | -3,361.48 | -7,062.06 | 1,653.98 | 1,416.92 | 237.06 | 6.977 | | |
| 14,200.00 | 6,924.71 | 6,960.44 | 6,945.62 | 208.19 | 34.97 | -90.68 | -3,361.46 | -7,062.12 | 1,673.62 | 1,435.50 | 238.12 | 7.029 | | |
| 14,300.00 | 6,924.34 | 6,962.64 | 6,947.82 | 211.01 | 34.98 | -90.76 | -3,361.45 | -7,062.18 | 1,698.92 | 1,460.44 | 238.47 | 7.124 | | |
| 14,400.00 | 6,923.96 | 6,964.87 | 6,950.05 | 213.83 | 34.98 | -90.84 | -3,361.43 | -7,062.24 | 1,729.64 | 1,491.45 | 238.19 | 7.262 | | |
| 14,500.00 | 6,923.58 | 6,967.12 | 6,952.30 | 216.65 | 34.99 | -90.92 | -3,361.42 | -7,062.30 | 1,765.49 | 1,528.16 | 237.33 | 7.439 | | |
| 14,600.00 | 6,923.20 | 6,969.40 | 6,954.58 | 219.48 | 35.00 | -91.00 | -3,361.40 | -7,062.36 | 1,806.17 | 1,570.20 | 235.97 | 7.654 | | |
| 14,700.00 | 6,922.82 | 6,971.70 | 6,956.88 | 222.30 | 35.01 | -91.08 | -3,361.39 | -7,062.42 | 1,851.36 | 1,617.18 | 234.18 | 7.906 | | |
| 14,800.00 | 6,922.44 | 6,974.03 | 6,959.21 | 225.13 | 35.02 | -91.16 | -3,361.38 | -7,062.48 | 1,900.74 | 1,668.69 | 232.05 | 8.191 | | |
| 14,900.00 | 6,922.06 | 6,976.39 | 6,961.57 | 227.95 | 35.02 | -91.24 | -3,361.36 | -7,062.55 | 1,953.99 | 1,724.35 | 229.64 | 8.509 | | |
| 14,915.55 | 6,922.00 | 6,976.76 | 6,961.94 | 228.39 | 35.03 | -91.26 | -3,361.36 | -7,062.56 | 1,962.60 | 1,733.35 | 229.25 | 8.561 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 11-21(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 67.00 | 3.28 | 3.28 | -117.75 | -4,030.57 | -7,661.24 | 8,657.05 | | | | | |
| 100.00 | 100.00 | 33.00 | 100.00 | 3.28 | 3.33 | -117.75 | -4,030.57 | -7,661.24 | 8,656.79 | 8,650.18 | 6.61 | 1,308.678 | | |
| 200.00 | 200.00 | 133.00 | 200.00 | 3.34 | 4.38 | -117.75 | -4,030.57 | -7,661.24 | 8,656.79 | 8,649.08 | 7.71 | 1,122.282 | | |
| 300.00 | 299.98 | 232.98 | 299.98 | 3.44 | 7.18 | 56.90 | -4,030.57 | -7,661.24 | 8,655.84 | 8,645.22 | 10.62 | 815.032 | | |
| 400.00 | 399.84 | 332.84 | 399.84 | 3.59 | 10.40 | 56.97 | -4,030.57 | -7,661.24 | 8,652.98 | 8,638.99 | 13.99 | 618.341 | | |
| 500.00 | 499.45 | 432.45 | 499.45 | 3.79 | 13.75 | 57.10 | -4,030.57 | -7,661.24 | 8,648.23 | 8,630.69 | 17.54 | 493.160 | | |
| 600.00 | 598.70 | 531.70 | 598.70 | 4.03 | 17.13 | 57.28 | -4,030.57 | -7,661.24 | 8,641.59 | 8,620.42 | 21.16 | 408.323 | | |
| 700.00 | 697.47 | 630.47 | 697.47 | 4.31 | 20.53 | 57.51 | -4,030.57 | -7,661.24 | 8,633.08 | 8,608.24 | 24.84 | 347.536 | | |
| 800.00 | 795.62 | 728.62 | 795.62 | 4.64 | 23.92 | 57.79 | -4,030.57 | -7,661.24 | 8,622.74 | 8,594.19 | 28.55 | 302.032 | | |
| 900.00 | 893.06 | 826.06 | 893.06 | 5.00 | 27.29 | 58.12 | -4,030.57 | -7,661.24 | 8,610.58 | 8,578.30 | 32.28 | 266.783 | | |
| 1,000.00 | 989.78 | 922.78 | 989.78 | 5.39 | 30.64 | 58.37 | -4,030.57 | -7,661.24 | 8,596.92 | 8,560.90 | 36.01 | 238.714 | | |
| 1,100.00 | 1,086.42 | 1,019.42 | 1,086.42 | 5.81 | 34.00 | 58.51 | -4,030.57 | -7,661.24 | 8,583.12 | 8,543.35 | 39.77 | 215.801 | | |
| 1,200.00 | 1,183.06 | 1,116.06 | 1,183.06 | 6.25 | 37.36 | 58.65 | -4,030.57 | -7,661.24 | 8,569.38 | 8,525.83 | 43.55 | 196.750 | | |
| 1,300.00 | 1,279.69 | 1,212.69 | 1,279.69 | 6.71 | 40.72 | 58.80 | -4,030.57 | -7,661.24 | 8,555.70 | 8,508.35 | 47.35 | 180.679 | | |
| 1,400.00 | 1,376.33 | 1,309.33 | 1,376.33 | 7.17 | 44.09 | 58.94 | -4,030.57 | -7,661.24 | 8,542.07 | 8,490.91 | 51.17 | 166.949 | | |
| 1,500.00 | 1,472.97 | 1,405.97 | 1,472.97 | 7.65 | 47.45 | 59.09 | -4,030.57 | -7,661.24 | 8,528.50 | 8,473.51 | 54.99 | 155.092 | | |
| 1,600.00 | 1,569.61 | 1,502.61 | 1,569.61 | 8.13 | 50.82 | 59.23 | -4,030.57 | -7,661.24 | 8,514.98 | 8,456.16 | 58.82 | 144.755 | | |
| 1,700.00 | 1,666.24 | 1,600.76 | 1,666.24 | 8.62 | 54.24 | 59.38 | -4,030.57 | -7,661.24 | 8,501.52 | 8,438.81 | 62.72 | 135.552 | | |
| 1,800.00 | 1,762.88 | 1,704.12 | 1,762.88 | 9.12 | 57.84 | 59.52 | -4,030.57 | -7,661.24 | 8,488.12 | 8,421.32 | 66.80 | 127.066 | | |
| 1,900.00 | 1,859.52 | 1,807.48 | 1,859.52 | 9.62 | 61.44 | 59.67 | -4,030.57 | -7,661.24 | 8,474.77 | 8,403.88 | 70.89 | 119.549 | | |
| 2,000.00 | 1,956.16 | 1,889.16 | 1,956.16 | 10.13 | 64.29 | 59.81 | -4,030.57 | -7,661.24 | 8,461.48 | 8,387.26 | 74.23 | 113.995 | | |
| 2,100.00 | 2,052.79 | 1,985.79 | 2,052.79 | 10.64 | 67.66 | 59.96 | -4,030.57 | -7,661.24 | 8,448.25 | 8,370.16 | 78.09 | 108.186 | | |
| 2,200.00 | 2,149.43 | 2,082.43 | 2,149.43 | 11.15 | 71.03 | 60.11 | -4,030.57 | -7,661.24 | 8,435.08 | 8,353.12 | 81.96 | 102.920 | | |
| 2,300.00 | 2,246.07 | 2,179.07 | 2,246.07 | 11.66 | 74.40 | 60.26 | -4,030.57 | -7,661.24 | 8,421.96 | 8,336.13 | 85.83 | 98.126 | | |
| 2,400.00 | 2,342.71 | 2,275.71 | 2,342.71 | 12.18 | 77.77 | 60.40 | -4,030.57 | -7,661.24 | 8,408.90 | 8,319.20 | 89.70 | 93.743 | | |
| 2,500.00 | 2,439.34 | 2,372.34 | 2,439.34 | 12.70 | 81.14 | 60.55 | -4,030.57 | -7,661.24 | 8,395.90 | 8,302.32 | 93.58 | 89.721 | | |
| 2,600.00 | 2,535.98 | 2,468.98 | 2,535.98 | 13.22 | 84.51 | 60.70 | -4,030.57 | -7,661.24 | 8,382.96 | 8,285.50 | 97.46 | 86.018 | | |
| 2,700.00 | 2,632.62 | 2,565.62 | 2,632.62 | 13.75 | 87.88 | 60.85 | -4,030.57 | -7,661.24 | 8,370.08 | 8,268.74 | 101.34 | 82.597 | | |
| 2,800.00 | 2,729.26 | 2,662.26 | 2,729.26 | 14.27 | 91.25 | 61.00 | -4,030.57 | -7,661.24 | 8,357.25 | 8,252.04 | 105.22 | 79.427 | | |
| 2,900.00 | 2,825.89 | 2,758.89 | 2,825.89 | 14.80 | 94.62 | 61.15 | -4,030.57 | -7,661.24 | 8,344.49 | 8,235.39 | 109.10 | 76.483 | | |
| 3,000.00 | 2,922.53 | 2,855.53 | 2,922.53 | 15.32 | 98.00 | 61.30 | -4,030.57 | -7,661.24 | 8,331.79 | 8,218.80 | 112.99 | 73.740 | | |
| 3,100.00 | 3,019.17 | 2,952.17 | 3,019.17 | 15.85 | 101.37 | 61.45 | -4,030.57 | -7,661.24 | 8,319.14 | 8,202.27 | 116.88 | 71.179 | | |
| 3,200.00 | 3,115.81 | 3,048.81 | 3,115.81 | 16.38 | 104.74 | 61.61 | -4,030.57 | -7,661.24 | 8,306.56 | 8,185.80 | 120.76 | 68.783 | | |
| 3,300.00 | 3,212.44 | 3,145.44 | 3,212.44 | 16.91 | 108.11 | 61.76 | -4,030.57 | -7,661.24 | 8,294.04 | 8,169.38 | 124.65 | 66.536 | | |
| 3,400.00 | 3,309.08 | 3,242.08 | 3,309.08 | 17.44 | 111.48 | 61.91 | -4,030.57 | -7,661.24 | 8,281.58 | 8,153.03 | 128.55 | 64.425 | | |
| 3,500.00 | 3,405.72 | 3,338.72 | 3,405.72 | 17.97 | 114.86 | 62.06 | -4,030.57 | -7,661.24 | 8,269.18 | 8,136.74 | 132.44 | 62.438 | | |
| 3,600.00 | 3,502.36 | 3,435.36 | 3,502.36 | 18.50 | 118.23 | 62.22 | -4,030.57 | -7,661.24 | 8,256.84 | 8,120.51 | 136.33 | 60.565 | | |
| 3,700.00 | 3,598.99 | 3,531.99 | 3,598.99 | 19.03 | 121.60 | 62.37 | -4,030.57 | -7,661.24 | 8,244.56 | 8,104.33 | 140.22 | 58.795 | | |
| 3,800.00 | 3,695.63 | 3,628.63 | 3,695.63 | 19.57 | 124.97 | 62.53 | -4,030.57 | -7,661.24 | 8,232.34 | 8,088.22 | 144.12 | 57.122 | | |
| 3,900.00 | 3,792.27 | 3,725.27 | 3,792.27 | 20.10 | 128.35 | 62.68 | -4,030.57 | -7,661.24 | 8,220.19 | 8,072.18 | 148.02 | 55.536 | | |
| 4,000.00 | 3,888.91 | 3,821.91 | 3,888.91 | 20.63 | 131.72 | 62.84 | -4,030.57 | -7,661.24 | 8,208.10 | 8,056.19 | 151.91 | 54.032 | | |
| 4,100.00 | 3,985.54 | 3,918.54 | 3,985.54 | 21.17 | 135.09 | 62.99 | -4,030.57 | -7,661.24 | 8,196.07 | 8,040.26 | 155.81 | 52.603 | | |
| 4,200.00 | 4,082.18 | 4,015.18 | 4,082.18 | 21.70 | 138.46 | 63.15 | -4,030.57 | -7,661.24 | 8,184.11 | 8,024.40 | 159.71 | 51.244 | | |
| 4,300.00 | 4,178.82 | 4,111.82 | 4,178.82 | 22.24 | 141.84 | 63.30 | -4,030.57 | -7,661.24 | 8,172.21 | 8,008.60 | 163.61 | 49.951 | | |
| 4,400.00 | 4,275.46 | 4,208.46 | 4,275.46 | 22.77 | 145.21 | 63.46 | -4,030.57 | -7,661.24 | 8,160.37 | 7,992.86 | 167.51 | 48.717 | | |
| 4,500.00 | 4,372.09 | 4,305.09 | 4,372.09 | 23.31 | 148.58 | 63.62 | -4,030.57 | -7,661.24 | 8,148.59 | 7,977.19 | 171.41 | 47.540 | | |
| 4,600.00 | 4,468.73 | 4,401.73 | 4,468.73 | 23.84 | 151.95 | 63.78 | -4,030.57 | -7,661.24 | 8,136.89 | 7,961.58 | 175.31 | 46.415 | | |
| 4,700.00 | 4,565.37 | 4,501.63 | 4,565.37 | 24.38 | 155.44 | 63.93 | -4,030.57 | -7,661.24 | 8,125.24 | 7,945.92 | 179.32 | 45.311 | | |
| 4,800.00 | 4,662.01 | 4,604.99 | 4,662.01 | 24.91 | 159.05 | 64.09 | -4,030.57 | -7,661.24 | 8,113.66 | 7,930.20 | 183.46 | 44.226 | | |
| 4,900.00 | 4,758.64 | 4,708.36 | 4,758.64 | 25.45 | 162.66 | 64.25 | -4,030.57 | -7,661.24 | 8,102.15 | 7,914.55 | 187.60 | 43.189 | | |
| 5,000.00 | 4,855.28 | 4,788.28 | 4,855.28 | 25.99 | 166.45 | 64.41 | -4,030.57 | -7,661.24 | 8,090.70 | 7,899.78 | 190.92 | 42.379 | | |
| 5,100.00 | 4,951.92 | 4,884.92 | 4,951.92 | 26.53 | 168.82 | 64.57 | -4,030.57 | -7,661.24 | 8,079.31 | 7,884.49 | 194.82 | 41.471 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 11-21(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,981.56 | 5,048.56 | 27.06 | 172.19 | 64.73 | -4,030.57 | -7,661.24 | 8,067.99 | 7,869.27 | 198.72 | 40.599 | | |
| 5,300.00 | 5,145.19 | 5,078.19 | 5,145.19 | 27.60 | 175.57 | 64.89 | -4,030.57 | -7,661.24 | 8,056.74 | 7,854.11 | 202.63 | 39.761 | | |
| 5,400.00 | 5,241.83 | 5,174.83 | 5,241.83 | 28.14 | 178.94 | 65.05 | -4,030.57 | -7,661.24 | 8,045.56 | 7,839.02 | 206.53 | 38.955 | | |
| 5,500.00 | 5,338.47 | 5,271.47 | 5,338.47 | 28.67 | 182.31 | 65.22 | -4,030.57 | -7,661.24 | 8,034.44 | 7,824.00 | 210.44 | 38.180 | | |
| 5,600.00 | 5,435.11 | 5,368.11 | 5,435.11 | 29.21 | 185.68 | 65.38 | -4,030.57 | -7,661.24 | 8,023.38 | 7,809.04 | 214.34 | 37.432 | | |
| 5,700.00 | 5,531.74 | 5,464.74 | 5,531.74 | 29.75 | 189.06 | 65.54 | -4,030.57 | -7,661.24 | 8,012.40 | 7,794.15 | 218.25 | 36.712 | | |
| 5,800.00 | 5,628.38 | 5,561.38 | 5,628.38 | 30.29 | 192.43 | 65.70 | -4,030.57 | -7,661.24 | 8,001.48 | 7,779.33 | 222.16 | 36.017 | | |
| 5,900.00 | 5,725.02 | 5,658.02 | 5,725.02 | 30.83 | 195.80 | 65.87 | -4,030.57 | -7,661.24 | 7,990.63 | 7,764.57 | 226.06 | 35.347 | | |
| 6,000.00 | 5,821.66 | 5,754.66 | 5,821.66 | 31.37 | 199.18 | 66.03 | -4,030.57 | -7,661.24 | 7,979.85 | 7,749.88 | 229.97 | 34.699 | | |
| 6,100.00 | 5,918.29 | 5,851.29 | 5,918.29 | 31.90 | 202.55 | 66.20 | -4,030.57 | -7,661.24 | 7,969.14 | 7,735.26 | 233.88 | 34.074 | | |
| 6,200.00 | 6,014.93 | 5,947.93 | 6,014.93 | 32.44 | 205.92 | 66.36 | -4,030.57 | -7,661.24 | 7,958.50 | 7,720.71 | 237.79 | 33.469 | | |
| 6,300.00 | 6,111.57 | 6,044.57 | 6,111.57 | 32.98 | 209.30 | 66.52 | -4,030.57 | -7,661.24 | 7,947.92 | 7,706.22 | 241.70 | 32.884 | | |
| 6,400.00 | 6,208.21 | 6,141.21 | 6,208.21 | 33.52 | 212.67 | 66.69 | -4,030.57 | -7,661.24 | 7,937.41 | 7,691.81 | 245.61 | 32.318 | | |
| 6,500.00 | 6,304.84 | 6,237.84 | 6,304.84 | 34.06 | 216.04 | 66.86 | -4,030.57 | -7,661.24 | 7,926.98 | 7,677.46 | 249.52 | 31.769 | | |
| 6,600.00 | 6,401.37 | 6,334.37 | 6,401.37 | 34.60 | 219.41 | 50.11 | -4,030.57 | -7,661.24 | 7,914.55 | 7,661.13 | 253.42 | 31.231 | | |
| 6,700.00 | 6,496.25 | 6,429.25 | 6,496.25 | 35.12 | 222.72 | 27.03 | -4,030.57 | -7,661.24 | 7,889.15 | 7,631.92 | 257.23 | 30.670 | | |
| 6,800.00 | 6,587.15 | 6,520.15 | 6,587.15 | 35.59 | 225.90 | 13.48 | -4,030.57 | -7,661.24 | 7,849.69 | 7,588.85 | 260.85 | 30.093 | | |
| 6,900.00 | 6,671.83 | 6,604.83 | 6,671.83 | 36.03 | 228.85 | 4.57 | -4,030.57 | -7,661.24 | 7,797.14 | 7,532.95 | 264.19 | 29.513 | | |
| 7,000.00 | 6,748.21 | 6,681.21 | 6,748.21 | 36.41 | 231.52 | -2.64 | -4,030.57 | -7,661.24 | 7,732.75 | 7,465.58 | 267.18 | 28.942 | | |
| 7,100.00 | 6,814.41 | 6,747.41 | 6,814.41 | 36.76 | 233.83 | -9.95 | -4,030.57 | -7,661.24 | 7,658.13 | 7,388.39 | 269.74 | 28.391 | | |
| 7,200.00 | 6,868.79 | 6,801.79 | 6,868.79 | 37.07 | 235.73 | -19.09 | -4,030.57 | -7,661.24 | 7,575.11 | 7,303.30 | 271.81 | 27.869 | | |
| 7,300.00 | 6,910.01 | 6,843.01 | 6,910.01 | 37.39 | 237.17 | -32.56 | -4,030.57 | -7,661.24 | 7,485.77 | 7,212.42 | 273.35 | 27.386 | | |
| 7,400.00 | 6,937.07 | 6,870.07 | 6,937.07 | 37.76 | 238.11 | -53.68 | -4,030.57 | -7,661.24 | 7,392.34 | 7,118.02 | 274.32 | 26.948 | | |
| 7,500.00 | 6,949.29 | 6,882.29 | 6,949.29 | 38.27 | 238.54 | -81.61 | -4,030.57 | -7,661.24 | 7,297.18 | 7,022.45 | 274.73 | 26.561 | | |
| 7,600.00 | 6,949.75 | 6,882.75 | 6,949.75 | 39.02 | 238.55 | -90.65 | -4,030.57 | -7,661.24 | 7,202.27 | 6,927.56 | 274.72 | 26.217 | | |
| 7,700.00 | 6,949.37 | 6,882.37 | 6,949.37 | 40.05 | 238.54 | -90.64 | -4,030.57 | -7,661.24 | 7,107.56 | 6,832.87 | 274.70 | 25.874 | | |
| 7,800.00 | 6,948.99 | 6,881.99 | 6,948.99 | 41.35 | 238.53 | -90.63 | -4,030.57 | -7,661.24 | 7,013.00 | 6,738.30 | 274.70 | 25.529 | | |
| 7,900.00 | 6,948.61 | 6,881.61 | 6,948.61 | 42.86 | 238.51 | -90.62 | -4,030.57 | -7,661.24 | 6,918.59 | 6,643.85 | 274.74 | 25.182 | | |
| 8,000.00 | 6,948.23 | 6,881.23 | 6,948.23 | 44.53 | 238.50 | -90.61 | -4,030.57 | -7,661.24 | 6,824.34 | 6,549.52 | 274.82 | 24.832 | | |
| 8,100.00 | 6,947.85 | 6,880.85 | 6,947.85 | 46.34 | 238.49 | -90.60 | -4,030.57 | -7,661.24 | 6,730.25 | 6,455.33 | 274.93 | 24.480 | | |
| 8,200.00 | 6,947.47 | 6,880.47 | 6,947.47 | 48.26 | 238.47 | -90.59 | -4,030.57 | -7,661.24 | 6,636.34 | 6,361.26 | 275.08 | 24.125 | | |
| 8,300.00 | 6,947.09 | 6,880.09 | 6,947.09 | 50.28 | 238.46 | -90.58 | -4,030.57 | -7,661.24 | 6,542.61 | 6,267.34 | 275.27 | 23.768 | | |
| 8,400.00 | 6,946.72 | 6,879.72 | 6,946.72 | 52.39 | 238.45 | -90.57 | -4,030.57 | -7,661.24 | 6,449.07 | 6,173.56 | 275.51 | 23.408 | | |
| 8,500.00 | 6,946.34 | 6,879.34 | 6,946.34 | 54.56 | 238.44 | -90.56 | -4,030.57 | -7,661.24 | 6,355.72 | 6,079.93 | 275.79 | 23.046 | | |
| 8,600.00 | 6,945.96 | 6,878.96 | 6,945.96 | 56.80 | 238.42 | -90.55 | -4,030.57 | -7,661.24 | 6,262.58 | 5,986.46 | 276.12 | 22.681 | | |
| 8,700.00 | 6,945.58 | 6,878.58 | 6,945.58 | 59.10 | 238.41 | -90.54 | -4,030.57 | -7,661.24 | 6,169.65 | 5,893.14 | 276.51 | 22.313 | | |
| 8,800.00 | 6,945.20 | 6,878.20 | 6,945.20 | 61.44 | 238.40 | -90.53 | -4,030.57 | -7,661.24 | 6,076.95 | 5,800.00 | 276.95 | 21.943 | | |
| 8,900.00 | 6,944.82 | 6,877.82 | 6,944.82 | 63.83 | 238.38 | -90.52 | -4,030.57 | -7,661.24 | 5,984.48 | 5,707.03 | 277.45 | 21.570 | | |
| 9,000.00 | 6,944.44 | 6,877.44 | 6,944.44 | 66.25 | 238.37 | -90.51 | -4,030.57 | -7,661.24 | 5,892.26 | 5,614.25 | 278.01 | 21.194 | | |
| 9,100.00 | 6,944.06 | 6,877.06 | 6,944.06 | 68.71 | 238.36 | -90.50 | -4,030.57 | -7,661.24 | 5,800.30 | 5,521.66 | 278.63 | 20.817 | | |
| 9,200.00 | 6,943.68 | 6,876.68 | 6,943.68 | 71.20 | 238.34 | -90.49 | -4,030.57 | -7,661.24 | 5,708.60 | 5,429.28 | 279.33 | 20.437 | | |
| 9,300.00 | 6,943.30 | 6,876.30 | 6,943.30 | 73.72 | 238.33 | -90.49 | -4,030.57 | -7,661.24 | 5,617.19 | 5,337.10 | 280.09 | 20.055 | | |
| 9,400.00 | 6,942.92 | 6,875.92 | 6,942.92 | 76.26 | 238.32 | -90.48 | -4,030.57 | -7,661.24 | 5,526.08 | 5,245.16 | 280.92 | 19.671 | | |
| 9,500.00 | 6,942.54 | 6,875.54 | 6,942.54 | 78.82 | 238.30 | -90.47 | -4,030.57 | -7,661.24 | 5,435.28 | 5,153.44 | 281.84 | 19.285 | | |
| 9,600.00 | 6,942.16 | 6,875.16 | 6,942.16 | 81.40 | 238.29 | -90.46 | -4,030.57 | -7,661.24 | 5,344.81 | 5,061.98 | 282.82 | 18.898 | | |
| 9,700.00 | 6,941.78 | 6,874.78 | 6,941.78 | 84.00 | 238.28 | -90.45 | -4,030.57 | -7,661.24 | 5,254.68 | 4,970.79 | 283.89 | 18.509 | | |
| 9,800.00 | 6,941.40 | 6,874.40 | 6,941.40 | 86.62 | 238.26 | -90.44 | -4,030.57 | -7,661.24 | 5,164.92 | 4,879.87 | 285.05 | 18.119 | | |
| 9,900.00 | 6,941.03 | 6,874.03 | 6,941.03 | 89.25 | 238.25 | -90.43 | -4,030.57 | -7,661.24 | 5,075.54 | 4,789.25 | 286.29 | 17.729 | | |
| 10,000.00 | 6,940.65 | 6,873.65 | 6,940.65 | 91.90 | 238.24 | -90.42 | -4,030.57 | -7,661.24 | 4,986.56 | 4,698.94 | 287.62 | 17.337 | | |
| 10,100.00 | 6,940.27 | 6,873.27 | 6,940.27 | 94.56 | 238.22 | -90.41 | -4,030.57 | -7,661.24 | 4,898.01 | 4,608.97 | 289.04 | 16.946 | | |
| 10,200.00 | 6,939.89 | 6,872.89 | 6,939.89 | 97.23 | 238.21 | -90.40 | -4,030.57 | -7,661.24 | 4,809.91 | 4,519.35 | 290.56 | 16.554 | | |
| 10,300.00 | 6,939.51 | 6,872.51 | 6,939.51 | 99.91 | 238.20 | -90.39 | -4,030.57 | -7,661.24 | 4,722.28 | 4,430.11 | 292.17 | 16.163 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 11-21(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,872.13 | 6,939.13 | 102.60 | 238.18 | -90.38 | -4,030.57 | -7,661.24 | 4,635.15 | 4,341.26 | 293.89 | 15.772 | | |
| 10,500.00 | 6,938.75 | 6,871.75 | 6,938.75 | 105.30 | 238.17 | -90.37 | -4,030.57 | -7,661.24 | 4,548.55 | 4,252.84 | 295.71 | 15.382 | | |
| 10,600.00 | 6,938.37 | 6,871.37 | 6,938.37 | 108.00 | 238.16 | -90.36 | -4,030.57 | -7,661.24 | 4,462.52 | 4,164.88 | 297.64 | 14.993 | | |
| 10,700.00 | 6,937.99 | 6,870.99 | 6,937.99 | 110.72 | 238.14 | -90.35 | -4,030.57 | -7,661.24 | 4,377.07 | 4,077.39 | 299.68 | 14.606 | | |
| 10,800.00 | 6,937.61 | 6,870.61 | 6,937.61 | 113.44 | 238.13 | -90.34 | -4,030.57 | -7,661.24 | 4,292.26 | 3,990.42 | 301.83 | 14.221 | | |
| 10,900.00 | 6,937.23 | 6,870.23 | 6,937.23 | 116.17 | 238.12 | -90.33 | -4,030.57 | -7,661.24 | 4,208.11 | 3,904.01 | 304.10 | 13.838 | | |
| 11,000.00 | 6,936.85 | 6,869.85 | 6,936.85 | 118.90 | 238.10 | -90.32 | -4,030.57 | -7,661.24 | 4,124.67 | 3,818.17 | 306.49 | 13.458 | | |
| 11,100.00 | 6,936.47 | 6,869.47 | 6,936.47 | 121.64 | 238.09 | -90.31 | -4,030.57 | -7,661.24 | 4,041.98 | 3,732.97 | 309.01 | 13.080 | | |
| 11,200.00 | 6,936.09 | 6,869.09 | 6,936.09 | 124.39 | 238.08 | -90.31 | -4,030.57 | -7,661.24 | 3,960.09 | 3,648.43 | 311.66 | 12.707 | | |
| 11,300.00 | 6,935.71 | 6,868.71 | 6,935.71 | 127.14 | 238.06 | -90.30 | -4,030.57 | -7,661.24 | 3,879.04 | 3,564.61 | 314.43 | 12.337 | | |
| 11,400.00 | 6,935.34 | 6,868.34 | 6,935.34 | 129.90 | 238.05 | -90.29 | -4,030.57 | -7,661.24 | 3,798.91 | 3,481.56 | 317.35 | 11.971 | | |
| 11,500.00 | 6,934.96 | 6,867.96 | 6,934.96 | 132.66 | 238.04 | -90.28 | -4,030.57 | -7,661.24 | 3,719.73 | 3,399.33 | 320.40 | 11.610 | | |
| 11,600.00 | 6,934.58 | 6,867.58 | 6,934.58 | 135.42 | 238.02 | -90.27 | -4,030.57 | -7,661.24 | 3,641.58 | 3,317.99 | 323.59 | 11.254 | | |
| 11,700.00 | 6,934.20 | 6,867.20 | 6,934.20 | 138.19 | 238.01 | -90.26 | -4,030.57 | -7,661.24 | 3,564.52 | 3,237.59 | 326.93 | 10.903 | | |
| 11,800.00 | 6,933.82 | 6,866.82 | 6,933.82 | 140.96 | 238.00 | -90.25 | -4,030.57 | -7,661.24 | 3,488.62 | 3,158.20 | 330.42 | 10.558 | | |
| 11,900.00 | 6,933.44 | 6,866.44 | 6,933.44 | 143.74 | 237.98 | -90.24 | -4,030.57 | -7,661.24 | 3,413.97 | 3,079.91 | 334.07 | 10.219 | | |
| 12,000.00 | 6,933.06 | 6,866.06 | 6,933.06 | 146.51 | 237.97 | -90.23 | -4,030.57 | -7,661.24 | 3,340.64 | 3,002.78 | 337.86 | 9.888 | | |
| 12,100.00 | 6,932.68 | 6,865.68 | 6,932.68 | 149.30 | 237.96 | -90.22 | -4,030.57 | -7,661.24 | 3,268.73 | 2,926.92 | 341.81 | 9.563 | | |
| 12,200.00 | 6,932.30 | 6,865.30 | 6,932.30 | 152.08 | 237.95 | -90.21 | -4,030.57 | -7,661.24 | 3,198.33 | 2,852.41 | 345.92 | 9.246 | | |
| 12,300.00 | 6,931.92 | 6,864.92 | 6,931.92 | 154.87 | 237.93 | -90.20 | -4,030.57 | -7,661.24 | 3,129.54 | 2,779.36 | 350.18 | 8.937 | | |
| 12,400.00 | 6,931.54 | 6,864.54 | 6,931.54 | 157.66 | 237.92 | -90.19 | -4,030.57 | -7,661.24 | 3,062.47 | 2,707.87 | 354.60 | 8.636 | | |
| 12,500.00 | 6,931.16 | 6,864.16 | 6,931.16 | 160.45 | 237.91 | -90.18 | -4,030.57 | -7,661.24 | 2,997.23 | 2,638.07 | 359.16 | 8.345 | | |
| 12,600.00 | 6,930.78 | 6,863.78 | 6,930.78 | 163.24 | 237.89 | -90.17 | -4,030.57 | -7,661.24 | 2,933.96 | 2,570.09 | 363.87 | 8.063 | | |
| 12,700.00 | 6,930.40 | 6,863.40 | 6,930.40 | 166.04 | 237.88 | -90.16 | -4,030.57 | -7,661.24 | 2,872.77 | 2,504.05 | 368.72 | 7.791 | | |
| 12,800.00 | 6,930.03 | 6,863.03 | 6,930.03 | 168.84 | 237.87 | -90.15 | -4,030.57 | -7,661.24 | 2,813.81 | 2,440.11 | 373.70 | 7.530 | | |
| 12,900.00 | 6,929.65 | 6,862.65 | 6,929.65 | 171.64 | 237.85 | -90.14 | -4,030.57 | -7,661.24 | 2,757.21 | 2,378.42 | 378.79 | 7.279 | | |
| 13,000.00 | 6,929.27 | 6,862.27 | 6,929.27 | 174.44 | 237.84 | -90.14 | -4,030.57 | -7,661.24 | 2,703.13 | 2,319.15 | 383.98 | 7.040 | | |
| 13,100.00 | 6,928.89 | 6,861.89 | 6,928.89 | 177.24 | 237.83 | -90.13 | -4,030.57 | -7,661.24 | 2,651.72 | 2,262.46 | 389.26 | 6.812 | | |
| 13,200.00 | 6,928.51 | 6,861.51 | 6,928.51 | 180.05 | 237.81 | -90.12 | -4,030.57 | -7,661.24 | 2,603.13 | 2,208.54 | 394.59 | 6.597 | | |
| 13,300.00 | 6,928.13 | 6,861.13 | 6,928.13 | 182.86 | 237.80 | -90.11 | -4,030.57 | -7,661.24 | 2,557.54 | 2,157.58 | 399.96 | 6.394 | | |
| 13,400.00 | 6,927.75 | 6,860.75 | 6,927.75 | 185.67 | 237.79 | -90.10 | -4,030.57 | -7,661.24 | 2,515.09 | 2,109.75 | 405.34 | 6.205 | | |
| 13,500.00 | 6,927.37 | 6,860.37 | 6,927.37 | 188.48 | 237.77 | -90.09 | -4,030.57 | -7,661.24 | 2,475.96 | 2,065.27 | 410.69 | 6.029 | | |
| 13,600.00 | 6,926.99 | 6,859.99 | 6,926.99 | 191.29 | 237.76 | -90.08 | -4,030.57 | -7,661.24 | 2,440.31 | 2,024.33 | 415.98 | 5.866 | | |
| 13,700.00 | 6,926.61 | 6,859.61 | 6,926.61 | 194.10 | 237.75 | -90.07 | -4,030.57 | -7,661.24 | 2,408.28 | 1,987.11 | 421.17 | 5.718 | | |
| 13,800.00 | 6,926.23 | 6,859.23 | 6,926.23 | 196.92 | 237.73 | -90.06 | -4,030.57 | -7,661.24 | 2,380.02 | 1,953.81 | 426.21 | 5.584 | | |
| 13,900.00 | 6,925.85 | 6,858.85 | 6,925.85 | 199.73 | 237.72 | -90.05 | -4,030.57 | -7,661.24 | 2,355.67 | 1,924.59 | 431.08 | 5.465 | | |
| 14,000.00 | 6,925.47 | 6,858.47 | 6,925.47 | 202.55 | 237.71 | -90.04 | -4,030.57 | -7,661.24 | 2,335.35 | 1,899.64 | 435.72 | 5.360 | | |
| 14,100.00 | 6,925.09 | 6,858.09 | 6,925.09 | 205.37 | 237.69 | -90.03 | -4,030.57 | -7,661.24 | 2,319.18 | 1,879.08 | 440.10 | 5.270 | | |
| 14,200.00 | 6,924.71 | 6,857.71 | 6,924.71 | 208.19 | 237.68 | -90.02 | -4,030.57 | -7,661.24 | 2,307.22 | 1,863.05 | 444.18 | 5.194 | | |
| 14,300.00 | 6,924.34 | 6,857.34 | 6,924.34 | 211.01 | 237.67 | -90.01 | -4,030.57 | -7,661.24 | 2,299.56 | 1,851.64 | 447.92 | 5.134 | | |
| 14,400.00 | 6,923.96 | 6,856.96 | 6,923.96 | 213.83 | 237.65 | -90.00 | -4,030.57 | -7,661.24 | 2,296.23 | 1,844.93 | 451.30 | 5.088 | | |
| 14,426.53 | 6,923.86 | 6,856.86 | 6,923.86 | 214.58 | 237.65 | -90.00 | -4,030.57 | -7,661.24 | 2,296.08 | 1,843.94 | 452.13 | 5.078 CC | | |
| 14,500.00 | 6,923.58 | 6,856.58 | 6,923.58 | 216.65 | 237.64 | -89.99 | -4,030.57 | -7,661.24 | 2,297.25 | 1,842.96 | 454.29 | 5.057 ES | | |
| 14,600.00 | 6,923.20 | 6,856.20 | 6,923.20 | 219.48 | 237.63 | -89.98 | -4,030.57 | -7,661.24 | 2,302.62 | 1,845.73 | 456.88 | 5.040 | | |
| 14,700.00 | 6,922.82 | 6,855.82 | 6,922.82 | 222.30 | 237.61 | -89.97 | -4,030.57 | -7,661.24 | 2,312.30 | 1,853.24 | 459.06 | 5.037 SF | | |
| 14,800.00 | 6,922.44 | 6,855.44 | 6,922.44 | 225.13 | 237.60 | -89.96 | -4,030.57 | -7,661.24 | 2,326.25 | 1,865.42 | 460.83 | 5.048 | | |
| 14,900.00 | 6,922.06 | 6,855.06 | 6,922.06 | 227.95 | 237.59 | -89.96 | -4,030.57 | -7,661.24 | 2,344.38 | 1,882.20 | 462.18 | 5.072 | | |
| 14,915.55 | 6,922.00 | 6,855.00 | 6,922.00 | 228.39 | 237.59 | -89.95 | -4,030.57 | -7,661.24 | 2,347.57 | 1,885.22 | 462.35 | 5.077 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 52.00 | 3.28 | 3.28 | -106.84 | -2,713.17 | -8,961.56 | 9,363.41 | | | | | |
| 100.00 | 100.00 | 48.00 | 100.00 | 3.28 | 3.39 | -106.84 | -2,713.17 | -8,961.56 | 9,363.27 | 9,356.60 | 6.67 | 1,403.779 | | |
| 200.00 | 200.00 | 148.00 | 200.00 | 3.34 | 4.74 | -106.84 | -2,713.17 | -8,961.56 | 9,363.27 | 9,355.19 | 8.08 | 1,159.318 | | |
| 300.00 | 299.98 | 247.98 | 299.98 | 3.44 | 7.65 | 67.80 | -2,713.17 | -8,961.56 | 9,362.61 | 9,351.52 | 11.09 | 844.262 | | |
| 400.00 | 399.84 | 347.84 | 399.84 | 3.59 | 10.90 | 67.86 | -2,713.17 | -8,961.56 | 9,360.63 | 9,346.14 | 14.49 | 645.941 | | |
| 500.00 | 499.45 | 447.45 | 499.45 | 3.79 | 14.26 | 67.97 | -2,713.17 | -8,961.56 | 9,357.34 | 9,339.30 | 18.04 | 518.572 | | |
| 600.00 | 598.70 | 546.70 | 598.70 | 4.03 | 17.65 | 68.13 | -2,713.17 | -8,961.56 | 9,352.76 | 9,331.08 | 21.68 | 431.459 | | |
| 700.00 | 697.47 | 645.47 | 697.47 | 4.31 | 21.04 | 68.32 | -2,713.17 | -8,961.56 | 9,346.89 | 9,321.53 | 25.36 | 368.594 | | |
| 800.00 | 795.62 | 743.62 | 795.62 | 4.64 | 24.44 | 68.56 | -2,713.17 | -8,961.56 | 9,339.77 | 9,310.70 | 29.07 | 321.279 | | |
| 900.00 | 893.06 | 841.06 | 893.06 | 5.00 | 27.81 | 68.85 | -2,713.17 | -8,961.56 | 9,331.41 | 9,298.61 | 32.80 | 284.474 | | |
| 1,000.00 | 989.78 | 937.78 | 989.78 | 5.39 | 31.17 | 69.07 | -2,713.17 | -8,961.56 | 9,322.04 | 9,285.50 | 36.55 | 255.072 | | |
| 1,100.00 | 1,086.42 | 1,034.42 | 1,086.42 | 5.81 | 34.52 | 69.21 | -2,713.17 | -8,961.56 | 9,312.61 | 9,272.30 | 40.32 | 230.992 | | |
| 1,200.00 | 1,183.06 | 1,131.06 | 1,183.06 | 6.25 | 37.88 | 69.35 | -2,713.17 | -8,961.56 | 9,303.24 | 9,259.13 | 44.11 | 210.927 | | |
| 1,300.00 | 1,279.69 | 1,227.69 | 1,279.69 | 6.71 | 41.24 | 69.50 | -2,713.17 | -8,961.56 | 9,293.93 | 9,246.01 | 47.91 | 193.968 | | |
| 1,400.00 | 1,376.33 | 1,324.33 | 1,376.33 | 7.17 | 44.61 | 69.64 | -2,713.17 | -8,961.56 | 9,284.68 | 9,232.94 | 51.74 | 179.460 | | |
| 1,500.00 | 1,472.97 | 1,420.97 | 1,472.97 | 7.65 | 47.97 | 69.79 | -2,713.17 | -8,961.56 | 9,275.49 | 9,219.92 | 55.57 | 166.914 | | |
| 1,600.00 | 1,569.61 | 1,517.61 | 1,569.61 | 8.13 | 51.34 | 69.93 | -2,713.17 | -8,961.56 | 9,266.37 | 9,206.95 | 59.41 | 155.964 | | |
| 1,700.00 | 1,666.24 | 1,614.24 | 1,666.24 | 8.62 | 54.71 | 70.08 | -2,713.17 | -8,961.56 | 9,257.31 | 9,194.04 | 63.26 | 146.326 | | |
| 1,800.00 | 1,762.88 | 1,710.88 | 1,762.88 | 9.12 | 58.07 | 70.22 | -2,713.17 | -8,961.56 | 9,248.31 | 9,181.18 | 67.12 | 137.782 | | |
| 1,900.00 | 1,859.52 | 1,807.52 | 1,859.52 | 9.62 | 61.44 | 70.37 | -2,713.17 | -8,961.56 | 9,239.37 | 9,168.38 | 70.99 | 130.157 | | |
| 2,000.00 | 1,956.16 | 1,904.16 | 1,956.16 | 10.13 | 64.81 | 70.51 | -2,713.17 | -8,961.56 | 9,230.50 | 9,155.64 | 74.85 | 123.313 | | |
| 2,100.00 | 2,052.79 | 2,000.79 | 2,052.79 | 10.64 | 68.18 | 70.66 | -2,713.17 | -8,961.56 | 9,221.69 | 9,142.96 | 78.73 | 117.135 | | |
| 2,200.00 | 2,149.43 | 2,102.57 | 2,149.43 | 11.15 | 71.73 | 70.80 | -2,713.17 | -8,961.56 | 9,212.94 | 9,130.16 | 82.78 | 111.291 | | |
| 2,300.00 | 2,246.07 | 2,205.93 | 2,246.07 | 11.66 | 75.34 | 70.95 | -2,713.17 | -8,961.56 | 9,204.26 | 9,117.36 | 86.90 | 105.922 | | |
| 2,400.00 | 2,342.71 | 2,309.29 | 2,342.71 | 12.18 | 78.94 | 71.10 | -2,713.17 | -8,961.56 | 9,195.64 | 9,104.62 | 91.01 | 101.036 | | |
| 2,500.00 | 2,439.34 | 2,387.34 | 2,439.34 | 12.70 | 81.66 | 71.25 | -2,713.17 | -8,961.56 | 9,187.08 | 9,092.83 | 94.25 | 97.476 | | |
| 2,600.00 | 2,535.98 | 2,483.98 | 2,535.98 | 13.22 | 85.03 | 71.39 | -2,713.17 | -8,961.56 | 9,178.59 | 9,080.45 | 98.14 | 93.529 | | |
| 2,700.00 | 2,632.62 | 2,580.62 | 2,632.62 | 13.75 | 88.40 | 71.54 | -2,713.17 | -8,961.56 | 9,170.16 | 9,068.13 | 102.03 | 89.881 | | |
| 2,800.00 | 2,729.26 | 2,677.26 | 2,729.26 | 14.27 | 91.78 | 71.69 | -2,713.17 | -8,961.56 | 9,161.80 | 9,055.88 | 105.92 | 86.500 | | |
| 2,900.00 | 2,825.89 | 2,773.89 | 2,825.89 | 14.80 | 95.15 | 71.84 | -2,713.17 | -8,961.56 | 9,153.50 | 9,043.69 | 109.81 | 83.358 | | |
| 3,000.00 | 2,922.53 | 2,870.53 | 2,922.53 | 15.32 | 98.52 | 71.98 | -2,713.17 | -8,961.56 | 9,145.26 | 9,031.56 | 113.70 | 80.431 | | |
| 3,100.00 | 3,019.17 | 2,967.17 | 3,019.17 | 15.85 | 101.89 | 72.13 | -2,713.17 | -8,961.56 | 9,137.09 | 9,019.50 | 117.60 | 77.698 | | |
| 3,200.00 | 3,115.81 | 3,063.81 | 3,115.81 | 16.38 | 105.26 | 72.28 | -2,713.17 | -8,961.56 | 9,128.99 | 9,007.50 | 121.49 | 75.139 | | |
| 3,300.00 | 3,212.44 | 3,160.44 | 3,212.44 | 16.91 | 108.64 | 72.43 | -2,713.17 | -8,961.56 | 9,120.95 | 8,995.56 | 125.39 | 72.739 | | |
| 3,400.00 | 3,309.08 | 3,257.08 | 3,309.08 | 17.44 | 112.01 | 72.58 | -2,713.17 | -8,961.56 | 9,112.98 | 8,983.69 | 129.29 | 70.484 | | |
| 3,500.00 | 3,405.72 | 3,353.72 | 3,405.72 | 17.97 | 115.38 | 72.73 | -2,713.17 | -8,961.56 | 9,105.07 | 8,971.88 | 133.19 | 68.361 | | |
| 3,600.00 | 3,502.36 | 3,450.36 | 3,502.36 | 18.50 | 118.75 | 72.88 | -2,713.17 | -8,961.56 | 9,097.23 | 8,960.14 | 137.09 | 66.359 | | |
| 3,700.00 | 3,598.99 | 3,546.99 | 3,598.99 | 19.03 | 122.12 | 73.03 | -2,713.17 | -8,961.56 | 9,089.45 | 8,948.46 | 140.99 | 64.468 | | |
| 3,800.00 | 3,695.63 | 3,643.63 | 3,695.63 | 19.57 | 125.50 | 73.18 | -2,713.17 | -8,961.56 | 9,081.74 | 8,936.85 | 144.89 | 62.678 | | |
| 3,900.00 | 3,792.27 | 3,740.27 | 3,792.27 | 20.10 | 128.87 | 73.33 | -2,713.17 | -8,961.56 | 9,074.10 | 8,925.30 | 148.80 | 60.983 | | |
| 4,000.00 | 3,888.91 | 3,836.91 | 3,888.91 | 20.63 | 132.24 | 73.48 | -2,713.17 | -8,961.56 | 9,066.52 | 8,913.82 | 152.70 | 59.374 | | |
| 4,100.00 | 3,985.54 | 3,933.54 | 3,985.54 | 21.17 | 135.61 | 73.63 | -2,713.17 | -8,961.56 | 9,059.01 | 8,902.41 | 156.61 | 57.846 | | |
| 4,200.00 | 4,082.18 | 4,030.18 | 4,082.18 | 21.70 | 138.99 | 73.78 | -2,713.17 | -8,961.56 | 9,051.57 | 8,891.06 | 160.51 | 56.392 | | |
| 4,300.00 | 4,178.82 | 4,126.82 | 4,178.82 | 22.24 | 142.36 | 73.94 | -2,713.17 | -8,961.56 | 9,044.19 | 8,879.78 | 164.42 | 55.008 | | |
| 4,400.00 | 4,275.46 | 4,223.46 | 4,275.46 | 22.77 | 145.73 | 74.09 | -2,713.17 | -8,961.56 | 9,036.89 | 8,868.56 | 168.32 | 53.688 | | |
| 4,500.00 | 4,372.09 | 4,320.09 | 4,372.09 | 23.31 | 149.11 | 74.24 | -2,713.17 | -8,961.56 | 9,029.64 | 8,857.42 | 172.23 | 52.428 | | |
| 4,600.00 | 4,468.73 | 4,416.73 | 4,468.73 | 23.84 | 152.48 | 74.39 | -2,713.17 | -8,961.56 | 9,022.47 | 8,846.33 | 176.14 | 51.225 | | |
| 4,700.00 | 4,565.37 | 4,513.37 | 4,565.37 | 24.38 | 155.85 | 74.55 | -2,713.17 | -8,961.56 | 9,015.36 | 8,835.32 | 180.04 | 50.073 | | |
| 4,800.00 | 4,662.01 | 4,610.01 | 4,662.01 | 24.91 | 159.22 | 74.70 | -2,713.17 | -8,961.56 | 9,008.32 | 8,824.37 | 183.95 | 48.971 | | |
| 4,900.00 | 4,758.64 | 4,706.64 | 4,758.64 | 25.45 | 162.60 | 74.85 | -2,713.17 | -8,961.56 | 9,001.35 | 8,813.49 | 187.86 | 47.915 | | |
| 5,000.00 | 4,855.28 | 4,803.28 | 4,855.28 | 25.99 | 165.97 | 75.00 | -2,713.17 | -8,961.56 | 8,994.45 | 8,802.68 | 191.77 | 46.903 | | |
| 5,100.00 | 4,951.92 | 4,900.08 | 4,951.92 | 26.53 | 169.35 | 75.16 | -2,713.17 | -8,961.56 | 8,987.62 | 8,791.93 | 195.68 | 45.930 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 1-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,003.44 | 5,048.56 | 27.06 | 172.96 | 75.31 | -2,713.17 | -8,961.56 | 8,980.85 | 8,781.02 | 199.83 | 44.943 | | |
| 5,300.00 | 5,145.19 | 5,106.81 | 5,145.19 | 27.60 | 176.56 | 75.46 | -2,713.17 | -8,961.56 | 8,974.15 | 8,770.18 | 203.97 | 43.997 | | |
| 5,400.00 | 5,241.83 | 5,189.83 | 5,241.83 | 28.14 | 179.46 | 75.62 | -2,713.17 | -8,961.56 | 8,967.52 | 8,760.12 | 207.41 | 43.236 | | |
| 5,500.00 | 5,338.47 | 5,286.47 | 5,338.47 | 28.67 | 182.83 | 75.77 | -2,713.17 | -8,961.56 | 8,960.96 | 8,749.65 | 211.32 | 42.405 | | |
| 5,600.00 | 5,435.11 | 5,383.11 | 5,435.11 | 29.21 | 186.21 | 75.93 | -2,713.17 | -8,961.56 | 8,954.47 | 8,739.24 | 215.23 | 41.605 | | |
| 5,700.00 | 5,531.74 | 5,479.74 | 5,531.74 | 29.75 | 189.58 | 76.08 | -2,713.17 | -8,961.56 | 8,948.05 | 8,728.91 | 219.14 | 40.833 | | |
| 5,800.00 | 5,628.38 | 5,576.38 | 5,628.38 | 30.29 | 192.95 | 76.24 | -2,713.17 | -8,961.56 | 8,941.70 | 8,718.65 | 223.05 | 40.088 | | |
| 5,900.00 | 5,725.02 | 5,673.02 | 5,725.02 | 30.83 | 196.33 | 76.39 | -2,713.17 | -8,961.56 | 8,935.41 | 8,708.45 | 226.96 | 39.370 | | |
| 6,000.00 | 5,821.66 | 5,769.66 | 5,821.66 | 31.37 | 199.70 | 76.55 | -2,713.17 | -8,961.56 | 8,929.20 | 8,698.33 | 230.87 | 38.676 | | |
| 6,100.00 | 5,918.29 | 5,866.29 | 5,918.29 | 31.90 | 203.07 | 76.70 | -2,713.17 | -8,961.56 | 8,923.06 | 8,688.27 | 234.79 | 38.005 | | |
| 6,200.00 | 6,014.93 | 5,962.93 | 6,014.93 | 32.44 | 206.45 | 76.86 | -2,713.17 | -8,961.56 | 8,916.98 | 8,678.28 | 238.70 | 37.357 | | |
| 6,300.00 | 6,111.57 | 6,059.57 | 6,111.57 | 32.98 | 209.82 | 77.01 | -2,713.17 | -8,961.56 | 8,910.98 | 8,668.37 | 242.61 | 36.729 | | |
| 6,400.00 | 6,208.21 | 6,156.21 | 6,208.21 | 33.52 | 213.19 | 77.17 | -2,713.17 | -8,961.56 | 8,905.05 | 8,658.52 | 246.53 | 36.122 | | |
| 6,500.00 | 6,304.84 | 6,252.84 | 6,304.84 | 34.06 | 216.57 | 77.33 | -2,713.17 | -8,961.56 | 8,899.18 | 8,648.75 | 250.44 | 35.534 | | |
| 6,600.00 | 6,401.37 | 6,349.37 | 6,401.37 | 34.60 | 219.94 | 60.72 | -2,713.17 | -8,961.56 | 8,893.23 | 8,638.99 | 254.35 | 34.957 | | |
| 6,700.00 | 6,496.25 | 6,444.25 | 6,496.25 | 35.12 | 223.25 | 38.14 | -2,713.17 | -8,961.56 | 8,887.38 | 8,629.28 | 258.26 | 34.380 | | |
| 6,800.00 | 6,587.15 | 6,535.15 | 6,587.15 | 35.59 | 226.42 | 25.43 | -2,713.17 | -8,961.56 | 8,881.52 | 8,619.61 | 262.17 | 33.803 | | |
| 6,900.00 | 6,671.83 | 6,619.83 | 6,671.83 | 36.03 | 229.38 | 17.81 | -2,713.17 | -8,961.56 | 8,875.65 | 8,610.00 | 266.08 | 33.226 | | |
| 7,000.00 | 6,748.21 | 6,703.79 | 6,748.21 | 36.41 | 232.31 | 12.55 | -2,713.17 | -8,961.56 | 8,869.78 | 8,600.49 | 270.00 | 32.649 | | |
| 7,100.00 | 6,814.41 | 6,762.41 | 6,814.41 | 36.76 | 234.35 | 8.20 | -2,713.17 | -8,961.56 | 8,863.91 | 8,591.07 | 273.92 | 32.072 | | |
| 7,200.00 | 6,868.79 | 6,816.79 | 6,868.79 | 37.07 | 236.25 | 3.60 | -2,713.17 | -8,961.56 | 8,858.04 | 8,581.65 | 277.84 | 31.495 | | |
| 7,300.00 | 6,910.01 | 6,858.01 | 6,910.01 | 37.39 | 237.69 | -3.07 | -2,713.17 | -8,961.56 | 8,852.17 | 8,572.23 | 281.76 | 30.918 | | |
| 7,400.00 | 6,937.07 | 6,885.07 | 6,937.07 | 37.76 | 238.64 | -17.56 | -2,713.17 | -8,961.56 | 8,846.30 | 8,562.81 | 285.68 | 30.341 | | |
| 7,500.00 | 6,949.29 | 6,902.71 | 6,949.29 | 38.27 | 239.25 | -65.93 | -2,713.17 | -8,961.56 | 8,840.43 | 8,553.39 | 289.60 | 29.764 | | |
| 7,600.00 | 6,949.75 | 6,902.25 | 6,949.75 | 39.02 | 239.24 | -91.82 | -2,713.17 | -8,961.56 | 8,834.56 | 8,543.97 | 293.52 | 29.187 | | |
| 7,700.00 | 6,949.37 | 6,902.63 | 6,949.37 | 40.05 | 239.25 | -91.79 | -2,713.17 | -8,961.56 | 8,828.69 | 8,534.55 | 297.44 | 28.610 | | |
| 7,800.00 | 6,948.99 | 6,903.01 | 6,948.99 | 41.35 | 239.26 | -91.77 | -2,713.17 | -8,961.56 | 8,822.82 | 8,525.13 | 301.36 | 28.033 | | |
| 7,900.00 | 6,948.61 | 6,903.39 | 6,948.61 | 42.86 | 239.27 | -91.75 | -2,713.17 | -8,961.56 | 8,816.95 | 8,515.71 | 305.28 | 27.456 | | |
| 8,000.00 | 6,948.23 | 6,903.77 | 6,948.23 | 44.53 | 239.29 | -91.73 | -2,713.17 | -8,961.56 | 8,811.08 | 8,506.29 | 309.20 | 26.879 | | |
| 8,100.00 | 6,947.85 | 6,904.15 | 6,947.85 | 46.34 | 239.30 | -91.70 | -2,713.17 | -8,961.56 | 8,805.21 | 8,496.87 | 313.12 | 26.302 | | |
| 8,200.00 | 6,947.47 | 6,904.53 | 6,947.47 | 48.26 | 239.31 | -91.68 | -2,713.17 | -8,961.56 | 8,799.34 | 8,487.45 | 317.04 | 25.725 | | |
| 8,300.00 | 6,947.09 | 6,904.91 | 6,947.09 | 50.28 | 239.33 | -91.66 | -2,713.17 | -8,961.56 | 8,793.47 | 8,478.03 | 320.96 | 25.148 | | |
| 8,400.00 | 6,946.72 | 6,905.28 | 6,946.72 | 52.39 | 239.34 | -91.64 | -2,713.17 | -8,961.56 | 8,787.60 | 8,468.61 | 324.88 | 24.571 | | |
| 8,500.00 | 6,946.34 | 6,905.66 | 6,946.34 | 54.56 | 239.35 | -91.62 | -2,713.17 | -8,961.56 | 8,781.73 | 8,459.19 | 328.80 | 23.994 | | |
| 8,600.00 | 6,945.96 | 6,906.04 | 6,945.96 | 56.80 | 239.37 | -91.59 | -2,713.17 | -8,961.56 | 8,775.86 | 8,449.77 | 332.72 | 23.417 | | |
| 8,700.00 | 6,945.58 | 6,906.42 | 6,945.58 | 59.10 | 239.38 | -91.57 | -2,713.17 | -8,961.56 | 8,769.99 | 8,440.35 | 336.64 | 22.840 | | |
| 8,800.00 | 6,945.20 | 6,906.80 | 6,945.20 | 61.44 | 239.39 | -91.55 | -2,713.17 | -8,961.56 | 8,764.12 | 8,430.93 | 340.56 | 22.263 | | |
| 8,900.00 | 6,944.82 | 6,907.18 | 6,944.82 | 63.83 | 239.41 | -91.53 | -2,713.17 | -8,961.56 | 8,758.25 | 8,421.51 | 344.48 | 21.686 | | |
| 9,000.00 | 6,944.44 | 6,907.56 | 6,944.44 | 66.25 | 239.42 | -91.50 | -2,713.17 | -8,961.56 | 8,752.38 | 8,412.09 | 348.40 | 21.109 | | |
| 9,100.00 | 6,944.06 | 6,907.94 | 6,944.06 | 68.71 | 239.43 | -91.48 | -2,713.17 | -8,961.56 | 8,746.51 | 8,402.67 | 352.32 | 20.532 | | |
| 9,200.00 | 6,943.68 | 6,908.32 | 6,943.68 | 71.20 | 239.45 | -91.46 | -2,713.17 | -8,961.56 | 8,740.64 | 8,393.25 | 356.24 | 19.955 | | |
| 9,300.00 | 6,943.30 | 6,908.70 | 6,943.30 | 73.72 | 239.46 | -91.44 | -2,713.17 | -8,961.56 | 8,734.77 | 8,383.83 | 360.16 | 19.378 | | |
| 9,400.00 | 6,942.92 | 6,909.08 | 6,942.92 | 76.26 | 239.47 | -91.41 | -2,713.17 | -8,961.56 | 8,728.90 | 8,374.41 | 364.08 | 18.801 | | |
| 9,500.00 | 6,942.54 | 6,909.46 | 6,942.54 | 78.82 | 239.49 | -91.39 | -2,713.17 | -8,961.56 | 8,723.03 | 8,364.99 | 368.00 | 18.224 | | |
| 9,600.00 | 6,942.16 | 6,909.84 | 6,942.16 | 81.40 | 239.50 | -91.37 | -2,713.17 | -8,961.56 | 8,717.16 | 8,355.57 | 371.92 | 17.647 | | |
| 9,700.00 | 6,941.78 | 6,889.78 | 6,941.78 | 84.00 | 238.80 | -91.35 | -2,713.17 | -8,961.56 | 8,711.29 | 8,346.15 | 375.84 | 17.070 | | |
| 9,800.00 | 6,941.40 | 6,889.40 | 6,941.40 | 86.62 | 238.79 | -91.32 | -2,713.17 | -8,961.56 | 8,705.42 | 8,336.73 | 379.76 | 16.493 | | |
| 9,900.00 | 6,941.03 | 6,889.03 | 6,941.03 | 89.25 | 238.77 | -91.30 | -2,713.17 | -8,961.56 | 8,699.55 | 8,327.31 | 383.68 | 15.916 | | |
| 10,000.00 | 6,940.65 | 6,888.65 | 6,940.65 | 91.90 | 238.76 | -91.28 | -2,713.17 | -8,961.56 | 8,693.68 | 8,317.89 | 387.60 | 15.339 | | |
| 10,100.00 | 6,940.27 | 6,888.27 | 6,940.27 | 94.56 | 238.75 | -91.26 | -2,713.17 | -8,961.56 | 8,687.81 | 8,308.47 | 391.52 | 14.762 | | |
| 10,200.00 | 6,939.89 | 6,887.89 | 6,939.89 | 97.23 | 238.73 | -91.24 | -2,713.17 | -8,961.56 | 8,681.94 | 8,299.05 | 395.44 | 14.185 | | |
| 10,300.00 | 6,939.51 | 6,887.51 | 6,939.51 | 99.91 | 238.72 | -91.21 | -2,713.17 | -8,961.56 | 8,676.07 | 8,289.63 | 399.36 | 13.608 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 1-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,887.13 | 6,939.13 | 102.60 | 238.71 | -91.19 | -2,713.17 | -8,961.56 | 5,406.79 | 5,129.42 | 277.37 | 19.493 | | |
| 10,500.00 | 6,938.75 | 6,886.75 | 6,938.75 | 105.30 | 238.69 | -91.17 | -2,713.17 | -8,961.56 | 5,308.45 | 5,030.81 | 277.64 | 19.120 | | |
| 10,600.00 | 6,938.37 | 6,886.37 | 6,938.37 | 108.00 | 238.68 | -91.15 | -2,713.17 | -8,961.56 | 5,210.17 | 4,932.24 | 277.93 | 18.746 | | |
| 10,700.00 | 6,937.99 | 6,885.99 | 6,937.99 | 110.72 | 238.67 | -91.12 | -2,713.17 | -8,961.56 | 5,111.96 | 4,833.70 | 278.26 | 18.371 | | |
| 10,800.00 | 6,937.61 | 6,885.61 | 6,937.61 | 113.44 | 238.65 | -91.10 | -2,713.17 | -8,961.56 | 5,013.81 | 4,735.20 | 278.61 | 17.996 | | |
| 10,900.00 | 6,937.23 | 6,885.23 | 6,937.23 | 116.17 | 238.64 | -91.08 | -2,713.17 | -8,961.56 | 4,915.75 | 4,636.75 | 279.00 | 17.619 | | |
| 11,000.00 | 6,936.85 | 6,884.85 | 6,936.85 | 118.90 | 238.63 | -91.06 | -2,713.17 | -8,961.56 | 4,817.76 | 4,538.33 | 279.42 | 17.242 | | |
| 11,100.00 | 6,936.47 | 6,884.47 | 6,936.47 | 121.64 | 238.61 | -91.03 | -2,713.17 | -8,961.56 | 4,719.85 | 4,439.96 | 279.89 | 16.863 | | |
| 11,200.00 | 6,936.09 | 6,884.09 | 6,936.09 | 124.39 | 238.60 | -91.01 | -2,713.17 | -8,961.56 | 4,622.04 | 4,341.64 | 280.40 | 16.484 | | |
| 11,300.00 | 6,935.71 | 6,883.71 | 6,935.71 | 127.14 | 238.59 | -90.99 | -2,713.17 | -8,961.56 | 4,524.32 | 4,243.37 | 280.95 | 16.104 | | |
| 11,400.00 | 6,935.34 | 6,883.34 | 6,935.34 | 129.90 | 238.57 | -90.97 | -2,713.17 | -8,961.56 | 4,426.70 | 4,145.15 | 281.55 | 15.722 | | |
| 11,500.00 | 6,934.96 | 6,882.96 | 6,934.96 | 132.66 | 238.56 | -90.94 | -2,713.17 | -8,961.56 | 4,329.19 | 4,046.98 | 282.21 | 15.340 | | |
| 11,600.00 | 6,934.58 | 6,882.58 | 6,934.58 | 135.42 | 238.55 | -90.92 | -2,713.17 | -8,961.56 | 4,231.80 | 3,948.88 | 282.92 | 14.958 | | |
| 11,700.00 | 6,934.20 | 6,882.20 | 6,934.20 | 138.19 | 238.54 | -90.90 | -2,713.17 | -8,961.56 | 4,134.53 | 3,850.84 | 283.70 | 14.574 | | |
| 11,800.00 | 6,933.82 | 6,881.82 | 6,933.82 | 140.96 | 238.52 | -90.88 | -2,713.17 | -8,961.56 | 4,037.40 | 3,752.86 | 284.54 | 14.189 | | |
| 11,900.00 | 6,933.44 | 6,881.44 | 6,933.44 | 143.74 | 238.51 | -90.85 | -2,713.17 | -8,961.56 | 3,940.41 | 3,654.96 | 285.45 | 13.804 | | |
| 12,000.00 | 6,933.06 | 6,881.06 | 6,933.06 | 146.51 | 238.50 | -90.83 | -2,713.17 | -8,961.56 | 3,843.57 | 3,557.13 | 286.44 | 13.418 | | |
| 12,100.00 | 6,932.68 | 6,880.68 | 6,932.68 | 149.30 | 238.48 | -90.81 | -2,713.17 | -8,961.56 | 3,746.90 | 3,459.38 | 287.51 | 13.032 | | |
| 12,200.00 | 6,932.30 | 6,880.30 | 6,932.30 | 152.08 | 238.47 | -90.79 | -2,713.17 | -8,961.56 | 3,650.41 | 3,361.73 | 288.68 | 12.645 | | |
| 12,300.00 | 6,931.92 | 6,879.92 | 6,931.92 | 154.87 | 238.46 | -90.77 | -2,713.17 | -8,961.56 | 3,554.11 | 3,264.17 | 289.94 | 12.258 | | |
| 12,400.00 | 6,931.54 | 6,879.54 | 6,931.54 | 157.66 | 238.44 | -90.74 | -2,713.17 | -8,961.56 | 3,458.02 | 3,166.72 | 291.30 | 11.871 | | |
| 12,500.00 | 6,931.16 | 6,879.16 | 6,931.16 | 160.45 | 238.43 | -90.72 | -2,713.17 | -8,961.56 | 3,362.16 | 3,069.38 | 292.78 | 11.483 | | |
| 12,600.00 | 6,930.78 | 6,878.78 | 6,930.78 | 163.24 | 238.42 | -90.70 | -2,713.17 | -8,961.56 | 3,266.55 | 2,972.16 | 294.39 | 11.096 | | |
| 12,700.00 | 6,930.40 | 6,878.40 | 6,930.40 | 166.04 | 238.40 | -90.68 | -2,713.17 | -8,961.56 | 3,171.21 | 2,875.08 | 296.13 | 10.709 | | |
| 12,800.00 | 6,930.03 | 6,878.03 | 6,930.03 | 168.84 | 238.39 | -90.65 | -2,713.17 | -8,961.56 | 3,076.16 | 2,778.15 | 298.01 | 10.322 | | |
| 12,900.00 | 6,929.65 | 6,877.65 | 6,929.65 | 171.64 | 238.38 | -90.63 | -2,713.17 | -8,961.56 | 2,981.44 | 2,681.39 | 300.05 | 9.936 | | |
| 13,000.00 | 6,929.27 | 6,877.27 | 6,929.27 | 174.44 | 238.36 | -90.61 | -2,713.17 | -8,961.56 | 2,887.08 | 2,584.81 | 302.26 | 9.552 | | |
| 13,100.00 | 6,928.89 | 6,876.89 | 6,928.89 | 177.24 | 238.35 | -90.59 | -2,713.17 | -8,961.56 | 2,793.11 | 2,488.44 | 304.66 | 9.168 | | |
| 13,200.00 | 6,928.51 | 6,876.51 | 6,928.51 | 180.05 | 238.34 | -90.56 | -2,713.17 | -8,961.56 | 2,699.57 | 2,392.30 | 307.27 | 8.786 | | |
| 13,300.00 | 6,928.13 | 6,876.13 | 6,928.13 | 182.86 | 238.32 | -90.54 | -2,713.17 | -8,961.56 | 2,606.51 | 2,296.41 | 310.10 | 8.405 | | |
| 13,400.00 | 6,927.75 | 6,875.75 | 6,927.75 | 185.67 | 238.31 | -90.52 | -2,713.17 | -8,961.56 | 2,513.98 | 2,200.81 | 313.17 | 8.028 | | |
| 13,500.00 | 6,927.37 | 6,875.37 | 6,927.37 | 188.48 | 238.30 | -90.50 | -2,713.17 | -8,961.56 | 2,422.05 | 2,105.54 | 316.51 | 7.652 | | |
| 13,600.00 | 6,926.99 | 6,874.99 | 6,926.99 | 191.29 | 238.28 | -90.47 | -2,713.17 | -8,961.56 | 2,330.78 | 2,010.63 | 320.14 | 7.280 | | |
| 13,700.00 | 6,926.61 | 6,874.61 | 6,926.61 | 194.10 | 238.27 | -90.45 | -2,713.17 | -8,961.56 | 2,240.26 | 1,916.16 | 324.10 | 6.912 | | |
| 13,800.00 | 6,926.23 | 6,874.23 | 6,926.23 | 196.92 | 238.26 | -90.43 | -2,713.17 | -8,961.56 | 2,150.57 | 1,822.16 | 328.41 | 6.548 | | |
| 13,900.00 | 6,925.85 | 6,873.85 | 6,925.85 | 199.73 | 238.24 | -90.41 | -2,713.17 | -8,961.56 | 2,061.84 | 1,728.73 | 333.10 | 6.190 | | |
| 14,000.00 | 6,925.47 | 6,873.47 | 6,925.47 | 202.55 | 238.23 | -90.38 | -2,713.17 | -8,961.56 | 1,974.18 | 1,635.95 | 338.23 | 5.837 | | |
| 14,100.00 | 6,925.09 | 6,873.09 | 6,925.09 | 205.37 | 238.22 | -90.36 | -2,713.17 | -8,961.56 | 1,887.75 | 1,543.93 | 343.82 | 5.491 | | |
| 14,200.00 | 6,924.71 | 6,872.71 | 6,924.71 | 208.19 | 238.20 | -90.34 | -2,713.17 | -8,961.56 | 1,802.73 | 1,452.81 | 349.92 | 5.152 | | |
| 14,300.00 | 6,924.34 | 6,872.34 | 6,924.34 | 211.01 | 238.19 | -90.32 | -2,713.17 | -8,961.56 | 1,719.31 | 1,362.74 | 356.57 | 4.822 | | |
| 14,400.00 | 6,923.96 | 6,871.96 | 6,923.96 | 213.83 | 238.18 | -90.30 | -2,713.17 | -8,961.56 | 1,637.76 | 1,273.93 | 363.83 | 4.501 | | |
| 14,500.00 | 6,923.58 | 6,871.58 | 6,923.58 | 216.65 | 238.16 | -90.27 | -2,713.17 | -8,961.56 | 1,558.36 | 1,186.63 | 371.72 | 4.192 | | |
| 14,600.00 | 6,923.20 | 6,871.20 | 6,923.20 | 219.48 | 238.15 | -90.25 | -2,713.17 | -8,961.56 | 1,481.45 | 1,101.15 | 380.29 | 3.896 | | |
| 14,700.00 | 6,922.82 | 6,870.82 | 6,922.82 | 222.30 | 238.14 | -90.23 | -2,713.17 | -8,961.56 | 1,407.44 | 1,017.89 | 389.56 | 3.613 | | |
| 14,800.00 | 6,922.44 | 6,870.44 | 6,922.44 | 225.13 | 238.12 | -90.21 | -2,713.17 | -8,961.56 | 1,336.83 | 937.32 | 399.51 | 3.346 | | |
| 14,900.00 | 6,922.06 | 6,870.06 | 6,922.06 | 227.95 | 238.11 | -90.18 | -2,713.17 | -8,961.56 | 1,270.17 | 860.06 | 410.11 | 3.097 | | |
| 14,915.55 | 6,922.00 | 6,870.00 | 6,922.00 | 228.39 | 238.11 | -90.18 | -2,713.17 | -8,961.56 | 1,260.20 | 848.39 | 411.81 | 3.060 CC, ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-23-18(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 121-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 35.00 | 3.28 | 3.28 | -106.59 | -2,680.01 | -8,993.81 | 9,384.69 | | | | | |
| 100.00 | 100.00 | 29.52 | 64.52 | 3.28 | 3.28 | -106.59 | -2,680.08 | -8,993.85 | 9,384.75 | 9,378.18 | 6.57 | 1,429.442 | | |
| 200.00 | 200.00 | 74.94 | 109.94 | 3.34 | 3.28 | -106.60 | -2,680.43 | -8,994.06 | 9,385.41 | 9,378.79 | 6.62 | 1,417.580 | | |
| 300.00 | 299.98 | 121.00 | 155.99 | 3.44 | 3.29 | 68.01 | -2,681.10 | -8,994.47 | 9,386.01 | 9,379.28 | 6.73 | 1,394.971 | | |
| 400.00 | 399.84 | 165.57 | 200.55 | 3.59 | 3.31 | 68.03 | -2,681.87 | -8,995.09 | 9,385.88 | 9,378.99 | 6.90 | 1,360.644 | | |
| 500.00 | 499.45 | 208.00 | 242.97 | 3.79 | 3.34 | 68.06 | -2,682.55 | -8,995.95 | 9,385.04 | 9,377.91 | 7.13 | 1,317.006 | | |
| 600.00 | 598.70 | 208.00 | 242.97 | 4.03 | 3.34 | 68.08 | -2,682.55 | -8,995.95 | 9,383.74 | 9,376.37 | 7.37 | 1,273.008 | | |
| 700.00 | 697.47 | 256.80 | 291.74 | 4.31 | 3.39 | 68.16 | -2,683.16 | -8,997.55 | 9,381.67 | 9,373.97 | 7.70 | 1,218.073 | | |
| 800.00 | 795.62 | 300.00 | 334.88 | 4.64 | 3.44 | 68.26 | -2,683.44 | -8,999.74 | 9,379.35 | 9,371.28 | 8.08 | 1,161.237 | | |
| 900.00 | 893.06 | 300.00 | 334.88 | 5.00 | 3.44 | 68.31 | -2,683.44 | -8,999.74 | 9,376.39 | 9,367.95 | 8.44 | 1,111.064 | | |
| 1,000.00 | 989.78 | 300.00 | 334.88 | 5.39 | 3.44 | 68.34 | -2,683.44 | -8,999.74 | 9,373.40 | 9,364.57 | 8.83 | 1,061.107 | | |
| 1,100.00 | 1,086.42 | 351.75 | 386.51 | 5.81 | 3.52 | 68.42 | -2,683.38 | -9,003.33 | 9,370.77 | 9,361.45 | 9.32 | 1,005.086 | | |
| 1,200.00 | 1,183.06 | 391.00 | 425.60 | 6.25 | 3.59 | 68.48 | -2,682.97 | -9,006.75 | 9,369.17 | 9,359.35 | 9.82 | 953.824 | | |
| 1,300.00 | 1,279.69 | 391.00 | 425.60 | 6.71 | 3.59 | 68.48 | -2,682.97 | -9,006.75 | 9,368.31 | 9,358.04 | 10.28 | 911.706 | | |
| 1,330.44 | 1,309.11 | 391.00 | 425.60 | 6.85 | 3.59 | 68.48 | -2,682.97 | -9,006.75 | 9,368.27 | 9,357.85 | 10.42 | 899.396 | | |
| 1,400.00 | 1,376.33 | 424.10 | 458.52 | 7.17 | 3.65 | 68.54 | -2,682.37 | -9,010.10 | 9,368.29 | 9,357.49 | 10.80 | 867.534 | | |
| 1,500.00 | 1,472.97 | 448.37 | 482.64 | 7.65 | 3.70 | 68.58 | -2,681.77 | -9,012.82 | 9,369.11 | 9,357.79 | 11.32 | 827.741 | | |
| 1,600.00 | 1,569.61 | 481.00 | 515.00 | 8.13 | 3.78 | 68.64 | -2,680.75 | -9,016.83 | 9,370.76 | 9,358.89 | 11.87 | 789.705 | | |
| 1,700.00 | 1,666.24 | 481.00 | 515.00 | 8.62 | 3.78 | 68.64 | -2,680.75 | -9,016.83 | 9,373.25 | 9,360.89 | 12.35 | 758.699 | | |
| 1,800.00 | 1,762.88 | 524.14 | 557.71 | 9.12 | 3.89 | 68.73 | -2,679.13 | -9,022.71 | 9,376.44 | 9,363.50 | 12.94 | 724.418 | | |
| 1,900.00 | 1,859.52 | 572.00 | 604.97 | 9.62 | 4.02 | 68.82 | -2,677.05 | -9,029.93 | 9,380.59 | 9,367.03 | 13.56 | 692.034 | | |
| 2,000.00 | 1,956.16 | 572.00 | 604.97 | 10.13 | 4.02 | 68.82 | -2,677.05 | -9,029.93 | 9,385.36 | 9,371.30 | 14.05 | 667.770 | | |
| 2,100.00 | 2,052.79 | 572.00 | 604.97 | 10.64 | 4.02 | 68.82 | -2,677.05 | -9,029.93 | 9,391.18 | 9,376.63 | 14.56 | 645.140 | | |
| 2,200.00 | 2,149.43 | 618.01 | 650.28 | 11.15 | 4.17 | 68.91 | -2,674.86 | -9,037.62 | 9,397.57 | 9,382.39 | 15.18 | 618.873 | | |
| 2,300.00 | 2,246.07 | 639.21 | 671.11 | 11.66 | 4.25 | 68.95 | -2,673.82 | -9,041.44 | 9,404.95 | 9,389.20 | 15.75 | 597.201 | | |
| 2,400.00 | 2,342.71 | 693.00 | 723.80 | 12.18 | 4.44 | 69.06 | -2,671.06 | -9,051.90 | 9,413.43 | 9,397.02 | 16.41 | 573.578 | | |
| 2,500.00 | 2,439.34 | 693.00 | 723.80 | 12.70 | 4.44 | 69.06 | -2,671.06 | -9,051.90 | 9,422.28 | 9,405.36 | 16.92 | 556.980 | | |
| 2,600.00 | 2,535.98 | 693.00 | 723.80 | 13.22 | 4.44 | 69.06 | -2,671.06 | -9,051.90 | 9,432.18 | 9,414.76 | 17.42 | 541.412 | | |
| 2,700.00 | 2,632.62 | 728.77 | 758.73 | 13.75 | 4.58 | 69.14 | -2,669.27 | -9,059.39 | 9,442.87 | 9,424.83 | 18.04 | 523.445 | | |
| 2,800.00 | 2,729.26 | 761.00 | 790.15 | 14.27 | 4.72 | 69.20 | -2,667.83 | -9,066.43 | 9,454.40 | 9,435.75 | 18.65 | 506.955 | | |
| 2,900.00 | 2,825.89 | 761.00 | 790.15 | 14.80 | 4.72 | 69.20 | -2,667.83 | -9,066.43 | 9,466.77 | 9,447.61 | 19.15 | 494.325 | | |
| 3,000.00 | 2,922.53 | 817.84 | 845.39 | 15.32 | 4.98 | 69.32 | -2,664.94 | -9,079.48 | 9,479.69 | 9,459.83 | 19.86 | 477.341 | | |
| 3,100.00 | 3,019.17 | 855.00 | 881.38 | 15.85 | 5.16 | 69.40 | -2,662.55 | -9,088.44 | 9,493.41 | 9,472.93 | 20.49 | 463.355 | | |
| 3,200.00 | 3,115.81 | 855.00 | 881.38 | 16.38 | 5.16 | 69.40 | -2,662.55 | -9,088.44 | 9,507.96 | 9,486.98 | 20.98 | 453.091 | | |
| 3,300.00 | 3,212.44 | 896.25 | 921.18 | 16.91 | 5.38 | 69.50 | -2,659.64 | -9,098.87 | 9,523.17 | 9,501.53 | 21.64 | 440.120 | | |
| 3,400.00 | 3,309.08 | 949.00 | 971.84 | 17.44 | 5.67 | 69.61 | -2,655.80 | -9,113.05 | 9,539.48 | 9,517.13 | 22.35 | 426.819 | | |
| 3,500.00 | 3,405.72 | 949.00 | 971.84 | 17.97 | 5.67 | 69.61 | -2,655.80 | -9,113.05 | 9,556.19 | 9,533.35 | 22.84 | 418.412 | | |
| 3,600.00 | 3,502.36 | 975.98 | 997.66 | 18.50 | 5.84 | 69.68 | -2,653.71 | -9,120.59 | 9,573.85 | 9,550.41 | 23.44 | 408.401 | | |
| 3,700.00 | 3,598.99 | 1,022.23 | 1,041.81 | 19.03 | 6.12 | 69.78 | -2,649.69 | -9,133.76 | 9,592.12 | 9,567.98 | 24.13 | 397.475 | | |
| 3,800.00 | 3,695.63 | 1,044.00 | 1,062.55 | 19.57 | 6.25 | 69.84 | -2,647.60 | -9,140.06 | 9,611.01 | 9,586.30 | 24.71 | 388.902 | | |
| 3,900.00 | 3,792.27 | 1,079.40 | 1,096.17 | 20.10 | 6.49 | 69.92 | -2,644.05 | -9,150.56 | 9,630.61 | 9,605.25 | 25.36 | 379.756 | | |
| 4,000.00 | 3,888.91 | 1,102.45 | 1,117.99 | 20.63 | 6.65 | 69.98 | -2,641.69 | -9,157.60 | 9,651.02 | 9,625.08 | 25.95 | 371.958 | | |
| 4,100.00 | 3,985.54 | 1,139.00 | 1,152.47 | 21.17 | 6.90 | 70.07 | -2,637.85 | -9,169.09 | 9,672.25 | 9,645.65 | 26.60 | 363.631 | | |
| 4,200.00 | 4,082.18 | 1,139.00 | 1,152.47 | 21.70 | 6.90 | 70.07 | -2,637.85 | -9,169.09 | 9,694.19 | 9,667.13 | 27.07 | 358.171 | | |
| 4,300.00 | 4,178.82 | 1,172.14 | 1,183.60 | 22.24 | 7.15 | 70.15 | -2,634.20 | -9,179.85 | 9,716.90 | 9,689.20 | 27.70 | 350.751 | | |
| 4,400.00 | 4,275.46 | 1,195.51 | 1,205.47 | 22.77 | 7.32 | 70.21 | -2,631.47 | -9,187.64 | 9,740.39 | 9,712.10 | 28.29 | 344.340 | | |
| 4,500.00 | 4,372.09 | 1,234.00 | 1,241.31 | 23.31 | 7.62 | 70.31 | -2,626.69 | -9,200.83 | 9,764.68 | 9,735.73 | 28.95 | 337.279 | | |
| 4,600.00 | 4,468.73 | 1,234.00 | 1,241.31 | 23.84 | 7.62 | 70.31 | -2,626.69 | -9,200.83 | 9,789.65 | 9,760.24 | 29.40 | 332.954 | | |
| 4,700.00 | 4,565.37 | 1,234.00 | 1,241.31 | 24.38 | 7.62 | 70.31 | -2,626.69 | -9,200.83 | 9,815.57 | 9,785.72 | 29.85 | 328.839 | | |
| 4,800.00 | 4,662.01 | 1,283.56 | 1,287.16 | 24.91 | 8.03 | 70.44 | -2,620.21 | -9,218.48 | 9,841.93 | 9,811.35 | 30.58 | 321.864 | | |
| 4,900.00 | 4,758.64 | 1,329.00 | 1,328.91 | 25.45 | 8.42 | 70.56 | -2,614.06 | -9,235.33 | 9,869.33 | 9,838.05 | 31.28 | 315.475 | | |
| 5,000.00 | 4,855.28 | 1,329.00 | 1,328.91 | 25.99 | 8.42 | 70.56 | -2,614.06 | -9,235.33 | 9,897.25 | 9,865.53 | 31.72 | 312.037 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-23-18(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 121-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 1,329.00 | 1,328.91 | 26.53 | 8.42 | 70.56 | -2,614.06 | -9,235.33 | 9,926.09 | 9,893.94 | 32.15 | 308.767 | | |
| 5,200.00 | 5,048.56 | 1,368.65 | 1,365.11 | 27.06 | 8.78 | 70.67 | -2,608.49 | -9,250.53 | 9,955.54 | 9,922.72 | 32.82 | 303.343 | | |
| 5,300.00 | 5,145.19 | 1,390.08 | 1,384.57 | 27.60 | 8.98 | 70.73 | -2,605.38 | -9,258.93 | 9,985.79 | 9,952.41 | 33.37 | 299.200 | | |
| 7,600.00 | 6,949.75 | 3,358.34 | 3,169.57 | 39.02 | 29.58 | -9.41 | -2,369.62 | -10,053.17 | 9,973.48 | 9,918.83 | 54.64 | 182.521 | | |
| 7,700.00 | 6,949.37 | 3,374.73 | 3,184.58 | 40.05 | 29.75 | -9.42 | -2,367.72 | -10,059.49 | 9,881.05 | 9,826.26 | 54.79 | 180.350 | | |
| 7,800.00 | 6,948.99 | 3,414.00 | 3,220.47 | 41.35 | 30.15 | -9.44 | -2,363.16 | -10,074.77 | 9,788.76 | 9,733.66 | 55.10 | 177.649 | | |
| 7,900.00 | 6,948.61 | 3,414.00 | 3,220.47 | 42.86 | 30.15 | -9.44 | -2,363.16 | -10,074.77 | 9,696.44 | 9,641.30 | 55.14 | 175.842 | | |
| 8,000.00 | 6,948.23 | 3,433.01 | 3,237.82 | 44.53 | 30.35 | -9.45 | -2,360.97 | -10,082.22 | 9,604.25 | 9,548.93 | 55.32 | 173.597 | | |
| 8,100.00 | 6,947.85 | 3,462.45 | 3,264.70 | 46.34 | 30.66 | -9.47 | -2,357.65 | -10,093.77 | 9,512.11 | 9,456.53 | 55.59 | 171.122 | | |
| 8,200.00 | 6,947.47 | 3,492.03 | 3,291.70 | 48.26 | 30.97 | -9.49 | -2,354.41 | -10,105.41 | 9,420.01 | 9,364.15 | 55.86 | 168.650 | | |
| 8,300.00 | 6,947.09 | 3,529.33 | 3,325.74 | 50.28 | 31.36 | -9.51 | -2,350.38 | -10,120.10 | 9,327.94 | 9,271.75 | 56.18 | 166.022 | | |
| 8,400.00 | 6,946.72 | 3,576.67 | 3,368.92 | 52.39 | 31.86 | -9.54 | -2,344.99 | -10,138.73 | 9,235.84 | 9,179.25 | 56.59 | 163.205 | | |
| 8,500.00 | 6,946.34 | 3,615.79 | 3,404.58 | 54.56 | 32.27 | -9.56 | -2,340.26 | -10,154.11 | 9,143.72 | 9,086.78 | 56.94 | 160.574 | | |
| 8,600.00 | 6,945.96 | 3,644.82 | 3,431.03 | 56.80 | 32.58 | -9.57 | -2,336.74 | -10,165.54 | 9,051.63 | 8,994.39 | 57.23 | 158.151 | | |
| 8,700.00 | 6,945.58 | 3,644.14 | 3,613.59 | 59.10 | 34.64 | -9.69 | -2,313.74 | -10,242.15 | 8,958.88 | 8,900.19 | 58.69 | 152.657 | | |
| 8,800.00 | 6,945.20 | 3,661.59 | 3,629.61 | 61.44 | 34.81 | -9.71 | -2,311.68 | -10,248.76 | 8,866.16 | 8,807.26 | 58.90 | 150.527 | | |
| 8,900.00 | 6,944.82 | 3,687.00 | 3,652.90 | 63.83 | 35.07 | -9.72 | -2,308.61 | -10,258.45 | 8,773.54 | 8,714.37 | 59.17 | 148.266 | | |
| 9,000.00 | 6,944.44 | 3,687.00 | 3,652.90 | 66.25 | 35.07 | -9.72 | -2,308.61 | -10,258.45 | 8,681.01 | 8,621.72 | 59.29 | 146.425 | | |
| 9,100.00 | 6,944.06 | 3,687.00 | 3,652.90 | 68.71 | 35.07 | -9.72 | -2,308.61 | -10,258.45 | 8,588.64 | 8,529.24 | 59.41 | 144.573 | | |
| 9,200.00 | 6,943.68 | 3,924.01 | 3,686.74 | 71.20 | 35.46 | -9.74 | -2,304.12 | -10,272.74 | 8,496.24 | 8,436.46 | 59.78 | 142.102 | | |
| 9,300.00 | 6,943.30 | 3,938.79 | 3,700.23 | 73.72 | 35.62 | -9.75 | -2,302.35 | -10,278.51 | 8,404.02 | 8,344.00 | 60.02 | 140.031 | | |
| 9,400.00 | 6,942.92 | 3,953.77 | 3,713.88 | 76.26 | 35.77 | -9.76 | -2,300.57 | -10,284.40 | 8,311.91 | 8,251.65 | 60.26 | 137.938 | | |
| 9,500.00 | 6,942.54 | 3,982.00 | 3,739.58 | 78.82 | 36.07 | -9.78 | -2,297.24 | -10,295.61 | 8,219.94 | 8,159.34 | 60.59 | 135.654 | | |
| 9,600.00 | 6,942.16 | 3,982.00 | 3,739.58 | 81.40 | 36.07 | -9.78 | -2,297.24 | -10,295.61 | 8,128.03 | 8,067.27 | 60.76 | 133.778 | | |
| 9,700.00 | 6,941.78 | 4,009.71 | 3,764.76 | 84.00 | 36.37 | -9.80 | -2,293.98 | -10,306.71 | 8,036.23 | 7,975.13 | 61.11 | 131.510 | | |
| 9,800.00 | 6,941.40 | 4,034.02 | 3,786.83 | 86.62 | 36.63 | -9.81 | -2,291.09 | -10,316.50 | 7,944.52 | 7,883.08 | 61.44 | 129.300 | | |
| 9,900.00 | 6,941.03 | 4,058.55 | 3,809.07 | 89.25 | 36.90 | -9.83 | -2,288.15 | -10,326.41 | 7,852.88 | 7,791.10 | 61.79 | 127.097 | | |
| 10,000.00 | 6,940.65 | 4,076.00 | 3,824.88 | 91.90 | 37.09 | -9.84 | -2,286.04 | -10,333.49 | 7,761.33 | 7,699.24 | 62.09 | 124.991 | | |
| 10,100.00 | 6,940.27 | 7,196.00 | 6,815.82 | 94.56 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 7,665.17 | 7,591.10 | 74.07 | 103.482 | | |
| 10,200.00 | 6,939.89 | 7,196.00 | 6,815.82 | 97.23 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 7,565.29 | 7,491.18 | 74.11 | 102.085 | | |
| 10,300.00 | 6,939.51 | 7,196.00 | 6,815.82 | 99.91 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 7,465.40 | 7,391.26 | 74.14 | 100.687 | | |
| 10,400.00 | 6,939.13 | 7,196.00 | 6,815.82 | 102.60 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 7,365.53 | 7,291.34 | 74.18 | 99.287 | | |
| 10,500.00 | 6,938.75 | 7,196.00 | 6,815.82 | 105.30 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 7,265.65 | 7,191.42 | 74.23 | 97.886 | | |
| 10,600.00 | 6,938.37 | 7,196.00 | 6,815.82 | 108.00 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 7,165.78 | 7,091.51 | 74.27 | 96.483 | | |
| 10,700.00 | 6,937.99 | 7,196.00 | 6,815.82 | 110.72 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 7,065.91 | 6,991.59 | 74.32 | 95.079 | | |
| 10,800.00 | 6,937.61 | 7,196.00 | 6,815.82 | 113.44 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,966.04 | 6,891.68 | 74.36 | 93.674 | | |
| 10,900.00 | 6,937.23 | 7,196.00 | 6,815.82 | 116.17 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,866.18 | 6,791.77 | 74.42 | 92.267 | | |
| 11,000.00 | 6,936.85 | 7,196.00 | 6,815.82 | 118.90 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,766.33 | 6,691.85 | 74.47 | 90.860 | | |
| 11,100.00 | 6,936.47 | 7,196.00 | 6,815.82 | 121.64 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,666.47 | 6,591.95 | 74.53 | 89.450 | | |
| 11,200.00 | 6,936.09 | 7,196.00 | 6,815.82 | 124.39 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,566.62 | 6,492.04 | 74.59 | 88.040 | | |
| 11,300.00 | 6,935.71 | 7,196.00 | 6,815.82 | 127.14 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,466.78 | 6,392.13 | 74.65 | 86.628 | | |
| 11,400.00 | 6,935.34 | 7,196.00 | 6,815.82 | 129.90 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,366.94 | 6,292.23 | 74.72 | 85.214 | | |
| 11,500.00 | 6,934.96 | 7,196.00 | 6,815.82 | 132.66 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,267.11 | 6,192.32 | 74.79 | 83.800 | | |
| 11,600.00 | 6,934.58 | 7,196.00 | 6,815.82 | 135.42 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,167.28 | 6,092.42 | 74.86 | 82.384 | | |
| 11,700.00 | 6,934.20 | 7,196.00 | 6,815.82 | 138.19 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 6,067.46 | 5,992.52 | 74.94 | 80.966 | | |
| 11,800.00 | 6,933.82 | 7,196.00 | 6,815.82 | 140.96 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,967.64 | 5,892.62 | 75.02 | 79.547 | | |
| 11,900.00 | 6,933.44 | 7,196.00 | 6,815.82 | 143.74 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,867.83 | 5,792.72 | 75.11 | 78.126 | | |
| 12,000.00 | 6,933.06 | 7,196.00 | 6,815.82 | 146.51 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,768.03 | 5,692.83 | 75.20 | 76.704 | | |
| 12,100.00 | 6,932.68 | 7,196.00 | 6,815.82 | 149.30 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,668.23 | 5,592.94 | 75.30 | 75.280 | | |
| 12,200.00 | 6,932.30 | 7,196.00 | 6,815.82 | 152.08 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,568.44 | 5,493.04 | 75.40 | 73.854 | | |
| 12,300.00 | 6,931.92 | 7,196.00 | 6,815.82 | 154.87 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,468.66 | 5,393.15 | 75.51 | 72.427 | | |
| 12,400.00 | 6,931.54 | 7,196.00 | 6,815.82 | 157.66 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,368.89 | 5,293.26 | 75.62 | 70.997 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-23-18(PR_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|------------|-----------------|------------------|--------------------|--------------------|------------|
| Survey Program: 121-MWD | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| 12,500.00 | 6,931.16 | 7,196.00 | 6,815.82 | 160.45 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,269.12 | 5,193.38 | 75.74 | 69.566 | |
| 12,600.00 | 6,930.78 | 7,196.00 | 6,815.82 | 163.24 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,169.36 | 5,093.49 | 75.87 | 68.133 | |
| 12,700.00 | 6,930.40 | 7,196.00 | 6,815.82 | 166.04 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 5,069.62 | 4,993.61 | 76.01 | 66.698 | |
| 12,800.00 | 6,930.03 | 7,196.00 | 6,815.82 | 168.84 | 57.37 | -74.82 | -2,106.13 | -11,002.41 | 4,969.88 | 4,893.73 | 76.15 | 65.261 | |
| 12,900.00 | 6,929.65 | 7,219.17 | 6,838.98 | 171.64 | 57.42 | -78.40 | -2,106.51 | -11,002.78 | 4,870.07 | 4,793.77 | 76.30 | 63.829 | |
| 13,000.00 | 6,929.27 | 7,220.03 | 6,839.84 | 174.44 | 57.42 | -78.54 | -2,106.52 | -11,002.80 | 4,770.35 | 4,693.89 | 76.46 | 62.389 | |
| 13,100.00 | 6,928.89 | 7,220.91 | 6,840.72 | 177.24 | 57.43 | -78.68 | -2,106.54 | -11,002.82 | 4,670.64 | 4,594.00 | 76.63 | 60.947 | |
| 13,200.00 | 6,928.51 | 7,221.80 | 6,841.61 | 180.05 | 57.43 | -78.82 | -2,106.55 | -11,002.83 | 4,570.94 | 4,494.12 | 76.82 | 59.503 | |
| 13,300.00 | 6,928.13 | 7,222.70 | 6,842.51 | 182.86 | 57.43 | -78.96 | -2,106.57 | -11,002.85 | 4,471.26 | 4,394.24 | 77.02 | 58.056 | |
| 13,400.00 | 6,927.75 | 7,223.62 | 6,843.43 | 185.67 | 57.43 | -79.10 | -2,106.59 | -11,002.86 | 4,371.59 | 4,294.36 | 77.23 | 56.606 | |
| 13,500.00 | 6,927.37 | 7,224.55 | 6,844.36 | 188.48 | 57.44 | -79.25 | -2,106.60 | -11,002.88 | 4,271.93 | 4,194.47 | 77.46 | 55.153 | |
| 13,600.00 | 6,926.99 | 7,225.49 | 6,845.30 | 191.29 | 57.44 | -79.40 | -2,106.62 | -11,002.90 | 4,172.29 | 4,094.59 | 77.70 | 53.698 | |
| 13,700.00 | 6,926.61 | 7,226.45 | 6,846.26 | 194.10 | 57.44 | -79.55 | -2,106.64 | -11,002.91 | 4,072.67 | 3,994.71 | 77.96 | 52.239 | |
| 13,800.00 | 6,926.23 | 7,227.42 | 6,847.23 | 196.92 | 57.44 | -79.70 | -2,106.66 | -11,002.93 | 3,973.07 | 3,894.82 | 78.25 | 50.777 | |
| 13,900.00 | 6,925.85 | 7,228.41 | 6,848.22 | 199.73 | 57.44 | -79.86 | -2,106.67 | -11,002.95 | 3,873.48 | 3,794.93 | 78.55 | 49.312 | |
| 14,000.00 | 6,925.47 | 7,229.41 | 6,849.22 | 202.55 | 57.45 | -80.02 | -2,106.69 | -11,002.97 | 3,773.92 | 3,695.04 | 78.88 | 47.843 | |
| 14,100.00 | 6,925.09 | 7,230.43 | 6,850.24 | 205.37 | 57.45 | -80.18 | -2,106.71 | -11,002.99 | 3,674.38 | 3,595.14 | 79.24 | 46.371 | |
| 14,200.00 | 6,924.71 | 7,231.47 | 6,851.28 | 208.19 | 57.45 | -80.34 | -2,106.73 | -11,003.01 | 3,574.87 | 3,495.24 | 79.63 | 44.895 | |
| 14,300.00 | 6,924.34 | 7,232.52 | 6,852.33 | 211.01 | 57.45 | -80.51 | -2,106.75 | -11,003.03 | 3,475.39 | 3,395.33 | 80.05 | 43.415 | |
| 14,400.00 | 6,923.96 | 7,233.59 | 6,853.39 | 213.83 | 57.46 | -80.68 | -2,106.77 | -11,003.05 | 3,375.93 | 3,295.42 | 80.51 | 41.931 | |
| 14,500.00 | 6,923.58 | 7,234.67 | 6,854.48 | 216.65 | 57.46 | -80.85 | -2,106.79 | -11,003.07 | 3,276.51 | 3,195.49 | 81.02 | 40.443 | |
| 14,600.00 | 6,923.20 | 7,235.77 | 6,855.58 | 219.48 | 57.46 | -81.03 | -2,106.81 | -11,003.09 | 3,177.12 | 3,095.56 | 81.57 | 38.951 | |
| 14,700.00 | 6,922.82 | 7,236.89 | 6,856.70 | 222.30 | 57.46 | -81.20 | -2,106.83 | -11,003.11 | 3,077.77 | 2,995.60 | 82.17 | 37.456 | |
| 14,800.00 | 6,922.44 | 7,238.03 | 6,857.84 | 225.13 | 57.47 | -81.39 | -2,106.86 | -11,003.13 | 2,978.47 | 2,895.63 | 82.84 | 35.956 | |
| 14,900.00 | 6,922.06 | 7,239.19 | 6,858.99 | 227.95 | 57.47 | -81.57 | -2,106.88 | -11,003.15 | 2,879.21 | 2,795.64 | 83.57 | 34.453 | |
| 14,915.55 | 6,922.00 | 7,239.37 | 6,859.18 | 228.39 | 57.47 | -81.60 | -2,106.88 | -11,003.16 | 2,863.78 | 2,780.09 | 83.69 | 34.219 | CC, ES, SF |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-32-12(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 120-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 35.00 | 3.28 | 3.28 | -106.60 | -2,670.92 | -8,961.26 | 9,350.90 | | | | | |
| 100.00 | 100.00 | 0.00 | 35.00 | 3.28 | 3.28 | -106.60 | -2,670.92 | -8,961.26 | 9,351.06 | 9,344.49 | 6.56 | 1,424.402 | | |
| 200.00 | 200.00 | 58.22 | 93.22 | 3.34 | 3.28 | -106.60 | -2,671.29 | -8,961.50 | 9,351.77 | 9,345.15 | 6.62 | 1,412.705 | | |
| 300.00 | 299.98 | 577.00 | 611.23 | 3.44 | 3.96 | 68.19 | -2,656.71 | -8,960.35 | 9,350.44 | 9,343.03 | 7.41 | 1,261.807 | | |
| 400.00 | 399.84 | 577.00 | 611.23 | 3.59 | 3.96 | 68.28 | -2,656.71 | -8,960.35 | 9,345.70 | 9,338.15 | 7.55 | 1,237.340 | | |
| 500.00 | 499.45 | 626.79 | 660.63 | 3.79 | 4.09 | 68.44 | -2,650.51 | -8,961.02 | 9,340.35 | 9,332.46 | 7.88 | 1,184.932 | | |
| 600.00 | 598.70 | 667.00 | 700.45 | 4.03 | 4.21 | 68.61 | -2,645.06 | -8,962.08 | 9,334.49 | 9,326.25 | 8.24 | 1,133.210 | | |
| 700.00 | 697.47 | 763.86 | 796.14 | 4.31 | 4.52 | 68.91 | -2,630.44 | -8,965.40 | 9,327.82 | 9,318.98 | 8.83 | 1,055.908 | | |
| 800.00 | 795.62 | 937.36 | 966.83 | 4.64 | 5.19 | 69.44 | -2,599.92 | -8,971.34 | 9,319.25 | 9,309.42 | 9.82 | 948.549 | | |
| 900.00 | 893.06 | 1,018.13 | 1,045.79 | 5.00 | 5.55 | 69.83 | -2,583.25 | -8,974.58 | 9,309.45 | 9,298.91 | 10.54 | 883.125 | | |
| 1,000.00 | 989.78 | 1,107.23 | 1,132.34 | 5.39 | 5.99 | 70.18 | -2,562.55 | -8,978.89 | 9,298.92 | 9,287.55 | 11.37 | 818.157 | | |
| 1,100.00 | 1,086.42 | 1,174.04 | 1,196.83 | 5.81 | 6.34 | 70.38 | -2,545.50 | -8,982.56 | 9,288.55 | 9,276.41 | 12.13 | 765.534 | | |
| 1,200.00 | 1,183.06 | 1,230.78 | 1,251.30 | 6.25 | 6.66 | 70.56 | -2,530.04 | -8,986.14 | 9,278.70 | 9,265.82 | 12.88 | 720.287 | | |
| 1,300.00 | 1,279.69 | 1,305.15 | 1,322.21 | 6.71 | 7.11 | 70.80 | -2,508.25 | -8,991.40 | 9,269.31 | 9,255.53 | 13.78 | 672.626 | | |
| 1,400.00 | 1,376.33 | 1,372.49 | 1,385.88 | 7.17 | 7.55 | 71.03 | -2,486.97 | -8,996.65 | 9,260.35 | 9,245.67 | 14.68 | 630.856 | | |
| 1,500.00 | 1,472.97 | 1,417.00 | 1,427.69 | 7.65 | 7.85 | 71.18 | -2,472.16 | -9,000.39 | 9,251.90 | 9,236.45 | 15.45 | 598.886 | | |
| 1,600.00 | 1,569.61 | 1,455.65 | 1,463.85 | 8.13 | 8.12 | 71.32 | -2,458.94 | -9,003.90 | 9,244.16 | 9,227.96 | 16.20 | 570.469 | | |
| 1,700.00 | 1,666.24 | 1,512.00 | 1,516.35 | 8.62 | 8.53 | 71.52 | -2,439.32 | -9,009.63 | 9,237.36 | 9,220.27 | 17.10 | 540.262 | | |
| 1,800.00 | 1,762.88 | 1,512.00 | 1,516.35 | 9.12 | 8.53 | 71.52 | -2,439.32 | -9,009.63 | 9,231.17 | 9,213.58 | 17.59 | 524.791 | | |
| 1,900.00 | 1,859.52 | 1,572.40 | 1,572.40 | 9.62 | 8.99 | 71.74 | -2,417.82 | -9,016.31 | 9,225.77 | 9,207.22 | 18.55 | 497.433 | | |
| 2,000.00 | 1,956.16 | 1,607.00 | 1,604.40 | 10.13 | 9.25 | 71.87 | -2,405.28 | -9,020.26 | 9,220.99 | 9,201.68 | 19.31 | 477.457 | | |
| 2,100.00 | 2,052.79 | 1,663.59 | 1,656.55 | 10.64 | 9.70 | 72.08 | -2,384.36 | -9,027.02 | 9,216.87 | 9,196.60 | 20.27 | 454.674 | | |
| 2,200.00 | 2,149.43 | 1,701.00 | 1,690.87 | 11.15 | 10.01 | 72.22 | -2,370.23 | -9,031.74 | 9,213.51 | 9,192.43 | 21.08 | 437.073 | | |
| 2,300.00 | 2,246.07 | 1,743.67 | 1,729.85 | 11.66 | 10.37 | 72.39 | -2,353.82 | -9,037.36 | 9,210.88 | 9,188.93 | 21.95 | 419.628 | | |
| 2,400.00 | 2,342.71 | 1,796.00 | 1,777.41 | 12.18 | 10.81 | 72.59 | -2,333.24 | -9,044.62 | 9,209.02 | 9,186.12 | 22.91 | 402.032 | | |
| 2,500.00 | 2,439.34 | 1,909.58 | 1,880.00 | 12.70 | 11.83 | 73.04 | -2,287.14 | -9,060.46 | 9,207.56 | 9,183.13 | 24.44 | 376.802 | | |
| 2,600.00 | 2,535.98 | 1,976.67 | 1,940.29 | 13.22 | 12.45 | 73.31 | -2,259.23 | -9,069.79 | 9,206.35 | 9,180.78 | 25.57 | 360.088 | | |
| 2,700.00 | 2,632.62 | 2,021.57 | 1,980.54 | 13.75 | 12.87 | 73.49 | -2,240.38 | -9,076.15 | 9,205.74 | 9,179.25 | 26.50 | 347.394 | | |
| 2,730.86 | 2,662.44 | 2,033.91 | 1,991.60 | 13.91 | 12.99 | 73.54 | -2,235.20 | -9,077.93 | 9,205.71 | 9,178.93 | 26.77 | 343.836 | | |
| 2,800.00 | 2,729.26 | 2,061.54 | 2,016.36 | 14.27 | 13.25 | 73.65 | -2,223.62 | -9,081.96 | 9,205.89 | 9,178.50 | 27.39 | 336.130 | | |
| 2,900.00 | 2,825.89 | 2,152.40 | 2,097.71 | 14.80 | 14.12 | 74.01 | -2,185.45 | -9,095.43 | 9,206.70 | 9,177.93 | 28.77 | 320.030 | | |
| 3,000.00 | 2,922.53 | 2,223.75 | 2,161.50 | 15.32 | 14.81 | 74.30 | -2,155.22 | -9,105.83 | 9,207.74 | 9,177.77 | 29.97 | 307.232 | | |
| 3,100.00 | 3,019.17 | 2,274.00 | 2,206.37 | 15.85 | 15.30 | 74.51 | -2,133.87 | -9,113.29 | 9,209.43 | 9,178.46 | 30.97 | 297.375 | | |
| 3,200.00 | 3,115.81 | 2,323.47 | 2,250.54 | 16.38 | 15.79 | 74.71 | -2,112.90 | -9,120.76 | 9,211.78 | 9,179.82 | 31.96 | 288.210 | | |
| 3,300.00 | 3,212.44 | 2,369.00 | 2,291.24 | 16.91 | 16.24 | 74.89 | -2,093.72 | -9,127.76 | 9,214.83 | 9,181.92 | 32.92 | 279.954 | | |
| 3,400.00 | 3,309.08 | 2,404.91 | 2,323.36 | 17.44 | 16.60 | 75.04 | -2,078.68 | -9,133.42 | 9,218.64 | 9,184.86 | 33.77 | 272.967 | | |
| 3,500.00 | 3,405.72 | 2,439.44 | 2,354.25 | 17.97 | 16.94 | 75.18 | -2,064.30 | -9,139.00 | 9,223.24 | 9,188.62 | 34.61 | 266.468 | | |
| 3,600.00 | 3,502.36 | 2,489.16 | 2,398.74 | 18.50 | 17.43 | 75.38 | -2,043.71 | -9,147.26 | 9,228.61 | 9,193.01 | 35.60 | 259.213 | | |
| 3,700.00 | 3,598.99 | 2,569.80 | 2,470.96 | 19.03 | 18.23 | 75.70 | -2,010.41 | -9,160.66 | 9,234.47 | 9,197.57 | 36.90 | 250.278 | | |
| 3,800.00 | 3,695.63 | 2,627.29 | 2,522.54 | 19.57 | 18.80 | 75.93 | -1,986.93 | -9,170.25 | 9,240.85 | 9,202.89 | 37.96 | 243.455 | | |
| 3,900.00 | 3,792.27 | 2,810.36 | 2,686.56 | 20.10 | 20.63 | 76.66 | -1,911.33 | -9,200.13 | 9,247.45 | 9,207.17 | 40.28 | 229.570 | | |
| 4,000.00 | 3,888.91 | 2,880.60 | 2,748.75 | 20.63 | 21.36 | 76.95 | -1,880.60 | -9,211.18 | 9,253.88 | 9,212.38 | 41.50 | 223.001 | | |
| 4,100.00 | 3,985.54 | 2,937.00 | 2,798.61 | 21.17 | 21.95 | 77.18 | -1,855.83 | -9,220.23 | 9,260.98 | 9,218.41 | 42.57 | 217.534 | | |
| 4,200.00 | 4,082.18 | 4,200.00 | 2,934.77 | 21.70 | 34.73 | 77.79 | -1,791.77 | -9,244.15 | 9,268.46 | 9,212.96 | 55.50 | 167.014 | | |
| 4,300.00 | 4,178.82 | 3,200.79 | 3,034.42 | 22.24 | 24.64 | 78.24 | -1,744.75 | -9,260.65 | 9,275.54 | 9,229.32 | 46.22 | 200.688 | | |
| 4,400.00 | 4,275.46 | 3,249.50 | 3,077.76 | 22.77 | 25.14 | 78.44 | -1,723.74 | -9,267.93 | 9,283.23 | 9,236.03 | 47.20 | 196.693 | | |
| 4,500.00 | 4,372.09 | 3,296.19 | 3,119.47 | 23.31 | 25.62 | 78.62 | -1,704.01 | -9,275.05 | 9,291.60 | 9,243.45 | 48.15 | 192.973 | | |
| 4,600.00 | 4,468.73 | 3,428.86 | 3,238.65 | 23.84 | 26.96 | 79.15 | -1,649.27 | -9,295.05 | 9,300.30 | 9,250.34 | 49.96 | 186.166 | | |
| 4,700.00 | 4,565.37 | 3,474.48 | 3,279.73 | 24.38 | 27.41 | 79.33 | -1,630.65 | -9,301.87 | 9,309.34 | 9,258.46 | 50.88 | 182.959 | | |
| 4,800.00 | 4,662.01 | 3,524.23 | 3,324.59 | 24.91 | 27.91 | 79.52 | -1,610.50 | -9,309.48 | 9,319.06 | 9,267.22 | 51.85 | 179.748 | | |
| 4,900.00 | 4,758.64 | 3,580.24 | 3,375.01 | 25.45 | 28.48 | 79.74 | -1,587.72 | -9,318.17 | 9,329.40 | 9,276.53 | 52.87 | 176.469 | | |
| 5,000.00 | 4,855.28 | 3,700.67 | 3,483.30 | 25.99 | 29.69 | 80.21 | -1,538.43 | -9,336.80 | 9,340.15 | 9,285.61 | 54.53 | 171.269 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-32-12(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 120-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 3,780.24 | 3,555.07 | 26.53 | 30.48 | 80.52 | -1,506.25 | -9,348.88 | 9,351.07 | 9,295.29 | 55.78 | 167.636 | | |
| 5,200.00 | 5,048.56 | 3,870.90 | 3,636.80 | 27.06 | 31.39 | 80.88 | -1,469.50 | -9,362.55 | 9,362.33 | 9,305.19 | 57.14 | 163.850 | | |
| 5,300.00 | 5,145.19 | 3,907.05 | 3,669.22 | 27.60 | 31.77 | 81.02 | -1,454.46 | -9,368.01 | 9,374.09 | 9,316.13 | 57.96 | 161.736 | | |
| 5,400.00 | 5,241.83 | 3,935.96 | 3,695.01 | 28.14 | 32.07 | 81.13 | -1,442.20 | -9,372.52 | 9,386.67 | 9,327.97 | 58.70 | 159.903 | | |
| 5,500.00 | 5,338.47 | 3,976.00 | 3,730.52 | 28.67 | 32.49 | 81.29 | -1,424.86 | -9,378.98 | 9,400.08 | 9,340.53 | 59.56 | 157.838 | | |
| 5,600.00 | 5,435.11 | 3,976.00 | 3,730.52 | 29.21 | 32.49 | 81.29 | -1,424.86 | -9,378.98 | 9,414.31 | 9,354.33 | 59.99 | 156.940 | | |
| 5,700.00 | 5,531.74 | 4,022.69 | 3,771.63 | 29.75 | 33.00 | 81.48 | -1,404.16 | -9,386.82 | 9,429.29 | 9,368.37 | 60.92 | 154.781 | | |
| 5,800.00 | 5,628.38 | 4,071.00 | 3,813.84 | 30.29 | 33.53 | 81.68 | -1,382.24 | -9,395.25 | 9,445.17 | 9,383.31 | 61.87 | 152.673 | | |
| 5,900.00 | 5,725.02 | 4,071.00 | 3,813.84 | 30.83 | 33.53 | 81.68 | -1,382.24 | -9,395.25 | 9,461.77 | 9,399.49 | 62.28 | 151.927 | | |
| 6,000.00 | 5,821.66 | 4,120.28 | 3,856.59 | 31.37 | 34.09 | 81.89 | -1,359.37 | -9,404.11 | 9,479.14 | 9,415.90 | 63.24 | 149.886 | | |
| 6,100.00 | 5,918.29 | 4,165.00 | 3,895.12 | 31.90 | 34.60 | 82.08 | -1,338.22 | -9,412.30 | 9,497.27 | 9,433.13 | 64.15 | 148.051 | | |
| 6,200.00 | 6,014.93 | 6,242.92 | 5,858.92 | 32.44 | 49.92 | 88.45 | -772.74 | -9,619.18 | 9,508.23 | 9,428.53 | 79.70 | 119.298 | | |
| 6,300.00 | 6,111.57 | 6,399.10 | 6,014.97 | 32.98 | 50.37 | 88.73 | -766.44 | -9,620.65 | 9,508.80 | 9,428.15 | 80.64 | 117.909 | | |
| 6,400.00 | 6,208.21 | 6,483.66 | 6,099.48 | 33.52 | 50.60 | 88.88 | -763.71 | -9,621.34 | 9,509.34 | 9,427.96 | 81.39 | 116.843 | | |
| 6,500.00 | 6,304.84 | 6,561.83 | 6,177.62 | 34.06 | 50.81 | 89.01 | -761.66 | -9,622.15 | 9,510.14 | 9,428.03 | 82.10 | 115.829 | | |
| 6,600.00 | 6,401.37 | 6,642.89 | 6,258.66 | 34.60 | 51.02 | 72.46 | -760.01 | -9,623.19 | 9,509.02 | 9,426.19 | 82.83 | 114.804 | | |
| 6,700.00 | 6,496.25 | 6,745.60 | 6,361.35 | 35.12 | 51.28 | 50.26 | -758.45 | -9,624.56 | 9,494.17 | 9,410.59 | 83.57 | 113.602 | | |
| 6,800.00 | 6,587.15 | 6,844.48 | 6,460.21 | 35.59 | 51.53 | 38.31 | -757.44 | -9,625.84 | 9,464.11 | 9,379.84 | 84.27 | 112.311 | | |
| 6,900.00 | 6,671.83 | 6,928.41 | 6,544.13 | 36.03 | 51.73 | 31.90 | -756.80 | -9,626.93 | 9,419.64 | 9,334.77 | 84.87 | 110.989 | | |
| 7,000.00 | 6,748.21 | 7,005.99 | 6,621.71 | 36.41 | 51.92 | 28.54 | -756.35 | -9,627.95 | 9,361.86 | 9,276.45 | 85.41 | 109.611 | | |
| 7,100.00 | 6,814.41 | 7,073.07 | 6,688.78 | 36.76 | 52.09 | 27.17 | -756.03 | -9,628.83 | 9,292.20 | 9,206.33 | 85.87 | 108.206 | | |
| 7,200.00 | 6,868.79 | 7,128.46 | 6,744.16 | 37.07 | 52.22 | 27.58 | -755.77 | -9,629.55 | 9,212.36 | 9,126.10 | 86.26 | 106.798 | | |
| 7,300.00 | 6,910.01 | 7,170.81 | 6,786.51 | 37.39 | 52.33 | 30.35 | -755.56 | -9,630.11 | 9,124.28 | 9,037.72 | 86.56 | 105.410 | | |
| 7,400.00 | 6,937.07 | 7,200.92 | 6,814.78 | 37.76 | 52.40 | 38.12 | -755.43 | -9,630.48 | 9,030.12 | 8,943.34 | 86.78 | 104.059 | | |
| 7,500.00 | 6,949.29 | 7,212.58 | 6,828.28 | 38.27 | 52.43 | 64.26 | -755.36 | -9,630.66 | 8,932.17 | 8,845.26 | 86.91 | 102.780 | | |
| 7,600.00 | 6,949.75 | 7,214.35 | 6,830.05 | 39.02 | 52.44 | 85.02 | -755.36 | -9,630.68 | 8,832.85 | 8,745.87 | 86.98 | 101.553 | | |
| 7,700.00 | 6,949.37 | 7,215.28 | 6,830.98 | 40.05 | 52.44 | 85.07 | -755.35 | -9,630.69 | 8,733.49 | 8,646.44 | 87.05 | 100.329 | | |
| 7,800.00 | 6,948.99 | 7,216.21 | 6,831.91 | 41.35 | 52.44 | 85.12 | -755.35 | -9,630.70 | 8,634.15 | 8,547.02 | 87.12 | 99.102 | | |
| 7,900.00 | 6,948.61 | 7,217.14 | 6,832.84 | 42.86 | 52.44 | 85.18 | -755.34 | -9,630.72 | 8,534.82 | 8,447.62 | 87.20 | 97.871 | | |
| 8,000.00 | 6,948.23 | 7,218.07 | 6,833.76 | 44.53 | 52.44 | 85.23 | -755.34 | -9,630.73 | 8,435.51 | 8,348.22 | 87.29 | 96.637 | | |
| 8,100.00 | 6,947.85 | 7,219.00 | 6,834.69 | 46.34 | 52.45 | 85.28 | -755.33 | -9,630.74 | 8,336.22 | 8,248.83 | 87.38 | 95.398 | | |
| 8,200.00 | 6,947.47 | 7,219.93 | 6,835.62 | 48.26 | 52.45 | 85.34 | -755.33 | -9,630.75 | 8,236.94 | 8,149.45 | 87.48 | 94.154 | | |
| 8,300.00 | 6,947.09 | 7,220.86 | 6,836.55 | 50.28 | 52.45 | 85.39 | -755.33 | -9,630.77 | 8,137.68 | 8,050.09 | 87.59 | 92.907 | | |
| 8,400.00 | 6,946.72 | 7,221.79 | 6,837.48 | 52.39 | 52.45 | 85.44 | -755.32 | -9,630.78 | 8,038.44 | 7,950.73 | 87.70 | 91.656 | | |
| 8,500.00 | 6,946.34 | 7,222.72 | 6,838.41 | 54.56 | 52.46 | 85.50 | -755.32 | -9,630.79 | 7,939.21 | 7,851.39 | 87.82 | 90.401 | | |
| 8,600.00 | 6,945.96 | 7,223.65 | 6,839.34 | 56.80 | 52.46 | 85.55 | -755.31 | -9,630.80 | 7,840.01 | 7,752.06 | 87.95 | 89.142 | | |
| 8,700.00 | 6,945.58 | 7,224.58 | 6,840.27 | 59.10 | 52.46 | 85.60 | -755.31 | -9,630.81 | 7,740.83 | 7,652.74 | 88.08 | 87.879 | | |
| 8,800.00 | 6,945.20 | 7,225.51 | 6,841.20 | 61.44 | 52.46 | 85.66 | -755.30 | -9,630.83 | 7,641.67 | 7,553.44 | 88.23 | 86.613 | | |
| 8,900.00 | 6,944.82 | 7,226.44 | 6,842.13 | 63.83 | 52.47 | 85.71 | -755.30 | -9,630.84 | 7,542.53 | 7,454.15 | 88.38 | 85.342 | | |
| 9,000.00 | 6,944.44 | 7,227.37 | 6,843.06 | 66.25 | 52.47 | 85.76 | -755.29 | -9,630.85 | 7,443.41 | 7,354.87 | 88.54 | 84.067 | | |
| 9,100.00 | 6,944.06 | 7,228.30 | 6,843.99 | 68.71 | 52.47 | 85.82 | -755.29 | -9,630.86 | 7,344.32 | 7,255.60 | 88.71 | 82.788 | | |
| 9,200.00 | 6,943.68 | 7,229.23 | 6,844.92 | 71.20 | 52.47 | 85.87 | -755.29 | -9,630.88 | 7,245.25 | 7,156.36 | 88.89 | 81.506 | | |
| 9,300.00 | 6,943.30 | 7,230.16 | 6,845.85 | 73.72 | 52.48 | 85.92 | -755.28 | -9,630.89 | 7,146.21 | 7,057.12 | 89.08 | 80.219 | | |
| 9,400.00 | 6,942.92 | 7,231.09 | 6,846.78 | 76.26 | 52.48 | 85.98 | -755.28 | -9,630.90 | 7,047.19 | 6,957.90 | 89.29 | 78.928 | | |
| 9,500.00 | 6,942.54 | 7,232.01 | 6,847.71 | 78.82 | 52.48 | 86.03 | -755.27 | -9,630.91 | 6,948.20 | 6,858.70 | 89.50 | 77.634 | | |
| 9,600.00 | 6,942.16 | 7,232.94 | 6,848.64 | 81.40 | 52.48 | 86.08 | -755.27 | -9,630.92 | 6,849.24 | 6,759.52 | 89.73 | 76.336 | | |
| 9,700.00 | 6,941.78 | 7,233.87 | 6,849.57 | 84.00 | 52.48 | 86.14 | -755.26 | -9,630.94 | 6,750.32 | 6,660.35 | 89.96 | 75.034 | | |
| 9,800.00 | 6,941.40 | 7,234.80 | 6,850.50 | 86.62 | 52.49 | 86.19 | -755.26 | -9,630.95 | 6,651.42 | 6,561.21 | 90.22 | 73.728 | | |
| 9,900.00 | 6,941.03 | 7,235.73 | 6,851.43 | 89.25 | 52.49 | 86.25 | -755.25 | -9,630.96 | 6,552.56 | 6,462.08 | 90.48 | 72.418 | | |
| 10,000.00 | 6,940.65 | 7,236.66 | 6,852.36 | 91.90 | 52.49 | 86.30 | -755.25 | -9,630.97 | 6,453.73 | 6,362.97 | 90.76 | 71.105 | | |
| 10,100.00 | 6,940.27 | 7,237.59 | 6,853.29 | 94.56 | 52.49 | 86.35 | -755.25 | -9,630.98 | 6,354.94 | 6,263.88 | 91.06 | 69.788 | | |
| 10,200.00 | 6,939.89 | 7,238.52 | 6,854.22 | 97.23 | 52.50 | 86.41 | -755.24 | -9,631.00 | 6,256.19 | 6,164.82 | 91.37 | 68.467 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-32-12(PR_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 120-MWD | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,300.00 | 6,939.51 | 7,239.45 | 6,855.14 | 99.91 | 52.50 | 86.46 | -755.24 | -9,631.01 | 6,157.48 | 6,065.77 | 91.71 | 67.144 | |
| 10,400.00 | 6,939.13 | 7,240.38 | 6,856.07 | 102.60 | 52.50 | 86.51 | -755.23 | -9,631.02 | 6,058.81 | 5,966.75 | 92.06 | 65.817 | |
| 10,500.00 | 6,938.75 | 7,241.31 | 6,857.00 | 105.30 | 52.50 | 86.57 | -755.23 | -9,631.03 | 5,960.18 | 5,867.76 | 92.43 | 64.487 | |
| 10,600.00 | 6,938.37 | 7,242.24 | 6,857.93 | 108.00 | 52.51 | 86.62 | -755.22 | -9,631.05 | 5,861.60 | 5,768.79 | 92.82 | 63.154 | |
| 10,700.00 | 6,937.99 | 7,243.17 | 6,858.86 | 110.72 | 52.51 | 86.67 | -755.22 | -9,631.06 | 5,763.07 | 5,669.85 | 93.23 | 61.818 | |
| 10,800.00 | 6,937.61 | 7,244.10 | 6,859.79 | 113.44 | 52.51 | 86.73 | -755.21 | -9,631.07 | 5,664.59 | 5,570.93 | 93.66 | 60.479 | |
| 10,900.00 | 6,937.23 | 7,245.03 | 6,860.72 | 116.17 | 52.51 | 86.78 | -755.21 | -9,631.08 | 5,566.17 | 5,472.05 | 94.12 | 59.138 | |
| 11,000.00 | 6,936.85 | 7,245.96 | 6,861.65 | 118.90 | 52.51 | 86.83 | -755.21 | -9,631.09 | 5,467.80 | 5,373.19 | 94.61 | 57.795 | |
| 11,100.00 | 6,936.47 | 7,246.89 | 6,862.58 | 121.64 | 52.52 | 86.89 | -755.20 | -9,631.11 | 5,369.49 | 5,274.37 | 95.12 | 56.450 | |
| 11,200.00 | 6,936.09 | 7,247.82 | 6,863.51 | 124.39 | 52.52 | 86.94 | -755.20 | -9,631.12 | 5,271.25 | 5,175.59 | 95.66 | 55.103 | |
| 11,300.00 | 6,935.71 | 7,248.75 | 6,864.44 | 127.14 | 52.52 | 87.00 | -755.19 | -9,631.13 | 5,173.07 | 5,076.83 | 96.24 | 53.755 | |
| 11,400.00 | 6,935.34 | 7,249.68 | 6,865.37 | 129.90 | 52.52 | 87.05 | -755.19 | -9,631.14 | 5,074.96 | 4,978.12 | 96.84 | 52.405 | |
| 11,500.00 | 6,934.96 | 7,250.61 | 6,866.30 | 132.66 | 52.53 | 87.10 | -755.18 | -9,631.16 | 4,976.93 | 4,879.45 | 97.48 | 51.055 | |
| 11,600.00 | 6,934.58 | 7,251.54 | 6,867.23 | 135.42 | 52.53 | 87.16 | -755.18 | -9,631.17 | 4,878.98 | 4,780.82 | 98.16 | 49.705 | |
| 11,700.00 | 6,934.20 | 7,252.47 | 6,868.16 | 138.19 | 52.53 | 87.21 | -755.17 | -9,631.18 | 4,781.11 | 4,682.24 | 98.88 | 48.354 | |
| 11,800.00 | 6,933.82 | 7,253.40 | 6,869.09 | 140.96 | 52.53 | 87.26 | -755.17 | -9,631.19 | 4,683.34 | 4,583.70 | 99.64 | 47.004 | |
| 11,900.00 | 6,933.44 | 7,254.33 | 6,870.02 | 143.74 | 52.54 | 87.32 | -755.17 | -9,631.20 | 4,585.66 | 4,485.22 | 100.44 | 45.656 | |
| 12,000.00 | 6,933.06 | 7,255.26 | 6,870.95 | 146.51 | 52.54 | 87.37 | -755.16 | -9,631.22 | 4,488.08 | 4,386.78 | 101.29 | 44.308 | |
| 12,100.00 | 6,932.68 | 7,256.19 | 6,871.88 | 149.30 | 52.54 | 87.42 | -755.16 | -9,631.23 | 4,390.61 | 4,288.41 | 102.19 | 42.963 | |
| 12,200.00 | 6,932.30 | 7,257.12 | 6,872.81 | 152.08 | 52.54 | 87.48 | -755.15 | -9,631.24 | 4,293.25 | 4,190.10 | 103.15 | 41.621 | |
| 12,300.00 | 6,931.92 | 7,258.05 | 6,873.74 | 154.87 | 52.54 | 87.53 | -755.15 | -9,631.25 | 4,196.02 | 4,091.85 | 104.17 | 40.281 | |
| 12,400.00 | 6,931.54 | 7,258.97 | 6,874.67 | 157.66 | 52.55 | 87.59 | -755.14 | -9,631.27 | 4,098.92 | 3,993.68 | 105.25 | 38.946 | |
| 12,500.00 | 6,931.16 | 7,259.90 | 6,875.60 | 160.45 | 52.55 | 87.64 | -755.14 | -9,631.28 | 4,001.97 | 3,895.58 | 106.39 | 37.616 | |
| 12,600.00 | 6,930.78 | 7,260.83 | 6,876.52 | 163.24 | 52.55 | 87.69 | -755.13 | -9,631.29 | 3,905.17 | 3,797.56 | 107.61 | 36.292 | |
| 12,700.00 | 6,930.40 | 7,261.76 | 6,877.45 | 166.04 | 52.55 | 87.75 | -755.13 | -9,631.30 | 3,808.53 | 3,699.63 | 108.90 | 34.973 | |
| 12,800.00 | 6,930.03 | 7,262.69 | 6,878.38 | 168.84 | 52.56 | 87.80 | -755.13 | -9,631.31 | 3,712.07 | 3,601.80 | 110.27 | 33.662 | |
| 12,900.00 | 6,929.65 | 7,263.62 | 6,879.31 | 171.64 | 52.56 | 87.85 | -755.12 | -9,631.33 | 3,615.81 | 3,504.07 | 111.74 | 32.360 | |
| 13,000.00 | 6,929.27 | 7,264.55 | 6,880.24 | 174.44 | 52.56 | 87.91 | -755.12 | -9,631.34 | 3,519.75 | 3,406.45 | 113.30 | 31.067 | |
| 13,100.00 | 6,928.89 | 7,265.48 | 6,881.17 | 177.24 | 52.56 | 87.96 | -755.11 | -9,631.35 | 3,423.92 | 3,308.96 | 114.96 | 29.784 | |
| 13,200.00 | 6,928.51 | 7,266.41 | 6,882.10 | 180.05 | 52.57 | 88.01 | -755.11 | -9,631.36 | 3,328.33 | 3,211.60 | 116.73 | 28.512 | |
| 13,300.00 | 6,928.13 | 7,267.34 | 6,883.03 | 182.86 | 52.57 | 88.07 | -755.10 | -9,631.38 | 3,233.01 | 3,114.38 | 118.63 | 27.253 | |
| 13,400.00 | 6,927.75 | 7,268.27 | 6,883.96 | 185.67 | 52.57 | 88.12 | -755.10 | -9,631.39 | 3,137.98 | 3,017.33 | 120.65 | 26.008 | |
| 13,500.00 | 6,927.37 | 7,269.20 | 6,884.89 | 188.48 | 52.57 | 88.18 | -755.09 | -9,631.40 | 3,043.27 | 2,920.45 | 122.82 | 24.778 | |
| 13,600.00 | 6,926.99 | 7,270.13 | 6,885.82 | 191.29 | 52.58 | 88.23 | -755.09 | -9,631.41 | 2,948.91 | 2,823.77 | 125.14 | 23.565 | |
| 13,700.00 | 6,926.61 | 7,271.06 | 6,886.75 | 194.10 | 52.58 | 88.28 | -755.09 | -9,631.42 | 2,854.93 | 2,727.30 | 127.63 | 22.370 | |
| 13,800.00 | 6,926.23 | 7,271.99 | 6,887.68 | 196.92 | 52.58 | 88.34 | -755.08 | -9,631.44 | 2,761.37 | 2,631.08 | 130.29 | 21.193 | |
| 13,900.00 | 6,925.85 | 7,272.92 | 6,888.61 | 199.73 | 52.58 | 88.39 | -755.08 | -9,631.45 | 2,668.28 | 2,535.12 | 133.16 | 20.038 | |
| 14,000.00 | 6,925.47 | 7,273.85 | 6,889.54 | 202.55 | 52.58 | 88.44 | -755.07 | -9,631.46 | 2,575.71 | 2,439.47 | 136.24 | 18.906 | |
| 14,100.00 | 6,925.09 | 7,274.78 | 6,890.47 | 205.37 | 52.59 | 88.50 | -755.07 | -9,631.47 | 2,483.72 | 2,344.16 | 139.56 | 17.797 | |
| 14,200.00 | 6,924.71 | 7,275.71 | 6,891.40 | 208.19 | 52.59 | 88.55 | -755.06 | -9,631.48 | 2,392.36 | 2,249.23 | 143.13 | 16.715 | |
| 14,300.00 | 6,924.34 | 7,276.64 | 6,892.33 | 211.01 | 52.59 | 88.61 | -755.06 | -9,631.50 | 2,301.73 | 2,154.74 | 146.99 | 15.660 | |
| 14,400.00 | 6,923.96 | 7,277.57 | 6,893.26 | 213.83 | 52.59 | 88.66 | -755.05 | -9,631.51 | 2,211.90 | 2,060.75 | 151.15 | 14.634 | |
| 14,500.00 | 6,923.58 | 7,278.50 | 6,894.19 | 216.65 | 52.60 | 88.71 | -755.05 | -9,631.52 | 2,122.98 | 1,967.33 | 155.65 | 13.640 | |
| 14,600.00 | 6,923.20 | 7,279.43 | 6,895.12 | 219.48 | 52.60 | 88.77 | -755.05 | -9,631.53 | 2,035.09 | 1,874.57 | 160.52 | 12.678 | |
| 14,700.00 | 6,922.82 | 7,280.36 | 6,896.05 | 222.30 | 52.60 | 88.82 | -755.04 | -9,631.55 | 1,948.37 | 1,782.58 | 165.79 | 11.752 | |
| 14,800.00 | 6,922.44 | 7,281.29 | 6,896.98 | 225.13 | 52.60 | 88.87 | -755.04 | -9,631.56 | 1,862.98 | 1,691.48 | 171.50 | 10.863 | |
| 14,900.00 | 6,922.06 | 7,282.22 | 6,897.90 | 227.95 | 52.61 | 88.93 | -755.03 | -9,631.57 | 1,779.11 | 1,601.43 | 177.68 | 10.013 | |
| 14,915.55 | 6,922.00 | 7,282.36 | 6,898.05 | 228.39 | 52.61 | 88.94 | -755.03 | -9,631.57 | 1,766.22 | 1,587.54 | 178.68 | 9.885 CC, ES, SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-42-11(PR_150CC) - OH - MWD | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 57-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 2,189.41 | 2,123.82 | 3.28 | 15.24 | -103.64 | -2,123.84 | -8,751.24 | 9,252.32 | | | | | |
| 100.00 | 100.00 | 2,233.54 | 2,164.15 | 3.28 | 15.63 | -103.54 | -2,106.81 | -8,745.67 | 9,229.63 | 9,211.68 | 17.95 | 514.111 | | |
| 200.00 | 200.00 | 2,269.80 | 2,197.35 | 3.34 | 15.95 | -103.46 | -2,092.89 | -8,741.30 | 9,207.60 | 9,189.33 | 18.27 | 503.841 | | |
| 300.00 | 299.98 | 2,311.76 | 2,235.84 | 3.44 | 16.33 | 71.68 | -2,076.89 | -8,736.48 | 9,185.70 | 9,167.01 | 18.69 | 491.365 | | |
| 400.00 | 399.84 | 2,351.49 | 2,262.22 | 3.59 | 18.18 | 72.65 | -1,997.54 | -8,711.88 | 9,162.65 | 9,142.13 | 20.52 | 446.564 | | |
| 500.00 | 499.45 | 2,558.88 | 2,462.11 | 3.79 | 18.54 | 73.25 | -1,981.99 | -8,707.19 | 9,138.28 | 9,117.25 | 21.03 | 434.628 | | |
| 600.00 | 598.70 | 2,610.22 | 2,508.80 | 4.03 | 19.01 | 73.89 | -1,961.44 | -8,701.45 | 9,113.58 | 9,091.90 | 21.68 | 420.305 | | |
| 700.00 | 697.47 | 2,708.09 | 2,597.83 | 4.31 | 19.92 | 74.72 | -1,922.25 | -8,690.62 | 9,088.33 | 9,065.54 | 22.78 | 398.875 | | |
| 800.00 | 795.62 | 2,894.94 | 2,767.01 | 4.64 | 21.67 | 75.92 | -1,846.06 | -8,668.63 | 9,061.54 | 9,036.84 | 24.70 | 366.826 | | |
| 900.00 | 893.06 | 2,942.41 | 2,810.04 | 5.00 | 22.12 | 76.65 | -1,826.86 | -8,662.88 | 9,034.22 | 9,008.75 | 25.47 | 354.756 | | |
| 1,000.00 | 989.78 | 3,001.80 | 2,864.15 | 5.39 | 22.67 | 77.13 | -1,803.44 | -8,655.70 | 9,006.83 | 8,980.47 | 26.36 | 341.715 | | |
| 1,100.00 | 1,086.42 | 3,073.95 | 2,930.34 | 5.81 | 23.32 | 77.40 | -1,776.18 | -8,646.72 | 8,979.79 | 8,952.42 | 27.37 | 328.031 | | |
| 1,200.00 | 1,183.06 | 3,148.64 | 2,998.87 | 6.25 | 24.00 | 77.69 | -1,747.95 | -8,637.46 | 8,953.14 | 8,924.71 | 28.43 | 314.898 | | |
| 1,300.00 | 1,279.69 | 3,236.29 | 3,079.12 | 6.71 | 24.80 | 78.03 | -1,714.41 | -8,626.69 | 8,926.82 | 8,897.20 | 29.62 | 301.344 | | |
| 1,400.00 | 1,376.33 | 3,283.70 | 3,122.62 | 7.17 | 25.22 | 78.21 | -1,696.47 | -8,620.85 | 8,900.93 | 8,870.43 | 30.49 | 291.895 | | |
| 1,500.00 | 1,472.97 | 3,325.66 | 3,161.34 | 7.65 | 25.59 | 78.37 | -1,681.14 | -8,615.72 | 8,875.71 | 8,844.38 | 31.33 | 283.280 | | |
| 1,600.00 | 1,569.61 | 3,346.00 | 3,180.19 | 8.13 | 25.77 | 78.45 | -1,673.90 | -8,613.26 | 8,851.22 | 8,819.21 | 32.01 | 276.522 | | |
| 1,700.00 | 1,666.24 | 3,395.95 | 3,226.62 | 8.62 | 26.20 | 78.63 | -1,656.42 | -8,607.39 | 8,827.40 | 8,794.48 | 32.92 | 268.154 | | |
| 1,800.00 | 1,762.88 | 3,440.00 | 3,267.68 | 9.12 | 26.57 | 78.79 | -1,641.25 | -8,602.50 | 8,804.41 | 8,770.62 | 33.79 | 260.542 | | |
| 1,900.00 | 1,859.52 | 3,490.00 | 3,306.19 | 9.62 | 13.84 | 79.10 | -1,613.05 | -8,593.06 | 8,781.83 | 8,759.31 | 22.52 | 390.017 | | |
| 2,000.00 | 1,956.16 | 3,801.60 | 3,606.26 | 10.13 | 29.57 | 80.11 | -1,522.15 | -8,558.77 | 8,759.18 | 8,721.61 | 37.57 | 233.139 | | |
| 2,100.00 | 2,052.79 | 3,906.60 | 3,704.10 | 10.64 | 30.46 | 80.50 | -1,486.79 | -8,544.59 | 8,735.40 | 8,696.48 | 38.92 | 224.429 | | |
| 2,200.00 | 2,149.43 | 3,952.80 | 3,746.86 | 11.15 | 30.87 | 80.68 | -1,470.42 | -8,538.45 | 8,711.87 | 8,672.01 | 39.85 | 218.598 | | |
| 2,300.00 | 2,246.07 | 3,989.57 | 3,780.84 | 11.66 | 31.19 | 80.82 | -1,457.16 | -8,533.80 | 8,689.08 | 8,648.36 | 40.72 | 213.391 | | |
| 2,400.00 | 2,342.71 | 4,035.54 | 3,823.26 | 12.18 | 31.60 | 81.00 | -1,440.32 | -8,528.26 | 8,667.03 | 8,625.36 | 41.67 | 208.012 | | |
| 2,500.00 | 2,439.34 | 4,102.65 | 3,885.09 | 12.70 | 32.20 | 81.27 | -1,415.47 | -8,520.37 | 8,645.53 | 8,602.74 | 42.79 | 202.025 | | |
| 2,600.00 | 2,535.98 | 4,161.38 | 3,939.18 | 13.22 | 32.73 | 81.50 | -1,393.62 | -8,513.58 | 8,624.56 | 8,580.70 | 43.86 | 196.637 | | |
| 2,700.00 | 2,632.62 | 4,230.63 | 4,003.06 | 13.75 | 33.34 | 81.78 | -1,368.03 | -8,505.72 | 8,604.15 | 8,559.14 | 45.02 | 191.138 | | |
| 2,800.00 | 2,729.26 | 4,638.14 | 4,373.06 | 14.27 | 37.20 | 83.47 | -1,206.46 | -8,452.25 | 8,581.42 | 8,532.31 | 49.11 | 174.745 | | |
| 2,900.00 | 2,825.89 | 4,679.00 | 4,409.34 | 14.80 | 37.61 | 83.65 | -1,188.57 | -8,446.49 | 8,558.93 | 8,508.83 | 50.10 | 170.834 | | |
| 3,000.00 | 2,922.53 | 4,728.69 | 4,453.61 | 15.32 | 38.11 | 83.87 | -1,167.08 | -8,439.60 | 8,537.14 | 8,485.97 | 51.17 | 166.838 | | |
| 3,100.00 | 3,019.17 | 4,774.00 | 4,494.17 | 15.85 | 38.57 | 84.07 | -1,147.80 | -8,433.61 | 8,516.24 | 8,464.04 | 52.20 | 163.140 | | |
| 3,200.00 | 3,115.81 | 4,774.00 | 4,494.17 | 16.38 | 38.57 | 84.07 | -1,147.80 | -8,433.61 | 8,496.19 | 8,443.38 | 52.82 | 160.853 | | |
| 3,300.00 | 3,212.44 | 4,828.59 | 4,543.41 | 16.91 | 39.09 | 84.31 | -1,125.25 | -8,426.71 | 8,476.89 | 8,422.97 | 53.92 | 157.214 | | |
| 3,400.00 | 3,309.08 | 4,869.00 | 4,580.16 | 17.44 | 39.48 | 84.48 | -1,109.20 | -8,421.79 | 8,458.46 | 8,403.57 | 54.89 | 154.085 | | |
| 3,500.00 | 3,405.72 | 4,940.02 | 4,645.20 | 17.97 | 40.13 | 84.77 | -1,081.98 | -8,413.23 | 8,440.69 | 8,384.58 | 56.11 | 150.423 | | |
| 3,600.00 | 3,502.36 | 5,031.97 | 4,729.65 | 18.50 | 40.97 | 85.15 | -1,047.38 | -8,402.00 | 8,423.26 | 8,365.75 | 57.51 | 146.468 | | |
| 3,700.00 | 3,598.99 | 5,085.75 | 4,778.84 | 19.03 | 41.46 | 85.38 | -1,026.66 | -8,395.46 | 8,406.25 | 8,347.66 | 58.59 | 143.487 | | |
| 3,800.00 | 3,695.63 | 5,125.52 | 4,815.36 | 19.57 | 41.82 | 85.55 | -1,011.61 | -8,390.78 | 8,390.00 | 8,330.46 | 59.54 | 140.905 | | |
| 3,900.00 | 3,792.27 | 5,152.00 | 4,839.75 | 20.10 | 42.06 | 85.66 | -1,001.77 | -8,387.75 | 8,374.57 | 8,314.18 | 60.39 | 138.679 | | |
| 4,000.00 | 3,888.91 | 5,206.41 | 4,890.11 | 20.63 | 42.54 | 85.88 | -982.04 | -8,381.75 | 8,359.87 | 8,298.42 | 61.45 | 136.042 | | |
| 4,100.00 | 3,985.54 | 5,247.00 | 4,927.86 | 21.17 | 42.89 | 86.04 | -967.78 | -8,377.47 | 8,345.97 | 8,283.57 | 62.40 | 133.750 | | |
| 4,200.00 | 4,082.18 | 5,289.42 | 4,967.51 | 21.70 | 43.24 | 86.21 | -953.33 | -8,373.18 | 8,332.85 | 8,269.50 | 63.35 | 131.547 | | |
| 4,300.00 | 4,178.82 | 5,342.00 | 5,016.93 | 22.24 | 43.68 | 86.41 | -936.11 | -8,368.10 | 8,320.50 | 8,256.13 | 64.37 | 129.263 | | |
| 4,400.00 | 4,275.46 | 5,342.00 | 5,016.93 | 22.77 | 43.68 | 86.41 | -936.11 | -8,368.10 | 8,309.02 | 8,244.04 | 64.98 | 127.876 | | |
| 4,500.00 | 4,372.09 | 5,397.53 | 5,069.54 | 23.31 | 44.10 | 86.62 | -919.04 | -8,363.18 | 8,298.24 | 8,232.25 | 65.99 | 125.758 | | |
| 4,600.00 | 4,468.73 | 5,437.00 | 5,107.25 | 23.84 | 44.40 | 86.77 | -907.80 | -8,360.04 | 8,288.42 | 8,221.54 | 66.88 | 123.938 | | |
| 4,700.00 | 4,565.37 | 5,468.52 | 5,137.51 | 24.38 | 44.61 | 86.88 | -899.32 | -8,357.71 | 8,279.42 | 8,211.74 | 67.68 | 122.330 | | |
| 4,800.00 | 4,662.01 | 5,509.40 | 5,176.95 | 24.91 | 44.89 | 87.02 | -888.93 | -8,354.89 | 8,271.22 | 8,202.67 | 68.55 | 120.668 | | |
| 4,900.00 | 4,758.64 | 5,601.68 | 5,266.54 | 25.45 | 45.48 | 87.32 | -867.64 | -8,348.92 | 8,263.65 | 8,193.94 | 69.71 | 118.544 | | |
| 5,000.00 | 4,855.28 | 5,680.41 | 5,343.43 | 25.99 | 45.94 | 87.57 | -851.57 | -8,343.70 | 8,256.17 | 8,185.42 | 70.75 | 116.700 | | |
| 5,100.00 | 4,951.92 | 5,825.84 | 5,486.48 | 26.53 | 46.72 | 87.99 | -827.17 | -8,334.17 | 8,248.99 | 8,176.90 | 72.08 | 114.437 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-42-11(PR_150CC) - OH - MWD | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 57-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,849.41 | 5,509.74 | 27.06 | 46.83 | 88.06 | -823.69 | -8,332.67 | 8,241.89 | 8,169.11 | 72.78 | 113.248 | | |
| 5,300.00 | 5,145.19 | 5,909.00 | 5,568.71 | 27.60 | 47.12 | 88.22 | -815.79 | -8,329.38 | 8,235.71 | 8,162.07 | 73.64 | 111.841 | | |
| 5,400.00 | 5,241.83 | 5,930.98 | 5,590.51 | 28.14 | 47.22 | 88.28 | -813.16 | -8,328.31 | 8,230.14 | 8,155.82 | 74.31 | 110.750 | | |
| 5,500.00 | 5,338.47 | 6,003.00 | 5,661.98 | 28.67 | 47.53 | 88.46 | -804.98 | -8,324.90 | 8,225.11 | 8,149.91 | 75.20 | 109.383 | | |
| 5,600.00 | 5,435.11 | 6,071.28 | 5,729.83 | 29.21 | 47.81 | 88.63 | -797.95 | -8,321.90 | 8,220.50 | 8,144.45 | 76.04 | 108.101 | | |
| 5,700.00 | 5,531.74 | 6,124.04 | 5,782.31 | 29.75 | 48.02 | 88.76 | -793.02 | -8,319.83 | 8,216.44 | 8,139.62 | 76.82 | 106.951 | | |
| 5,800.00 | 5,628.38 | 6,170.52 | 5,828.59 | 30.29 | 48.20 | 88.87 | -788.90 | -8,318.29 | 8,213.05 | 8,135.48 | 77.57 | 105.878 | | |
| 5,900.00 | 5,725.02 | 6,223.91 | 5,881.76 | 30.83 | 48.40 | 89.00 | -784.34 | -8,316.83 | 8,210.32 | 8,131.98 | 78.34 | 104.802 | | |
| 6,000.00 | 5,821.66 | 6,286.00 | 5,943.60 | 31.37 | 48.64 | 89.15 | -778.86 | -8,315.40 | 8,208.15 | 8,129.01 | 79.14 | 103.713 | | |
| 6,100.00 | 5,918.29 | 6,366.16 | 6,023.46 | 31.90 | 48.94 | 89.33 | -772.12 | -8,313.80 | 8,206.39 | 8,126.38 | 80.01 | 102.568 | | |
| 6,200.00 | 6,014.93 | 6,450.97 | 6,108.03 | 32.44 | 49.24 | 89.53 | -765.90 | -8,312.27 | 8,204.88 | 8,124.00 | 80.88 | 101.447 | | |
| 6,300.00 | 6,111.57 | 6,538.74 | 6,195.61 | 32.98 | 49.54 | 89.73 | -760.30 | -8,310.85 | 8,203.60 | 8,121.85 | 81.74 | 100.358 | | |
| 6,400.00 | 6,208.21 | 6,604.71 | 6,261.46 | 33.52 | 49.76 | 89.87 | -756.64 | -8,309.93 | 8,202.59 | 8,120.07 | 82.52 | 99.400 | | |
| 6,500.00 | 6,304.84 | 6,665.00 | 6,321.68 | 34.06 | 49.95 | 90.00 | -753.72 | -8,309.45 | 8,202.16 | 8,118.89 | 83.27 | 98.499 | | |
| 6,600.00 | 6,401.37 | 6,743.18 | 6,399.79 | 34.60 | 50.18 | 90.18 | -750.53 | -8,309.13 | 8,199.98 | 8,115.92 | 84.07 | 97.542 | | |
| 6,700.00 | 6,496.25 | 6,864.91 | 6,521.47 | 35.12 | 50.54 | 91.40 | -746.83 | -8,308.62 | 8,184.04 | 8,099.07 | 84.97 | 96.318 | | |
| 6,800.00 | 6,587.15 | 6,954.40 | 6,610.93 | 35.59 | 50.79 | 93.55 | -744.62 | -8,308.14 | 8,152.89 | 8,067.17 | 85.72 | 95.111 | | |
| 6,900.00 | 6,671.83 | 7,040.35 | 6,696.86 | 36.03 | 51.03 | 93.31 | -742.66 | -8,307.67 | 8,107.45 | 8,021.04 | 86.41 | 93.821 | | |
| 7,000.00 | 6,748.21 | 7,119.08 | 6,775.57 | 36.41 | 51.24 | 93.19 | -741.04 | -8,307.24 | 8,048.85 | 7,961.81 | 87.04 | 92.478 | | |
| 7,100.00 | 6,814.41 | 7,187.33 | 6,843.81 | 36.76 | 51.43 | 92.20 | -739.83 | -8,306.86 | 7,978.50 | 7,890.93 | 87.58 | 91.104 | | |
| 7,200.00 | 6,868.79 | 7,243.34 | 6,899.81 | 37.07 | 51.59 | 93.20 | -738.97 | -8,306.54 | 7,898.14 | 7,810.11 | 88.03 | 89.722 | | |
| 7,300.00 | 6,910.01 | 7,283.87 | 6,940.33 | 37.39 | 51.69 | 93.99 | -738.41 | -8,306.32 | 7,809.75 | 7,721.36 | 88.38 | 88.363 | | |
| 7,400.00 | 6,937.07 | 7,310.54 | 6,967.00 | 37.76 | 51.77 | 93.88 | -738.07 | -8,306.17 | 7,715.47 | 7,626.82 | 88.65 | 87.037 | | |
| 7,500.00 | 6,949.29 | 7,322.29 | 6,978.75 | 38.27 | 51.80 | 93.66 | -737.93 | -8,306.11 | 7,617.61 | 7,528.79 | 88.82 | 85.764 | | |
| 7,600.00 | 6,949.75 | 7,322.20 | 6,978.66 | 39.02 | 51.80 | 93.27 | -737.93 | -8,306.11 | 7,518.53 | 7,429.60 | 88.93 | 84.545 | | |
| 7,700.00 | 6,949.37 | 7,321.26 | 6,977.72 | 40.05 | 51.79 | 93.22 | -737.94 | -8,306.11 | 7,419.43 | 7,330.39 | 89.04 | 83.328 | | |
| 7,800.00 | 6,948.99 | 7,320.32 | 6,976.78 | 41.35 | 51.79 | 93.16 | -737.95 | -8,306.12 | 7,320.36 | 7,231.20 | 89.16 | 82.107 | | |
| 7,900.00 | 6,948.61 | 7,319.38 | 6,975.84 | 42.86 | 51.79 | 93.11 | -737.96 | -8,306.12 | 7,221.31 | 7,132.03 | 89.28 | 80.881 | | |
| 8,000.00 | 6,948.23 | 7,318.44 | 6,974.90 | 44.53 | 51.79 | 93.06 | -737.97 | -8,306.13 | 7,122.29 | 7,032.88 | 89.42 | 79.651 | | |
| 8,100.00 | 6,947.85 | 7,317.50 | 6,973.96 | 46.34 | 51.78 | 93.00 | -737.99 | -8,306.13 | 7,023.30 | 6,933.74 | 89.56 | 78.417 | | |
| 8,200.00 | 6,947.47 | 7,316.56 | 6,973.02 | 48.26 | 51.78 | 92.95 | -738.00 | -8,306.14 | 6,924.34 | 6,834.62 | 89.72 | 77.179 | | |
| 8,300.00 | 6,947.09 | 7,315.62 | 6,972.08 | 50.28 | 51.78 | 92.90 | -738.01 | -8,306.14 | 6,825.41 | 6,735.52 | 89.88 | 75.937 | | |
| 8,400.00 | 6,946.72 | 7,314.68 | 6,971.14 | 52.39 | 51.78 | 92.84 | -738.02 | -8,306.15 | 6,726.51 | 6,636.45 | 90.06 | 74.690 | | |
| 8,500.00 | 6,946.34 | 7,313.74 | 6,970.20 | 54.56 | 51.77 | 92.79 | -738.03 | -8,306.15 | 6,627.64 | 6,537.39 | 90.25 | 73.439 | | |
| 8,600.00 | 6,945.96 | 7,312.80 | 6,969.26 | 56.80 | 51.77 | 92.73 | -738.04 | -8,306.16 | 6,528.80 | 6,438.36 | 90.45 | 72.184 | | |
| 8,700.00 | 6,945.58 | 7,311.85 | 6,968.31 | 59.10 | 51.77 | 92.68 | -738.06 | -8,306.16 | 6,430.00 | 6,339.34 | 90.66 | 70.925 | | |
| 8,800.00 | 6,945.20 | 7,310.91 | 6,967.37 | 61.44 | 51.77 | 92.63 | -738.07 | -8,306.17 | 6,331.24 | 6,240.36 | 90.89 | 69.661 | | |
| 8,900.00 | 6,944.82 | 7,309.97 | 6,966.43 | 63.83 | 51.76 | 92.57 | -738.08 | -8,306.18 | 6,232.52 | 6,141.39 | 91.13 | 68.393 | | |
| 9,000.00 | 6,944.44 | 7,309.02 | 6,965.48 | 66.25 | 51.76 | 92.52 | -738.09 | -8,306.18 | 6,133.84 | 6,042.46 | 91.38 | 67.121 | | |
| 9,100.00 | 6,944.06 | 7,308.08 | 6,964.54 | 68.71 | 51.76 | 92.46 | -738.10 | -8,306.19 | 6,035.20 | 5,943.55 | 91.66 | 65.845 | | |
| 9,200.00 | 6,943.68 | 7,307.13 | 6,963.59 | 71.20 | 51.76 | 92.41 | -738.11 | -8,306.19 | 5,936.61 | 5,844.67 | 91.95 | 64.565 | | |
| 9,300.00 | 6,943.30 | 7,306.19 | 6,962.65 | 73.72 | 51.75 | 92.36 | -738.13 | -8,306.20 | 5,838.07 | 5,745.81 | 92.26 | 63.281 | | |
| 9,400.00 | 6,942.92 | 7,305.24 | 6,961.70 | 76.26 | 51.75 | 92.30 | -738.14 | -8,306.20 | 5,739.58 | 5,646.99 | 92.58 | 61.994 | | |
| 9,500.00 | 6,942.54 | 7,304.30 | 6,960.76 | 78.82 | 51.75 | 92.25 | -738.15 | -8,306.21 | 5,641.13 | 5,548.20 | 92.93 | 60.702 | | |
| 9,600.00 | 6,942.16 | 7,303.35 | 6,959.81 | 81.40 | 51.75 | 92.19 | -738.16 | -8,306.21 | 5,542.75 | 5,449.45 | 93.30 | 59.407 | | |
| 9,700.00 | 6,941.78 | 7,302.40 | 6,958.86 | 84.00 | 51.74 | 92.14 | -738.17 | -8,306.22 | 5,444.42 | 5,350.73 | 93.70 | 58.108 | | |
| 9,800.00 | 6,941.40 | 7,301.45 | 6,957.91 | 86.62 | 51.74 | 92.09 | -738.19 | -8,306.22 | 5,346.16 | 5,252.05 | 94.11 | 56.805 | | |
| 9,900.00 | 6,941.03 | 7,300.50 | 6,956.97 | 89.25 | 51.74 | 92.03 | -738.20 | -8,306.23 | 5,247.96 | 5,153.40 | 94.56 | 55.500 | | |
| 10,000.00 | 6,940.65 | 7,299.55 | 6,956.02 | 91.90 | 51.74 | 91.98 | -738.21 | -8,306.23 | 5,149.83 | 5,054.80 | 95.03 | 54.191 | | |
| 10,100.00 | 6,940.27 | 7,298.61 | 6,955.07 | 94.56 | 51.73 | 91.92 | -738.22 | -8,306.24 | 5,051.77 | 4,956.24 | 95.53 | 52.880 | | |
| 10,200.00 | 6,939.89 | 7,297.66 | 6,954.12 | 97.23 | 51.73 | 91.87 | -738.23 | -8,306.24 | 4,953.79 | 4,857.73 | 96.07 | 51.566 | | |
| 10,300.00 | 6,939.51 | 7,296.70 | 6,953.17 | 99.91 | 51.73 | 91.81 | -738.25 | -8,306.25 | 4,855.90 | 4,759.26 | 96.63 | 50.250 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 17-42-11(PR_150CC) - OH - MWD | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 57-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 7,295.75 | 6,952.22 | 102.60 | 51.73 | 91.76 | -738.26 | -8,306.25 | 4,758.09 | 4,660.85 | 97.24 | 48.932 | | |
| 10,500.00 | 6,938.75 | 7,294.80 | 6,951.26 | 105.30 | 51.72 | 91.71 | -738.27 | -8,306.26 | 4,660.37 | 4,562.49 | 97.88 | 47.613 | | |
| 10,600.00 | 6,938.37 | 7,293.85 | 6,950.31 | 108.00 | 51.72 | 91.65 | -738.28 | -8,306.26 | 4,562.75 | 4,464.19 | 98.56 | 46.292 | | |
| 10,700.00 | 6,937.99 | 7,292.90 | 6,949.36 | 110.72 | 51.72 | 91.60 | -738.29 | -8,306.27 | 4,465.24 | 4,365.95 | 99.29 | 44.971 | | |
| 10,800.00 | 6,937.61 | 7,291.94 | 6,948.41 | 113.44 | 51.72 | 91.54 | -738.31 | -8,306.27 | 4,367.84 | 4,267.77 | 100.07 | 43.649 | | |
| 10,900.00 | 6,937.23 | 7,290.99 | 6,947.45 | 116.17 | 51.71 | 91.49 | -738.32 | -8,306.28 | 4,270.56 | 4,169.67 | 100.89 | 42.328 | | |
| 11,000.00 | 6,936.85 | 7,290.04 | 6,946.50 | 118.90 | 51.71 | 91.43 | -738.33 | -8,306.28 | 4,173.41 | 4,071.64 | 101.77 | 41.008 | | |
| 11,100.00 | 6,936.47 | 7,289.08 | 6,945.54 | 121.64 | 51.71 | 91.38 | -738.34 | -8,306.29 | 4,076.39 | 3,973.68 | 102.71 | 39.689 | | |
| 11,200.00 | 6,936.09 | 7,288.13 | 6,944.59 | 124.39 | 51.71 | 91.32 | -738.36 | -8,306.29 | 3,979.52 | 3,875.82 | 103.71 | 38.373 | | |
| 11,300.00 | 6,935.71 | 7,287.17 | 6,943.63 | 127.14 | 51.70 | 91.27 | -738.37 | -8,306.30 | 3,882.82 | 3,778.04 | 104.77 | 37.059 | | |
| 11,400.00 | 6,935.34 | 7,286.21 | 6,942.68 | 129.90 | 51.70 | 91.21 | -738.38 | -8,306.31 | 3,786.28 | 3,680.37 | 105.91 | 35.750 | | |
| 11,500.00 | 6,934.96 | 7,285.26 | 6,941.72 | 132.66 | 51.70 | 91.16 | -738.39 | -8,306.31 | 3,689.92 | 3,582.80 | 107.13 | 34.445 | | |
| 11,600.00 | 6,934.58 | 7,284.30 | 6,940.76 | 135.42 | 51.70 | 91.10 | -738.41 | -8,306.32 | 3,593.77 | 3,485.35 | 108.42 | 33.146 | | |
| 11,700.00 | 6,934.20 | 7,283.34 | 6,939.81 | 138.19 | 51.69 | 91.05 | -738.42 | -8,306.32 | 3,497.83 | 3,388.02 | 109.81 | 31.853 | | |
| 11,800.00 | 6,933.82 | 7,282.39 | 6,938.85 | 140.96 | 51.69 | 91.00 | -738.43 | -8,306.33 | 3,402.12 | 3,290.83 | 111.30 | 30.568 | | |
| 11,900.00 | 6,933.44 | 7,281.43 | 6,937.89 | 143.74 | 51.69 | 90.94 | -738.44 | -8,306.33 | 3,306.67 | 3,193.79 | 112.89 | 29.292 | | |
| 12,000.00 | 6,933.06 | 7,280.47 | 6,936.93 | 146.51 | 51.68 | 90.89 | -738.46 | -8,306.34 | 3,211.50 | 3,096.91 | 114.59 | 28.026 | | |
| 12,100.00 | 6,932.68 | 7,279.51 | 6,935.97 | 149.30 | 51.68 | 90.83 | -738.47 | -8,306.34 | 3,116.62 | 3,000.21 | 116.41 | 26.772 | | |
| 12,200.00 | 6,932.30 | 7,278.55 | 6,935.01 | 152.08 | 51.68 | 90.78 | -738.48 | -8,306.35 | 3,022.08 | 2,903.71 | 118.37 | 25.531 | | |
| 12,300.00 | 6,931.92 | 7,277.59 | 6,934.05 | 154.87 | 51.68 | 90.72 | -738.49 | -8,306.35 | 2,927.90 | 2,807.43 | 120.47 | 24.303 | | |
| 12,400.00 | 6,931.54 | 7,276.63 | 6,933.09 | 157.66 | 51.67 | 90.67 | -738.51 | -8,306.36 | 2,834.12 | 2,711.39 | 122.73 | 23.092 | | |
| 12,500.00 | 6,931.16 | 7,275.66 | 6,932.13 | 160.45 | 51.67 | 90.61 | -738.52 | -8,306.36 | 2,740.77 | 2,615.61 | 125.16 | 21.898 | | |
| 12,600.00 | 6,930.78 | 7,274.70 | 6,931.17 | 163.24 | 51.67 | 90.55 | -738.53 | -8,306.37 | 2,647.92 | 2,520.14 | 127.77 | 20.724 | | |
| 12,700.00 | 6,930.40 | 7,273.74 | 6,930.20 | 166.04 | 51.67 | 90.50 | -738.55 | -8,306.37 | 2,555.60 | 2,425.01 | 130.59 | 19.570 | | |
| 12,800.00 | 6,930.03 | 7,272.78 | 6,929.24 | 168.84 | 51.66 | 90.44 | -738.56 | -8,306.38 | 2,463.88 | 2,330.25 | 133.62 | 18.439 | | |
| 12,900.00 | 6,929.65 | 7,271.81 | 6,928.28 | 171.64 | 51.66 | 90.39 | -738.57 | -8,306.38 | 2,372.83 | 2,235.93 | 136.90 | 17.333 | | |
| 13,000.00 | 6,929.27 | 7,270.85 | 6,927.31 | 174.44 | 51.66 | 90.33 | -738.59 | -8,306.39 | 2,282.53 | 2,142.09 | 140.44 | 16.253 | | |
| 13,100.00 | 6,928.89 | 7,269.88 | 6,926.35 | 177.24 | 51.66 | 90.28 | -738.60 | -8,306.40 | 2,193.06 | 2,048.81 | 144.26 | 15.203 | | |
| 13,200.00 | 6,928.51 | 7,268.92 | 6,925.38 | 180.05 | 51.65 | 90.22 | -738.61 | -8,306.40 | 2,104.55 | 1,956.17 | 148.39 | 14.183 | | |
| 13,300.00 | 6,928.13 | 7,267.95 | 6,924.42 | 182.86 | 51.65 | 90.17 | -738.62 | -8,306.41 | 2,017.11 | 1,864.26 | 152.86 | 13.196 | | |
| 13,400.00 | 6,927.75 | 7,266.99 | 6,923.45 | 185.67 | 51.65 | 90.11 | -738.64 | -8,306.41 | 1,930.89 | 1,773.21 | 157.69 | 12.245 | | |
| 13,500.00 | 6,927.37 | 7,266.02 | 6,922.48 | 188.48 | 51.65 | 90.06 | -738.65 | -8,306.42 | 1,846.07 | 1,683.15 | 162.92 | 11.331 | | |
| 13,600.00 | 6,926.99 | 7,265.05 | 6,921.52 | 191.29 | 51.64 | 90.00 | -738.66 | -8,306.42 | 1,762.83 | 1,594.26 | 168.56 | 10.458 | | |
| 13,700.00 | 6,926.61 | 7,264.08 | 6,920.55 | 194.10 | 51.64 | 89.95 | -738.68 | -8,306.43 | 1,681.42 | 1,506.76 | 174.66 | 9.627 | | |
| 13,800.00 | 6,926.23 | 7,263.12 | 6,919.58 | 196.92 | 51.64 | 89.89 | -738.69 | -8,306.43 | 1,602.11 | 1,420.89 | 181.22 | 8.841 | | |
| 13,900.00 | 6,925.85 | 7,262.15 | 6,918.61 | 199.73 | 51.64 | 89.84 | -738.70 | -8,306.44 | 1,525.24 | 1,336.98 | 188.26 | 8.102 | | |
| 14,000.00 | 6,925.47 | 7,261.18 | 6,917.64 | 202.55 | 51.63 | 89.78 | -738.72 | -8,306.44 | 1,451.19 | 1,255.42 | 195.77 | 7.413 | | |
| 14,100.00 | 6,925.09 | 7,260.21 | 6,916.67 | 205.37 | 51.63 | 89.72 | -738.73 | -8,306.45 | 1,380.41 | 1,176.69 | 203.72 | 6.776 | | |
| 14,200.00 | 6,924.71 | 7,259.24 | 6,915.70 | 208.19 | 51.63 | 89.67 | -738.74 | -8,306.45 | 1,313.44 | 1,101.38 | 212.06 | 6.194 | | |
| 14,300.00 | 6,924.34 | 7,258.27 | 6,914.73 | 211.01 | 51.62 | 89.61 | -738.76 | -8,306.46 | 1,250.89 | 1,030.20 | 220.68 | 5.668 | | |
| 14,400.00 | 6,923.96 | 7,257.29 | 6,913.76 | 213.83 | 51.62 | 89.56 | -738.77 | -8,306.47 | 1,193.44 | 964.02 | 229.42 | 5.202 | | |
| 14,500.00 | 6,923.58 | 7,256.32 | 6,912.79 | 216.65 | 51.62 | 89.50 | -738.78 | -8,306.47 | 1,141.88 | 903.83 | 238.05 | 4.797 | | |
| 14,600.00 | 6,923.20 | 7,255.35 | 6,911.82 | 219.48 | 51.62 | 89.45 | -738.80 | -8,306.48 | 1,097.03 | 850.76 | 246.27 | 4.455 | | |
| 14,700.00 | 6,922.82 | 7,254.38 | 6,911.09 | 222.30 | 51.62 | 89.40 | -738.81 | -8,306.48 | 1,059.74 | 806.03 | 253.72 | 4.177 | | |
| 14,800.00 | 6,922.44 | 7,253.64 | 6,910.10 | 225.13 | 51.61 | 89.35 | -738.82 | -8,306.48 | 1,030.84 | 770.84 | 260.00 | 3.965 | | |
| 14,900.00 | 6,922.06 | 7,252.64 | 6,909.11 | 227.95 | 51.61 | 89.29 | -738.84 | -8,306.49 | 1,011.05 | 746.30 | 264.75 | 3.819 | | |
| 14,915.55 | 6,922.00 | 7,252.49 | 6,908.96 | 228.39 | 51.61 | 89.28 | -738.84 | -8,306.49 | 1,008.82 | 743.49 | 265.33 | 3.802 CC, ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 34-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 168-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 35.00 | 3.28 | 3.28 | -106.91 | -2,736.84 | -9,002.46 | 9,409.34 | | | | | |
| 100.00 | 100.00 | 37.08 | 72.08 | 3.28 | 3.28 | -106.91 | -2,736.76 | -9,002.54 | 9,409.37 | 9,402.81 | 6.57 | 1,433.127 | | |
| 200.00 | 200.00 | 94.13 | 129.13 | 3.34 | 3.29 | -106.91 | -2,736.32 | -9,002.98 | 9,409.90 | 9,403.28 | 6.62 | 1,420.825 | | |
| 300.00 | 299.98 | 168.00 | 202.98 | 3.44 | 3.30 | 67.72 | -2,735.20 | -9,004.14 | 9,410.25 | 9,403.51 | 6.74 | 1,396.753 | | |
| 400.00 | 399.84 | 168.00 | 202.98 | 3.59 | 3.30 | 67.73 | -2,735.20 | -9,004.14 | 9,409.82 | 9,402.94 | 6.89 | 1,366.253 | | |
| 500.00 | 499.45 | 211.75 | 246.70 | 3.79 | 3.33 | 67.78 | -2,734.35 | -9,005.31 | 9,408.75 | 9,401.63 | 7.11 | 1,322.949 | | |
| 600.00 | 598.70 | 259.00 | 293.90 | 4.03 | 3.37 | 67.85 | -2,733.45 | -9,007.27 | 9,407.31 | 9,399.91 | 7.39 | 1,272.137 | | |
| 700.00 | 697.47 | 259.00 | 293.90 | 4.31 | 3.37 | 67.89 | -2,733.45 | -9,007.27 | 9,405.16 | 9,397.47 | 7.68 | 1,224.350 | | |
| 800.00 | 795.62 | 290.79 | 325.65 | 4.64 | 3.40 | 67.98 | -2,732.94 | -9,008.93 | 9,402.56 | 9,394.52 | 8.04 | 1,169.485 | | |
| 900.00 | 893.06 | 318.39 | 353.20 | 5.00 | 3.44 | 68.07 | -2,732.63 | -9,010.57 | 9,399.44 | 9,391.01 | 8.43 | 1,114.442 | | |
| 1,000.00 | 989.78 | 350.00 | 384.74 | 5.39 | 3.48 | 68.15 | -2,732.44 | -9,012.66 | 9,395.99 | 9,387.13 | 8.87 | 1,059.360 | | |
| 1,100.00 | 1,086.42 | 401.85 | 436.46 | 5.81 | 3.57 | 68.24 | -2,732.29 | -9,016.35 | 9,393.07 | 9,383.70 | 9.37 | 1,002.756 | | |
| 1,200.00 | 1,183.06 | 472.57 | 506.98 | 6.25 | 3.71 | 68.35 | -2,732.15 | -9,021.61 | 9,390.57 | 9,380.63 | 9.93 | 945.476 | | |
| 1,300.00 | 1,279.69 | 532.00 | 566.24 | 6.71 | 3.84 | 68.44 | -2,731.96 | -9,026.14 | 9,388.33 | 9,377.82 | 10.51 | 893.457 | | |
| 1,400.00 | 1,376.33 | 579.71 | 613.79 | 7.17 | 3.96 | 68.52 | -2,731.90 | -9,029.96 | 9,386.63 | 9,375.55 | 11.08 | 847.059 | | |
| 1,500.00 | 1,472.97 | 644.00 | 677.83 | 7.65 | 4.14 | 68.62 | -2,732.24 | -9,035.67 | 9,385.75 | 9,374.04 | 11.72 | 801.174 | | |
| 1,600.00 | 1,569.61 | 658.51 | 692.27 | 8.13 | 4.18 | 68.64 | -2,732.38 | -9,037.04 | 9,385.34 | 9,373.10 | 12.23 | 767.145 | | |
| 1,604.10 | 1,573.57 | 661.18 | 694.93 | 8.15 | 4.19 | 68.65 | -2,732.40 | -9,037.29 | 9,385.34 | 9,373.07 | 12.26 | 765.458 | | |
| 1,700.00 | 1,666.24 | 728.16 | 761.59 | 8.62 | 4.39 | 68.75 | -2,733.16 | -9,043.70 | 9,385.52 | 9,372.60 | 12.91 | 726.805 | | |
| 1,800.00 | 1,762.88 | 846.41 | 879.31 | 9.12 | 4.79 | 68.94 | -2,734.66 | -9,054.88 | 9,385.69 | 9,371.93 | 13.76 | 682.024 | | |
| 1,900.00 | 1,859.52 | 948.69 | 981.11 | 9.62 | 5.16 | 69.10 | -2,735.30 | -9,064.73 | 9,385.96 | 9,371.37 | 14.59 | 643.309 | | |
| 2,000.00 | 1,956.16 | 1,096.00 | 1,127.81 | 10.13 | 5.72 | 69.33 | -2,735.38 | -9,078.07 | 9,385.46 | 9,369.85 | 15.60 | 601.518 | | |
| 2,060.33 | 2,014.46 | 1,133.50 | 1,165.17 | 10.43 | 5.87 | 69.40 | -2,735.30 | -9,081.38 | 9,385.21 | 9,369.17 | 16.04 | 585.029 | | |
| 2,100.00 | 2,052.79 | 1,143.41 | 1,175.03 | 10.64 | 5.90 | 69.41 | -2,735.27 | -9,082.33 | 9,385.27 | 9,368.99 | 16.28 | 576.544 | | |
| 2,200.00 | 2,149.43 | 1,190.00 | 1,221.36 | 11.15 | 6.09 | 69.49 | -2,735.01 | -9,087.23 | 9,386.09 | 9,369.14 | 16.96 | 553.547 | | |
| 2,300.00 | 2,246.07 | 1,190.00 | 1,221.36 | 11.66 | 6.09 | 69.49 | -2,735.01 | -9,087.23 | 9,387.53 | 9,370.07 | 17.46 | 537.548 | | |
| 2,400.00 | 2,342.71 | 1,225.73 | 1,256.85 | 12.18 | 6.24 | 69.55 | -2,734.76 | -9,091.41 | 9,389.83 | 9,371.73 | 18.11 | 518.565 | | |
| 2,500.00 | 2,439.34 | 1,285.00 | 1,315.63 | 12.70 | 6.50 | 69.65 | -2,734.38 | -9,098.96 | 9,393.00 | 9,374.16 | 18.84 | 498.445 | | |
| 2,600.00 | 2,535.98 | 1,285.00 | 1,315.63 | 13.22 | 6.50 | 69.65 | -2,734.38 | -9,098.96 | 9,396.66 | 9,377.31 | 19.35 | 485.524 | | |
| 2,700.00 | 2,632.62 | 1,323.61 | 1,353.88 | 13.75 | 6.67 | 69.71 | -2,734.30 | -9,104.23 | 9,401.17 | 9,381.15 | 20.01 | 469.719 | | |
| 2,800.00 | 2,729.26 | 1,379.00 | 1,408.70 | 14.27 | 6.92 | 69.81 | -2,734.78 | -9,112.16 | 9,406.45 | 9,385.70 | 20.74 | 453.450 | | |
| 2,900.00 | 2,825.89 | 1,379.00 | 1,408.70 | 14.80 | 6.92 | 69.81 | -2,734.78 | -9,112.16 | 9,412.33 | 9,391.08 | 21.25 | 442.894 | | |
| 3,000.00 | 2,922.53 | 1,428.37 | 1,457.48 | 15.32 | 7.16 | 69.89 | -2,735.30 | -9,119.70 | 9,418.92 | 9,396.96 | 21.96 | 428.902 | | |
| 3,100.00 | 3,019.17 | 1,475.00 | 1,503.49 | 15.85 | 7.38 | 69.97 | -2,735.43 | -9,127.31 | 9,426.26 | 9,403.60 | 22.66 | 415.994 | | |
| 3,200.00 | 3,115.81 | 1,500.23 | 1,528.35 | 16.38 | 7.50 | 70.01 | -2,735.44 | -9,131.61 | 9,434.25 | 9,410.98 | 23.27 | 405.417 | | |
| 3,300.00 | 3,212.44 | 1,537.89 | 1,565.43 | 16.91 | 7.69 | 70.07 | -2,735.57 | -9,138.19 | 9,442.93 | 9,419.00 | 23.93 | 394.543 | | |
| 3,400.00 | 3,309.08 | 1,570.00 | 1,597.02 | 17.44 | 7.85 | 70.13 | -2,735.79 | -9,143.96 | 9,452.28 | 9,427.71 | 24.57 | 384.660 | | |
| 3,500.00 | 3,405.72 | 1,621.43 | 1,647.55 | 17.97 | 8.12 | 70.21 | -2,736.19 | -9,153.49 | 9,462.25 | 9,436.95 | 25.30 | 374.044 | | |
| 3,600.00 | 3,502.36 | 1,665.00 | 1,690.32 | 18.50 | 8.34 | 70.29 | -2,736.45 | -9,161.83 | 9,472.81 | 9,446.83 | 25.99 | 364.517 | | |
| 3,700.00 | 3,598.99 | 1,695.58 | 1,720.29 | 19.03 | 8.51 | 70.34 | -2,736.60 | -9,167.88 | 9,484.05 | 9,457.43 | 26.62 | 356.272 | | |
| 3,800.00 | 3,695.63 | 1,725.34 | 1,749.42 | 19.57 | 8.67 | 70.39 | -2,736.73 | -9,173.98 | 9,496.03 | 9,468.78 | 27.25 | 348.502 | | |
| 3,900.00 | 3,792.27 | 1,759.00 | 1,782.31 | 20.10 | 8.85 | 70.45 | -2,736.84 | -9,181.13 | 9,508.75 | 9,480.85 | 27.89 | 340.906 | | |
| 4,000.00 | 3,888.91 | 1,788.98 | 1,811.57 | 20.63 | 9.02 | 70.50 | -2,737.06 | -9,187.67 | 9,522.18 | 9,493.66 | 28.52 | 333.886 | | |
| 4,100.00 | 3,985.54 | 1,823.75 | 1,845.47 | 21.17 | 9.22 | 70.56 | -2,737.65 | -9,195.40 | 9,536.30 | 9,507.13 | 29.17 | 326.958 | | |
| 4,200.00 | 4,082.18 | 1,853.00 | 1,873.94 | 21.70 | 9.39 | 70.61 | -2,738.42 | -9,202.02 | 9,551.10 | 9,521.31 | 29.79 | 320.650 | | |
| 4,300.00 | 4,178.82 | 1,918.21 | 1,937.37 | 22.24 | 9.77 | 70.71 | -2,740.41 | -9,217.04 | 9,566.43 | 9,535.85 | 30.58 | 312.861 | | |
| 4,400.00 | 4,275.46 | 1,977.48 | 1,994.96 | 22.77 | 10.13 | 70.81 | -2,742.19 | -9,230.96 | 9,582.21 | 9,550.87 | 31.34 | 305.742 | | |
| 4,500.00 | 4,372.09 | 2,042.00 | 2,057.58 | 23.31 | 10.52 | 70.91 | -2,744.10 | -9,246.34 | 9,598.40 | 9,566.27 | 32.13 | 298.726 | | |
| 4,600.00 | 4,468.73 | 2,042.00 | 2,057.58 | 23.84 | 10.52 | 70.91 | -2,744.10 | -9,246.34 | 9,615.28 | 9,582.67 | 32.60 | 294.921 | | |
| 4,700.00 | 4,565.37 | 2,042.00 | 2,057.58 | 24.38 | 10.52 | 70.91 | -2,744.10 | -9,246.34 | 9,633.16 | 9,600.09 | 33.07 | 291.294 | | |
| 4,800.00 | 4,662.01 | 2,042.00 | 2,057.58 | 24.91 | 10.52 | 70.91 | -2,744.10 | -9,246.34 | 9,652.04 | 9,618.51 | 33.53 | 287.838 | | |
| 4,900.00 | 4,758.64 | 2,093.96 | 2,107.77 | 25.45 | 10.85 | 71.00 | -2,745.52 | -9,259.70 | 9,670.91 | 9,636.65 | 34.26 | 282.301 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 34-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|---------|--------------------|---------|
| Survey Program: 168-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 5,000.00 | 4,855.28 | 2,137.00 | 2,148.98 | 25.99 | 11.14 | 71.07 | -2,746.52 | -9,272.08 | 9,691.56 | 9,656.62 | 34.93 | 277.417 | | |
| 5,100.00 | 4,951.92 | 2,476.40 | 2,476.01 | 26.53 | 13.40 | 71.65 | -2,750.94 | -9,362.44 | 9,710.01 | 9,672.84 | 37.17 | 261.236 | | |
| 5,200.00 | 5,048.56 | 2,513.00 | 2,511.26 | 27.06 | 13.64 | 71.72 | -2,750.34 | -9,372.27 | 9,728.65 | 9,690.83 | 37.82 | 257.212 | | |
| 5,300.00 | 5,145.19 | 2,513.00 | 2,511.26 | 27.60 | 13.64 | 71.72 | -2,750.34 | -9,372.27 | 9,747.93 | 9,709.65 | 38.28 | 254.647 | | |
| 5,400.00 | 5,241.83 | 2,554.40 | 2,551.01 | 28.14 | 13.93 | 71.80 | -2,749.60 | -9,383.81 | 9,768.01 | 9,729.05 | 38.96 | 250.737 | | |
| 5,500.00 | 5,338.47 | 2,609.00 | 2,603.36 | 28.67 | 14.31 | 71.90 | -2,748.90 | -9,399.33 | 9,788.69 | 9,748.98 | 39.70 | 246.539 | | |
| 5,600.00 | 5,435.11 | 2,609.00 | 2,603.36 | 29.21 | 14.31 | 71.90 | -2,748.90 | -9,399.33 | 9,810.00 | 9,769.85 | 40.15 | 244.339 | | |
| 5,700.00 | 5,531.74 | 2,609.00 | 2,603.36 | 29.75 | 14.31 | 71.90 | -2,748.90 | -9,399.33 | 9,832.29 | 9,791.70 | 40.59 | 242.243 | | |
| 5,800.00 | 5,628.38 | 2,658.58 | 2,650.70 | 30.29 | 14.68 | 71.99 | -2,748.61 | -9,414.02 | 9,854.91 | 9,813.61 | 41.30 | 238.600 | | |
| 5,900.00 | 5,725.02 | 2,704.00 | 2,693.83 | 30.83 | 15.02 | 72.07 | -2,748.71 | -9,428.28 | 9,878.75 | 9,836.76 | 41.99 | 235.250 | | |
| 6,000.00 | 5,821.66 | 2,704.00 | 2,693.83 | 31.37 | 15.02 | 72.07 | -2,748.71 | -9,428.28 | 9,903.03 | 9,860.61 | 42.42 | 233.455 | | |
| 6,100.00 | 5,918.29 | 3,264.00 | 3,227.46 | 31.90 | 19.23 | 73.09 | -2,742.55 | -9,596.93 | 9,927.78 | 9,881.71 | 46.07 | 215.506 | | |
| 6,200.00 | 6,014.93 | 3,334.70 | 3,295.51 | 32.44 | 19.74 | 73.20 | -2,744.80 | -9,615.96 | 9,948.31 | 9,901.40 | 46.91 | 212.092 | | |
| 6,300.00 | 6,111.57 | 3,390.89 | 3,349.54 | 32.98 | 20.14 | 73.28 | -2,747.34 | -9,631.22 | 9,969.28 | 9,921.62 | 47.66 | 209.166 | | |
| 6,400.00 | 6,208.21 | 3,453.00 | 3,409.16 | 33.52 | 20.59 | 73.37 | -2,750.93 | -9,648.22 | 9,990.69 | 9,942.24 | 48.45 | 206.203 | | |
| 6,500.00 | 6,304.85 | 3,515.00 | 3,470.70 | 34.06 | 20.99 | 73.46 | -2,754.52 | -9,665.25 | 10,012.00 | 9,963.27 | 49.24 | 203.240 | | |
| 6,600.00 | 6,401.49 | 3,577.00 | 3,537.70 | 34.60 | 21.39 | 73.55 | -2,758.11 | -9,682.28 | 10,033.04 | 9,984.31 | 50.03 | 200.277 | | |
| 7,000.00 | 6,748.21 | 4,300.00 | 4,225.21 | 36.41 | 26.66 | 73.99 | -2,770.96 | -9,873.53 | 9,957.11 | 9,901.48 | 55.63 | 179.001 | | |
| 7,100.00 | 6,844.41 | 4,300.00 | 4,225.21 | 36.76 | 26.66 | 74.05 | -2,770.96 | -9,873.53 | 9,982.42 | 9,946.51 | 55.91 | 177.122 | | |
| 7,200.00 | 6,868.79 | 4,347.84 | 4,271.37 | 37.07 | 27.01 | 74.12 | -2,771.13 | -9,886.07 | 9,835.92 | 9,779.52 | 56.41 | 174.377 | | |
| 7,300.00 | 6,910.01 | 4,390.00 | 4,313.53 | 37.39 | 27.33 | 74.19 | -2,771.31 | -9,898.30 | 9,861.24 | 9,809.04 | 56.91 | 172.502 | | |
| 7,400.00 | 6,937.07 | 4,432.00 | 4,355.60 | 37.76 | 27.65 | 74.26 | -2,771.49 | -9,910.53 | 9,886.56 | 9,834.36 | 57.41 | 170.627 | | |
| 7,500.00 | 6,949.29 | 4,474.00 | 4,397.82 | 38.07 | 27.97 | 74.33 | -2,771.67 | -9,922.76 | 9,911.88 | 9,860.60 | 57.91 | 168.752 | | |
| 7,600.00 | 6,949.75 | 4,516.00 | 4,439.82 | 38.38 | 28.29 | 74.40 | -2,771.85 | -9,934.99 | 9,937.20 | 9,886.04 | 58.41 | 166.877 | | |
| 7,700.00 | 6,949.37 | 4,558.00 | 4,481.82 | 38.69 | 28.61 | 74.47 | -2,772.03 | -9,947.22 | 9,962.64 | 9,911.48 | 58.91 | 165.002 | | |
| 7,800.00 | 6,948.99 | 4,600.00 | 4,523.82 | 39.00 | 28.93 | 74.54 | -2,772.21 | -9,959.45 | 9,988.08 | 9,936.92 | 59.41 | 163.127 | | |
| 7,900.00 | 6,948.61 | 4,642.00 | 4,565.82 | 39.31 | 29.25 | 74.61 | -2,772.39 | -9,971.68 | 10,013.52 | 9,962.36 | 59.91 | 161.252 | | |
| 8,000.00 | 6,948.23 | 4,684.00 | 4,607.82 | 39.62 | 29.57 | 74.68 | -2,772.57 | -9,983.91 | 10,038.96 | 9,987.80 | 60.41 | 159.377 | | |
| 8,100.00 | 6,947.85 | 4,726.00 | 4,649.82 | 39.93 | 29.89 | 74.75 | -2,772.75 | -9,996.14 | 10,064.40 | 10,013.24 | 60.91 | 157.502 | | |
| 8,200.00 | 6,947.47 | 4,768.00 | 4,691.82 | 40.24 | 30.21 | 74.82 | -2,772.93 | -10,008.37 | 10,089.84 | 10,038.68 | 61.41 | 155.627 | | |
| 8,300.00 | 6,947.09 | 4,810.00 | 4,733.82 | 40.55 | 30.53 | 74.89 | -2,773.11 | -10,020.60 | 10,115.28 | 10,064.12 | 61.91 | 153.752 | | |
| 8,400.00 | 6,946.72 | 4,852.00 | 4,775.82 | 40.86 | 30.85 | 74.96 | -2,773.29 | -10,032.83 | 10,140.72 | 10,089.56 | 62.41 | 151.877 | | |
| 8,500.00 | 6,946.34 | 4,894.00 | 4,817.82 | 41.17 | 31.17 | 75.03 | -2,773.47 | -10,045.06 | 10,166.16 | 10,115.00 | 62.91 | 150.002 | | |
| 8,600.00 | 6,945.96 | 4,936.00 | 4,859.82 | 41.48 | 31.49 | 75.10 | -2,773.65 | -10,057.29 | 10,191.60 | 10,140.44 | 63.41 | 148.127 | | |
| 8,700.00 | 6,945.58 | 4,978.00 | 4,901.82 | 41.79 | 31.81 | 75.17 | -2,773.83 | -10,069.52 | 10,217.04 | 10,165.88 | 63.91 | 146.252 | | |
| 8,800.00 | 6,945.20 | 5,020.00 | 4,943.82 | 42.10 | 32.13 | 75.24 | -2,774.01 | -10,081.75 | 10,242.48 | 10,191.32 | 64.41 | 144.377 | | |
| 8,900.00 | 6,944.82 | 5,062.00 | 4,985.82 | 42.41 | 32.45 | 75.31 | -2,774.19 | -10,093.98 | 10,267.92 | 10,216.76 | 64.91 | 142.502 | | |
| 9,000.00 | 6,944.44 | 5,104.00 | 5,027.82 | 42.72 | 32.77 | 75.38 | -2,774.37 | -10,106.21 | 10,293.36 | 10,242.20 | 65.41 | 140.627 | | |
| 9,100.00 | 6,944.06 | 5,146.00 | 5,069.82 | 43.03 | 33.09 | 75.45 | -2,774.55 | -10,118.44 | 10,318.80 | 10,267.64 | 65.91 | 138.752 | | |
| 9,200.00 | 6,943.68 | 5,188.00 | 5,111.82 | 43.34 | 33.41 | 75.52 | -2,774.73 | -10,130.67 | 10,344.24 | 10,293.08 | 66.41 | 136.877 | | |
| 9,300.00 | 6,943.30 | 5,230.00 | 5,153.82 | 43.65 | 33.73 | 75.59 | -2,774.91 | -10,142.90 | 10,369.68 | 10,318.52 | 66.91 | 135.002 | | |
| 9,400.00 | 6,942.92 | 5,272.00 | 5,195.82 | 43.96 | 34.05 | 75.66 | -2,775.09 | -10,155.13 | 10,395.12 | 10,343.96 | 67.41 | 133.127 | | |
| 9,500.00 | 6,942.54 | 5,314.00 | 5,237.82 | 44.27 | 34.37 | 75.73 | -2,775.27 | -10,167.36 | 10,420.56 | 10,369.40 | 67.91 | 131.252 | | |
| 9,600.00 | 6,942.16 | 5,356.00 | 5,279.82 | 44.58 | 34.69 | 75.80 | -2,775.45 | -10,179.59 | 10,446.00 | 10,394.84 | 68.41 | 129.377 | | |
| 9,700.00 | 6,941.78 | 5,398.00 | 5,321.82 | 44.89 | 35.01 | 75.87 | -2,775.63 | -10,191.82 | 10,471.44 | 10,420.28 | 68.91 | 127.502 | | |
| 9,800.00 | 6,941.40 | 5,440.00 | 5,363.82 | 45.20 | 35.33 | 75.94 | -2,775.81 | -10,204.05 | 10,496.88 | 10,445.72 | 69.41 | 125.627 | | |
| 9,900.00 | 6,941.03 | 5,482.00 | 5,405.82 | 45.51 | 35.65 | 76.01 | -2,775.99 | -10,216.28 | 10,522.32 | 10,471.16 | 69.91 | 123.752 | | |
| 10,000.00 | 6,940.65 | 5,524.00 | 5,447.82 | 45.82 | 35.97 | 76.08 | -2,776.17 | -10,228.51 | 10,547.76 | 10,496.60 | 70.41 | 121.877 | | |
| 10,100.00 | 6,940.27 | 5,566.00 | 5,489.82 | 46.13 | 36.29 | 76.15 | -2,776.35 | -10,240.74 | 10,573.20 | 10,522.04 | 70.91 | 120.002 | | |
| 10,200.00 | 6,939.89 | 5,608.00 | 5,531.82 | 46.44 | 36.61 | 76.22 | -2,776.53 | -10,252.97 | 10,598.64 | 10,547.48 | 71.41 | 118.127 | | |
| 10,300.00 | 6,939.51 | 5,650.00 | 5,573.82 | 46.75 | 36.93 | 76.29 | -2,776.71 | -10,265.20 | 10,624.08 | 10,572.92 | 71.91 | 116.252 | | |
| 10,400.00 | 6,939.13 | 5,692.00 | 5,615.82 | 47.06 | 37.25 | 76.36 | -2,776.89 | -10,277.43 | 10,649.52 | 10,598.36 | 72.41 | 114.377 | | |
| 10,500.00 | 6,938.75 | 5,734.00 | 5,657.82 | 47.37 | 37.57 | 76.43 | -2,777.07 | -10,289.66 | 10,674.96 | 10,623.80 | 72.91 | 112.502 | | |
| 10,600.00 | 6,938.37 | 5,776.00 | 5,699.82 | 47.68 | 37.89 | 76.50 | -2,777.25 | -10,301.89 | 10,700.40 | 10,649.24 | 73.41 | 110.627 | | |
| 10,700.00 | 6,937.99 | 5,818.00 | 5,741.82 | 47.99 | 38.21 | 76.57 | -2,777.43 | -10,314.12 | 10,725.84 | 10,674.68 | 73.91 | 108.752 | | |
| 10,800.00 | 6,937.61 | 5,860.00 | 5,783.82 | 48.30 | 38.53 | 76.64 | -2,777.61 | -10,326.35 | 10,751.28 | 10,700.12 | 74.41 | 106.877 | | |
| 10,900.00 | 6,937.23 | 5,902.00 | 5,825.82 | 48.61 | 38.85 | 76.71 | -2,777.79 | -10,338.58 | 10,776.72 | 10,725.56 | 74.91 | 105.002 | | |
| 11,000.00 | 6,936.85 | 5,944.00 | 5,867.82 | 48.92 | 39.17 | 76.78 | -2,777.97 | -10,350.81 | 10,802.16 | 10,751.00 | 75.41 | 103.127 | | |
| 11,100.00 | 6,936.47 | 5,986.00 | 5,909.82 | 49.23 | 39.49 | 76.85 | -2,778.15 | -10,363.04 | 10,827.60 | 10,776.44 | 75.91 | 101.252 | | |
| 11,200.00 | 6,936.09 | 6,028.00 | 5,951.82 | 49.54 | 39.81 | 76.92 | -2,778.33 | -10,375.27 | 10,853.04 | 10,801.88 | 76.41 | 99.377 | | |
| 11,300.00 | 6,935.71 | 6,070.00 | 5,993.82 | 49.85 | 40.13 | 77.00 | -2,778.51 | -10,387.50 | 10,878.48 | 10,827.32 | 76.91 | 97.502 | | |
| 11,400.00 | 6,935.33 | 6,112.00 | 6,035.82 | 50.16 | 40.45 | 77.07 | -2,778.69 | -10,399.73 | 10,903.92 | 10,852.76 | 77.41 | 95.627 | | |
| 11,500.00 | 6,934.95 | 6,154.00 | 6,077.82 | 50.47 | 40.77 | 77.14 | -2,778.87 | -10,411.96 | 10,929.36 | 10,878.20 | 77.91 | 93.752 | | |
| 11,600.00 | 6,934.57 | 6,196.00 | 6,119.82 | 50.78 | 41.09 | 77.21 | -2,779.05 | -10,424.19 | 10,954.80 | 10,903.64 | 78.41 | 91.877 | | |
| 11,700.00 | 6,934.19 | 6,238.00 | 6,161.82 | 51.09 | 41.41 | 77.28 | -2,779.23 | -10,436.42 | 10,980.24 | 10,929.08 | 78.91 | 89.002 | | |
| 11,800.00 | 6,933.81 | 6,280.00 | 6,203.82 | 51.40 | 41.73 | 77.35 | -2,779.41 | -10,448.65 | 11,005.68 | 10,954.52 | 79.41 | 87.127 | | |
| 11,900.00 | 6,933.43 | 6,322.00 | 6,245.82 | 51.71 | 42.05 | 77.42 | -2,779.59 | -10,460.88 | 11,031.12 | 10,980.00 | 79.91 | 85.252 | | |
| 12,000.00 | 6,933.05 | 6,364.00 | 6,287.82 | 52.02 | 42.37 | 77.49 | -2,779.77 | -10,473.11 | 11,056.56 | 11,005.44 | 80.41 | 83.377 | | |
| 12,100.00 | 6,932.67 | 6,406.00 | 6,329.82 | 52.33 | 42.69 | 77.56 | -2,779.95 | -10,485.3 | | | | | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 34-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 168-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,600.00 | 6,938.37 | 6,934.25 | 6,818.00 | 108.00 | 40.42 | -84.64 | -2,773.69 | -10,245.98 | 6,486.10 | 6,416.09 | 70.01 | 92.651 | | |
| 10,700.00 | 6,937.99 | 6,935.31 | 6,819.06 | 110.72 | 40.42 | -84.70 | -2,773.71 | -10,245.99 | 6,387.38 | 6,317.14 | 70.24 | 90.938 | | |
| 10,800.00 | 6,937.61 | 6,936.37 | 6,820.13 | 113.44 | 40.42 | -84.76 | -2,773.72 | -10,246.01 | 6,288.71 | 6,218.21 | 70.49 | 89.212 | | |
| 10,900.00 | 6,937.23 | 6,937.44 | 6,821.19 | 116.17 | 40.43 | -84.82 | -2,773.74 | -10,246.03 | 6,190.07 | 6,119.31 | 70.76 | 87.474 | | |
| 11,000.00 | 6,936.85 | 6,938.51 | 6,822.26 | 118.90 | 40.43 | -84.88 | -2,773.76 | -10,246.05 | 6,091.48 | 6,020.43 | 71.06 | 85.724 | | |
| 11,100.00 | 6,936.47 | 6,939.59 | 6,823.34 | 121.64 | 40.43 | -84.94 | -2,773.77 | -10,246.06 | 5,992.94 | 5,921.56 | 71.38 | 83.962 | | |
| 11,200.00 | 6,936.09 | 6,940.66 | 6,824.42 | 124.39 | 40.44 | -85.00 | -2,773.79 | -10,246.08 | 5,894.45 | 5,822.73 | 71.72 | 82.188 | | |
| 11,300.00 | 6,935.71 | 6,941.75 | 6,825.50 | 127.14 | 40.44 | -85.06 | -2,773.81 | -10,246.10 | 5,796.01 | 5,723.92 | 72.09 | 80.402 | | |
| 11,400.00 | 6,935.34 | 6,942.83 | 6,826.58 | 129.90 | 40.44 | -85.12 | -2,773.83 | -10,246.12 | 5,697.62 | 5,625.13 | 72.48 | 78.604 | | |
| 11,500.00 | 6,934.96 | 6,943.92 | 6,827.67 | 132.66 | 40.45 | -85.18 | -2,773.84 | -10,246.13 | 5,599.29 | 5,526.38 | 72.91 | 76.796 | | |
| 11,600.00 | 6,934.58 | 6,945.02 | 6,828.77 | 135.42 | 40.45 | -85.24 | -2,773.86 | -10,246.15 | 5,501.02 | 5,427.65 | 73.37 | 74.977 | | |
| 11,700.00 | 6,934.20 | 6,946.11 | 6,829.87 | 138.19 | 40.46 | -85.30 | -2,773.88 | -10,246.17 | 5,402.81 | 5,328.95 | 73.86 | 73.149 | | |
| 11,800.00 | 6,933.82 | 6,947.22 | 6,830.97 | 140.96 | 40.46 | -85.36 | -2,773.89 | -10,246.19 | 5,304.67 | 5,230.28 | 74.39 | 71.311 | | |
| 11,900.00 | 6,933.44 | 6,948.32 | 6,832.07 | 143.74 | 40.46 | -85.42 | -2,773.91 | -10,246.21 | 5,206.60 | 5,131.64 | 74.95 | 69.464 | | |
| 12,000.00 | 6,933.06 | 6,949.43 | 6,833.18 | 146.51 | 40.47 | -85.48 | -2,773.93 | -10,246.22 | 5,108.60 | 5,033.04 | 75.56 | 67.610 | | |
| 12,100.00 | 6,932.68 | 6,950.54 | 6,834.29 | 149.30 | 40.47 | -85.54 | -2,773.95 | -10,246.24 | 5,010.68 | 4,934.47 | 76.21 | 65.748 | | |
| 12,200.00 | 6,932.30 | 6,951.66 | 6,835.41 | 152.08 | 40.47 | -85.61 | -2,773.97 | -10,246.26 | 4,912.85 | 4,835.94 | 76.91 | 63.881 | | |
| 12,300.00 | 6,931.92 | 6,952.78 | 6,836.53 | 154.87 | 40.48 | -85.67 | -2,773.99 | -10,246.28 | 4,815.10 | 4,737.45 | 77.65 | 62.009 | | |
| 12,400.00 | 6,931.54 | 6,953.91 | 6,837.66 | 157.66 | 40.48 | -85.73 | -2,774.00 | -10,246.30 | 4,717.45 | 4,639.00 | 78.45 | 60.134 | | |
| 12,500.00 | 6,931.16 | 6,955.04 | 6,838.79 | 160.45 | 40.49 | -85.80 | -2,774.02 | -10,246.32 | 4,619.90 | 4,540.60 | 79.30 | 58.256 | | |
| 12,600.00 | 6,930.78 | 6,956.17 | 6,839.92 | 163.24 | 40.49 | -85.86 | -2,774.04 | -10,246.34 | 4,522.46 | 4,442.24 | 80.22 | 56.378 | | |
| 12,700.00 | 6,930.40 | 6,957.31 | 6,841.06 | 166.04 | 40.49 | -85.92 | -2,774.06 | -10,246.36 | 4,425.13 | 4,343.93 | 81.19 | 54.500 | | |
| 12,800.00 | 6,930.03 | 6,958.45 | 6,842.20 | 168.84 | 40.50 | -85.99 | -2,774.08 | -10,246.38 | 4,327.92 | 4,245.68 | 82.24 | 52.625 | | |
| 12,900.00 | 6,929.65 | 6,959.60 | 6,843.35 | 171.64 | 40.50 | -86.05 | -2,774.10 | -10,246.39 | 4,230.84 | 4,147.48 | 83.36 | 50.754 | | |
| 13,000.00 | 6,929.27 | 6,960.75 | 6,844.50 | 174.44 | 40.50 | -86.11 | -2,774.12 | -10,246.41 | 4,133.90 | 4,049.34 | 84.56 | 48.888 | | |
| 13,100.00 | 6,928.89 | 6,961.90 | 6,845.65 | 177.24 | 40.51 | -86.18 | -2,774.14 | -10,246.43 | 4,037.10 | 3,951.27 | 85.84 | 47.031 | | |
| 13,200.00 | 6,928.51 | 6,963.06 | 6,846.81 | 180.05 | 40.51 | -86.24 | -2,774.16 | -10,246.45 | 3,940.47 | 3,853.26 | 87.21 | 45.184 | | |
| 13,300.00 | 6,928.13 | 6,964.23 | 6,847.97 | 182.86 | 40.52 | -86.31 | -2,774.18 | -10,246.47 | 3,844.01 | 3,755.34 | 88.68 | 43.348 | | |
| 13,400.00 | 6,927.75 | 6,965.39 | 6,849.14 | 185.67 | 40.52 | -86.37 | -2,774.20 | -10,246.49 | 3,747.74 | 3,657.49 | 90.25 | 41.527 | | |
| 13,500.00 | 6,927.37 | 6,966.56 | 6,850.31 | 188.48 | 40.52 | -86.44 | -2,774.22 | -10,246.51 | 3,651.66 | 3,559.73 | 91.93 | 39.722 | | |
| 13,600.00 | 6,926.99 | 6,967.74 | 6,851.49 | 191.29 | 40.53 | -86.50 | -2,774.24 | -10,246.53 | 3,555.80 | 3,462.07 | 93.73 | 37.936 | | |
| 13,700.00 | 6,926.61 | 6,968.92 | 6,852.66 | 194.10 | 40.53 | -86.57 | -2,774.26 | -10,246.55 | 3,460.18 | 3,364.52 | 95.66 | 36.171 | | |
| 13,800.00 | 6,926.23 | 6,970.10 | 6,853.85 | 196.92 | 40.54 | -86.64 | -2,774.28 | -10,246.57 | 3,364.81 | 3,267.08 | 97.73 | 34.430 | | |
| 13,900.00 | 6,925.85 | 6,971.29 | 6,855.04 | 199.73 | 40.54 | -86.70 | -2,774.30 | -10,246.59 | 3,269.71 | 3,169.77 | 99.95 | 32.714 | | |
| 14,000.00 | 6,925.47 | 6,972.49 | 6,856.23 | 202.55 | 40.54 | -86.77 | -2,774.32 | -10,246.61 | 3,174.92 | 3,072.59 | 102.33 | 31.026 | | |
| 14,100.00 | 6,925.09 | 6,973.68 | 6,857.43 | 205.37 | 40.55 | -86.83 | -2,774.34 | -10,246.63 | 3,080.45 | 2,975.57 | 104.89 | 29.370 | | |
| 14,200.00 | 6,924.71 | 6,974.90 | 6,858.64 | 208.19 | 40.55 | -86.90 | -2,774.36 | -10,246.65 | 2,986.35 | 2,878.72 | 107.63 | 27.746 | | |
| 14,300.00 | 6,924.34 | 6,976.12 | 6,859.86 | 211.01 | 40.56 | -86.97 | -2,774.38 | -10,246.67 | 2,892.64 | 2,782.05 | 110.59 | 26.158 | | |
| 14,400.00 | 6,923.96 | 6,977.33 | 6,861.08 | 213.83 | 40.56 | -87.04 | -2,774.40 | -10,246.69 | 2,799.36 | 2,685.60 | 113.76 | 24.607 | | |
| 14,500.00 | 6,923.58 | 6,978.55 | 6,862.29 | 216.65 | 40.56 | -87.11 | -2,774.42 | -10,246.72 | 2,706.57 | 2,589.38 | 117.19 | 23.096 | | |
| 14,600.00 | 6,923.20 | 6,979.76 | 6,863.50 | 219.48 | 40.57 | -87.17 | -2,774.45 | -10,246.74 | 2,614.30 | 2,493.43 | 120.87 | 21.628 | | |
| 14,700.00 | 6,922.82 | 6,980.97 | 6,864.71 | 222.30 | 40.57 | -87.24 | -2,774.47 | -10,246.76 | 2,522.63 | 2,397.77 | 124.85 | 20.204 | | |
| 14,800.00 | 6,922.44 | 6,982.19 | 6,865.94 | 225.13 | 40.58 | -87.31 | -2,774.49 | -10,246.78 | 2,431.60 | 2,302.45 | 129.15 | 18.827 | | |
| 14,900.00 | 6,922.06 | 6,983.43 | 6,867.17 | 227.95 | 40.58 | -87.38 | -2,774.51 | -10,246.80 | 2,341.32 | 2,207.52 | 133.80 | 17.499 | | |
| 14,915.55 | 6,922.00 | 6,983.62 | 6,867.36 | 228.39 | 40.58 | -87.39 | -2,774.51 | -10,246.80 | 2,327.35 | 2,192.79 | 134.56 | 17.297 | CC, ES, SF | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 43-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 118-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 35.00 | 3.28 | 3.28 | -106.61 | -2,669.10 | -8,946.52 | 9,336.25 | | | | | |
| 100.00 | 100.00 | 37.10 | 72.10 | 3.28 | 3.28 | -106.61 | -2,669.02 | -8,946.60 | 9,336.28 | 9,329.71 | 6.57 | 1,422.010 | | |
| 200.00 | 200.00 | 94.18 | 129.18 | 3.34 | 3.29 | -106.61 | -2,668.60 | -8,947.04 | 9,336.81 | 9,330.19 | 6.62 | 1,409.896 | | |
| 300.00 | 299.98 | 463.46 | 498.30 | 3.44 | 3.71 | 68.13 | -2,659.10 | -8,946.05 | 9,334.33 | 9,327.17 | 7.16 | 1,303.807 | | |
| 400.00 | 399.84 | 719.32 | 753.98 | 3.59 | 4.36 | 68.33 | -2,651.03 | -8,940.95 | 9,329.81 | 9,321.86 | 7.96 | 1,172.544 | | |
| 500.00 | 499.45 | 789.36 | 823.93 | 3.79 | 4.57 | 68.51 | -2,648.20 | -8,939.01 | 9,322.84 | 9,314.48 | 8.36 | 1,114.943 | | |
| 600.00 | 598.70 | 850.00 | 884.47 | 4.03 | 4.76 | 68.71 | -2,644.89 | -8,938.05 | 9,315.21 | 9,306.42 | 8.79 | 1,059.451 | | |
| 700.00 | 697.47 | 877.70 | 912.12 | 4.31 | 4.85 | 68.91 | -2,643.08 | -8,937.87 | 9,306.84 | 9,297.68 | 9.16 | 1,015.613 | | |
| 800.00 | 795.62 | 924.46 | 958.75 | 4.64 | 5.01 | 69.15 | -2,639.65 | -8,937.88 | 9,297.85 | 9,288.21 | 9.64 | 964.470 | | |
| 900.00 | 893.06 | 985.70 | 1,019.75 | 5.00 | 5.23 | 69.44 | -2,634.29 | -8,938.46 | 9,288.16 | 9,277.94 | 10.21 | 909.618 | | |
| 1,000.00 | 989.78 | 1,099.46 | 1,132.70 | 5.39 | 5.65 | 69.78 | -2,620.99 | -8,940.68 | 9,277.73 | 9,266.71 | 11.02 | 841.642 | | |
| 1,100.00 | 1,086.42 | 1,190.08 | 1,222.42 | 5.81 | 6.01 | 69.99 | -2,608.38 | -8,942.69 | 9,266.97 | 9,255.17 | 11.80 | 785.546 | | |
| 1,200.00 | 1,183.06 | 1,573.78 | 1,598.93 | 6.25 | 7.79 | 71.00 | -2,535.42 | -8,950.04 | 9,254.27 | 9,240.27 | 14.00 | 661.012 | | |
| 1,300.00 | 1,279.69 | 1,300.00 | 1,949.99 | 6.71 | 6.32 | 72.09 | -2,440.72 | -8,952.90 | 9,239.55 | 9,226.75 | 12.80 | 721.981 | | |
| 1,400.00 | 1,376.33 | 2,029.81 | 2,038.57 | 7.17 | 10.45 | 72.39 | -2,414.61 | -8,952.66 | 9,223.91 | 9,206.40 | 17.51 | 526.677 | | |
| 1,500.00 | 1,472.97 | 2,081.00 | 2,087.61 | 7.65 | 10.77 | 72.55 | -2,399.93 | -8,952.85 | 9,208.93 | 9,190.62 | 18.30 | 503.112 | | |
| 1,600.00 | 1,569.61 | 2,102.56 | 2,108.25 | 8.13 | 10.91 | 72.62 | -2,393.70 | -8,953.06 | 9,194.61 | 9,175.68 | 18.93 | 485.840 | | |
| 1,700.00 | 1,666.24 | 2,141.62 | 2,145.60 | 8.62 | 11.17 | 72.74 | -2,382.27 | -8,953.63 | 9,181.03 | 9,161.36 | 19.67 | 466.839 | | |
| 1,800.00 | 1,762.88 | 1,800.00 | 2,229.45 | 9.12 | 8.90 | 73.03 | -2,355.73 | -8,955.40 | 9,168.00 | 9,150.08 | 17.92 | 511.619 | | |
| 1,900.00 | 1,859.52 | 2,406.93 | 2,398.20 | 9.62 | 12.96 | 73.63 | -2,301.26 | -8,957.84 | 9,154.49 | 9,132.06 | 22.43 | 408.092 | | |
| 2,000.00 | 1,956.16 | 2,506.10 | 2,492.47 | 10.13 | 13.65 | 73.96 | -2,270.53 | -8,958.89 | 9,141.13 | 9,117.51 | 23.62 | 387.040 | | |
| 2,100.00 | 2,052.79 | 2,604.21 | 2,586.01 | 10.64 | 14.34 | 74.28 | -2,240.90 | -8,959.44 | 9,127.77 | 9,102.97 | 24.80 | 368.002 | | |
| 2,200.00 | 2,149.43 | 2,733.37 | 2,708.61 | 11.15 | 15.26 | 74.72 | -2,200.30 | -8,960.36 | 9,114.69 | 9,088.46 | 26.23 | 347.530 | | |
| 2,300.00 | 2,246.07 | 2,802.46 | 2,773.84 | 11.66 | 15.77 | 74.96 | -2,177.54 | -8,960.84 | 9,101.58 | 9,074.33 | 27.25 | 333.992 | | |
| 2,400.00 | 2,342.71 | 2,862.45 | 2,830.57 | 12.18 | 16.21 | 75.17 | -2,158.04 | -8,961.35 | 9,089.00 | 9,060.79 | 28.21 | 322.219 | | |
| 2,500.00 | 2,439.34 | 2,920.83 | 2,886.24 | 12.70 | 16.63 | 75.37 | -2,140.47 | -8,961.72 | 9,076.96 | 9,047.81 | 29.15 | 311.428 | | |
| 2,600.00 | 2,535.98 | 2,976.78 | 2,939.90 | 13.22 | 17.02 | 75.55 | -2,124.59 | -8,962.05 | 9,065.47 | 9,035.40 | 30.06 | 301.553 | | |
| 2,700.00 | 2,632.62 | 2,700.00 | 3,050.44 | 13.75 | 15.09 | 75.93 | -2,091.22 | -8,962.91 | 9,054.31 | 9,025.64 | 28.67 | 315.794 | | |
| 2,800.00 | 2,729.26 | 3,217.31 | 3,170.44 | 14.27 | 18.69 | 76.33 | -2,056.07 | -8,962.87 | 9,042.83 | 9,010.06 | 32.77 | 275.981 | | |
| 2,900.00 | 2,825.89 | 3,337.85 | 3,286.20 | 14.80 | 19.52 | 76.72 | -2,022.45 | -8,962.22 | 9,031.23 | 8,997.11 | 34.12 | 264.713 | | |
| 3,000.00 | 2,922.53 | 3,375.92 | 3,322.70 | 15.32 | 19.78 | 76.85 | -2,011.65 | -8,962.17 | 9,020.25 | 8,985.33 | 34.92 | 258.312 | | |
| 3,100.00 | 3,019.17 | 3,422.87 | 3,367.69 | 15.85 | 20.11 | 77.00 | -1,998.21 | -8,962.38 | 9,010.00 | 8,974.22 | 35.78 | 251.785 | | |
| 3,200.00 | 3,115.81 | 3,520.09 | 3,460.96 | 16.38 | 20.79 | 77.32 | -1,970.79 | -8,962.79 | 9,000.10 | 8,963.10 | 36.99 | 243.282 | | |
| 3,300.00 | 3,212.44 | 3,583.74 | 3,521.98 | 16.91 | 21.24 | 77.53 | -1,952.71 | -8,963.13 | 8,990.56 | 8,952.58 | 37.98 | 236.732 | | |
| 3,400.00 | 3,309.08 | 3,648.78 | 3,584.24 | 17.44 | 21.70 | 77.74 | -1,933.88 | -8,963.70 | 8,981.52 | 8,942.55 | 38.98 | 230.429 | | |
| 3,500.00 | 3,405.72 | 3,718.16 | 3,650.58 | 17.97 | 22.20 | 77.98 | -1,913.57 | -8,964.48 | 8,972.96 | 8,932.95 | 40.01 | 224.241 | | |
| 3,600.00 | 3,502.36 | 3,795.19 | 3,723.86 | 18.50 | 22.76 | 78.24 | -1,889.88 | -8,965.59 | 8,964.81 | 8,923.69 | 41.12 | 218.022 | | |
| 3,700.00 | 3,598.99 | 3,877.43 | 3,801.82 | 19.03 | 23.38 | 78.53 | -1,863.74 | -8,966.93 | 8,957.02 | 8,914.74 | 42.28 | 211.864 | | |
| 3,800.00 | 3,695.63 | 3,975.48 | 3,894.70 | 19.57 | 24.12 | 78.88 | -1,832.35 | -8,968.49 | 8,949.50 | 8,905.94 | 43.56 | 205.458 | | |
| 3,900.00 | 3,792.27 | 4,039.60 | 3,955.49 | 20.10 | 24.61 | 79.10 | -1,811.99 | -8,969.50 | 8,942.34 | 8,897.75 | 44.58 | 200.571 | | |
| 4,000.00 | 3,888.91 | 4,094.08 | 4,007.24 | 20.63 | 25.01 | 79.29 | -1,794.99 | -8,970.45 | 8,935.71 | 8,890.17 | 45.53 | 196.239 | | |
| 4,100.00 | 3,985.54 | 4,139.73 | 4,050.71 | 21.17 | 25.35 | 79.45 | -1,781.06 | -8,971.41 | 8,929.74 | 8,883.33 | 46.42 | 192.386 | | |
| 4,200.00 | 4,082.18 | 4,525.06 | 4,416.25 | 21.70 | 28.27 | 80.80 | -1,659.38 | -8,975.59 | 8,924.26 | 8,874.42 | 49.84 | 179.061 | | |
| 4,300.00 | 4,178.82 | 4,579.79 | 4,467.73 | 22.24 | 28.70 | 81.00 | -1,640.80 | -8,975.22 | 8,916.40 | 8,865.58 | 50.82 | 175.467 | | |
| 4,400.00 | 4,275.46 | 4,639.00 | 4,523.56 | 22.77 | 29.16 | 81.21 | -1,621.09 | -8,975.11 | 8,909.29 | 8,857.46 | 51.83 | 171.902 | | |
| 4,500.00 | 4,372.09 | 4,671.55 | 4,554.35 | 23.31 | 29.41 | 81.33 | -1,610.55 | -8,975.16 | 8,902.82 | 8,850.20 | 52.62 | 169.179 | | |
| 4,600.00 | 4,468.73 | 4,736.00 | 4,615.68 | 23.84 | 29.89 | 81.55 | -1,590.71 | -8,975.38 | 8,897.01 | 8,843.35 | 53.66 | 165.818 | | |
| 4,700.00 | 4,565.37 | 4,776.97 | 4,654.82 | 24.38 | 30.19 | 81.69 | -1,578.64 | -8,975.63 | 8,891.80 | 8,837.30 | 54.50 | 163.157 | | |
| 4,800.00 | 4,662.01 | 4,830.00 | 4,705.59 | 24.91 | 30.57 | 81.87 | -1,563.32 | -8,976.13 | 8,887.24 | 8,831.81 | 55.43 | 160.342 | | |
| 4,900.00 | 4,758.64 | 4,941.51 | 4,813.20 | 25.45 | 31.34 | 82.23 | -1,534.12 | -8,977.07 | 8,883.03 | 8,826.30 | 56.73 | 156.582 | | |
| 5,000.00 | 4,855.28 | 4,999.89 | 4,869.88 | 25.99 | 31.71 | 82.41 | -1,520.15 | -8,977.53 | 8,879.12 | 8,821.48 | 57.64 | 154.034 | | |
| 5,100.00 | 4,951.92 | 5,070.78 | 4,938.88 | 26.53 | 32.16 | 82.63 | -1,503.94 | -8,978.20 | 8,875.66 | 8,817.03 | 58.63 | 151.381 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 43-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 118-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,155.08 | 5,021.24 | 27.06 | 32.67 | 82.87 | -1,485.96 | -8,979.07 | 8,872.57 | 8,812.89 | 59.68 | 148.664 | | |
| 5,300.00 | 5,145.19 | 5,256.22 | 5,120.64 | 27.60 | 33.24 | 83.16 | -1,467.29 | -8,979.95 | 8,869.64 | 8,808.85 | 60.79 | 145.901 | | |
| 5,400.00 | 5,241.83 | 5,345.72 | 5,209.06 | 28.14 | 33.70 | 83.39 | -1,453.51 | -8,980.58 | 8,866.83 | 8,805.03 | 61.80 | 143.478 | | |
| 5,500.00 | 5,338.47 | 5,433.01 | 5,295.54 | 28.67 | 34.13 | 83.60 | -1,441.72 | -8,981.24 | 8,864.29 | 8,801.52 | 62.76 | 141.235 | | |
| 5,600.00 | 5,435.11 | 5,525.30 | 5,387.34 | 29.21 | 34.54 | 83.82 | -1,432.21 | -8,981.84 | 8,861.86 | 8,798.15 | 63.71 | 139.087 | | |
| 5,700.00 | 5,531.74 | 5,777.00 | 5,638.34 | 29.75 | 35.55 | 84.35 | -1,413.80 | -8,982.09 | 8,859.60 | 8,794.35 | 65.25 | 135.786 | | |
| 5,800.00 | 5,628.38 | 5,827.94 | 5,689.23 | 30.29 | 35.73 | 84.45 | -1,411.35 | -8,981.62 | 8,856.01 | 8,790.04 | 65.97 | 134.233 | | |
| 5,900.00 | 5,725.02 | 5,872.00 | 5,733.24 | 30.83 | 35.89 | 84.53 | -1,409.47 | -8,981.44 | 8,853.03 | 8,786.35 | 66.68 | 132.774 | | |
| 6,000.00 | 5,821.66 | 5,934.41 | 5,795.61 | 31.37 | 36.11 | 84.65 | -1,407.31 | -8,981.47 | 8,850.59 | 8,783.16 | 67.43 | 131.253 | | |
| 6,100.00 | 5,918.29 | 6,002.17 | 5,863.35 | 31.90 | 36.33 | 84.77 | -1,405.62 | -8,981.82 | 8,848.65 | 8,780.45 | 68.20 | 129.749 | | |
| 6,200.00 | 6,014.93 | 6,092.10 | 5,953.26 | 32.44 | 36.63 | 84.93 | -1,403.66 | -8,982.44 | 8,846.97 | 8,777.94 | 69.03 | 128.155 | | |
| 6,300.00 | 6,111.57 | 6,204.21 | 6,065.35 | 32.98 | 37.00 | 85.13 | -1,401.43 | -8,983.11 | 8,845.30 | 8,775.36 | 69.94 | 126.469 | | |
| 6,400.00 | 6,208.21 | 6,283.42 | 6,144.54 | 33.52 | 37.26 | 85.27 | -1,399.91 | -8,983.56 | 8,843.69 | 8,772.95 | 70.74 | 125.013 | | |
| 6,500.00 | 6,304.84 | 6,356.36 | 6,217.46 | 34.06 | 37.51 | 85.40 | -1,398.40 | -8,984.16 | 8,842.41 | 8,770.89 | 71.52 | 123.630 | | |
| 6,600.00 | 6,401.37 | 6,433.77 | 6,294.85 | 34.60 | 37.77 | 86.85 | -1,396.71 | -8,985.00 | 8,839.27 | 8,766.95 | 72.32 | 122.226 | | |
| 6,700.00 | 6,496.25 | 6,512.09 | 6,373.14 | 35.12 | 38.03 | 86.54 | -1,395.08 | -8,985.98 | 8,822.55 | 8,749.45 | 73.10 | 120.696 | | |
| 6,800.00 | 6,587.15 | 6,604.91 | 6,465.93 | 35.59 | 38.34 | 84.39 | -1,393.24 | -8,987.26 | 8,790.81 | 8,716.93 | 73.88 | 118.986 | | |
| 6,900.00 | 6,671.83 | 6,699.64 | 6,560.64 | 36.03 | 38.66 | 27.70 | -1,391.41 | -8,988.47 | 8,744.64 | 8,670.02 | 74.62 | 117.187 | | |
| 7,000.00 | 6,748.21 | 6,760.31 | 6,621.29 | 36.41 | 38.87 | 23.80 | -1,390.27 | -8,989.28 | 8,685.29 | 8,610.09 | 75.20 | 115.501 | | |
| 7,100.00 | 6,814.41 | 6,814.40 | 6,675.37 | 36.76 | 39.05 | 21.63 | -1,389.28 | -8,990.08 | 8,614.27 | 8,538.57 | 75.69 | 113.805 | | |
| 7,200.00 | 6,868.79 | 6,860.27 | 6,721.23 | 37.07 | 39.21 | 20.72 | -1,388.45 | -8,990.82 | 8,533.26 | 8,457.15 | 76.10 | 112.127 | | |
| 7,300.00 | 6,910.01 | 6,899.41 | 6,760.35 | 37.39 | 39.34 | 21.19 | -1,387.69 | -8,991.48 | 8,444.18 | 8,367.75 | 76.43 | 110.480 | | |
| 7,400.00 | 6,937.07 | 6,925.67 | 6,786.61 | 37.76 | 39.43 | 24.23 | -1,387.14 | -8,991.93 | 8,349.17 | 8,272.52 | 76.65 | 108.919 | | |
| 7,500.00 | 6,949.29 | 6,938.43 | 6,799.36 | 38.27 | 39.48 | 41.05 | -1,386.86 | -8,992.15 | 8,250.55 | 8,173.77 | 76.77 | 107.465 | | |
| 7,600.00 | 6,949.75 | 6,940.44 | 6,801.36 | 39.02 | 39.48 | 71.71 | -1,386.82 | -8,992.19 | 8,150.69 | 8,073.87 | 76.82 | 106.104 | | |
| 7,700.00 | 6,949.37 | 6,941.68 | 6,802.60 | 40.05 | 39.49 | 71.90 | -1,386.79 | -8,992.21 | 8,050.80 | 7,973.94 | 76.86 | 104.751 | | |
| 7,800.00 | 6,948.99 | 6,942.92 | 6,803.85 | 41.35 | 39.49 | 72.08 | -1,386.76 | -8,992.23 | 7,950.91 | 7,874.01 | 76.90 | 103.396 | | |
| 7,900.00 | 6,948.61 | 6,944.16 | 6,805.09 | 42.86 | 39.50 | 72.26 | -1,386.74 | -8,992.25 | 7,851.02 | 7,774.08 | 76.94 | 102.039 | | |
| 8,000.00 | 6,948.23 | 6,945.41 | 6,806.34 | 44.53 | 39.50 | 72.45 | -1,386.71 | -8,992.28 | 7,751.13 | 7,674.15 | 76.99 | 100.682 | | |
| 8,100.00 | 6,947.85 | 6,946.66 | 6,807.59 | 46.34 | 39.51 | 72.63 | -1,386.68 | -8,992.30 | 7,651.25 | 7,574.22 | 77.03 | 99.323 | | |
| 8,200.00 | 6,947.47 | 6,947.91 | 6,808.84 | 48.26 | 39.51 | 72.81 | -1,386.65 | -8,992.32 | 7,551.37 | 7,474.29 | 77.08 | 97.963 | | |
| 8,300.00 | 6,947.09 | 6,949.16 | 6,810.09 | 50.28 | 39.52 | 73.00 | -1,386.62 | -8,992.34 | 7,451.49 | 7,374.36 | 77.14 | 96.602 | | |
| 8,400.00 | 6,946.72 | 6,950.42 | 6,811.34 | 52.39 | 39.52 | 73.19 | -1,386.59 | -8,992.36 | 7,351.62 | 7,274.43 | 77.19 | 95.239 | | |
| 8,500.00 | 6,946.34 | 6,951.67 | 6,812.60 | 54.56 | 39.52 | 73.37 | -1,386.57 | -8,992.39 | 7,251.75 | 7,174.50 | 77.25 | 93.876 | | |
| 8,600.00 | 6,945.96 | 6,952.93 | 6,813.85 | 56.80 | 39.53 | 73.56 | -1,386.54 | -8,992.41 | 7,151.88 | 7,074.57 | 77.31 | 92.511 | | |
| 8,700.00 | 6,945.58 | 6,954.19 | 6,815.11 | 59.10 | 39.53 | 73.75 | -1,386.51 | -8,992.43 | 7,052.02 | 6,974.65 | 77.37 | 91.145 | | |
| 8,800.00 | 6,945.20 | 6,955.45 | 6,816.37 | 61.44 | 39.54 | 73.94 | -1,386.48 | -8,992.45 | 6,952.16 | 6,874.72 | 77.44 | 89.779 | | |
| 8,900.00 | 6,944.82 | 6,956.72 | 6,817.64 | 63.83 | 39.54 | 74.13 | -1,386.45 | -8,992.47 | 6,852.30 | 6,774.80 | 77.50 | 88.411 | | |
| 9,000.00 | 6,944.44 | 6,957.98 | 6,818.90 | 66.25 | 39.55 | 74.32 | -1,386.42 | -8,992.50 | 6,752.45 | 6,674.87 | 77.58 | 87.043 | | |
| 9,100.00 | 6,944.06 | 6,959.25 | 6,820.17 | 68.71 | 39.55 | 74.51 | -1,386.39 | -8,992.52 | 6,652.60 | 6,574.95 | 77.65 | 85.673 | | |
| 9,200.00 | 6,943.68 | 6,960.52 | 6,821.44 | 71.20 | 39.55 | 74.70 | -1,386.36 | -8,992.54 | 6,552.76 | 6,475.03 | 77.73 | 84.303 | | |
| 9,300.00 | 6,943.30 | 6,961.79 | 6,822.71 | 73.72 | 39.56 | 74.89 | -1,386.33 | -8,992.56 | 6,452.92 | 6,375.11 | 77.81 | 82.931 | | |
| 9,400.00 | 6,942.92 | 6,963.06 | 6,823.98 | 76.26 | 39.56 | 75.08 | -1,386.30 | -8,992.59 | 6,353.09 | 6,275.19 | 77.90 | 81.559 | | |
| 9,500.00 | 6,942.54 | 6,964.34 | 6,825.26 | 78.82 | 39.57 | 75.27 | -1,386.27 | -8,992.61 | 6,253.26 | 6,175.27 | 77.98 | 80.186 | | |
| 9,600.00 | 6,942.16 | 6,965.62 | 6,826.54 | 81.40 | 39.57 | 75.47 | -1,386.24 | -8,992.63 | 6,153.43 | 6,075.36 | 78.08 | 78.812 | | |
| 9,700.00 | 6,941.78 | 6,966.90 | 6,827.81 | 84.00 | 39.58 | 75.66 | -1,386.21 | -8,992.65 | 6,053.62 | 5,975.44 | 78.17 | 77.438 | | |
| 9,800.00 | 6,941.40 | 6,968.18 | 6,829.09 | 86.62 | 39.58 | 75.86 | -1,386.18 | -8,992.68 | 5,953.80 | 5,875.53 | 78.28 | 76.063 | | |
| 9,900.00 | 6,941.03 | 6,969.46 | 6,830.38 | 89.25 | 39.59 | 76.05 | -1,386.15 | -8,992.70 | 5,854.00 | 5,775.62 | 78.38 | 74.686 | | |
| 10,000.00 | 6,940.65 | 6,970.75 | 6,831.66 | 91.90 | 39.59 | 76.25 | -1,386.12 | -8,992.72 | 5,754.20 | 5,675.70 | 78.49 | 73.310 | | |
| 10,100.00 | 6,940.27 | 6,972.03 | 6,832.95 | 94.56 | 39.59 | 76.44 | -1,386.09 | -8,992.74 | 5,654.40 | 5,575.80 | 78.61 | 71.932 | | |
| 10,200.00 | 6,939.89 | 6,973.32 | 6,834.24 | 97.23 | 39.60 | 76.64 | -1,386.06 | -8,992.77 | 5,554.62 | 5,475.89 | 78.73 | 70.554 | | |
| 10,300.00 | 6,939.51 | 6,974.61 | 6,835.53 | 99.91 | 39.60 | 76.84 | -1,386.03 | -8,992.79 | 5,454.84 | 5,375.98 | 78.86 | 69.175 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 43-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 118-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,975.91 | 6,836.82 | 102.60 | 39.61 | 77.04 | -1,386.00 | -8,992.81 | 5,355.07 | 5,276.08 | 78.99 | 67.795 | | |
| 10,500.00 | 6,938.75 | 6,977.20 | 6,838.12 | 105.30 | 39.61 | 77.24 | -1,385.97 | -8,992.83 | 5,255.31 | 5,176.18 | 79.13 | 66.414 | | |
| 10,600.00 | 6,938.37 | 6,978.50 | 6,839.41 | 108.00 | 39.62 | 77.44 | -1,385.93 | -8,992.86 | 5,155.55 | 5,076.28 | 79.28 | 65.033 | | |
| 10,700.00 | 6,937.99 | 6,979.80 | 6,840.71 | 110.72 | 39.62 | 77.64 | -1,385.90 | -8,992.88 | 5,055.81 | 4,976.38 | 79.43 | 63.651 | | |
| 10,800.00 | 6,937.61 | 6,981.10 | 6,842.01 | 113.44 | 39.63 | 77.84 | -1,385.87 | -8,992.90 | 4,956.07 | 4,876.48 | 79.59 | 62.269 | | |
| 10,900.00 | 6,937.23 | 6,982.40 | 6,843.31 | 116.17 | 39.63 | 78.04 | -1,385.84 | -8,992.93 | 4,856.35 | 4,776.59 | 79.76 | 60.885 | | |
| 11,000.00 | 6,936.85 | 6,983.71 | 6,844.62 | 118.90 | 39.63 | 78.24 | -1,385.81 | -8,992.95 | 4,756.64 | 4,676.70 | 79.94 | 59.501 | | |
| 11,100.00 | 6,936.47 | 6,985.02 | 6,845.92 | 121.64 | 39.64 | 78.44 | -1,385.78 | -8,992.97 | 4,656.94 | 4,576.81 | 80.13 | 58.117 | | |
| 11,200.00 | 6,936.09 | 6,986.32 | 6,847.23 | 124.39 | 39.64 | 78.64 | -1,385.74 | -8,993.00 | 4,557.25 | 4,476.92 | 80.33 | 56.731 | | |
| 11,300.00 | 6,935.71 | 6,987.64 | 6,848.54 | 127.14 | 39.65 | 78.85 | -1,385.71 | -8,993.02 | 4,457.58 | 4,377.04 | 80.54 | 55.345 | | |
| 11,400.00 | 6,935.34 | 6,988.95 | 6,849.86 | 129.90 | 39.65 | 79.05 | -1,385.68 | -8,993.04 | 4,357.92 | 4,277.15 | 80.77 | 53.958 | | |
| 11,500.00 | 6,934.96 | 6,990.26 | 6,851.17 | 132.66 | 39.66 | 79.26 | -1,385.65 | -8,993.07 | 4,258.27 | 4,177.27 | 81.00 | 52.570 | | |
| 11,600.00 | 6,934.58 | 6,991.58 | 6,852.49 | 135.42 | 39.66 | 79.46 | -1,385.61 | -8,993.09 | 4,158.65 | 4,077.39 | 81.25 | 51.182 | | |
| 11,700.00 | 6,934.20 | 6,992.90 | 6,853.81 | 138.19 | 39.67 | 79.67 | -1,385.58 | -8,993.11 | 4,059.04 | 3,977.52 | 81.52 | 49.792 | | |
| 11,800.00 | 6,933.82 | 6,994.22 | 6,855.13 | 140.96 | 39.67 | 79.87 | -1,385.55 | -8,993.14 | 3,959.45 | 3,877.64 | 81.80 | 48.402 | | |
| 11,900.00 | 6,933.44 | 6,995.55 | 6,856.45 | 143.74 | 39.68 | 80.08 | -1,385.51 | -8,993.16 | 3,859.88 | 3,777.77 | 82.11 | 47.011 | | |
| 12,000.00 | 6,933.06 | 6,996.87 | 6,857.78 | 146.51 | 39.68 | 80.29 | -1,385.48 | -8,993.18 | 3,760.33 | 3,677.90 | 82.43 | 45.620 | | |
| 12,100.00 | 6,932.68 | 6,998.20 | 6,859.10 | 149.30 | 39.69 | 80.50 | -1,385.45 | -8,993.21 | 3,660.81 | 3,578.04 | 82.77 | 44.227 | | |
| 12,200.00 | 6,932.30 | 6,999.53 | 6,860.43 | 152.08 | 39.69 | 80.71 | -1,385.41 | -8,993.23 | 3,561.31 | 3,478.17 | 83.14 | 42.834 | | |
| 12,300.00 | 6,931.92 | 7,000.86 | 6,861.76 | 154.87 | 39.69 | 80.91 | -1,385.38 | -8,993.26 | 3,461.84 | 3,378.31 | 83.54 | 41.440 | | |
| 12,400.00 | 6,931.54 | 7,002.20 | 6,863.10 | 157.66 | 39.70 | 81.12 | -1,385.35 | -8,993.28 | 3,362.41 | 3,278.44 | 83.96 | 40.045 | | |
| 12,500.00 | 6,931.16 | 7,003.53 | 6,864.43 | 160.45 | 39.70 | 81.33 | -1,385.31 | -8,993.30 | 3,263.00 | 3,178.58 | 84.42 | 38.650 | | |
| 12,600.00 | 6,930.78 | 7,004.87 | 6,865.77 | 163.24 | 39.71 | 81.54 | -1,385.28 | -8,993.33 | 3,163.64 | 3,078.72 | 84.92 | 37.254 | | |
| 12,700.00 | 6,930.40 | 7,006.21 | 6,867.11 | 166.04 | 39.71 | 81.76 | -1,385.24 | -8,993.35 | 3,064.31 | 2,978.85 | 85.46 | 35.857 | | |
| 12,800.00 | 6,930.03 | 7,007.55 | 6,868.45 | 168.84 | 39.72 | 81.97 | -1,385.21 | -8,993.37 | 2,965.03 | 2,878.99 | 86.04 | 34.461 | | |
| 12,900.00 | 6,929.65 | 7,008.90 | 6,869.79 | 171.64 | 39.72 | 82.18 | -1,385.18 | -8,993.40 | 2,865.80 | 2,779.12 | 86.68 | 33.064 | | |
| 13,000.00 | 6,929.27 | 7,010.27 | 6,871.17 | 174.44 | 39.73 | 82.40 | -1,385.14 | -8,993.42 | 2,766.62 | 2,679.25 | 87.37 | 31.666 | | |
| 13,100.00 | 6,928.89 | 7,011.76 | 6,872.65 | 177.24 | 39.73 | 82.63 | -1,385.10 | -8,993.45 | 2,667.51 | 2,579.38 | 88.13 | 30.269 | | |
| 13,200.00 | 6,928.51 | 7,013.24 | 6,874.13 | 180.05 | 39.74 | 82.87 | -1,385.06 | -8,993.48 | 2,568.46 | 2,479.50 | 88.96 | 28.873 | | |
| 13,300.00 | 6,928.13 | 7,014.71 | 6,875.60 | 182.86 | 39.74 | 83.10 | -1,385.03 | -8,993.50 | 2,469.48 | 2,379.61 | 89.87 | 27.478 | | |
| 13,400.00 | 6,927.75 | 7,016.18 | 6,877.07 | 185.67 | 39.75 | 83.33 | -1,384.99 | -8,993.53 | 2,370.60 | 2,279.72 | 90.88 | 26.084 | | |
| 13,500.00 | 6,927.37 | 7,017.64 | 6,878.53 | 188.48 | 39.75 | 83.56 | -1,384.95 | -8,993.56 | 2,271.81 | 2,179.81 | 92.00 | 24.693 | | |
| 13,600.00 | 6,926.99 | 7,019.10 | 6,879.99 | 191.29 | 39.76 | 83.79 | -1,384.91 | -8,993.58 | 2,173.13 | 2,079.88 | 93.25 | 23.305 | | |
| 13,700.00 | 6,926.61 | 7,020.55 | 6,881.44 | 194.10 | 39.76 | 84.02 | -1,384.88 | -8,993.61 | 2,074.57 | 1,979.93 | 94.64 | 21.922 | | |
| 13,800.00 | 6,926.23 | 7,021.99 | 6,882.88 | 196.92 | 39.77 | 84.25 | -1,384.84 | -8,993.63 | 1,976.16 | 1,879.96 | 96.19 | 20.544 | | |
| 13,900.00 | 6,925.85 | 7,023.43 | 6,884.32 | 199.73 | 39.77 | 84.48 | -1,384.80 | -8,993.66 | 1,877.91 | 1,779.97 | 97.95 | 19.173 | | |
| 14,000.00 | 6,925.47 | 7,024.86 | 6,885.75 | 202.55 | 39.78 | 84.71 | -1,384.77 | -8,993.68 | 1,779.86 | 1,679.93 | 99.93 | 17.811 | | |
| 14,100.00 | 6,925.09 | 7,026.28 | 6,887.17 | 205.37 | 39.78 | 84.94 | -1,384.73 | -8,993.71 | 1,682.04 | 1,579.85 | 102.19 | 16.460 | | |
| 14,200.00 | 6,924.71 | 7,027.70 | 6,888.59 | 208.19 | 39.79 | 85.16 | -1,384.69 | -8,993.73 | 1,584.49 | 1,479.72 | 104.77 | 15.123 | | |
| 14,300.00 | 6,924.34 | 7,029.12 | 6,890.00 | 211.01 | 39.79 | 85.39 | -1,384.66 | -8,993.76 | 1,487.26 | 1,379.52 | 107.74 | 13.804 | | |
| 14,400.00 | 6,923.96 | 7,030.52 | 6,891.41 | 213.83 | 39.80 | 85.61 | -1,384.62 | -8,993.78 | 1,390.43 | 1,279.25 | 111.17 | 12.507 | | |
| 14,500.00 | 6,923.58 | 7,031.93 | 6,892.81 | 216.65 | 39.80 | 85.84 | -1,384.59 | -8,993.81 | 1,294.07 | 1,178.89 | 115.18 | 11.235 | | |
| 14,600.00 | 6,923.20 | 7,033.32 | 6,894.21 | 219.48 | 39.81 | 86.06 | -1,384.55 | -8,993.83 | 1,198.31 | 1,078.43 | 119.88 | 9.996 | | |
| 14,700.00 | 6,922.82 | 7,034.71 | 6,895.60 | 222.30 | 39.81 | 86.28 | -1,384.51 | -8,993.86 | 1,103.30 | 977.85 | 125.45 | 8.795 | | |
| 14,800.00 | 6,922.44 | 7,036.10 | 6,896.98 | 225.13 | 39.82 | 86.50 | -1,384.48 | -8,993.88 | 1,009.26 | 877.15 | 132.10 | 7.640 | | |
| 14,900.00 | 6,922.06 | 7,037.48 | 6,898.36 | 227.95 | 39.82 | 86.72 | -1,384.44 | -8,993.90 | 916.47 | 776.35 | 140.12 | 6.540 | | |
| 14,915.55 | 6,922.00 | 7,037.69 | 6,898.58 | 228.39 | 39.82 | 86.76 | -1,384.44 | -8,993.91 | 902.18 | 760.67 | 141.52 | 6.375 CC, ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 6-6-17 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 89-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 35.00 | 3.28 | 3.28 | -106.59 | -2,674.91 | -8,977.40 | 9,367.50 | | | | | |
| 100.00 | 100.00 | 173.37 | 208.34 | 3.28 | 3.33 | -106.58 | -2,672.26 | -8,977.12 | 9,367.03 | 9,360.42 | 6.61 | 1,417.321 | | |
| 200.00 | 200.00 | 305.17 | 340.11 | 3.34 | 3.47 | -106.56 | -2,669.16 | -8,976.12 | 9,365.61 | 9,358.81 | 6.80 | 1,376.712 | | |
| 300.00 | 299.98 | 408.07 | 442.96 | 3.44 | 3.64 | 68.13 | -2,666.06 | -8,975.46 | 9,363.49 | 9,356.42 | 7.08 | 1,323.096 | | |
| 400.00 | 399.84 | 493.53 | 528.36 | 3.59 | 3.82 | 68.23 | -2,662.94 | -8,975.02 | 9,360.02 | 9,352.62 | 7.40 | 1,264.071 | | |
| 500.00 | 499.45 | 542.00 | 576.78 | 3.79 | 3.93 | 68.35 | -2,660.86 | -8,975.01 | 9,355.62 | 9,347.91 | 7.72 | 1,212.505 | | |
| 600.00 | 598.70 | 588.51 | 623.25 | 4.03 | 4.05 | 68.49 | -2,658.76 | -8,975.30 | 9,350.50 | 9,342.42 | 8.08 | 1,157.894 | | |
| 700.00 | 697.47 | 648.00 | 682.67 | 4.31 | 4.21 | 68.67 | -2,656.12 | -8,976.24 | 9,344.86 | 9,336.35 | 8.52 | 1,096.957 | | |
| 800.00 | 795.62 | 662.55 | 697.20 | 4.64 | 4.25 | 68.81 | -2,655.50 | -8,976.56 | 9,338.49 | 9,329.61 | 8.88 | 1,051.413 | | |
| 900.00 | 893.06 | 707.20 | 741.81 | 5.00 | 4.37 | 69.01 | -2,653.73 | -8,977.72 | 9,331.61 | 9,322.24 | 9.37 | 996.127 | | |
| 1,000.00 | 989.78 | 792.52 | 827.03 | 5.39 | 4.63 | 69.22 | -2,650.60 | -8,980.10 | 9,324.03 | 9,314.02 | 10.01 | 931.051 | | |
| 1,100.00 | 1,086.42 | 830.53 | 864.99 | 5.81 | 4.75 | 69.28 | -2,649.10 | -8,981.35 | 9,316.77 | 9,306.22 | 10.55 | 883.141 | | |
| 1,200.00 | 1,183.06 | 884.00 | 918.35 | 6.25 | 4.93 | 69.38 | -2,646.53 | -8,983.61 | 9,310.20 | 9,299.04 | 11.16 | 834.459 | | |
| 1,300.00 | 1,279.69 | 884.00 | 918.35 | 6.71 | 4.93 | 69.38 | -2,646.53 | -8,983.61 | 9,304.32 | 9,292.71 | 11.61 | 801.611 | | |
| 1,400.00 | 1,376.33 | 926.86 | 961.08 | 7.17 | 5.07 | 69.46 | -2,644.26 | -8,985.94 | 9,299.16 | 9,286.95 | 12.21 | 761.426 | | |
| 1,500.00 | 1,472.97 | 979.00 | 1,013.03 | 7.65 | 5.25 | 69.56 | -2,641.50 | -8,989.49 | 9,294.99 | 9,282.13 | 12.86 | 722.566 | | |
| 1,600.00 | 1,569.61 | 979.00 | 1,013.03 | 8.13 | 5.25 | 69.56 | -2,641.50 | -8,989.49 | 9,291.36 | 9,278.02 | 13.34 | 696.290 | | |
| 1,700.00 | 1,666.24 | 1,025.89 | 1,059.69 | 8.62 | 5.42 | 69.65 | -2,638.77 | -8,993.23 | 9,288.57 | 9,274.57 | 14.00 | 663.576 | | |
| 1,800.00 | 1,762.88 | 1,074.00 | 1,107.50 | 9.12 | 5.60 | 69.75 | -2,635.46 | -8,997.47 | 9,286.38 | 9,271.71 | 14.66 | 633.250 | | |
| 1,900.00 | 1,859.52 | 1,147.34 | 1,180.25 | 9.62 | 5.89 | 69.90 | -2,629.32 | -9,004.48 | 9,284.66 | 9,269.21 | 15.44 | 601.280 | | |
| 2,000.00 | 1,956.16 | 1,168.00 | 1,200.70 | 10.13 | 5.97 | 69.95 | -2,627.34 | -9,006.54 | 9,283.44 | 9,267.42 | 16.02 | 579.428 | | |
| 2,100.00 | 2,052.79 | 1,225.68 | 1,257.73 | 10.64 | 6.21 | 70.08 | -2,621.29 | -9,012.76 | 9,282.78 | 9,266.02 | 16.76 | 553.901 | | |
| 2,127.35 | 2,079.22 | 1,234.74 | 1,266.67 | 10.78 | 6.25 | 70.10 | -2,620.28 | -9,013.81 | 9,282.75 | 9,265.82 | 16.93 | 548.169 | | |
| 2,200.00 | 2,149.43 | 1,263.00 | 1,294.53 | 11.15 | 6.37 | 70.16 | -2,617.01 | -9,017.22 | 9,282.95 | 9,265.53 | 17.42 | 532.953 | | |
| 2,300.00 | 2,246.07 | 1,263.00 | 1,294.53 | 11.66 | 6.37 | 70.16 | -2,617.01 | -9,017.22 | 9,283.99 | 9,266.07 | 17.92 | 517.974 | | |
| 2,400.00 | 2,342.71 | 1,317.83 | 1,348.44 | 12.08 | 6.62 | 70.30 | -2,610.09 | -9,024.48 | 9,285.59 | 9,266.92 | 18.67 | 497.354 | | |
| 2,500.00 | 2,439.34 | 1,358.00 | 1,387.78 | 12.70 | 6.80 | 70.40 | -2,604.52 | -9,030.36 | 9,288.12 | 9,268.77 | 19.36 | 479.869 | | |
| 2,600.00 | 2,535.98 | 1,415.84 | 1,444.34 | 13.22 | 7.08 | 70.54 | -2,596.21 | -9,039.15 | 9,291.28 | 9,271.15 | 20.13 | 461.547 | | |
| 2,700.00 | 2,632.62 | 1,525.93 | 1,552.10 | 13.75 | 7.62 | 70.82 | -2,580.94 | -9,055.68 | 9,294.60 | 9,273.44 | 21.16 | 439.271 | | |
| 2,800.00 | 2,729.26 | 1,581.59 | 1,606.69 | 14.27 | 7.91 | 70.95 | -2,573.76 | -9,063.91 | 9,298.10 | 9,276.16 | 21.94 | 423.889 | | |
| 2,900.00 | 2,825.89 | 1,642.00 | 1,665.84 | 14.80 | 8.21 | 71.10 | -2,565.90 | -9,073.27 | 9,302.29 | 9,279.55 | 22.74 | 409.121 | | |
| 3,000.00 | 2,922.53 | 1,704.32 | 1,726.87 | 15.32 | 8.54 | 71.25 | -2,557.95 | -9,083.09 | 9,306.95 | 9,283.39 | 23.55 | 395.170 | | |
| 3,100.00 | 3,019.17 | 1,856.36 | 1,875.90 | 15.85 | 9.34 | 71.62 | -2,538.66 | -9,106.21 | 9,311.23 | 9,286.41 | 24.82 | 375.103 | | |
| 3,200.00 | 3,115.81 | 1,894.44 | 1,913.18 | 16.38 | 9.55 | 71.71 | -2,533.58 | -9,112.10 | 9,315.90 | 9,290.38 | 25.53 | 364.956 | | |
| 3,300.00 | 3,212.44 | 3,300.00 | 2,015.54 | 16.91 | 17.47 | 71.97 | -2,520.13 | -9,128.44 | 9,320.99 | 9,287.70 | 33.29 | 280.011 | | |
| 3,400.00 | 3,309.08 | 2,082.55 | 2,097.49 | 17.44 | 10.58 | 72.17 | -2,509.81 | -9,141.18 | 9,325.98 | 9,298.47 | 27.51 | 338.993 | | |
| 3,500.00 | 3,405.72 | 2,337.78 | 2,347.12 | 17.97 | 12.02 | 72.81 | -2,473.70 | -9,179.99 | 9,331.23 | 9,301.85 | 29.38 | 317.565 | | |
| 3,600.00 | 3,502.36 | 2,375.35 | 2,383.90 | 18.50 | 12.24 | 72.90 | -2,468.25 | -9,185.41 | 9,335.46 | 9,305.37 | 30.10 | 310.186 | | |
| 3,700.00 | 3,598.99 | 2,423.74 | 2,431.36 | 19.03 | 12.51 | 73.02 | -2,462.08 | -9,192.53 | 9,340.38 | 9,309.51 | 30.86 | 302.628 | | |
| 3,800.00 | 3,695.63 | 2,495.00 | 2,501.21 | 19.57 | 12.92 | 73.19 | -2,452.90 | -9,203.23 | 9,345.74 | 9,313.99 | 31.75 | 294.344 | | |
| 3,900.00 | 3,792.27 | 2,538.03 | 2,543.33 | 20.10 | 13.17 | 73.29 | -2,447.17 | -9,209.89 | 9,351.61 | 9,319.12 | 32.49 | 287.831 | | |
| 4,000.00 | 3,888.91 | 2,590.00 | 2,594.13 | 20.63 | 13.47 | 73.42 | -2,440.06 | -9,218.24 | 9,358.12 | 9,324.85 | 33.28 | 281.220 | | |
| 4,100.00 | 3,985.54 | 2,695.28 | 2,697.00 | 21.17 | 14.09 | 73.68 | -2,425.51 | -9,235.28 | 9,364.94 | 9,330.58 | 34.36 | 272.534 | | |
| 4,200.00 | 4,082.18 | 2,762.19 | 2,762.39 | 21.70 | 14.49 | 73.85 | -2,416.33 | -9,246.11 | 9,371.93 | 9,336.69 | 35.23 | 265.986 | | |
| 4,300.00 | 4,178.82 | 2,874.00 | 2,871.84 | 22.24 | 15.14 | 74.12 | -2,401.87 | -9,263.79 | 9,378.79 | 9,342.44 | 36.35 | 258.014 | | |
| 4,400.00 | 4,275.46 | 2,930.61 | 2,927.37 | 22.77 | 15.46 | 74.25 | -2,395.36 | -9,272.62 | 9,385.99 | 9,348.83 | 37.15 | 252.640 | | |
| 4,500.00 | 4,372.09 | 2,969.00 | 2,965.02 | 23.31 | 15.68 | 74.34 | -2,391.24 | -9,278.93 | 9,394.03 | 9,356.17 | 37.85 | 248.168 | | |
| 4,600.00 | 4,468.73 | 3,197.31 | 3,188.90 | 23.84 | 17.00 | 74.86 | -2,366.29 | -9,315.95 | 9,402.40 | 9,362.82 | 39.58 | 237.544 | | |
| 4,700.00 | 4,565.37 | 3,253.00 | 3,243.70 | 24.38 | 17.31 | 74.99 | -2,361.18 | -9,324.45 | 9,409.85 | 9,369.48 | 40.37 | 233.097 | | |
| 4,800.00 | 4,662.01 | 3,664.31 | 3,649.50 | 24.91 | 19.53 | 75.87 | -2,325.17 | -9,380.87 | 9,416.27 | 9,373.30 | 42.97 | 219.138 | | |
| 4,900.00 | 4,758.64 | 3,729.00 | 3,713.36 | 25.45 | 19.88 | 76.01 | -2,318.53 | -9,388.75 | 9,421.04 | 9,377.23 | 43.81 | 215.048 | | |
| 5,000.00 | 4,855.28 | 3,765.45 | 3,749.30 | 25.99 | 20.09 | 76.09 | -2,314.61 | -9,393.37 | 9,426.40 | 9,381.89 | 44.51 | 211.799 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 6-6-17 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 89-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 3,824.00 | 3,806.87 | 26.53 | 20.41 | 76.23 | -2,307.69 | -9,401.51 | 9,432.69 | 9,387.37 | 45.32 | 208.137 | | |
| 5,200.00 | 5,048.56 | 3,824.00 | 3,806.87 | 27.06 | 20.41 | 76.23 | -2,307.69 | -9,401.51 | 9,439.46 | 9,393.64 | 45.82 | 206.028 | | |
| 5,300.00 | 5,145.19 | 3,859.07 | 3,841.27 | 27.60 | 20.62 | 76.31 | -2,303.28 | -9,406.75 | 9,447.11 | 9,400.61 | 46.50 | 203.144 | | |
| 5,400.00 | 5,241.83 | 3,916.00 | 3,897.01 | 28.14 | 20.96 | 76.45 | -2,295.95 | -9,415.70 | 9,455.53 | 9,408.21 | 47.31 | 199.851 | | |
| 5,500.00 | 5,338.47 | 3,946.31 | 3,926.66 | 28.67 | 21.14 | 76.52 | -2,292.02 | -9,420.63 | 9,464.49 | 9,416.52 | 47.97 | 197.299 | | |
| 5,600.00 | 5,435.11 | 4,157.12 | 4,133.28 | 29.21 | 22.39 | 77.01 | -2,266.23 | -9,453.48 | 9,473.23 | 9,423.60 | 49.64 | 190.848 | | |
| 5,700.00 | 5,531.74 | 4,220.28 | 4,195.23 | 29.75 | 22.76 | 77.16 | -2,258.51 | -9,463.05 | 9,481.74 | 9,431.26 | 50.48 | 187.845 | | |
| 5,800.00 | 5,628.38 | 4,309.63 | 4,282.70 | 30.29 | 23.29 | 77.37 | -2,246.54 | -9,476.80 | 9,490.53 | 9,439.06 | 51.47 | 184.390 | | |
| 5,900.00 | 5,725.02 | 4,402.59 | 4,373.48 | 30.83 | 23.86 | 77.60 | -2,232.58 | -9,491.17 | 9,499.45 | 9,446.95 | 52.50 | 180.953 | | |
| 6,000.00 | 5,821.66 | 4,460.79 | 4,430.15 | 31.37 | 24.22 | 77.75 | -2,223.04 | -9,500.34 | 9,508.73 | 9,455.40 | 53.33 | 178.310 | | |
| 6,100.00 | 5,918.29 | 4,512.27 | 4,480.17 | 31.90 | 24.55 | 77.88 | -2,214.15 | -9,508.65 | 9,518.51 | 9,464.40 | 54.12 | 175.885 | | |
| 6,200.00 | 6,014.93 | 6,200.00 | 4,586.88 | 32.44 | 35.25 | 78.17 | -2,195.45 | -9,526.74 | 9,528.84 | 9,464.71 | 64.13 | 148.591 | | |
| 6,300.00 | 6,111.57 | 6,075.61 | 6,027.38 | 32.98 | 32.29 | 81.06 | -2,087.90 | -9,649.47 | 9,531.93 | 9,469.34 | 62.58 | 152.310 | | |
| 6,400.00 | 6,208.21 | 6,400.00 | 6,261.11 | 33.52 | 33.45 | 81.43 | -2,085.67 | -9,649.59 | 9,527.64 | 9,463.34 | 64.30 | 148.174 | | |
| 6,500.00 | 6,304.84 | 6,424.77 | 6,376.50 | 34.06 | 33.54 | 81.61 | -2,084.22 | -9,648.78 | 9,522.90 | 9,457.98 | 64.92 | 146.692 | | |
| 6,600.00 | 6,401.37 | 6,467.11 | 6,418.84 | 34.60 | 33.69 | 84.96 | -2,083.56 | -9,648.62 | 9,516.38 | 9,450.75 | 65.63 | 145.001 | | |
| 6,700.00 | 6,496.25 | 6,508.76 | 6,460.49 | 35.12 | 33.85 | 84.45 | -2,082.85 | -9,648.70 | 9,496.68 | 9,430.36 | 66.31 | 143.209 | | |
| 6,800.00 | 6,587.15 | 6,566.00 | 6,517.71 | 35.59 | 34.06 | 29.99 | -2,081.81 | -9,649.19 | 9,462.51 | 9,395.50 | 67.00 | 141.223 | | |
| 6,900.00 | 6,671.83 | 6,566.00 | 6,517.71 | 36.03 | 34.06 | 22.69 | -2,081.81 | -9,649.19 | 9,414.57 | 9,347.13 | 67.44 | 139.605 | | |
| 7,000.00 | 6,748.21 | 6,638.75 | 6,590.45 | 36.41 | 34.34 | 18.16 | -2,080.55 | -9,650.28 | 9,353.75 | 9,285.67 | 68.08 | 137.389 | | |
| 7,100.00 | 6,814.41 | 6,678.76 | 6,630.44 | 36.76 | 34.49 | 14.90 | -2,079.96 | -9,651.04 | 9,281.60 | 9,213.06 | 68.54 | 135.410 | | |
| 7,200.00 | 6,868.79 | 6,712.14 | 6,663.81 | 37.07 | 34.62 | 12.22 | -2,079.52 | -9,651.77 | 9,199.72 | 9,130.80 | 68.91 | 133.494 | | |
| 7,300.00 | 6,910.01 | 6,755.00 | 6,706.65 | 37.39 | 34.79 | 9.38 | -2,079.03 | -9,652.81 | 9,110.05 | 9,040.80 | 69.25 | 131.555 | | |
| 7,400.00 | 6,937.07 | 6,755.00 | 6,706.65 | 37.76 | 34.79 | 4.36 | -2,079.03 | -9,652.81 | 9,014.63 | 8,945.27 | 69.36 | 129.975 | | |
| 7,500.00 | 6,949.29 | 6,767.18 | 6,718.83 | 38.27 | 34.83 | -18.27 | -2,078.91 | -9,653.13 | 8,915.83 | 8,846.39 | 69.44 | 128.389 | | |
| 7,600.00 | 6,949.75 | 6,769.55 | 6,721.20 | 39.02 | 34.84 | -59.59 | -2,078.88 | -9,653.19 | 8,815.95 | 8,746.50 | 69.45 | 126.937 | | |
| 7,700.00 | 6,949.37 | 6,771.28 | 6,722.93 | 40.05 | 34.85 | -59.81 | -2,078.87 | -9,653.24 | 8,716.05 | 8,646.59 | 69.45 | 125.494 | | |
| 7,800.00 | 6,948.99 | 6,773.02 | 6,724.67 | 41.35 | 34.86 | -60.04 | -2,078.85 | -9,653.29 | 8,616.14 | 8,546.69 | 69.46 | 124.050 | | |
| 7,900.00 | 6,948.61 | 6,774.78 | 6,726.42 | 42.86 | 34.86 | -60.26 | -2,078.83 | -9,653.33 | 8,516.24 | 8,446.78 | 69.46 | 122.604 | | |
| 8,000.00 | 6,948.23 | 6,776.54 | 6,728.18 | 44.53 | 34.87 | -60.49 | -2,078.81 | -9,653.38 | 8,416.35 | 8,346.88 | 69.47 | 121.156 | | |
| 8,100.00 | 6,947.85 | 6,778.31 | 6,729.95 | 46.34 | 34.88 | -60.72 | -2,078.79 | -9,653.43 | 8,316.45 | 8,246.98 | 69.47 | 119.707 | | |
| 8,200.00 | 6,947.47 | 6,780.09 | 6,731.73 | 48.26 | 34.88 | -60.95 | -2,078.78 | -9,653.47 | 8,216.56 | 8,147.08 | 69.48 | 118.256 | | |
| 8,300.00 | 6,947.09 | 6,781.88 | 6,733.52 | 50.28 | 34.89 | -61.19 | -2,078.76 | -9,653.52 | 8,116.66 | 8,047.17 | 69.49 | 116.803 | | |
| 8,400.00 | 6,946.72 | 6,783.67 | 6,735.32 | 52.39 | 34.90 | -61.42 | -2,078.74 | -9,653.57 | 8,016.78 | 7,947.28 | 69.50 | 115.349 | | |
| 8,500.00 | 6,946.34 | 6,785.48 | 6,737.12 | 54.56 | 34.91 | -61.66 | -2,078.72 | -9,653.62 | 7,916.89 | 7,847.38 | 69.51 | 113.894 | | |
| 8,600.00 | 6,945.96 | 6,787.30 | 6,738.94 | 56.80 | 34.91 | -61.91 | -2,078.70 | -9,653.67 | 7,817.00 | 7,747.48 | 69.52 | 112.437 | | |
| 8,700.00 | 6,945.58 | 6,789.13 | 6,740.77 | 59.10 | 34.92 | -62.15 | -2,078.69 | -9,653.72 | 7,717.12 | 7,647.58 | 69.54 | 110.979 | | |
| 8,800.00 | 6,945.20 | 6,790.96 | 6,742.60 | 61.44 | 34.93 | -62.40 | -2,078.67 | -9,653.77 | 7,617.24 | 7,547.69 | 69.55 | 109.519 | | |
| 8,900.00 | 6,944.82 | 6,792.81 | 6,744.45 | 63.83 | 34.93 | -62.65 | -2,078.65 | -9,653.82 | 7,517.36 | 7,447.80 | 69.57 | 108.058 | | |
| 9,000.00 | 6,944.44 | 6,794.67 | 6,746.31 | 66.25 | 34.94 | -62.90 | -2,078.63 | -9,653.87 | 7,417.49 | 7,347.90 | 69.58 | 106.596 | | |
| 9,100.00 | 6,944.06 | 6,796.54 | 6,748.17 | 68.71 | 34.95 | -63.15 | -2,078.61 | -9,653.92 | 7,317.62 | 7,248.01 | 69.60 | 105.133 | | |
| 9,200.00 | 6,943.68 | 6,798.41 | 6,750.05 | 71.20 | 34.96 | -63.41 | -2,078.60 | -9,653.97 | 7,217.75 | 7,148.12 | 69.62 | 103.668 | | |
| 9,300.00 | 6,943.30 | 6,800.30 | 6,751.94 | 73.72 | 34.96 | -63.67 | -2,078.58 | -9,654.02 | 7,117.88 | 7,048.24 | 69.65 | 102.202 | | |
| 9,400.00 | 6,942.92 | 6,802.20 | 6,753.83 | 76.26 | 34.97 | -63.93 | -2,078.56 | -9,654.07 | 7,018.02 | 6,948.35 | 69.67 | 100.735 | | |
| 9,500.00 | 6,942.54 | 6,804.11 | 6,755.74 | 78.82 | 34.98 | -64.20 | -2,078.54 | -9,654.13 | 6,918.16 | 6,848.47 | 69.69 | 99.266 | | |
| 9,600.00 | 6,942.16 | 6,806.03 | 6,757.66 | 81.40 | 34.99 | -64.46 | -2,078.52 | -9,654.18 | 6,818.30 | 6,748.58 | 69.72 | 97.797 | | |
| 9,700.00 | 6,941.78 | 6,807.96 | 6,759.59 | 84.00 | 34.99 | -64.73 | -2,078.50 | -9,654.23 | 6,718.45 | 6,648.70 | 69.75 | 96.326 | | |
| 9,800.00 | 6,941.40 | 6,809.89 | 6,761.53 | 86.62 | 35.00 | -65.01 | -2,078.48 | -9,654.29 | 6,618.60 | 6,548.83 | 69.78 | 94.854 | | |
| 9,900.00 | 6,941.03 | 6,811.85 | 6,763.48 | 89.25 | 35.01 | -65.28 | -2,078.47 | -9,654.34 | 6,518.76 | 6,448.95 | 69.81 | 93.381 | | |
| 10,000.00 | 6,940.65 | 6,813.81 | 6,765.44 | 91.90 | 35.02 | -65.56 | -2,078.45 | -9,654.39 | 6,418.92 | 6,349.08 | 69.84 | 91.907 | | |
| 10,100.00 | 6,940.27 | 6,815.78 | 6,767.41 | 94.56 | 35.02 | -65.84 | -2,078.43 | -9,654.45 | 6,319.08 | 6,249.20 | 69.88 | 90.431 | | |
| 10,200.00 | 6,939.89 | 6,817.76 | 6,769.39 | 97.23 | 35.03 | -66.13 | -2,078.41 | -9,654.51 | 6,219.25 | 6,149.33 | 69.91 | 88.955 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 6-6-17 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 89-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,819.76 | 6,771.38 | 99.91 | 35.04 | -66.41 | -2,078.39 | -9,654.56 | 6,119.42 | 6,049.47 | 69.95 | 87.477 | | |
| 10,400.00 | 6,939.13 | 6,821.76 | 6,773.39 | 102.60 | 35.05 | -66.70 | -2,078.37 | -9,654.62 | 6,019.60 | 5,949.60 | 70.00 | 85.998 | | |
| 10,500.00 | 6,938.75 | 6,823.78 | 6,775.41 | 105.30 | 35.06 | -67.00 | -2,078.35 | -9,654.67 | 5,919.78 | 5,849.74 | 70.04 | 84.518 | | |
| 10,600.00 | 6,938.37 | 6,825.81 | 6,777.43 | 108.00 | 35.06 | -67.29 | -2,078.33 | -9,654.73 | 5,819.97 | 5,749.88 | 70.09 | 83.036 | | |
| 10,700.00 | 6,937.99 | 6,827.85 | 6,779.47 | 110.72 | 35.07 | -67.59 | -2,078.31 | -9,654.79 | 5,720.17 | 5,650.03 | 70.14 | 81.554 | | |
| 10,800.00 | 6,937.61 | 6,829.90 | 6,781.52 | 113.44 | 35.08 | -67.89 | -2,078.30 | -9,654.85 | 5,620.37 | 5,550.17 | 70.19 | 80.070 | | |
| 10,900.00 | 6,937.23 | 6,831.96 | 6,783.58 | 116.17 | 35.09 | -68.20 | -2,078.28 | -9,654.91 | 5,520.57 | 5,450.32 | 70.25 | 78.585 | | |
| 11,000.00 | 6,936.85 | 6,834.04 | 6,785.66 | 118.90 | 35.10 | -68.51 | -2,078.26 | -9,654.97 | 5,420.79 | 5,350.48 | 70.31 | 77.098 | | |
| 11,100.00 | 6,936.47 | 6,836.12 | 6,787.74 | 121.64 | 35.10 | -68.82 | -2,078.24 | -9,655.03 | 5,321.01 | 5,250.63 | 70.37 | 75.610 | | |
| 11,200.00 | 6,936.09 | 6,838.22 | 6,789.84 | 124.39 | 35.11 | -69.13 | -2,078.22 | -9,655.09 | 5,221.23 | 5,150.79 | 70.44 | 74.121 | | |
| 11,300.00 | 6,935.71 | 6,840.33 | 6,791.95 | 127.14 | 35.12 | -69.45 | -2,078.20 | -9,655.15 | 5,121.47 | 5,050.95 | 70.51 | 72.630 | | |
| 11,400.00 | 6,935.34 | 6,842.46 | 6,794.07 | 129.90 | 35.13 | -69.77 | -2,078.18 | -9,655.21 | 5,021.71 | 4,951.12 | 70.59 | 71.137 | | |
| 11,500.00 | 6,934.96 | 6,844.59 | 6,796.21 | 132.66 | 35.14 | -70.10 | -2,078.16 | -9,655.27 | 4,921.97 | 4,851.29 | 70.67 | 69.643 | | |
| 11,600.00 | 6,934.58 | 6,846.74 | 6,798.35 | 135.42 | 35.14 | -70.42 | -2,078.14 | -9,655.33 | 4,822.23 | 4,751.47 | 70.76 | 68.147 | | |
| 11,700.00 | 6,934.20 | 6,848.90 | 6,800.51 | 138.19 | 35.15 | -70.75 | -2,078.12 | -9,655.39 | 4,722.50 | 4,651.64 | 70.86 | 66.649 | | |
| 11,800.00 | 6,933.82 | 6,851.07 | 6,802.68 | 140.96 | 35.16 | -71.09 | -2,078.10 | -9,655.46 | 4,622.78 | 4,551.83 | 70.96 | 65.149 | | |
| 11,900.00 | 6,933.44 | 6,853.26 | 6,804.87 | 143.74 | 35.17 | -71.42 | -2,078.08 | -9,655.52 | 4,523.08 | 4,452.01 | 71.06 | 63.647 | | |
| 12,000.00 | 6,933.06 | 6,855.45 | 6,807.06 | 146.51 | 35.18 | -71.77 | -2,078.06 | -9,655.59 | 4,423.38 | 4,352.20 | 71.18 | 62.143 | | |
| 12,100.00 | 6,932.68 | 6,857.66 | 6,809.27 | 149.30 | 35.19 | -72.11 | -2,078.04 | -9,655.65 | 4,323.70 | 4,252.40 | 71.31 | 60.637 | | |
| 12,200.00 | 6,932.30 | 6,859.89 | 6,811.50 | 152.08 | 35.20 | -72.46 | -2,078.02 | -9,655.72 | 4,224.03 | 4,152.59 | 71.44 | 59.127 | | |
| 12,300.00 | 6,931.92 | 6,862.13 | 6,813.73 | 154.87 | 35.20 | -72.81 | -2,078.00 | -9,655.78 | 4,124.38 | 4,052.80 | 71.58 | 57.616 | | |
| 12,400.00 | 6,931.54 | 6,864.38 | 6,815.98 | 157.66 | 35.21 | -73.16 | -2,077.98 | -9,655.85 | 4,024.74 | 3,953.00 | 71.74 | 56.101 | | |
| 12,500.00 | 6,931.16 | 6,866.64 | 6,818.25 | 160.45 | 35.22 | -73.52 | -2,077.97 | -9,655.92 | 3,925.12 | 3,853.21 | 71.91 | 54.583 | | |
| 12,600.00 | 6,930.78 | 6,868.92 | 6,820.52 | 163.24 | 35.23 | -73.88 | -2,077.95 | -9,655.98 | 3,825.52 | 3,753.43 | 72.10 | 53.062 | | |
| 12,700.00 | 6,930.40 | 6,871.21 | 6,822.81 | 166.04 | 35.24 | -74.25 | -2,077.93 | -9,656.05 | 3,725.94 | 3,653.64 | 72.30 | 51.537 | | |
| 12,800.00 | 6,930.03 | 6,873.51 | 6,825.12 | 168.84 | 35.25 | -74.62 | -2,077.91 | -9,656.12 | 3,626.38 | 3,553.86 | 72.51 | 50.009 | | |
| 12,900.00 | 6,929.65 | 6,875.83 | 6,827.43 | 171.64 | 35.26 | -74.99 | -2,077.89 | -9,656.19 | 3,526.84 | 3,454.09 | 72.75 | 48.477 | | |
| 13,000.00 | 6,929.27 | 6,878.17 | 6,829.77 | 174.44 | 35.27 | -75.36 | -2,077.87 | -9,656.26 | 3,427.33 | 3,354.31 | 73.02 | 46.940 | | |
| 13,100.00 | 6,928.89 | 6,880.51 | 6,832.11 | 177.24 | 35.28 | -75.74 | -2,077.85 | -9,656.33 | 3,327.84 | 3,254.54 | 73.30 | 45.399 | | |
| 13,200.00 | 6,928.51 | 6,882.87 | 6,834.47 | 180.05 | 35.29 | -76.13 | -2,077.83 | -9,656.40 | 3,228.39 | 3,154.77 | 73.62 | 43.853 | | |
| 13,300.00 | 6,928.13 | 6,885.25 | 6,836.85 | 182.86 | 35.30 | -76.51 | -2,077.81 | -9,656.47 | 3,128.96 | 3,055.00 | 73.97 | 42.302 | | |
| 13,400.00 | 6,927.75 | 6,887.64 | 6,839.24 | 185.67 | 35.30 | -76.90 | -2,077.79 | -9,656.55 | 3,029.58 | 2,955.23 | 74.35 | 40.746 | | |
| 13,500.00 | 6,927.37 | 6,890.05 | 6,841.64 | 188.48 | 35.31 | -77.30 | -2,077.77 | -9,656.62 | 2,930.23 | 2,855.45 | 74.78 | 39.185 | | |
| 13,600.00 | 6,926.99 | 6,892.46 | 6,844.06 | 191.29 | 35.32 | -77.70 | -2,077.75 | -9,656.69 | 2,830.93 | 2,755.67 | 75.26 | 37.618 | | |
| 13,700.00 | 6,926.61 | 6,894.90 | 6,846.49 | 194.10 | 35.33 | -78.10 | -2,077.73 | -9,656.77 | 2,731.67 | 2,655.89 | 75.79 | 36.045 | | |
| 13,800.00 | 6,926.23 | 6,897.35 | 6,848.94 | 196.92 | 35.34 | -78.50 | -2,077.70 | -9,656.84 | 2,632.47 | 2,556.09 | 76.38 | 34.466 | | |
| 13,900.00 | 6,925.85 | 6,899.81 | 6,851.40 | 199.73 | 35.35 | -78.91 | -2,077.68 | -9,656.92 | 2,533.33 | 2,456.29 | 77.04 | 32.882 | | |
| 14,000.00 | 6,925.47 | 6,902.29 | 6,853.88 | 202.55 | 35.36 | -79.32 | -2,077.66 | -9,656.99 | 2,434.26 | 2,356.47 | 77.79 | 31.292 | | |
| 14,100.00 | 6,925.09 | 6,904.79 | 6,856.38 | 205.37 | 35.37 | -79.74 | -2,077.64 | -9,657.07 | 2,335.26 | 2,256.62 | 78.64 | 29.696 | | |
| 14,200.00 | 6,924.71 | 6,907.30 | 6,858.89 | 208.19 | 35.38 | -80.16 | -2,077.62 | -9,657.15 | 2,236.35 | 2,156.76 | 79.60 | 28.097 | | |
| 14,300.00 | 6,924.34 | 6,909.83 | 6,861.41 | 211.01 | 35.39 | -80.59 | -2,077.60 | -9,657.23 | 2,137.54 | 2,056.85 | 80.68 | 26.493 | | |
| 14,400.00 | 6,923.96 | 6,912.37 | 6,863.96 | 213.83 | 35.40 | -81.01 | -2,077.58 | -9,657.31 | 2,038.84 | 1,956.91 | 81.93 | 24.886 | | |
| 14,500.00 | 6,923.58 | 6,914.93 | 6,866.51 | 216.65 | 35.41 | -81.45 | -2,077.56 | -9,657.39 | 1,940.27 | 1,856.92 | 83.35 | 23.279 | | |
| 14,600.00 | 6,923.20 | 6,917.51 | 6,869.09 | 219.48 | 35.42 | -81.88 | -2,077.54 | -9,657.47 | 1,841.85 | 1,756.86 | 84.99 | 21.672 | | |
| 14,700.00 | 6,922.82 | 6,920.10 | 6,871.68 | 222.30 | 35.43 | -82.32 | -2,077.52 | -9,657.55 | 1,743.60 | 1,656.73 | 86.88 | 20.070 | | |
| 14,800.00 | 6,922.44 | 6,922.71 | 6,874.29 | 225.13 | 35.44 | -82.76 | -2,077.50 | -9,657.63 | 1,645.56 | 1,556.49 | 89.07 | 18.475 | | |
| 14,900.00 | 6,922.06 | 6,925.33 | 6,876.91 | 227.95 | 35.45 | -83.21 | -2,077.48 | -9,657.72 | 1,547.77 | 1,456.14 | 91.63 | 16.892 | | |
| 14,915.55 | 6,922.00 | 6,925.74 | 6,877.32 | 228.39 | 35.45 | -83.28 | -2,077.48 | -9,657.73 | 1,532.59 | 1,440.53 | 92.07 | 16.647 | CC, ES, SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 6-8-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 82-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 35.00 | 3.28 | 3.28 | -106.92 | -2,733.20 | -8,985.77 | 9,392.32 | | | | | |
| 100.00 | 100.00 | 43.05 | 78.05 | 3.28 | 3.28 | -106.92 | -2,733.09 | -8,985.85 | 9,392.33 | 9,385.76 | 6.57 | 1,430.523 | | |
| 200.00 | 200.00 | 112.20 | 147.19 | 3.34 | 3.29 | -106.91 | -2,732.47 | -8,986.34 | 9,392.73 | 9,386.10 | 6.63 | 1,416.823 | | |
| 300.00 | 299.98 | 171.00 | 205.98 | 3.44 | 3.33 | 67.72 | -2,731.50 | -8,987.05 | 9,392.79 | 9,386.03 | 6.76 | 1,388.638 | | |
| 400.00 | 399.84 | 208.92 | 243.89 | 3.59 | 3.36 | 67.74 | -2,730.82 | -8,987.74 | 9,392.10 | 9,385.15 | 6.95 | 1,352.284 | | |
| 500.00 | 499.45 | 263.00 | 297.94 | 3.79 | 3.41 | 67.80 | -2,730.12 | -8,989.24 | 9,390.90 | 9,383.70 | 7.20 | 1,303.939 | | |
| 600.00 | 598.70 | 263.00 | 297.94 | 4.03 | 3.41 | 67.84 | -2,730.12 | -8,989.24 | 9,388.96 | 9,381.52 | 7.45 | 1,260.664 | | |
| 700.00 | 697.47 | 263.00 | 297.94 | 4.31 | 3.41 | 67.88 | -2,730.12 | -8,989.24 | 9,386.77 | 9,379.04 | 7.74 | 1,213.438 | | |
| 800.00 | 795.62 | 304.84 | 339.74 | 4.64 | 3.47 | 67.98 | -2,730.00 | -8,990.97 | 9,383.83 | 9,375.72 | 8.11 | 1,156.426 | | |
| 900.00 | 893.06 | 354.00 | 388.82 | 5.00 | 3.55 | 68.11 | -2,730.68 | -8,993.85 | 9,380.89 | 9,372.34 | 8.55 | 1,097.258 | | |
| 1,000.00 | 989.78 | 354.00 | 388.82 | 5.39 | 3.55 | 68.14 | -2,730.68 | -8,993.85 | 9,377.22 | 9,368.28 | 8.94 | 1,048.442 | | |
| 1,100.00 | 1,086.42 | 354.00 | 388.82 | 5.81 | 3.55 | 68.14 | -2,730.68 | -8,993.85 | 9,374.48 | 9,365.12 | 9.36 | 1,001.121 | | |
| 1,200.00 | 1,183.06 | 386.04 | 420.76 | 6.25 | 3.61 | 68.18 | -2,731.63 | -8,996.12 | 9,372.59 | 9,362.74 | 9.85 | 951.090 | | |
| 1,300.00 | 1,279.69 | 411.06 | 445.68 | 6.71 | 3.65 | 68.22 | -2,732.69 | -8,998.03 | 9,371.53 | 9,361.17 | 10.35 | 905.313 | | |
| 1,395.55 | 1,372.03 | 445.00 | 479.46 | 7.15 | 3.73 | 68.26 | -2,734.59 | -9,000.82 | 9,371.28 | 9,360.42 | 10.86 | 862.958 | | |
| 1,400.00 | 1,376.33 | 445.00 | 479.46 | 7.17 | 3.73 | 68.26 | -2,734.59 | -9,000.82 | 9,371.28 | 9,360.40 | 10.88 | 861.303 | | |
| 1,500.00 | 1,472.97 | 555.30 | 589.10 | 7.65 | 3.99 | 68.39 | -2,742.92 | -9,009.47 | 9,371.39 | 9,359.80 | 11.60 | 808.195 | | |
| 1,513.05 | 1,485.58 | 564.64 | 598.38 | 7.71 | 4.02 | 68.40 | -2,743.73 | -9,010.16 | 9,371.39 | 9,359.71 | 11.68 | 802.278 | | |
| 1,600.00 | 1,569.61 | 627.05 | 660.35 | 8.13 | 4.20 | 68.46 | -2,749.50 | -9,014.75 | 9,371.51 | 9,359.25 | 12.26 | 764.407 | | |
| 1,700.00 | 1,666.24 | 746.35 | 778.70 | 8.62 | 4.58 | 68.58 | -2,761.97 | -9,023.12 | 9,371.67 | 9,358.58 | 13.09 | 715.763 | | |
| 1,800.00 | 1,762.88 | 827.28 | 859.03 | 9.12 | 4.87 | 68.66 | -2,769.87 | -9,028.99 | 9,371.90 | 9,358.05 | 13.84 | 676.922 | | |
| 1,900.00 | 1,859.52 | 1,383.00 | 1,412.90 | 9.62 | 7.01 | 69.36 | -2,799.85 | -9,059.42 | 9,367.05 | 9,350.70 | 16.35 | 572.844 | | |
| 2,000.00 | 1,956.16 | 1,383.00 | 1,412.90 | 10.13 | 7.01 | 69.36 | -2,799.85 | -9,059.42 | 9,363.15 | 9,346.29 | 16.86 | 555.463 | | |
| 2,100.00 | 2,052.79 | 1,383.00 | 1,412.90 | 10.64 | 7.01 | 69.36 | -2,799.85 | -9,059.42 | 9,360.31 | 9,342.94 | 17.36 | 539.071 | | |
| 2,200.00 | 2,149.43 | 1,383.00 | 1,412.90 | 11.15 | 7.01 | 69.36 | -2,799.85 | -9,059.42 | 9,358.54 | 9,340.66 | 17.87 | 523.613 | | |
| 2,300.00 | 2,246.07 | 1,383.00 | 1,412.90 | 11.66 | 7.01 | 69.36 | -2,799.85 | -9,059.42 | 9,357.83 | 9,339.45 | 18.38 | 509.032 | | |
| 2,343.34 | 2,287.95 | 1,411.44 | 1,441.26 | 11.89 | 7.13 | 69.40 | -2,800.47 | -9,061.49 | 9,357.40 | 9,338.68 | 18.71 | 499.995 | | |
| 2,400.00 | 2,342.71 | 1,416.57 | 1,446.37 | 12.18 | 7.15 | 69.40 | -2,800.62 | -9,061.94 | 9,357.55 | 9,338.53 | 19.02 | 491.864 | | |
| 2,500.00 | 2,439.34 | 1,445.00 | 1,474.62 | 12.70 | 7.27 | 69.45 | -2,801.57 | -9,064.94 | 9,358.81 | 9,339.16 | 19.65 | 476.342 | | |
| 2,600.00 | 2,535.98 | 1,445.00 | 1,474.62 | 13.22 | 7.27 | 69.45 | -2,801.57 | -9,064.94 | 9,360.67 | 9,340.51 | 20.16 | 464.340 | | |
| 2,700.00 | 2,632.62 | 1,445.00 | 1,474.62 | 13.75 | 7.27 | 69.45 | -2,801.57 | -9,064.94 | 9,363.60 | 9,342.93 | 20.67 | 452.995 | | |
| 2,800.00 | 2,729.26 | 1,503.58 | 1,532.73 | 14.27 | 7.53 | 69.53 | -2,804.11 | -9,071.94 | 9,367.33 | 9,345.91 | 21.42 | 437.326 | | |
| 2,900.00 | 2,825.89 | 1,569.00 | 1,597.58 | 14.80 | 7.83 | 69.62 | -2,807.67 | -9,079.76 | 9,371.43 | 9,349.23 | 22.20 | 422.145 | | |
| 3,000.00 | 2,922.53 | 1,601.58 | 1,629.85 | 15.32 | 7.98 | 69.66 | -2,809.87 | -9,083.73 | 9,376.08 | 9,353.24 | 22.85 | 410.347 | | |
| 3,100.00 | 3,019.17 | 1,633.06 | 1,660.97 | 15.85 | 8.13 | 69.69 | -2,812.44 | -9,087.68 | 9,381.48 | 9,357.99 | 23.49 | 399.313 | | |
| 3,200.00 | 3,115.81 | 1,665.00 | 1,692.49 | 16.38 | 8.29 | 69.73 | -2,815.51 | -9,091.81 | 9,387.61 | 9,363.47 | 24.14 | 388.870 | | |
| 3,300.00 | 3,212.44 | 1,665.00 | 1,692.49 | 16.91 | 8.29 | 69.73 | -2,815.51 | -9,091.81 | 9,394.63 | 9,369.98 | 24.65 | 381.171 | | |
| 3,400.00 | 3,309.08 | 1,705.67 | 1,732.52 | 17.44 | 8.50 | 69.77 | -2,819.96 | -9,097.41 | 9,402.29 | 9,376.95 | 25.34 | 371.108 | | |
| 3,500.00 | 3,405.72 | 3,500.00 | 1,800.82 | 17.97 | 18.40 | 69.84 | -2,828.51 | -9,107.80 | 9,410.96 | 9,376.84 | 34.11 | 275.867 | | |
| 3,600.00 | 3,502.36 | 1,908.40 | 1,931.57 | 18.50 | 9.56 | 69.97 | -2,844.82 | -9,126.76 | 9,419.06 | 9,391.77 | 27.29 | 345.180 | | |
| 3,700.00 | 3,598.99 | 2,040.00 | 2,060.76 | 19.03 | 10.27 | 70.09 | -2,862.10 | -9,144.84 | 9,426.93 | 9,398.51 | 28.42 | 331.683 | | |
| 3,800.00 | 3,695.63 | 2,097.52 | 2,117.31 | 19.57 | 10.58 | 70.14 | -2,869.34 | -9,152.53 | 9,434.64 | 9,405.43 | 29.20 | 323.066 | | |
| 3,900.00 | 3,792.27 | 2,136.00 | 2,155.05 | 20.10 | 10.79 | 70.18 | -2,874.20 | -9,158.23 | 9,443.36 | 9,413.47 | 29.89 | 315.907 | | |
| 4,000.00 | 3,888.91 | 2,181.54 | 2,199.67 | 20.63 | 11.04 | 70.22 | -2,880.04 | -9,165.23 | 9,452.73 | 9,422.11 | 30.62 | 308.731 | | |
| 4,100.00 | 3,985.54 | 2,385.34 | 2,399.42 | 21.17 | 12.19 | 70.41 | -2,907.23 | -9,195.13 | 9,461.65 | 9,429.51 | 32.14 | 294.402 | | |
| 4,200.00 | 4,082.18 | 2,445.13 | 2,458.02 | 21.70 | 12.53 | 70.46 | -2,915.58 | -9,203.56 | 9,470.25 | 9,437.31 | 32.94 | 287.460 | | |
| 4,300.00 | 4,178.82 | 2,486.27 | 2,498.26 | 22.24 | 12.77 | 70.49 | -2,921.68 | -9,209.53 | 9,479.44 | 9,445.79 | 33.66 | 281.649 | | |
| 4,400.00 | 4,275.46 | 2,536.45 | 2,547.25 | 22.77 | 13.07 | 70.53 | -2,929.51 | -9,217.04 | 9,489.24 | 9,454.82 | 34.42 | 275.717 | | |
| 4,500.00 | 4,372.09 | 2,607.00 | 2,616.09 | 23.31 | 13.49 | 70.59 | -2,940.64 | -9,227.78 | 9,499.39 | 9,464.10 | 35.29 | 269.211 | | |
| 4,600.00 | 4,468.73 | 3,325.26 | 3,320.66 | 23.84 | 17.62 | 71.18 | -3,041.46 | -9,321.06 | 9,509.87 | 9,470.36 | 39.51 | 240.698 | | |
| 4,700.00 | 4,565.37 | 3,492.49 | 3,485.83 | 24.38 | 18.51 | 71.33 | -3,062.65 | -9,336.28 | 9,513.34 | 9,472.48 | 40.87 | 232.792 | | |
| 4,800.00 | 4,662.01 | 3,550.00 | 3,542.56 | 24.91 | 18.83 | 71.37 | -3,070.54 | -9,341.47 | 9,516.94 | 9,475.26 | 41.68 | 228.325 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 6-8-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 82-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 4,900.00 | 4,758.64 | 3,550.00 | 3,542.56 | 25.45 | 18.83 | 71.37 | -3,070.54 | -9,341.47 | 9,521.14 | 9,478.94 | 42.20 | 225.598 | | |
| 5,000.00 | 4,855.28 | 3,603.07 | 3,594.84 | 25.99 | 19.12 | 71.42 | -3,077.98 | -9,346.76 | 9,525.98 | 9,482.98 | 43.00 | 221.551 | | |
| 5,100.00 | 4,951.92 | 3,644.00 | 3,635.14 | 26.53 | 19.35 | 71.45 | -3,083.59 | -9,351.24 | 9,531.55 | 9,487.82 | 43.73 | 217.985 | | |
| 5,200.00 | 5,048.56 | 3,644.00 | 3,635.14 | 27.06 | 19.35 | 71.45 | -3,083.59 | -9,351.24 | 9,537.91 | 9,493.68 | 44.24 | 215.605 | | |
| 5,300.00 | 5,145.19 | 3,686.82 | 3,677.22 | 27.60 | 19.60 | 71.48 | -3,089.60 | -9,356.39 | 9,544.92 | 9,499.95 | 44.98 | 212.226 | | |
| 5,400.00 | 5,241.83 | 3,739.00 | 3,728.32 | 28.14 | 19.91 | 71.52 | -3,097.49 | -9,363.37 | 9,552.99 | 9,507.23 | 45.76 | 208.755 | | |
| 5,500.00 | 5,338.47 | 3,739.00 | 3,728.32 | 28.67 | 19.91 | 71.52 | -3,097.49 | -9,363.37 | 9,561.50 | 9,515.24 | 46.26 | 206.678 | | |
| 5,600.00 | 5,435.11 | 3,769.82 | 3,758.43 | 29.21 | 20.10 | 71.55 | -3,102.40 | -9,367.79 | 9,570.92 | 9,523.99 | 46.93 | 203.930 | | |
| 5,700.00 | 5,531.74 | 4,305.00 | 4,282.41 | 29.75 | 23.29 | 71.93 | -3,186.07 | -9,435.90 | 9,580.47 | 9,530.10 | 50.38 | 190.181 | | |
| 5,800.00 | 5,628.38 | 4,305.00 | 4,282.41 | 30.29 | 23.29 | 71.93 | -3,186.07 | -9,435.90 | 9,586.24 | 9,535.35 | 50.89 | 188.364 | | |
| 5,900.00 | 5,725.02 | 4,360.64 | 4,337.18 | 30.83 | 23.61 | 71.98 | -3,193.51 | -9,442.25 | 9,592.56 | 9,540.86 | 51.70 | 185.541 | | |
| 6,000.00 | 5,821.66 | 4,399.00 | 4,374.88 | 31.37 | 23.83 | 72.01 | -3,198.79 | -9,446.99 | 9,599.68 | 9,547.26 | 52.41 | 183.148 | | |
| 6,100.00 | 5,918.29 | 4,439.98 | 4,415.12 | 31.90 | 24.07 | 72.05 | -3,204.38 | -9,452.33 | 9,607.43 | 9,554.29 | 53.14 | 180.793 | | |
| 6,200.00 | 6,014.93 | 4,495.00 | 4,469.16 | 32.44 | 24.40 | 72.09 | -3,211.48 | -9,459.83 | 9,615.70 | 9,561.75 | 53.94 | 178.263 | | |
| 6,300.00 | 6,111.57 | 4,536.74 | 4,510.13 | 32.98 | 24.65 | 72.13 | -3,216.83 | -9,465.75 | 9,624.50 | 9,569.83 | 54.67 | 176.054 | | |
| 6,400.00 | 6,208.21 | 4,588.00 | 4,560.36 | 33.52 | 24.95 | 72.18 | -3,223.83 | -9,473.23 | 9,633.87 | 9,578.43 | 55.45 | 173.754 | | |
| 6,500.00 | 6,304.84 | 6,256.09 | 6,213.94 | 34.06 | 33.03 | 74.15 | -3,333.82 | -9,611.50 | 9,641.48 | 9,577.97 | 63.51 | 151.810 | | |
| 6,600.00 | 6,401.37 | 6,348.28 | 6,306.12 | 34.60 | 33.37 | 57.50 | -3,333.82 | -9,612.41 | 9,633.11 | 9,568.69 | 64.42 | 149.530 | | |
| 6,700.00 | 6,496.25 | 6,444.28 | 6,402.12 | 35.12 | 33.72 | 34.78 | -3,333.67 | -9,613.41 | 9,611.29 | 9,545.98 | 65.31 | 147.159 | | |
| 6,800.00 | 6,587.15 | 6,538.91 | 6,496.75 | 35.59 | 34.06 | 21.84 | -3,333.27 | -9,614.41 | 9,574.74 | 9,508.59 | 66.14 | 144.763 | | |
| 6,900.00 | 6,671.83 | 6,627.14 | 6,584.97 | 36.03 | 34.38 | 13.85 | -3,332.68 | -9,615.35 | 9,524.34 | 9,457.45 | 66.89 | 142.395 | | |
| 7,000.00 | 6,748.21 | 6,753.74 | 6,711.55 | 36.41 | 34.81 | 8.08 | -3,331.37 | -9,616.51 | 9,461.21 | 9,393.53 | 67.68 | 139.802 | | |
| 7,100.00 | 6,814.41 | 6,891.81 | 6,849.61 | 36.76 | 35.28 | 2.89 | -3,329.07 | -9,616.93 | 9,386.54 | 9,318.13 | 68.41 | 137.205 | | |
| 7,200.00 | 6,868.79 | 7,003.11 | 6,960.88 | 37.07 | 35.66 | -3.25 | -3,326.56 | -9,616.62 | 9,302.38 | 9,233.40 | 68.98 | 134.864 | | |
| 7,300.00 | 6,910.01 | 6,997.27 | 6,955.04 | 37.39 | 35.64 | -12.67 | -3,326.81 | -9,616.75 | 9,211.34 | 9,142.23 | 69.10 | 133.297 | | |
| 7,400.00 | 6,937.07 | 7,017.37 | 6,975.14 | 37.76 | 35.71 | -32.06 | -3,326.40 | -9,616.73 | 9,115.52 | 9,046.29 | 69.23 | 131.678 | | |
| 7,500.00 | 6,949.29 | 7,026.46 | 6,984.23 | 38.27 | 35.74 | -75.39 | -3,326.22 | -9,616.73 | 9,017.32 | 8,948.08 | 69.24 | 130.228 | | |
| 7,600.00 | 6,949.75 | 7,026.78 | 6,984.54 | 39.02 | 35.74 | -92.47 | -3,326.21 | -9,616.73 | 8,918.85 | 8,849.67 | 69.19 | 128.907 | | |
| 7,700.00 | 6,949.37 | 7,026.46 | 6,984.22 | 40.05 | 35.74 | -92.46 | -3,326.22 | -9,616.73 | 8,820.46 | 8,751.32 | 69.14 | 127.579 | | |
| 7,800.00 | 6,948.99 | 7,026.14 | 6,983.90 | 41.35 | 35.74 | -92.44 | -3,326.23 | -9,616.73 | 8,722.10 | 8,653.00 | 69.09 | 126.235 | | |
| 7,900.00 | 6,948.61 | 7,025.82 | 6,983.58 | 42.86 | 35.74 | -92.43 | -3,326.23 | -9,616.73 | 8,623.77 | 8,554.71 | 69.06 | 124.875 | | |
| 8,000.00 | 6,948.23 | 7,025.49 | 6,983.26 | 44.53 | 35.74 | -92.42 | -3,326.24 | -9,616.73 | 8,525.49 | 8,456.45 | 69.03 | 123.497 | | |
| 8,100.00 | 6,947.85 | 7,025.17 | 6,982.94 | 46.34 | 35.74 | -92.41 | -3,326.25 | -9,616.73 | 8,427.24 | 8,358.23 | 69.02 | 122.101 | | |
| 8,200.00 | 6,947.47 | 7,024.84 | 6,982.61 | 48.26 | 35.74 | -92.40 | -3,326.25 | -9,616.73 | 8,329.04 | 8,260.03 | 69.01 | 120.687 | | |
| 8,300.00 | 6,947.09 | 7,024.52 | 6,982.28 | 50.28 | 35.73 | -92.39 | -3,326.26 | -9,616.73 | 8,230.88 | 8,161.86 | 69.02 | 119.255 | | |
| 8,400.00 | 6,946.72 | 7,024.19 | 6,981.95 | 52.39 | 35.73 | -92.37 | -3,326.27 | -9,616.73 | 8,132.77 | 8,063.73 | 69.04 | 117.802 | | |
| 8,500.00 | 6,946.34 | 7,023.86 | 6,981.62 | 54.56 | 35.73 | -92.36 | -3,326.27 | -9,616.73 | 8,034.70 | 7,965.63 | 69.07 | 116.330 | | |
| 8,600.00 | 6,945.96 | 7,023.53 | 6,981.29 | 56.80 | 35.73 | -92.35 | -3,326.28 | -9,616.73 | 7,936.68 | 7,867.57 | 69.11 | 114.837 | | |
| 8,700.00 | 6,945.58 | 7,023.19 | 6,980.96 | 59.10 | 35.73 | -92.34 | -3,326.29 | -9,616.73 | 7,838.71 | 7,769.54 | 69.17 | 113.324 | | |
| 8,800.00 | 6,945.20 | 7,022.86 | 6,980.62 | 61.44 | 35.73 | -92.33 | -3,326.29 | -9,616.73 | 7,740.79 | 7,671.55 | 69.24 | 111.789 | | |
| 8,900.00 | 6,944.82 | 7,022.52 | 6,980.29 | 63.83 | 35.73 | -92.31 | -3,326.30 | -9,616.73 | 7,642.93 | 7,573.60 | 69.34 | 110.232 | | |
| 9,000.00 | 6,944.44 | 7,022.18 | 6,979.95 | 66.25 | 35.73 | -92.30 | -3,326.31 | -9,616.73 | 7,545.12 | 7,475.68 | 69.44 | 108.652 | | |
| 9,100.00 | 6,944.06 | 7,021.84 | 6,979.61 | 68.71 | 35.73 | -92.29 | -3,326.31 | -9,616.73 | 7,447.37 | 7,377.80 | 69.57 | 107.051 | | |
| 9,200.00 | 6,943.68 | 7,021.50 | 6,979.26 | 71.20 | 35.72 | -92.28 | -3,326.32 | -9,616.73 | 7,349.68 | 7,279.97 | 69.71 | 105.426 | | |
| 9,300.00 | 6,943.30 | 7,021.16 | 6,978.92 | 73.72 | 35.72 | -92.26 | -3,326.33 | -9,616.73 | 7,252.06 | 7,182.18 | 69.88 | 103.779 | | |
| 9,400.00 | 6,942.92 | 7,020.81 | 6,978.58 | 76.26 | 35.72 | -92.25 | -3,326.33 | -9,616.73 | 7,154.50 | 7,084.43 | 70.07 | 102.108 | | |
| 9,500.00 | 6,942.54 | 7,020.46 | 6,978.23 | 78.82 | 35.72 | -92.24 | -3,326.34 | -9,616.73 | 7,057.01 | 6,986.73 | 70.28 | 100.414 | | |
| 9,600.00 | 6,942.16 | 7,020.12 | 6,977.88 | 81.40 | 35.72 | -92.23 | -3,326.35 | -9,616.73 | 6,959.59 | 6,889.07 | 70.51 | 98.697 | | |
| 9,700.00 | 6,941.78 | 7,019.77 | 6,977.53 | 84.00 | 35.72 | -92.21 | -3,326.35 | -9,616.73 | 6,862.24 | 6,791.46 | 70.78 | 96.957 | | |
| 9,800.00 | 6,941.40 | 7,019.41 | 6,977.18 | 86.62 | 35.72 | -92.20 | -3,326.36 | -9,616.73 | 6,764.97 | 6,693.90 | 71.07 | 95.194 | | |
| 9,900.00 | 6,941.03 | 7,019.06 | 6,976.83 | 89.25 | 35.72 | -92.19 | -3,326.37 | -9,616.73 | 6,667.78 | 6,596.40 | 71.38 | 93.409 | | |
| 10,000.00 | 6,940.65 | 7,018.71 | 6,976.47 | 91.90 | 35.72 | -92.18 | -3,326.38 | -9,616.73 | 6,570.68 | 6,498.95 | 71.73 | 91.601 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 6-8-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 82-MWDD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,100.00 | 6,940.27 | 7,018.35 | 6,976.11 | 94.56 | 35.71 | -92.16 | -3,326.38 | -9,616.73 | 6,473.66 | 6,401.55 | 72.11 | 89.773 | | |
| 10,200.00 | 6,939.89 | 7,017.99 | 6,975.76 | 97.23 | 35.71 | -92.15 | -3,326.39 | -9,616.73 | 6,376.74 | 6,304.21 | 72.53 | 87.924 | | |
| 10,300.00 | 6,939.51 | 7,017.63 | 6,975.39 | 99.91 | 35.71 | -92.14 | -3,326.40 | -9,616.73 | 6,279.91 | 6,206.93 | 72.98 | 86.055 | | |
| 10,400.00 | 6,939.13 | 7,017.27 | 6,975.03 | 102.60 | 35.71 | -92.12 | -3,326.40 | -9,616.73 | 6,183.18 | 6,109.72 | 73.46 | 84.167 | | |
| 10,500.00 | 6,938.75 | 7,016.90 | 6,974.67 | 105.30 | 35.71 | -92.11 | -3,326.41 | -9,616.73 | 6,086.56 | 6,012.57 | 73.99 | 82.262 | | |
| 10,600.00 | 6,938.37 | 7,016.54 | 6,974.30 | 108.00 | 35.71 | -92.10 | -3,326.42 | -9,616.73 | 5,990.05 | 5,915.49 | 74.56 | 80.341 | | |
| 10,700.00 | 6,937.99 | 7,016.17 | 6,973.93 | 110.72 | 35.71 | -92.08 | -3,326.43 | -9,616.73 | 5,893.66 | 5,818.49 | 75.17 | 78.405 | | |
| 10,800.00 | 6,937.61 | 7,015.80 | 6,973.56 | 113.44 | 35.71 | -92.07 | -3,326.43 | -9,616.73 | 5,797.39 | 5,721.56 | 75.83 | 76.456 | | |
| 10,900.00 | 6,937.23 | 7,015.43 | 6,973.19 | 116.17 | 35.70 | -92.06 | -3,326.44 | -9,616.73 | 5,701.24 | 5,624.71 | 76.53 | 74.495 | | |
| 11,000.00 | 6,936.85 | 7,015.05 | 6,972.82 | 118.90 | 35.70 | -92.04 | -3,326.45 | -9,616.73 | 5,605.24 | 5,527.95 | 77.29 | 72.524 | | |
| 11,100.00 | 6,936.47 | 7,014.68 | 6,972.44 | 121.64 | 35.70 | -92.03 | -3,326.46 | -9,616.73 | 5,509.37 | 5,431.27 | 78.10 | 70.546 | | |
| 11,200.00 | 6,936.09 | 7,014.30 | 6,972.07 | 124.39 | 35.70 | -92.02 | -3,326.46 | -9,616.73 | 5,413.65 | 5,334.69 | 78.96 | 68.562 | | |
| 11,300.00 | 6,935.71 | 7,013.92 | 6,971.69 | 127.14 | 35.70 | -92.00 | -3,326.47 | -9,616.73 | 5,318.09 | 5,238.21 | 79.88 | 66.574 | | |
| 11,400.00 | 6,935.34 | 7,013.54 | 6,971.31 | 129.90 | 35.70 | -91.99 | -3,326.48 | -9,616.73 | 5,222.70 | 5,141.84 | 80.87 | 64.585 | | |
| 11,500.00 | 6,934.96 | 7,013.16 | 6,970.92 | 132.66 | 35.70 | -91.97 | -3,326.49 | -9,616.74 | 5,127.48 | 5,045.57 | 81.91 | 62.597 | | |
| 11,600.00 | 6,934.58 | 7,012.77 | 6,970.54 | 135.42 | 35.70 | -91.96 | -3,326.49 | -9,616.74 | 5,032.45 | 4,949.42 | 83.03 | 60.612 | | |
| 11,700.00 | 6,934.20 | 7,012.38 | 6,970.15 | 138.19 | 35.69 | -91.95 | -3,326.50 | -9,616.74 | 4,937.62 | 4,853.40 | 84.21 | 58.634 | | |
| 11,800.00 | 6,933.82 | 7,012.00 | 6,969.76 | 140.96 | 35.69 | -91.93 | -3,326.51 | -9,616.74 | 4,842.99 | 4,757.52 | 85.47 | 56.663 | | |
| 11,900.00 | 6,933.44 | 7,011.60 | 6,969.37 | 143.74 | 35.69 | -91.92 | -3,326.52 | -9,616.74 | 4,748.58 | 4,661.78 | 86.81 | 54.704 | | |
| 12,000.00 | 6,933.06 | 7,011.21 | 6,968.98 | 146.51 | 35.69 | -91.90 | -3,326.53 | -9,616.74 | 4,654.41 | 4,566.18 | 88.22 | 52.757 | | |
| 12,100.00 | 6,932.68 | 7,010.82 | 6,968.58 | 149.30 | 35.69 | -91.89 | -3,326.53 | -9,616.74 | 4,560.48 | 4,470.75 | 89.73 | 50.827 | | |
| 12,200.00 | 6,932.30 | 7,010.42 | 6,968.19 | 152.08 | 35.69 | -91.87 | -3,326.54 | -9,616.74 | 4,466.82 | 4,375.50 | 91.32 | 48.914 | | |
| 12,300.00 | 6,931.92 | 7,010.02 | 6,967.79 | 154.87 | 35.69 | -91.86 | -3,326.55 | -9,616.74 | 4,373.44 | 4,280.43 | 93.01 | 47.022 | | |
| 12,400.00 | 6,931.54 | 7,009.62 | 6,967.39 | 157.66 | 35.68 | -91.85 | -3,326.56 | -9,616.74 | 4,280.35 | 4,185.56 | 94.80 | 45.154 | | |
| 12,500.00 | 6,931.16 | 7,009.21 | 6,966.98 | 160.45 | 35.68 | -91.83 | -3,326.57 | -9,616.74 | 4,187.59 | 4,090.90 | 96.69 | 43.310 | | |
| 12,600.00 | 6,930.78 | 7,008.81 | 6,966.58 | 163.24 | 35.68 | -91.82 | -3,326.57 | -9,616.74 | 4,095.17 | 3,996.48 | 98.69 | 41.495 | | |
| 12,700.00 | 6,930.40 | 7,008.40 | 6,966.17 | 166.04 | 35.68 | -91.80 | -3,326.58 | -9,616.74 | 4,003.11 | 3,902.30 | 100.81 | 39.709 | | |
| 12,800.00 | 6,930.03 | 7,007.99 | 6,965.76 | 168.84 | 35.68 | -91.79 | -3,326.59 | -9,616.74 | 3,911.44 | 3,808.38 | 103.06 | 37.955 | | |
| 12,900.00 | 6,929.65 | 7,007.58 | 6,965.35 | 171.64 | 35.68 | -91.77 | -3,326.60 | -9,616.74 | 3,820.19 | 3,714.76 | 105.43 | 36.235 | | |
| 13,000.00 | 6,929.27 | 7,007.17 | 6,964.93 | 174.44 | 35.68 | -91.76 | -3,326.61 | -9,616.74 | 3,729.38 | 3,621.44 | 107.94 | 34.551 | | |
| 13,100.00 | 6,928.89 | 7,006.75 | 6,964.52 | 177.24 | 35.67 | -91.74 | -3,326.62 | -9,616.74 | 3,639.06 | 3,528.47 | 110.60 | 32.904 | | |
| 13,200.00 | 6,928.51 | 7,006.33 | 6,964.10 | 180.05 | 35.67 | -91.73 | -3,326.63 | -9,616.74 | 3,549.26 | 3,435.85 | 113.41 | 31.297 | | |
| 13,300.00 | 6,928.13 | 7,005.91 | 6,963.68 | 182.86 | 35.67 | -91.71 | -3,326.63 | -9,616.74 | 3,460.02 | 3,343.64 | 116.38 | 29.730 | | |
| 13,400.00 | 6,927.75 | 7,005.49 | 6,963.25 | 185.67 | 35.67 | -91.70 | -3,326.64 | -9,616.74 | 3,371.38 | 3,251.85 | 119.53 | 28.206 | | |
| 13,500.00 | 6,927.37 | 7,005.06 | 6,962.83 | 188.48 | 35.67 | -91.68 | -3,326.65 | -9,616.74 | 3,283.40 | 3,160.54 | 122.86 | 26.726 | | |
| 13,600.00 | 6,926.99 | 7,004.63 | 6,962.40 | 191.29 | 35.67 | -91.67 | -3,326.66 | -9,616.74 | 3,196.12 | 3,069.74 | 126.38 | 25.290 | | |
| 13,700.00 | 6,926.61 | 7,004.20 | 6,961.97 | 194.10 | 35.67 | -91.65 | -3,326.67 | -9,616.74 | 3,109.61 | 2,979.50 | 130.10 | 23.901 | | |
| 13,800.00 | 6,926.23 | 7,003.77 | 6,961.54 | 196.92 | 35.66 | -91.63 | -3,326.68 | -9,616.74 | 3,023.92 | 2,889.88 | 134.05 | 22.559 | | |
| 13,900.00 | 6,925.85 | 7,003.34 | 6,961.10 | 199.73 | 35.66 | -91.62 | -3,326.69 | -9,616.74 | 2,939.15 | 2,800.93 | 138.22 | 21.265 | | |
| 14,000.00 | 6,925.47 | 7,002.90 | 6,960.67 | 202.55 | 35.66 | -91.60 | -3,326.70 | -9,616.74 | 2,855.36 | 2,712.73 | 142.63 | 20.019 | | |
| 14,100.00 | 6,925.09 | 7,002.46 | 6,960.23 | 205.37 | 35.66 | -91.59 | -3,326.70 | -9,616.74 | 2,772.64 | 2,625.34 | 147.30 | 18.823 | | |
| 14,200.00 | 6,924.71 | 7,002.02 | 6,959.79 | 208.19 | 35.66 | -91.57 | -3,326.71 | -9,616.74 | 2,691.10 | 2,538.87 | 152.23 | 17.678 | | |
| 14,300.00 | 6,924.34 | 7,001.57 | 6,959.34 | 211.01 | 35.66 | -91.55 | -3,326.72 | -9,616.75 | 2,610.84 | 2,453.40 | 157.44 | 16.583 | | |
| 14,400.00 | 6,923.96 | 7,001.13 | 6,958.89 | 213.83 | 35.66 | -91.54 | -3,326.73 | -9,616.75 | 2,531.99 | 2,369.04 | 162.95 | 15.538 | | |
| 14,500.00 | 6,923.58 | 7,000.68 | 6,958.45 | 216.65 | 35.65 | -91.52 | -3,326.74 | -9,616.75 | 2,454.68 | 2,285.92 | 168.76 | 14.546 | | |
| 14,600.00 | 6,923.20 | 7,000.22 | 6,957.99 | 219.48 | 35.65 | -91.51 | -3,326.75 | -9,616.75 | 2,379.06 | 2,204.18 | 174.87 | 13.604 | | |
| 14,700.00 | 6,922.82 | 6,999.77 | 6,957.54 | 222.30 | 35.65 | -91.49 | -3,326.76 | -9,616.75 | 2,305.29 | 2,123.98 | 181.31 | 12.715 | | |
| 14,800.00 | 6,922.44 | 6,999.31 | 6,957.08 | 225.13 | 35.65 | -91.47 | -3,326.77 | -9,616.75 | 2,233.57 | 2,045.51 | 188.07 | 11.877 | | |
| 14,900.00 | 6,922.06 | 6,998.85 | 6,956.62 | 227.95 | 35.65 | -91.46 | -3,326.78 | -9,616.75 | 2,164.10 | 1,968.96 | 195.14 | 11.090 | | |
| 14,915.55 | 6,922.00 | 6,998.78 | 6,956.55 | 228.39 | 35.65 | -91.45 | -3,326.78 | -9,616.75 | 2,153.51 | 1,957.25 | 196.26 | 10.972 CC, ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 8-8-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 172-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 944.37 | 969.79 | 3.28 | 5.61 | -107.65 | -2,813.31 | -8,840.65 | 9,328.04 | | | | | |
| 100.00 | 100.00 | 1,003.00 | 1,026.88 | 3.28 | 5.92 | -107.73 | -2,822.93 | -8,831.36 | 9,317.78 | 9,308.62 | 9.16 | 1,017.530 | | |
| 200.00 | 200.00 | 1,062.32 | 1,084.64 | 3.34 | 6.24 | -107.80 | -2,832.79 | -8,822.18 | 9,307.96 | 9,298.46 | 9.50 | 979.503 | | |
| 300.00 | 299.98 | 1,098.00 | 1,119.48 | 3.44 | 6.43 | 66.96 | -2,838.48 | -8,816.94 | 9,298.07 | 9,288.29 | 9.78 | 950.722 | | |
| 400.00 | 399.84 | 1,140.53 | 1,161.09 | 3.59 | 6.65 | 67.12 | -2,845.01 | -8,811.05 | 9,287.47 | 9,277.34 | 10.14 | 916.326 | | |
| 500.00 | 499.45 | 1,193.00 | 1,212.58 | 3.79 | 6.93 | 67.30 | -2,852.60 | -8,804.44 | 9,276.27 | 9,265.68 | 10.59 | 875.600 | | |
| 600.00 | 598.70 | 1,230.39 | 1,249.31 | 4.03 | 7.13 | 67.51 | -2,858.03 | -8,799.95 | 9,264.28 | 9,253.26 | 11.02 | 840.579 | | |
| 700.00 | 697.47 | 1,304.84 | 1,322.24 | 4.31 | 7.53 | 67.73 | -2,869.90 | -8,790.84 | 9,251.33 | 9,239.64 | 11.69 | 791.437 | | |
| 800.00 | 795.62 | 1,379.00 | 1,394.91 | 4.64 | 7.94 | 67.98 | -2,881.70 | -8,781.98 | 9,237.33 | 9,224.92 | 12.40 | 744.779 | | |
| 900.00 | 893.06 | 1,702.21 | 1,713.04 | 5.00 | 9.67 | 68.39 | -2,923.70 | -8,743.62 | 9,221.91 | 9,207.47 | 14.43 | 638.921 | | |
| 1,000.00 | 989.78 | 1,757.00 | 1,766.95 | 5.39 | 9.97 | 68.58 | -2,930.61 | -8,736.69 | 9,203.73 | 9,188.63 | 15.10 | 609.484 | | |
| 1,100.00 | 1,086.42 | 1,770.99 | 1,780.72 | 5.81 | 10.05 | 68.59 | -2,932.41 | -8,735.01 | 9,185.95 | 9,170.37 | 15.58 | 589.705 | | |
| 1,200.00 | 1,183.06 | 1,833.49 | 1,842.21 | 6.25 | 10.39 | 68.62 | -2,940.79 | -8,727.55 | 9,168.76 | 9,152.42 | 16.33 | 561.356 | | |
| 1,300.00 | 1,279.69 | 2,245.28 | 2,246.20 | 6.71 | 12.76 | 68.80 | -2,996.12 | -8,670.80 | 9,149.02 | 9,130.00 | 19.02 | 481.047 | | |
| 1,400.00 | 1,376.33 | 2,306.98 | 2,306.84 | 7.17 | 13.11 | 68.84 | -3,003.20 | -8,661.86 | 9,128.86 | 9,109.07 | 19.80 | 461.096 | | |
| 1,500.00 | 1,472.97 | 2,321.00 | 2,320.65 | 7.65 | 13.19 | 68.85 | -3,004.66 | -8,659.91 | 9,109.30 | 9,088.96 | 20.34 | 447.921 | | |
| 1,600.00 | 1,569.61 | 2,382.77 | 2,381.51 | 8.13 | 13.53 | 68.89 | -3,011.28 | -8,651.67 | 9,090.19 | 9,069.06 | 21.13 | 430.210 | | |
| 1,700.00 | 1,666.24 | 2,481.78 | 2,478.95 | 8.62 | 14.09 | 68.94 | -3,023.33 | -8,639.01 | 9,071.85 | 9,049.72 | 22.14 | 409.793 | | |
| 1,800.00 | 1,762.88 | 2,574.48 | 2,569.95 | 9.12 | 14.63 | 68.99 | -3,035.73 | -8,626.35 | 9,053.08 | 9,029.95 | 23.13 | 391.431 | | |
| 1,900.00 | 1,859.52 | 2,748.22 | 2,740.34 | 9.62 | 15.66 | 69.07 | -3,059.43 | -8,602.17 | 9,034.15 | 9,009.56 | 24.59 | 367.437 | | |
| 2,000.00 | 1,956.16 | 2,840.66 | 2,830.55 | 10.13 | 16.23 | 69.09 | -3,074.05 | -8,588.25 | 9,014.72 | 8,989.10 | 25.62 | 351.846 | | |
| 2,100.00 | 2,052.79 | 2,890.00 | 2,878.83 | 10.64 | 16.53 | 69.11 | -3,081.22 | -8,581.08 | 8,995.54 | 8,969.13 | 26.41 | 340.599 | | |
| 2,200.00 | 2,149.43 | 2,940.76 | 2,928.64 | 11.15 | 16.83 | 69.14 | -3,088.09 | -8,574.13 | 8,976.87 | 8,949.68 | 27.20 | 330.068 | | |
| 2,300.00 | 2,246.07 | 2,984.00 | 2,971.18 | 11.66 | 17.08 | 69.16 | -3,093.63 | -8,568.69 | 8,958.92 | 8,930.97 | 27.95 | 320.582 | | |
| 2,400.00 | 2,342.71 | 3,057.73 | 3,043.66 | 12.18 | 17.51 | 69.20 | -3,103.61 | -8,559.61 | 8,941.43 | 8,912.57 | 28.87 | 309.766 | | |
| 2,500.00 | 2,439.34 | 3,110.01 | 3,094.98 | 12.70 | 17.80 | 69.22 | -3,111.21 | -8,553.13 | 8,924.23 | 8,894.56 | 29.67 | 300.832 | | |
| 2,600.00 | 2,535.98 | 3,169.00 | 3,153.18 | 13.22 | 18.14 | 69.26 | -3,118.36 | -8,546.72 | 8,907.68 | 8,877.18 | 30.50 | 292.059 | | |
| 2,700.00 | 2,632.62 | 3,194.97 | 3,178.88 | 13.75 | 18.27 | 69.28 | -3,121.11 | -8,544.19 | 8,891.68 | 8,860.53 | 31.15 | 285.448 | | |
| 2,800.00 | 2,729.26 | 3,240.42 | 3,223.90 | 14.27 | 18.50 | 69.31 | -3,125.79 | -8,540.01 | 8,876.32 | 8,844.42 | 31.90 | 278.282 | | |
| 2,900.00 | 2,825.89 | 3,298.31 | 3,281.27 | 14.80 | 18.80 | 69.36 | -3,131.68 | -8,535.07 | 8,861.52 | 8,828.82 | 32.71 | 270.933 | | |
| 3,000.00 | 2,922.53 | 3,367.52 | 3,349.78 | 15.32 | 19.16 | 69.41 | -3,139.52 | -8,529.16 | 8,847.09 | 8,813.52 | 33.58 | 263.493 | | |
| 3,100.00 | 3,019.17 | 3,100.00 | 3,488.26 | 15.85 | 17.79 | 69.51 | -3,154.66 | -8,517.57 | 8,832.84 | 8,800.10 | 32.73 | 269.837 | | |
| 3,200.00 | 3,115.81 | 3,596.15 | 3,576.22 | 16.38 | 20.34 | 69.58 | -3,164.25 | -8,509.64 | 8,817.95 | 8,782.18 | 35.76 | 246.561 | | |
| 3,300.00 | 3,212.44 | 4,080.58 | 4,052.72 | 16.91 | 23.11 | 69.84 | -3,229.16 | -8,453.66 | 8,801.40 | 8,762.53 | 38.87 | 226.451 | | |
| 3,400.00 | 3,309.08 | 4,112.00 | 4,083.51 | 17.44 | 23.30 | 69.85 | -3,233.69 | -8,449.29 | 8,782.84 | 8,743.25 | 39.59 | 221.845 | | |
| 3,500.00 | 3,405.72 | 4,172.89 | 4,143.33 | 17.97 | 23.65 | 69.89 | -3,241.84 | -8,441.37 | 8,764.84 | 8,724.38 | 40.46 | 216.645 | | |
| 3,600.00 | 3,502.36 | 4,228.49 | 4,198.07 | 18.50 | 23.98 | 69.92 | -3,248.81 | -8,434.64 | 8,747.39 | 8,706.09 | 41.30 | 211.807 | | |
| 3,700.00 | 3,598.99 | 4,301.00 | 4,269.26 | 19.03 | 24.40 | 69.95 | -3,259.32 | -8,425.74 | 8,730.33 | 8,688.09 | 42.24 | 206.704 | | |
| 3,800.00 | 3,695.63 | 4,342.36 | 4,309.81 | 19.57 | 24.65 | 69.97 | -3,265.76 | -8,420.74 | 8,713.73 | 8,670.72 | 43.01 | 202.601 | | |
| 3,900.00 | 3,792.27 | 4,396.00 | 4,362.53 | 20.10 | 24.96 | 70.00 | -3,273.65 | -8,414.78 | 8,697.77 | 8,653.92 | 43.85 | 198.352 | | |
| 4,000.00 | 3,888.91 | 4,445.49 | 4,411.26 | 20.63 | 25.24 | 70.02 | -3,280.59 | -8,409.64 | 8,682.35 | 8,637.69 | 44.66 | 194.420 | | |
| 4,100.00 | 3,985.54 | 4,491.00 | 4,456.11 | 21.17 | 25.50 | 70.05 | -3,286.81 | -8,405.10 | 8,667.36 | 8,621.92 | 45.44 | 190.726 | | |
| 4,200.00 | 4,082.18 | 4,546.28 | 4,510.68 | 21.70 | 25.80 | 70.08 | -3,294.04 | -8,399.99 | 8,652.92 | 8,606.65 | 46.27 | 187.003 | | |
| 4,300.00 | 4,178.82 | 4,585.00 | 4,548.97 | 22.24 | 26.01 | 70.11 | -3,298.82 | -8,396.77 | 8,639.15 | 8,592.13 | 47.01 | 183.760 | | |
| 4,400.00 | 4,275.46 | 4,623.76 | 4,587.35 | 22.77 | 26.21 | 70.14 | -3,303.33 | -8,393.90 | 8,626.07 | 8,578.33 | 47.74 | 180.682 | | |
| 4,500.00 | 4,372.09 | 4,680.00 | 4,643.17 | 23.31 | 26.49 | 70.18 | -3,309.30 | -8,390.47 | 8,613.80 | 8,565.24 | 48.55 | 177.405 | | |
| 4,600.00 | 4,468.73 | 4,680.00 | 4,643.17 | 23.84 | 26.49 | 70.18 | -3,309.30 | -8,390.47 | 8,602.16 | 8,553.07 | 49.09 | 175.231 | | |
| 4,700.00 | 4,565.37 | 4,735.41 | 4,698.26 | 24.38 | 26.75 | 70.24 | -3,314.70 | -8,387.84 | 8,591.22 | 8,541.34 | 49.88 | 172.235 | | |
| 4,800.00 | 4,662.01 | 4,908.87 | 4,871.03 | 24.91 | 27.52 | 70.42 | -3,328.32 | -8,380.80 | 8,580.48 | 8,529.29 | 51.19 | 167.633 | | |
| 4,900.00 | 4,758.64 | 4,964.00 | 4,926.00 | 25.45 | 27.76 | 70.48 | -3,331.77 | -8,378.61 | 8,569.35 | 8,517.39 | 51.96 | 164.930 | | |
| 5,000.00 | 4,855.28 | 5,014.89 | 4,976.78 | 25.99 | 27.98 | 70.54 | -3,334.76 | -8,376.91 | 8,558.77 | 8,506.07 | 52.70 | 162.395 | | |
| 5,100.00 | 4,951.92 | 5,067.95 | 5,029.74 | 26.53 | 28.19 | 70.61 | -3,337.62 | -8,375.54 | 8,548.78 | 8,495.32 | 53.45 | 159.928 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 8-8-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 172-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,147.16 | 5,108.91 | 27.06 | 28.49 | 70.72 | -3,339.63 | -8,374.35 | 8,539.17 | 8,484.89 | 54.28 | 157.310 | | |
| 5,300.00 | 5,145.19 | 5,213.68 | 5,175.43 | 27.60 | 28.72 | 70.83 | -3,339.59 | -8,373.98 | 8,529.89 | 8,474.86 | 55.04 | 154.983 | | |
| 5,400.00 | 5,241.83 | 5,278.64 | 5,240.39 | 28.14 | 28.93 | 70.94 | -3,339.55 | -8,373.88 | 8,521.04 | 8,465.26 | 55.78 | 152.753 | | |
| 5,500.00 | 5,338.47 | 5,343.24 | 5,304.99 | 28.67 | 29.14 | 71.05 | -3,339.71 | -8,373.98 | 8,512.62 | 8,456.09 | 56.53 | 150.596 | | |
| 5,600.00 | 5,435.11 | 5,432.75 | 5,394.50 | 29.21 | 29.44 | 71.19 | -3,340.14 | -8,374.27 | 8,504.49 | 8,447.13 | 57.36 | 148.266 | | |
| 5,700.00 | 5,531.74 | 5,522.31 | 5,484.06 | 29.75 | 29.73 | 71.33 | -3,340.64 | -8,374.63 | 8,496.50 | 8,438.31 | 58.19 | 146.003 | | |
| 5,800.00 | 5,628.38 | 5,611.91 | 5,573.65 | 30.29 | 30.03 | 71.48 | -3,341.24 | -8,375.04 | 8,488.67 | 8,429.64 | 59.03 | 143.804 | | |
| 5,900.00 | 5,725.02 | 5,717.33 | 5,679.07 | 30.83 | 30.37 | 71.65 | -3,341.87 | -8,375.54 | 8,480.90 | 8,420.99 | 59.91 | 141.552 | | |
| 6,000.00 | 5,821.66 | 5,824.59 | 5,786.33 | 31.37 | 30.72 | 71.83 | -3,342.20 | -8,375.99 | 8,473.09 | 8,412.28 | 60.80 | 139.350 | | |
| 6,100.00 | 5,918.29 | 5,931.69 | 5,893.43 | 31.90 | 31.07 | 72.00 | -3,342.22 | -8,376.37 | 8,465.22 | 8,403.52 | 61.70 | 137.210 | | |
| 6,200.00 | 6,014.93 | 6,037.33 | 5,999.07 | 32.44 | 31.44 | 72.18 | -3,342.57 | -8,376.56 | 8,457.32 | 8,394.71 | 62.60 | 135.092 | | |
| 6,300.00 | 6,111.57 | 6,143.54 | 6,105.27 | 32.98 | 31.81 | 72.35 | -3,343.39 | -8,376.51 | 8,449.37 | 8,385.86 | 63.51 | 133.038 | | |
| 6,400.00 | 6,208.21 | 6,274.20 | 6,235.93 | 33.52 | 32.29 | 72.56 | -3,344.93 | -8,376.05 | 8,441.30 | 8,376.77 | 64.53 | 130.806 | | |
| 6,500.00 | 6,304.84 | 6,421.63 | 6,383.33 | 34.06 | 32.85 | 72.79 | -3,346.75 | -8,374.69 | 8,432.75 | 8,367.12 | 65.63 | 128.485 | | |
| 6,600.00 | 6,401.37 | 6,521.67 | 6,483.36 | 34.60 | 33.24 | 56.12 | -3,348.11 | -8,373.33 | 8,421.75 | 8,355.19 | 66.55 | 126.538 | | |
| 6,700.00 | 6,496.25 | 6,597.34 | 6,559.01 | 35.12 | 33.54 | 33.28 | -3,349.48 | -8,372.36 | 8,397.55 | 8,330.19 | 67.36 | 124.667 | | |
| 6,800.00 | 6,587.15 | 6,669.91 | 6,631.56 | 35.59 | 33.83 | 20.16 | -3,351.13 | -8,371.53 | 8,359.04 | 8,290.94 | 68.10 | 122.744 | | |
| 6,900.00 | 6,671.83 | 6,737.59 | 6,699.21 | 36.03 | 34.09 | 11.93 | -3,352.95 | -8,370.84 | 8,307.11 | 8,238.34 | 68.77 | 120.799 | | |
| 7,000.00 | 6,748.21 | 6,811.00 | 6,772.58 | 36.41 | 34.38 | 5.75 | -3,355.06 | -8,370.17 | 8,242.93 | 8,173.54 | 69.40 | 118.779 | | |
| 7,100.00 | 6,814.41 | 6,878.34 | 6,839.90 | 36.76 | 34.65 | -0.02 | -3,356.78 | -8,369.60 | 8,167.96 | 8,098.02 | 69.93 | 116.797 | | |
| 7,200.00 | 6,868.79 | 6,933.47 | 6,895.01 | 37.07 | 34.87 | -6.95 | -3,358.01 | -8,369.16 | 8,084.02 | 8,013.68 | 70.35 | 114.917 | | |
| 7,300.00 | 6,910.01 | 6,975.05 | 6,936.58 | 37.39 | 35.03 | -17.66 | -3,358.84 | -8,368.84 | 7,993.21 | 7,922.58 | 70.63 | 113.168 | | |
| 7,400.00 | 6,937.07 | 7,002.08 | 6,963.61 | 37.76 | 35.14 | -38.47 | -3,359.33 | -8,368.64 | 7,897.78 | 7,826.99 | 70.79 | 111.570 | | |
| 7,500.00 | 6,949.29 | 7,013.90 | 6,975.43 | 38.27 | 35.19 | -77.69 | -3,359.54 | -8,368.56 | 7,800.10 | 7,729.27 | 70.83 | 110.130 | | |
| 7,600.00 | 6,949.75 | 7,013.66 | 6,975.19 | 39.02 | 35.19 | -91.91 | -3,359.53 | -8,368.56 | 7,702.28 | 7,631.49 | 70.79 | 108.812 | | |
| 7,700.00 | 6,949.37 | 7,012.55 | 6,974.08 | 40.05 | 35.18 | -91.87 | -3,359.52 | -8,368.56 | 7,604.55 | 7,533.80 | 70.75 | 107.484 | | |
| 7,800.00 | 6,948.99 | 7,011.44 | 6,972.97 | 41.35 | 35.18 | -91.83 | -3,359.50 | -8,368.57 | 7,506.88 | 7,436.15 | 70.73 | 106.137 | | |
| 7,900.00 | 6,948.61 | 7,010.33 | 6,971.86 | 42.86 | 35.17 | -91.79 | -3,359.48 | -8,368.58 | 7,409.27 | 7,338.55 | 70.72 | 104.771 | | |
| 8,000.00 | 6,948.23 | 7,009.22 | 6,970.74 | 44.53 | 35.17 | -91.75 | -3,359.46 | -8,368.59 | 7,311.73 | 7,241.00 | 70.72 | 103.385 | | |
| 8,100.00 | 6,947.85 | 7,008.10 | 6,969.63 | 46.34 | 35.16 | -91.71 | -3,359.44 | -8,368.60 | 7,214.25 | 7,143.51 | 70.74 | 101.978 | | |
| 8,200.00 | 6,947.47 | 7,006.98 | 6,968.51 | 48.26 | 35.16 | -91.67 | -3,359.42 | -8,368.60 | 7,116.84 | 7,046.06 | 70.78 | 100.549 | | |
| 8,300.00 | 6,947.09 | 7,005.86 | 6,967.39 | 50.28 | 35.16 | -91.63 | -3,359.40 | -8,368.61 | 7,019.51 | 6,948.68 | 70.83 | 99.098 | | |
| 8,400.00 | 6,946.72 | 7,004.74 | 6,966.27 | 52.39 | 35.15 | -91.59 | -3,359.38 | -8,368.62 | 6,922.25 | 6,851.35 | 70.91 | 97.624 | | |
| 8,500.00 | 6,946.34 | 7,003.62 | 6,965.15 | 54.56 | 35.15 | -91.55 | -3,359.36 | -8,368.63 | 6,825.08 | 6,754.07 | 71.00 | 96.127 | | |
| 8,600.00 | 6,945.96 | 7,002.50 | 6,964.03 | 56.80 | 35.14 | -91.51 | -3,359.34 | -8,368.64 | 6,727.98 | 6,656.86 | 71.12 | 94.606 | | |
| 8,700.00 | 6,945.58 | 7,001.37 | 6,962.90 | 59.10 | 35.14 | -91.47 | -3,359.32 | -8,368.65 | 6,630.97 | 6,559.71 | 71.25 | 93.060 | | |
| 8,800.00 | 6,945.20 | 7,000.24 | 6,961.77 | 61.44 | 35.13 | -91.43 | -3,359.30 | -8,368.65 | 6,534.05 | 6,462.63 | 71.42 | 91.490 | | |
| 8,900.00 | 6,944.82 | 6,999.11 | 6,960.64 | 63.83 | 35.13 | -91.39 | -3,359.28 | -8,368.66 | 6,437.22 | 6,365.62 | 71.61 | 89.894 | | |
| 9,000.00 | 6,944.44 | 6,997.98 | 6,959.51 | 66.25 | 35.12 | -91.35 | -3,359.26 | -8,368.67 | 6,340.50 | 6,268.67 | 71.83 | 88.273 | | |
| 9,100.00 | 6,944.06 | 6,996.85 | 6,958.38 | 68.71 | 35.12 | -91.31 | -3,359.24 | -8,368.68 | 6,243.87 | 6,171.79 | 72.08 | 86.627 | | |
| 9,200.00 | 6,943.68 | 6,995.71 | 6,957.24 | 71.20 | 35.12 | -91.27 | -3,359.22 | -8,368.69 | 6,147.36 | 6,075.00 | 72.36 | 84.955 | | |
| 9,300.00 | 6,943.30 | 6,994.57 | 6,956.10 | 73.72 | 35.11 | -91.23 | -3,359.20 | -8,368.69 | 6,050.95 | 5,978.28 | 72.68 | 83.259 | | |
| 9,400.00 | 6,942.92 | 6,993.43 | 6,954.96 | 76.26 | 35.11 | -91.19 | -3,359.18 | -8,368.70 | 5,954.67 | 5,881.64 | 73.03 | 81.537 | | |
| 9,500.00 | 6,942.54 | 6,992.29 | 6,953.82 | 78.82 | 35.10 | -91.15 | -3,359.16 | -8,368.71 | 5,858.51 | 5,785.08 | 73.42 | 79.792 | | |
| 9,600.00 | 6,942.16 | 6,991.15 | 6,952.68 | 81.40 | 35.10 | -91.11 | -3,359.14 | -8,368.72 | 5,762.47 | 5,688.62 | 73.86 | 78.023 | | |
| 9,700.00 | 6,941.78 | 6,990.01 | 6,951.54 | 84.00 | 35.09 | -91.07 | -3,359.12 | -8,368.73 | 5,666.58 | 5,592.25 | 74.33 | 76.231 | | |
| 9,800.00 | 6,941.40 | 6,988.86 | 6,950.39 | 86.62 | 35.09 | -91.03 | -3,359.10 | -8,368.74 | 5,570.83 | 5,495.97 | 74.86 | 74.418 | | |
| 9,900.00 | 6,941.03 | 6,987.71 | 6,949.24 | 89.25 | 35.08 | -90.99 | -3,359.08 | -8,368.75 | 5,475.23 | 5,399.80 | 75.43 | 72.585 | | |
| 10,000.00 | 6,940.65 | 6,986.56 | 6,948.09 | 91.90 | 35.08 | -90.95 | -3,359.06 | -8,368.75 | 5,379.80 | 5,303.74 | 76.06 | 70.733 | | |
| 10,100.00 | 6,940.27 | 6,985.41 | 6,946.94 | 94.56 | 35.07 | -90.91 | -3,359.04 | -8,368.76 | 5,284.53 | 5,207.79 | 76.74 | 68.864 | | |
| 10,200.00 | 6,939.89 | 6,984.25 | 6,945.78 | 97.23 | 35.07 | -90.87 | -3,359.01 | -8,368.77 | 5,189.43 | 5,111.96 | 77.48 | 66.981 | | |
| 10,300.00 | 6,939.51 | 6,983.10 | 6,944.63 | 99.91 | 35.07 | -90.83 | -3,358.99 | -8,368.78 | 5,094.53 | 5,016.25 | 78.28 | 65.084 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - FRITZLER 8-8-17(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 172-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,981.94 | 6,943.47 | 102.60 | 35.06 | -90.79 | -3,358.97 | -8,368.79 | 4,999.83 | 4,920.69 | 79.14 | 63.177 | | |
| 10,500.00 | 6,938.75 | 6,980.78 | 6,942.31 | 105.30 | 35.06 | -90.75 | -3,358.95 | -8,368.80 | 4,905.33 | 4,825.26 | 80.07 | 61.262 | | |
| 10,600.00 | 6,938.37 | 6,979.61 | 6,941.15 | 108.00 | 35.05 | -90.71 | -3,358.93 | -8,368.80 | 4,811.06 | 4,729.98 | 81.08 | 59.341 | | |
| 10,700.00 | 6,937.99 | 6,978.45 | 6,939.98 | 110.72 | 35.05 | -90.66 | -3,358.91 | -8,368.81 | 4,717.02 | 4,634.87 | 82.15 | 57.417 | | |
| 10,800.00 | 6,937.61 | 6,977.28 | 6,938.82 | 113.44 | 35.04 | -90.62 | -3,358.88 | -8,368.82 | 4,623.23 | 4,539.92 | 83.31 | 55.494 | | |
| 10,900.00 | 6,937.23 | 6,976.12 | 6,937.65 | 116.17 | 35.04 | -90.58 | -3,358.86 | -8,368.83 | 4,529.71 | 4,445.16 | 84.55 | 53.574 | | |
| 11,000.00 | 6,936.85 | 6,974.95 | 6,936.48 | 118.90 | 35.03 | -90.54 | -3,358.84 | -8,368.84 | 4,436.47 | 4,350.59 | 85.88 | 51.660 | | |
| 11,100.00 | 6,936.47 | 6,973.78 | 6,935.31 | 121.64 | 35.03 | -90.50 | -3,358.82 | -8,368.85 | 4,343.53 | 4,256.23 | 87.30 | 49.755 | | |
| 11,200.00 | 6,936.09 | 6,972.60 | 6,934.14 | 124.39 | 35.02 | -90.46 | -3,358.80 | -8,368.86 | 4,250.91 | 4,162.10 | 88.81 | 47.863 | | |
| 11,300.00 | 6,935.71 | 6,971.43 | 6,932.96 | 127.14 | 35.02 | -90.42 | -3,358.77 | -8,368.87 | 4,158.63 | 4,068.20 | 90.43 | 45.987 | | |
| 11,400.00 | 6,935.34 | 6,970.25 | 6,931.78 | 129.90 | 35.01 | -90.37 | -3,358.75 | -8,368.87 | 4,066.72 | 3,974.56 | 92.16 | 44.129 | | |
| 11,500.00 | 6,934.96 | 6,969.07 | 6,930.60 | 132.66 | 35.01 | -90.33 | -3,358.73 | -8,368.88 | 3,975.20 | 3,881.20 | 93.99 | 42.292 | | |
| 11,600.00 | 6,934.58 | 6,967.89 | 6,929.42 | 135.42 | 35.01 | -90.29 | -3,358.71 | -8,368.89 | 3,884.09 | 3,788.14 | 95.95 | 40.481 | | |
| 11,700.00 | 6,934.20 | 6,966.70 | 6,928.24 | 138.19 | 35.00 | -90.25 | -3,358.68 | -8,368.90 | 3,793.43 | 3,695.40 | 98.03 | 38.697 | | |
| 11,800.00 | 6,933.82 | 6,965.52 | 6,927.05 | 140.96 | 35.00 | -90.21 | -3,358.66 | -8,368.91 | 3,703.26 | 3,603.02 | 100.24 | 36.944 | | |
| 11,900.00 | 6,933.44 | 6,964.33 | 6,925.87 | 143.74 | 34.99 | -90.17 | -3,358.64 | -8,368.92 | 3,613.60 | 3,511.01 | 102.59 | 35.223 | | |
| 12,000.00 | 6,933.06 | 6,963.14 | 6,924.68 | 146.51 | 34.99 | -90.12 | -3,358.61 | -8,368.93 | 3,524.49 | 3,419.40 | 105.09 | 33.539 | | |
| 12,100.00 | 6,932.68 | 6,961.95 | 6,923.48 | 149.30 | 34.98 | -90.08 | -3,358.59 | -8,368.94 | 3,435.99 | 3,328.25 | 107.74 | 31.893 | | |
| 12,200.00 | 6,932.30 | 6,960.75 | 6,922.29 | 152.08 | 34.98 | -90.04 | -3,358.57 | -8,368.95 | 3,348.13 | 3,237.58 | 110.55 | 30.287 | | |
| 12,300.00 | 6,931.92 | 6,959.56 | 6,921.10 | 154.87 | 34.97 | -90.00 | -3,358.54 | -8,368.96 | 3,260.97 | 3,147.44 | 113.53 | 28.723 | | |
| 12,400.00 | 6,931.54 | 6,958.36 | 6,919.90 | 157.66 | 34.97 | -89.95 | -3,358.52 | -8,368.96 | 3,174.57 | 3,057.87 | 116.69 | 27.204 | | |
| 12,500.00 | 6,931.16 | 6,957.16 | 6,918.70 | 160.45 | 34.96 | -89.91 | -3,358.50 | -8,368.97 | 3,088.99 | 2,968.94 | 120.05 | 25.732 | | |
| 12,600.00 | 6,930.78 | 6,955.96 | 6,917.50 | 163.24 | 34.96 | -89.87 | -3,358.47 | -8,368.98 | 3,004.29 | 2,880.70 | 123.60 | 24.307 | | |
| 12,700.00 | 6,930.40 | 6,954.76 | 6,916.29 | 166.04 | 34.95 | -89.83 | -3,358.45 | -8,368.99 | 2,920.57 | 2,793.21 | 127.36 | 22.932 | | |
| 12,800.00 | 6,930.03 | 6,953.55 | 6,915.09 | 168.84 | 34.95 | -89.78 | -3,358.42 | -8,369.00 | 2,837.90 | 2,706.56 | 131.34 | 21.607 | | |
| 12,900.00 | 6,929.65 | 6,952.34 | 6,913.88 | 171.64 | 34.94 | -89.74 | -3,358.40 | -8,369.01 | 2,756.38 | 2,620.83 | 135.55 | 20.335 | | |
| 13,000.00 | 6,929.27 | 6,951.13 | 6,912.67 | 174.44 | 34.94 | -89.70 | -3,358.38 | -8,369.02 | 2,676.11 | 2,536.11 | 140.00 | 19.115 | | |
| 13,100.00 | 6,928.89 | 6,949.92 | 6,911.46 | 177.24 | 34.93 | -89.66 | -3,358.35 | -8,369.03 | 2,597.21 | 2,452.51 | 144.70 | 17.949 | | |
| 13,200.00 | 6,928.51 | 6,948.71 | 6,910.25 | 180.05 | 34.93 | -89.61 | -3,358.33 | -8,369.04 | 2,519.81 | 2,370.16 | 149.65 | 16.838 | | |
| 13,300.00 | 6,928.13 | 6,947.49 | 6,909.03 | 182.86 | 34.92 | -89.57 | -3,358.30 | -8,369.05 | 2,444.05 | 2,289.18 | 154.87 | 15.781 | | |
| 13,400.00 | 6,927.75 | 6,946.27 | 6,907.81 | 185.67 | 34.92 | -89.53 | -3,358.28 | -8,369.06 | 2,370.08 | 2,209.73 | 160.36 | 14.780 | | |
| 13,500.00 | 6,927.37 | 6,945.05 | 6,906.59 | 188.48 | 34.91 | -89.48 | -3,358.25 | -8,369.07 | 2,298.09 | 2,131.98 | 166.11 | 13.835 | | |
| 13,600.00 | 6,926.99 | 6,943.83 | 6,905.37 | 191.29 | 34.91 | -89.44 | -3,358.23 | -8,369.08 | 2,228.26 | 2,056.13 | 172.13 | 12.945 | | |
| 13,700.00 | 6,926.61 | 6,942.61 | 6,904.15 | 194.10 | 34.91 | -89.40 | -3,358.20 | -8,369.09 | 2,160.80 | 1,982.40 | 178.40 | 12.112 | | |
| 13,800.00 | 6,926.23 | 6,941.38 | 6,902.92 | 196.92 | 34.90 | -89.35 | -3,358.18 | -8,369.09 | 2,095.94 | 1,911.02 | 184.92 | 11.334 | | |
| 13,900.00 | 6,925.85 | 6,940.15 | 6,901.69 | 199.73 | 34.90 | -89.31 | -3,358.15 | -8,369.10 | 2,033.94 | 1,842.28 | 191.66 | 10.612 | | |
| 14,000.00 | 6,925.47 | 6,938.92 | 6,900.46 | 202.55 | 34.89 | -89.27 | -3,358.13 | -8,369.11 | 1,975.05 | 1,776.47 | 198.58 | 9.946 | | |
| 14,100.00 | 6,925.09 | 6,937.69 | 6,899.23 | 205.37 | 34.89 | -89.22 | -3,358.10 | -8,369.12 | 1,919.56 | 1,713.92 | 205.64 | 9.334 | | |
| 14,200.00 | 6,924.71 | 6,936.45 | 6,898.00 | 208.19 | 34.88 | -89.18 | -3,358.08 | -8,369.13 | 1,867.79 | 1,655.00 | 212.79 | 8.778 | | |
| 14,300.00 | 6,924.34 | 6,935.22 | 6,896.76 | 211.01 | 34.88 | -89.14 | -3,358.05 | -8,369.14 | 1,820.04 | 1,600.08 | 219.95 | 8.275 | | |
| 14,400.00 | 6,923.96 | 6,933.98 | 6,895.52 | 213.83 | 34.87 | -89.09 | -3,358.02 | -8,369.15 | 1,776.63 | 1,549.59 | 227.05 | 7.825 | | |
| 14,500.00 | 6,923.58 | 6,932.74 | 6,894.28 | 216.65 | 34.87 | -89.05 | -3,358.00 | -8,369.16 | 1,737.91 | 1,503.94 | 233.97 | 7.428 | | |
| 14,600.00 | 6,923.20 | 6,931.49 | 6,893.04 | 219.48 | 34.86 | -89.00 | -3,357.97 | -8,369.17 | 1,704.18 | 1,463.55 | 240.62 | 7.082 | | |
| 14,700.00 | 6,922.82 | 6,930.25 | 6,891.79 | 222.30 | 34.86 | -88.96 | -3,357.94 | -8,369.18 | 1,675.74 | 1,428.86 | 246.88 | 6.788 | | |
| 14,800.00 | 6,922.44 | 6,929.00 | 6,890.54 | 225.13 | 34.85 | -88.92 | -3,357.92 | -8,369.19 | 1,652.88 | 1,400.24 | 252.64 | 6.542 | | |
| 14,900.00 | 6,922.06 | 6,927.75 | 6,889.29 | 227.95 | 34.85 | -88.87 | -3,357.89 | -8,369.20 | 1,635.82 | 1,378.04 | 257.78 | 6.346 | | |
| 14,915.55 | 6,922.00 | 6,927.56 | 6,889.10 | 228.39 | 34.85 | -88.86 | -3,357.89 | -8,369.20 | 1,633.70 | 1,375.18 | 258.51 | 6.320 CC, ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| HARVESTERS STATE 7-15 PAD - GREELEY SWD #1(XX) - OH - OH | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 0.00 | 0.00 | 0.00 | 64.00 | 3.28 | 3.28 | -132.30 | -3,066.13 | -3,369.53 | 4,556.20 | | | | |
| 100.00 | 100.00 | 36.00 | 100.00 | 3.28 | 3.34 | -132.30 | -3,066.13 | -3,369.53 | 4,555.75 | 4,549.13 | 6.62 | 687.726 | |
| 200.00 | 200.00 | 136.00 | 200.00 | 3.34 | 4.45 | -132.30 | -3,066.13 | -3,369.53 | 4,555.75 | 4,547.97 | 7.78 | 585.302 | |
| 300.00 | 299.98 | 235.98 | 299.98 | 3.44 | 7.27 | 42.35 | -3,066.13 | -3,369.53 | 4,554.46 | 4,543.75 | 10.71 | 425.104 | |
| 400.00 | 399.84 | 335.84 | 399.84 | 3.59 | 10.50 | 42.45 | -3,066.13 | -3,369.53 | 4,550.60 | 4,536.50 | 14.09 | 322.868 | |
| 500.00 | 499.45 | 435.45 | 499.45 | 3.79 | 13.85 | 42.61 | -3,066.13 | -3,369.53 | 4,544.16 | 4,526.52 | 17.64 | 257.611 | |
| 600.00 | 598.70 | 534.70 | 598.70 | 4.03 | 17.24 | 42.83 | -3,066.13 | -3,369.53 | 4,535.18 | 4,513.91 | 21.27 | 213.242 | |
| 700.00 | 697.47 | 633.47 | 697.47 | 4.31 | 20.63 | 43.13 | -3,066.13 | -3,369.53 | 4,523.67 | 4,498.72 | 24.94 | 181.354 | |
| 800.00 | 795.62 | 731.62 | 795.62 | 4.64 | 24.02 | 43.49 | -3,066.13 | -3,369.53 | 4,509.66 | 4,481.01 | 28.65 | 157.413 | |
| 900.00 | 893.06 | 829.06 | 893.06 | 5.00 | 27.39 | 43.91 | -3,066.13 | -3,369.53 | 4,493.20 | 4,460.83 | 32.37 | 138.812 | |
| 1,000.00 | 989.78 | 925.78 | 989.78 | 5.39 | 30.75 | 44.25 | -3,066.13 | -3,369.53 | 4,474.69 | 4,438.59 | 36.10 | 123.960 | |
| 1,100.00 | 1,086.42 | 1,022.42 | 1,086.42 | 5.81 | 34.11 | 44.48 | -3,066.13 | -3,369.53 | 4,456.00 | 4,416.16 | 39.84 | 111.835 | |
| 1,200.00 | 1,183.06 | 1,119.06 | 1,183.06 | 6.25 | 37.46 | 44.70 | -3,066.13 | -3,369.53 | 4,437.38 | 4,393.77 | 43.61 | 101.747 | |
| 1,300.00 | 1,279.69 | 1,215.69 | 1,279.69 | 6.71 | 40.83 | 44.94 | -3,066.13 | -3,369.53 | 4,418.84 | 4,371.44 | 47.40 | 93.232 | |
| 1,400.00 | 1,376.33 | 1,312.33 | 1,376.33 | 7.17 | 44.19 | 45.17 | -3,066.13 | -3,369.53 | 4,400.36 | 4,349.17 | 51.19 | 85.954 | |
| 1,500.00 | 1,472.97 | 1,408.97 | 1,472.97 | 7.65 | 47.55 | 45.40 | -3,066.13 | -3,369.53 | 4,381.96 | 4,326.96 | 55.00 | 79.666 | |
| 1,600.00 | 1,569.61 | 1,505.61 | 1,569.61 | 8.13 | 50.92 | 45.64 | -3,066.13 | -3,369.53 | 4,363.63 | 4,304.81 | 58.82 | 74.181 | |
| 1,700.00 | 1,666.24 | 1,602.24 | 1,666.24 | 8.62 | 54.29 | 45.88 | -3,066.13 | -3,369.53 | 4,345.38 | 4,282.73 | 62.65 | 69.358 | |
| 1,800.00 | 1,762.88 | 1,701.12 | 1,762.88 | 9.12 | 57.73 | 46.12 | -3,066.13 | -3,369.53 | 4,327.20 | 4,260.64 | 66.56 | 65.008 | |
| 1,900.00 | 1,859.52 | 1,804.48 | 1,859.52 | 9.62 | 61.34 | 46.36 | -3,066.13 | -3,369.53 | 4,309.10 | 4,238.47 | 70.64 | 61.002 | |
| 2,000.00 | 1,956.16 | 1,907.84 | 1,956.16 | 10.13 | 64.94 | 46.60 | -3,066.13 | -3,369.53 | 4,291.08 | 4,216.36 | 74.72 | 57.429 | |
| 2,100.00 | 2,052.79 | 1,988.79 | 2,052.79 | 10.64 | 67.76 | 46.85 | -3,066.13 | -3,369.53 | 4,273.14 | 4,195.12 | 78.02 | 54.768 | |
| 2,200.00 | 2,149.43 | 2,085.43 | 2,149.43 | 11.15 | 71.13 | 47.10 | -3,066.13 | -3,369.53 | 4,255.27 | 4,173.40 | 81.88 | 51.971 | |
| 2,300.00 | 2,246.07 | 2,182.07 | 2,246.07 | 11.66 | 74.50 | 47.35 | -3,066.13 | -3,369.53 | 4,237.49 | 4,151.76 | 85.74 | 49.425 | |
| 2,400.00 | 2,342.71 | 2,278.71 | 2,342.71 | 12.18 | 77.87 | 47.60 | -3,066.13 | -3,369.53 | 4,219.79 | 4,130.19 | 89.60 | 47.097 | |
| 2,500.00 | 2,439.34 | 2,375.34 | 2,439.34 | 12.70 | 81.24 | 47.85 | -3,066.13 | -3,369.53 | 4,202.17 | 4,108.71 | 93.46 | 44.962 | |
| 2,600.00 | 2,535.98 | 2,471.98 | 2,535.98 | 13.22 | 84.62 | 48.11 | -3,066.13 | -3,369.53 | 4,184.64 | 4,087.31 | 97.33 | 42.995 | |
| 2,700.00 | 2,632.62 | 2,568.62 | 2,632.62 | 13.75 | 87.99 | 48.37 | -3,066.13 | -3,369.53 | 4,167.19 | 4,065.99 | 101.20 | 41.179 | |
| 2,800.00 | 2,729.26 | 2,665.26 | 2,729.26 | 14.27 | 91.36 | 48.63 | -3,066.13 | -3,369.53 | 4,149.82 | 4,044.75 | 105.07 | 39.496 | |
| 2,900.00 | 2,825.89 | 2,761.89 | 2,825.89 | 14.80 | 94.73 | 48.89 | -3,066.13 | -3,369.53 | 4,132.54 | 4,023.60 | 108.94 | 37.933 | |
| 3,000.00 | 2,922.53 | 2,858.53 | 2,922.53 | 15.32 | 98.10 | 49.16 | -3,066.13 | -3,369.53 | 4,115.36 | 4,002.54 | 112.82 | 36.478 | |
| 3,100.00 | 3,019.17 | 2,955.17 | 3,019.17 | 15.85 | 101.47 | 49.42 | -3,066.13 | -3,369.53 | 4,098.26 | 3,981.56 | 116.70 | 35.119 | |
| 3,200.00 | 3,115.81 | 3,051.81 | 3,115.81 | 16.38 | 104.84 | 49.69 | -3,066.13 | -3,369.53 | 4,081.25 | 3,960.67 | 120.58 | 33.848 | |
| 3,300.00 | 3,212.44 | 3,148.44 | 3,212.44 | 16.91 | 108.22 | 49.96 | -3,066.13 | -3,369.53 | 4,064.33 | 3,939.87 | 124.46 | 32.657 | |
| 3,400.00 | 3,309.08 | 3,245.08 | 3,309.08 | 17.44 | 111.59 | 50.24 | -3,066.13 | -3,369.53 | 4,047.50 | 3,919.17 | 128.34 | 31.538 | |
| 3,500.00 | 3,405.72 | 3,341.72 | 3,405.72 | 17.97 | 114.96 | 50.51 | -3,066.13 | -3,369.53 | 4,030.77 | 3,898.55 | 132.22 | 30.485 | |
| 3,600.00 | 3,502.36 | 3,438.36 | 3,502.36 | 18.50 | 118.33 | 50.79 | -3,066.13 | -3,369.53 | 4,014.14 | 3,878.03 | 136.11 | 29.492 | |
| 3,700.00 | 3,598.99 | 3,534.99 | 3,598.99 | 19.03 | 121.71 | 51.07 | -3,066.13 | -3,369.53 | 3,997.60 | 3,857.60 | 139.99 | 28.555 | |
| 3,800.00 | 3,695.63 | 3,631.63 | 3,695.63 | 19.57 | 125.08 | 51.35 | -3,066.13 | -3,369.53 | 3,981.15 | 3,837.27 | 143.88 | 27.669 | |
| 3,900.00 | 3,792.27 | 3,728.27 | 3,792.27 | 20.10 | 128.45 | 51.63 | -3,066.13 | -3,369.53 | 3,964.81 | 3,817.04 | 147.77 | 26.831 | |
| 4,000.00 | 3,888.91 | 3,824.91 | 3,888.91 | 20.63 | 131.82 | 51.92 | -3,066.13 | -3,369.53 | 3,948.56 | 3,796.90 | 151.66 | 26.035 | |
| 4,100.00 | 3,985.54 | 3,921.54 | 3,985.54 | 21.17 | 135.20 | 52.21 | -3,066.13 | -3,369.53 | 3,932.42 | 3,776.87 | 155.55 | 25.280 | |
| 4,200.00 | 4,082.18 | 4,018.18 | 4,082.18 | 21.70 | 138.57 | 52.50 | -3,066.13 | -3,369.53 | 3,916.38 | 3,756.93 | 159.45 | 24.562 | |
| 4,300.00 | 4,178.82 | 4,114.82 | 4,178.82 | 22.24 | 141.94 | 52.79 | -3,066.13 | -3,369.53 | 3,900.44 | 3,737.10 | 163.34 | 23.879 | |
| 4,400.00 | 4,275.46 | 4,211.46 | 4,275.46 | 22.77 | 145.31 | 53.09 | -3,066.13 | -3,369.53 | 3,884.61 | 3,717.37 | 167.24 | 23.228 | |
| 4,500.00 | 4,372.09 | 4,308.09 | 4,372.09 | 23.31 | 148.69 | 53.39 | -3,066.13 | -3,369.53 | 3,868.88 | 3,697.75 | 171.13 | 22.608 | |
| 4,600.00 | 4,468.73 | 4,404.73 | 4,468.73 | 23.84 | 152.06 | 53.69 | -3,066.13 | -3,369.53 | 3,853.26 | 3,678.24 | 175.03 | 22.015 | |
| 4,700.00 | 4,565.37 | 4,501.37 | 4,565.37 | 24.38 | 155.43 | 53.99 | -3,066.13 | -3,369.53 | 3,837.75 | 3,658.83 | 178.93 | 21.449 | |
| 4,800.00 | 4,662.01 | 4,601.99 | 4,662.01 | 24.91 | 158.94 | 54.30 | -3,066.13 | -3,369.53 | 3,822.35 | 3,639.39 | 182.97 | 20.891 | |
| 4,900.00 | 4,758.64 | 4,705.36 | 4,758.64 | 25.45 | 162.55 | 54.60 | -3,066.13 | -3,369.53 | 3,807.06 | 3,619.96 | 187.10 | 20.348 | |
| 5,000.00 | 4,855.28 | 4,808.72 | 4,855.28 | 25.99 | 166.16 | 54.91 | -3,066.13 | -3,369.53 | 3,791.89 | 3,600.65 | 191.24 | 19.828 | |
| 5,100.00 | 4,951.92 | 4,887.92 | 4,951.92 | 26.53 | 169.92 | 55.22 | -3,066.13 | -3,369.53 | 3,776.83 | 3,582.30 | 194.53 | 19.415 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - GREELEY SWD #1(XX) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,984.56 | 5,048.56 | 27.06 | 172.30 | 55.54 | -3,066.13 | -3,369.53 | 3,761.88 | 3,563.45 | 198.43 | 18.958 | | |
| 5,300.00 | 5,145.19 | 5,081.19 | 5,145.19 | 27.60 | 175.67 | 55.86 | -3,066.13 | -3,369.53 | 3,747.05 | 3,544.71 | 202.34 | 18.519 | | |
| 5,400.00 | 5,241.83 | 5,177.83 | 5,241.83 | 28.14 | 179.04 | 56.17 | -3,066.13 | -3,369.53 | 3,732.34 | 3,526.10 | 206.24 | 18.097 | | |
| 5,500.00 | 5,338.47 | 5,274.47 | 5,338.47 | 28.67 | 182.42 | 56.50 | -3,066.13 | -3,369.53 | 3,717.75 | 3,507.60 | 210.15 | 17.691 | | |
| 5,600.00 | 5,435.11 | 5,371.11 | 5,435.11 | 29.21 | 185.79 | 56.82 | -3,066.13 | -3,369.53 | 3,703.27 | 3,489.22 | 214.05 | 17.301 | | |
| 5,700.00 | 5,531.74 | 5,467.74 | 5,531.74 | 29.75 | 189.16 | 57.15 | -3,066.13 | -3,369.53 | 3,688.93 | 3,470.96 | 217.96 | 16.925 | | |
| 5,800.00 | 5,628.38 | 5,564.38 | 5,628.38 | 30.29 | 192.54 | 57.48 | -3,066.13 | -3,369.53 | 3,674.70 | 3,452.83 | 221.87 | 16.562 | | |
| 5,900.00 | 5,725.02 | 5,661.02 | 5,725.02 | 30.83 | 195.91 | 57.81 | -3,066.13 | -3,369.53 | 3,660.60 | 3,434.82 | 225.78 | 16.213 | | |
| 6,000.00 | 5,821.66 | 5,757.66 | 5,821.66 | 31.37 | 199.28 | 58.14 | -3,066.13 | -3,369.53 | 3,646.63 | 3,416.94 | 229.69 | 15.876 | | |
| 6,100.00 | 5,918.29 | 5,854.29 | 5,918.29 | 31.90 | 202.65 | 58.48 | -3,066.13 | -3,369.53 | 3,632.78 | 3,399.18 | 233.60 | 15.551 | | |
| 6,200.00 | 6,014.93 | 5,950.93 | 6,014.93 | 32.44 | 206.03 | 58.81 | -3,066.13 | -3,369.53 | 3,619.07 | 3,381.56 | 237.51 | 15.237 | | |
| 6,300.00 | 6,111.57 | 6,047.57 | 6,111.57 | 32.98 | 209.40 | 59.16 | -3,066.13 | -3,369.53 | 3,605.49 | 3,364.06 | 241.43 | 14.934 | | |
| 6,400.00 | 6,208.21 | 6,144.21 | 6,208.21 | 33.52 | 212.77 | 59.50 | -3,066.13 | -3,369.53 | 3,592.04 | 3,346.70 | 245.34 | 14.641 | | |
| 6,500.00 | 6,304.84 | 6,240.84 | 6,304.84 | 34.06 | 216.15 | 59.84 | -3,066.13 | -3,369.53 | 3,578.72 | 3,329.46 | 249.26 | 14.358 | | |
| 6,600.00 | 6,401.37 | 6,337.37 | 6,401.37 | 34.60 | 219.52 | 43.14 | -3,066.13 | -3,369.53 | 3,563.58 | 3,310.41 | 253.16 | 14.076 | | |
| 6,700.00 | 6,496.25 | 6,432.25 | 6,496.25 | 35.12 | 222.83 | 19.82 | -3,066.13 | -3,369.53 | 3,536.16 | 3,279.19 | 256.97 | 13.761 | | |
| 6,800.00 | 6,587.15 | 6,523.15 | 6,587.15 | 35.59 | 226.00 | 5.78 | -3,066.13 | -3,369.53 | 3,495.49 | 3,234.90 | 260.59 | 13.414 | | |
| 6,900.00 | 6,671.83 | 6,607.83 | 6,671.83 | 36.03 | 228.96 | -3.93 | -3,066.13 | -3,369.53 | 3,442.49 | 3,178.58 | 263.92 | 13.044 | | |
| 7,000.00 | 6,748.21 | 6,684.21 | 6,748.21 | 36.41 | 231.62 | -12.32 | -3,066.13 | -3,369.53 | 3,378.49 | 3,111.60 | 266.89 | 12.659 | | |
| 7,100.00 | 6,814.41 | 6,750.41 | 6,814.41 | 36.76 | 233.93 | -21.28 | -3,066.13 | -3,369.53 | 3,305.10 | 3,035.68 | 269.43 | 12.267 | | |
| 7,200.00 | 6,868.79 | 6,804.79 | 6,868.79 | 37.07 | 235.83 | -32.40 | -3,066.13 | -3,369.53 | 3,224.23 | 2,952.75 | 271.47 | 11.877 | | |
| 7,300.00 | 6,910.01 | 6,846.01 | 6,910.01 | 37.39 | 237.27 | -47.10 | -3,066.13 | -3,369.53 | 3,138.00 | 2,865.01 | 272.99 | 11.495 | | |
| 7,400.00 | 6,937.07 | 6,873.07 | 6,937.07 | 37.76 | 238.22 | -65.50 | -3,066.13 | -3,369.53 | 3,048.75 | 2,774.78 | 273.97 | 11.128 | | |
| 7,500.00 | 6,949.29 | 6,885.29 | 6,949.29 | 38.27 | 238.64 | -84.66 | -3,066.13 | -3,369.53 | 2,958.88 | 2,684.48 | 274.40 | 10.783 | | |
| 7,600.00 | 6,949.75 | 6,885.75 | 6,949.75 | 39.02 | 238.66 | -90.40 | -3,066.13 | -3,369.53 | 2,870.30 | 2,595.85 | 274.44 | 10.459 | | |
| 7,700.00 | 6,949.37 | 6,885.37 | 6,949.37 | 40.05 | 238.65 | -90.39 | -3,066.13 | -3,369.53 | 2,782.59 | 2,508.05 | 274.54 | 10.136 | | |
| 7,800.00 | 6,948.99 | 6,884.99 | 6,948.99 | 41.35 | 238.63 | -90.37 | -3,066.13 | -3,369.53 | 2,695.73 | 2,421.01 | 274.72 | 9.812 | | |
| 7,900.00 | 6,948.61 | 6,884.61 | 6,948.61 | 42.86 | 238.62 | -90.36 | -3,066.13 | -3,369.53 | 2,609.82 | 2,334.80 | 275.02 | 9.490 | | |
| 8,000.00 | 6,948.23 | 6,884.23 | 6,948.23 | 44.53 | 238.61 | -90.34 | -3,066.13 | -3,369.53 | 2,524.95 | 2,249.50 | 275.44 | 9.167 | | |
| 8,100.00 | 6,947.85 | 6,883.85 | 6,947.85 | 46.34 | 238.59 | -90.32 | -3,066.13 | -3,369.53 | 2,441.22 | 2,165.20 | 276.01 | 8.845 | | |
| 8,200.00 | 6,947.47 | 6,883.47 | 6,947.47 | 48.26 | 238.58 | -90.31 | -3,066.13 | -3,369.53 | 2,358.75 | 2,082.00 | 276.75 | 8.523 | | |
| 8,300.00 | 6,947.09 | 6,883.09 | 6,947.09 | 50.28 | 238.57 | -90.29 | -3,066.13 | -3,369.53 | 2,277.70 | 2,000.03 | 277.67 | 8.203 | | |
| 8,400.00 | 6,946.72 | 6,882.72 | 6,946.72 | 52.39 | 238.55 | -90.28 | -3,066.13 | -3,369.53 | 2,198.20 | 1,919.40 | 278.81 | 7.884 | | |
| 8,500.00 | 6,946.34 | 6,882.34 | 6,946.34 | 54.56 | 238.54 | -90.26 | -3,066.13 | -3,369.53 | 2,120.44 | 1,840.28 | 280.17 | 7.568 | | |
| 8,600.00 | 6,945.96 | 6,881.96 | 6,945.96 | 56.80 | 238.53 | -90.24 | -3,066.13 | -3,369.53 | 2,044.62 | 1,762.84 | 281.78 | 7.256 | | |
| 8,700.00 | 6,945.58 | 6,881.58 | 6,945.58 | 59.10 | 238.51 | -90.23 | -3,066.13 | -3,369.53 | 1,970.95 | 1,687.29 | 283.66 | 6.948 | | |
| 8,800.00 | 6,945.20 | 6,881.20 | 6,945.20 | 61.44 | 238.50 | -90.21 | -3,066.13 | -3,369.53 | 1,899.69 | 1,613.87 | 285.82 | 6.646 | | |
| 8,900.00 | 6,944.82 | 6,880.82 | 6,944.82 | 63.83 | 238.49 | -90.20 | -3,066.13 | -3,369.53 | 1,831.13 | 1,542.85 | 288.28 | 6.352 | | |
| 9,000.00 | 6,944.44 | 6,880.44 | 6,944.44 | 66.25 | 238.48 | -90.18 | -3,066.13 | -3,369.53 | 1,765.56 | 1,474.53 | 291.03 | 6.067 | | |
| 9,100.00 | 6,944.06 | 6,880.06 | 6,944.06 | 68.71 | 238.46 | -90.16 | -3,066.13 | -3,369.53 | 1,703.35 | 1,409.27 | 294.08 | 5.792 | | |
| 9,200.00 | 6,943.68 | 6,879.68 | 6,943.68 | 71.20 | 238.45 | -90.15 | -3,066.13 | -3,369.53 | 1,644.86 | 1,347.45 | 297.42 | 5.530 | | |
| 9,300.00 | 6,943.30 | 6,879.30 | 6,943.30 | 73.72 | 238.43 | -90.13 | -3,066.13 | -3,369.53 | 1,590.52 | 1,289.50 | 301.02 | 5.284 | | |
| 9,400.00 | 6,942.92 | 6,878.92 | 6,942.92 | 76.26 | 238.42 | -90.12 | -3,066.13 | -3,369.53 | 1,540.76 | 1,235.91 | 304.85 | 5.054 | | |
| 9,500.00 | 6,942.54 | 6,878.54 | 6,942.54 | 78.82 | 238.41 | -90.10 | -3,066.13 | -3,369.53 | 1,496.04 | 1,187.17 | 308.87 | 4.844 | | |
| 9,600.00 | 6,942.16 | 6,878.16 | 6,942.16 | 81.40 | 238.39 | -90.08 | -3,066.13 | -3,369.53 | 1,456.82 | 1,143.81 | 313.00 | 4.654 | | |
| 9,700.00 | 6,941.78 | 6,877.78 | 6,941.78 | 84.00 | 238.38 | -90.07 | -3,066.13 | -3,369.53 | 1,423.55 | 1,106.36 | 317.19 | 4.488 | | |
| 9,800.00 | 6,941.40 | 6,877.40 | 6,941.40 | 86.62 | 238.37 | -90.05 | -3,066.13 | -3,369.53 | 1,396.67 | 1,075.35 | 321.32 | 4.347 | | |
| 9,900.00 | 6,941.03 | 6,877.03 | 6,941.03 | 89.25 | 238.35 | -90.04 | -3,066.13 | -3,369.53 | 1,376.54 | 1,051.22 | 325.32 | 4.231 | | |
| 10,000.00 | 6,940.65 | 6,876.65 | 6,940.65 | 91.90 | 238.34 | -90.02 | -3,066.13 | -3,369.53 | 1,363.47 | 1,034.40 | 329.07 | 4.143 | | |
| 10,100.00 | 6,940.27 | 6,876.27 | 6,940.27 | 94.56 | 238.33 | -90.00 | -3,066.13 | -3,369.53 | 1,357.65 | 1,025.16 | 332.50 | 4.083 | | |
| 10,129.09 | 6,940.16 | 6,876.16 | 6,940.16 | 95.33 | 238.32 | -90.00 | -3,066.13 | -3,369.53 | 1,357.34 | 1,023.92 | 333.42 | 4.071 CC | | |
| 10,200.00 | 6,939.89 | 6,875.89 | 6,939.89 | 97.23 | 238.31 | -89.99 | -3,066.13 | -3,369.53 | 1,359.19 | 1,023.67 | 335.52 | 4.051 ES | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - GREELEY SWD #1(XX) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,875.51 | 6,939.51 | 99.91 | 238.30 | -89.97 | -3,066.13 | -3,369.53 | 1,368.06 | 1,029.97 | 338.09 | 4.046 SF | | |
| 10,400.00 | 6,939.13 | 6,875.13 | 6,939.13 | 102.60 | 238.29 | -89.96 | -3,066.13 | -3,369.53 | 1,384.11 | 1,043.95 | 340.16 | 4.069 | | |
| 10,500.00 | 6,938.75 | 6,874.75 | 6,938.75 | 105.30 | 238.28 | -89.94 | -3,066.13 | -3,369.53 | 1,407.11 | 1,065.36 | 341.75 | 4.117 | | |
| 10,600.00 | 6,938.37 | 6,874.37 | 6,938.37 | 108.00 | 238.26 | -89.92 | -3,066.13 | -3,369.53 | 1,436.71 | 1,093.84 | 342.86 | 4.190 | | |
| 10,700.00 | 6,937.99 | 6,873.99 | 6,937.99 | 110.72 | 238.25 | -89.91 | -3,066.13 | -3,369.53 | 1,472.52 | 1,128.98 | 343.54 | 4.286 | | |
| 10,800.00 | 6,937.61 | 6,873.61 | 6,937.61 | 113.44 | 238.24 | -89.89 | -3,066.13 | -3,369.53 | 1,514.10 | 1,170.26 | 343.83 | 4.404 | | |
| 10,900.00 | 6,937.23 | 6,873.23 | 6,937.23 | 116.17 | 238.22 | -89.88 | -3,066.13 | -3,369.53 | 1,560.98 | 1,217.19 | 343.79 | 4.540 | | |
| 11,000.00 | 6,936.85 | 6,872.85 | 6,936.85 | 118.90 | 238.21 | -89.86 | -3,066.13 | -3,369.53 | 1,612.71 | 1,269.24 | 343.47 | 4.695 | | |
| 11,100.00 | 6,936.47 | 6,872.47 | 6,936.47 | 121.64 | 238.20 | -89.84 | -3,066.13 | -3,369.53 | 1,668.84 | 1,325.91 | 342.93 | 4.866 | | |
| 11,200.00 | 6,936.09 | 6,872.09 | 6,936.09 | 124.39 | 238.18 | -89.83 | -3,066.13 | -3,369.53 | 1,728.93 | 1,386.71 | 342.22 | 5.052 | | |
| 11,300.00 | 6,935.71 | 6,871.71 | 6,935.71 | 127.14 | 238.17 | -89.81 | -3,066.13 | -3,369.53 | 1,792.59 | 1,451.21 | 341.38 | 5.251 | | |
| 11,400.00 | 6,935.34 | 6,871.34 | 6,935.34 | 129.90 | 238.16 | -89.80 | -3,066.13 | -3,369.53 | 1,859.45 | 1,519.01 | 340.44 | 5.462 | | |
| 11,500.00 | 6,934.96 | 6,870.96 | 6,934.96 | 132.66 | 238.14 | -89.78 | -3,066.13 | -3,369.53 | 1,929.18 | 1,589.74 | 339.44 | 5.683 | | |
| 11,600.00 | 6,934.58 | 6,870.58 | 6,934.58 | 135.42 | 238.13 | -89.76 | -3,066.13 | -3,369.53 | 2,001.48 | 1,663.08 | 338.39 | 5.915 | | |
| 11,700.00 | 6,934.20 | 6,870.20 | 6,934.20 | 138.19 | 238.12 | -89.75 | -3,066.13 | -3,369.53 | 2,076.08 | 1,738.74 | 337.33 | 6.154 | | |
| 11,800.00 | 6,933.82 | 6,869.82 | 6,933.82 | 140.96 | 238.10 | -89.73 | -3,066.13 | -3,369.53 | 2,152.73 | 1,816.47 | 336.27 | 6.402 | | |
| 11,900.00 | 6,933.44 | 6,869.44 | 6,933.44 | 143.74 | 238.09 | -89.72 | -3,066.13 | -3,369.53 | 2,231.24 | 1,896.03 | 335.21 | 6.656 | | |
| 12,000.00 | 6,933.06 | 6,869.06 | 6,933.06 | 146.51 | 238.08 | -89.70 | -3,066.13 | -3,369.53 | 2,311.41 | 1,977.24 | 334.17 | 6.917 | | |
| 12,100.00 | 6,932.68 | 6,868.68 | 6,932.68 | 149.30 | 238.06 | -89.68 | -3,066.13 | -3,369.53 | 2,393.07 | 2,059.93 | 333.15 | 7.183 | | |
| 12,200.00 | 6,932.30 | 6,868.30 | 6,932.30 | 152.08 | 238.05 | -89.67 | -3,066.13 | -3,369.53 | 2,476.08 | 2,143.93 | 332.15 | 7.455 | | |
| 12,300.00 | 6,931.92 | 6,867.92 | 6,931.92 | 154.87 | 238.04 | -89.65 | -3,066.13 | -3,369.53 | 2,560.30 | 2,229.11 | 331.19 | 7.731 | | |
| 12,400.00 | 6,931.54 | 6,867.54 | 6,931.54 | 157.66 | 238.02 | -89.64 | -3,066.13 | -3,369.53 | 2,645.62 | 2,315.36 | 330.26 | 8.011 | | |
| 12,500.00 | 6,931.16 | 6,867.16 | 6,931.16 | 160.45 | 238.01 | -89.62 | -3,066.13 | -3,369.53 | 2,731.94 | 2,402.58 | 329.36 | 8.295 | | |
| 12,600.00 | 6,930.78 | 6,866.78 | 6,930.78 | 163.24 | 238.00 | -89.60 | -3,066.13 | -3,369.53 | 2,819.16 | 2,490.66 | 328.50 | 8.582 | | |
| 12,700.00 | 6,930.40 | 6,866.40 | 6,930.40 | 166.04 | 237.98 | -89.59 | -3,066.13 | -3,369.53 | 2,907.21 | 2,579.54 | 327.67 | 8.872 | | |
| 12,800.00 | 6,930.03 | 6,866.03 | 6,930.03 | 168.84 | 237.97 | -89.57 | -3,066.13 | -3,369.53 | 2,996.00 | 2,669.13 | 326.87 | 9.166 | | |
| 12,900.00 | 6,929.65 | 6,865.65 | 6,929.65 | 171.64 | 237.96 | -89.56 | -3,066.13 | -3,369.53 | 3,085.48 | 2,759.37 | 326.11 | 9.461 | | |
| 13,000.00 | 6,929.27 | 6,865.27 | 6,929.27 | 174.44 | 237.94 | -89.54 | -3,066.13 | -3,369.53 | 3,175.59 | 2,850.21 | 325.38 | 9.760 | | |
| 13,100.00 | 6,928.89 | 6,864.89 | 6,928.89 | 177.24 | 237.93 | -89.52 | -3,066.13 | -3,369.53 | 3,266.27 | 2,941.60 | 324.68 | 10.060 | | |
| 13,200.00 | 6,928.51 | 6,864.51 | 6,928.51 | 180.05 | 237.92 | -89.51 | -3,066.13 | -3,369.53 | 3,357.49 | 3,033.48 | 324.01 | 10.362 | | |
| 13,300.00 | 6,928.13 | 6,864.13 | 6,928.13 | 182.86 | 237.90 | -89.49 | -3,066.13 | -3,369.53 | 3,449.19 | 3,125.82 | 323.36 | 10.667 | | |
| 13,400.00 | 6,927.75 | 6,863.75 | 6,927.75 | 185.67 | 237.89 | -89.48 | -3,066.13 | -3,369.53 | 3,541.34 | 3,218.59 | 322.75 | 10.972 | | |
| 13,500.00 | 6,927.37 | 6,863.37 | 6,927.37 | 188.48 | 237.88 | -89.46 | -3,066.13 | -3,369.53 | 3,633.90 | 3,311.74 | 322.16 | 11.280 | | |
| 13,600.00 | 6,926.99 | 6,862.99 | 6,926.99 | 191.29 | 237.86 | -89.44 | -3,066.13 | -3,369.53 | 3,726.85 | 3,405.26 | 321.59 | 11.589 | | |
| 13,700.00 | 6,926.61 | 6,862.61 | 6,926.61 | 194.10 | 237.85 | -89.43 | -3,066.13 | -3,369.53 | 3,820.15 | 3,499.10 | 321.05 | 11.899 | | |
| 13,800.00 | 6,926.23 | 6,862.23 | 6,926.23 | 196.92 | 237.84 | -89.41 | -3,066.13 | -3,369.53 | 3,913.79 | 3,593.25 | 320.53 | 12.210 | | |
| 13,900.00 | 6,925.85 | 6,861.85 | 6,925.85 | 199.73 | 237.82 | -89.40 | -3,066.13 | -3,369.53 | 4,007.73 | 3,687.69 | 320.04 | 12.523 | | |
| 14,000.00 | 6,925.47 | 6,861.47 | 6,925.47 | 202.55 | 237.81 | -89.38 | -3,066.13 | -3,369.53 | 4,101.96 | 3,782.40 | 319.56 | 12.836 | | |
| 14,100.00 | 6,925.09 | 6,861.09 | 6,925.09 | 205.37 | 237.80 | -89.36 | -3,066.13 | -3,369.53 | 4,196.46 | 3,877.35 | 319.11 | 13.151 | | |
| 14,200.00 | 6,924.71 | 6,860.71 | 6,924.71 | 208.19 | 237.79 | -89.35 | -3,066.13 | -3,369.53 | 4,291.20 | 3,972.53 | 318.67 | 13.466 | | |
| 14,300.00 | 6,924.34 | 6,860.34 | 6,924.34 | 211.01 | 237.77 | -89.33 | -3,066.13 | -3,369.53 | 4,386.18 | 4,067.93 | 318.25 | 13.782 | | |
| 14,400.00 | 6,923.96 | 6,859.96 | 6,923.96 | 213.83 | 237.76 | -89.32 | -3,066.13 | -3,369.53 | 4,481.38 | 4,163.53 | 317.85 | 14.099 | | |
| 14,500.00 | 6,923.58 | 6,859.58 | 6,923.58 | 216.65 | 237.75 | -89.30 | -3,066.13 | -3,369.53 | 4,576.78 | 4,259.32 | 317.46 | 14.417 | | |
| 14,600.00 | 6,923.20 | 6,859.20 | 6,923.20 | 219.48 | 237.73 | -89.28 | -3,066.13 | -3,369.53 | 4,672.38 | 4,355.29 | 317.09 | 14.735 | | |
| 14,700.00 | 6,922.82 | 6,858.82 | 6,922.82 | 222.30 | 237.72 | -89.27 | -3,066.13 | -3,369.53 | 4,768.15 | 4,451.42 | 316.73 | 15.054 | | |
| 14,800.00 | 6,922.44 | 6,858.44 | 6,922.44 | 225.13 | 237.71 | -89.25 | -3,066.13 | -3,369.53 | 4,864.10 | 4,547.70 | 316.39 | 15.374 | | |
| 14,900.00 | 6,922.06 | 6,858.06 | 6,922.06 | 227.95 | 237.69 | -89.24 | -3,066.13 | -3,369.53 | 4,960.20 | 4,644.14 | 316.06 | 15.694 | | |
| 14,915.55 | 6,922.00 | 6,858.00 | 6,922.00 | 228.39 | 237.69 | -89.23 | -3,066.13 | -3,369.53 | 4,975.16 | 4,659.15 | 316.01 | 15.743 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER 31-15(SI_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 10.00 | 3.28 | 3.28 | 22.65 | 1,177.80 | 491.45 | 1,276.26 | | | | |
| 100.00 | 100.00 | 87.18 | 97.18 | 3.28 | 3.29 | 22.65 | 1,177.88 | 491.51 | 1,276.32 | 1,269.75 | 6.57 | 194.263 | |
| 200.00 | 200.00 | 187.44 | 197.44 | 3.34 | 3.33 | 22.66 | 1,178.04 | 491.71 | 1,276.55 | 1,269.88 | 6.67 | 191.399 | |
| 300.00 | 299.98 | 290.66 | 300.65 | 3.44 | 3.44 | -162.73 | 1,178.06 | 491.91 | 1,278.30 | 1,271.42 | 6.88 | 185.857 | |
| 400.00 | 399.84 | 383.32 | 393.32 | 3.59 | 3.58 | -162.75 | 1,178.06 | 492.35 | 1,283.49 | 1,276.32 | 7.17 | 179.033 | |
| 500.00 | 499.45 | 486.18 | 496.17 | 3.79 | 3.78 | -162.77 | 1,178.15 | 493.36 | 1,292.28 | 1,284.71 | 7.57 | 170.794 | |
| 600.00 | 598.70 | 580.54 | 590.52 | 4.03 | 3.99 | -162.81 | 1,178.16 | 494.29 | 1,304.31 | 1,296.28 | 8.02 | 162.539 | |
| 700.00 | 697.47 | 683.95 | 693.92 | 4.31 | 4.26 | -162.87 | 1,178.13 | 495.82 | 1,319.80 | 1,311.23 | 8.57 | 153.985 | |
| 800.00 | 795.62 | 783.81 | 793.78 | 4.64 | 4.55 | -162.95 | 1,177.79 | 497.11 | 1,338.23 | 1,329.07 | 9.17 | 146.010 | |
| 900.00 | 893.06 | 878.09 | 888.05 | 5.00 | 4.83 | -163.04 | 1,177.57 | 498.23 | 1,360.02 | 1,350.23 | 9.79 | 138.918 | |
| 1,000.00 | 989.78 | 977.53 | 987.48 | 5.39 | 5.16 | -163.23 | 1,177.32 | 499.71 | 1,384.68 | 1,374.21 | 10.47 | 132.253 | |
| 1,100.00 | 1,086.42 | 1,068.79 | 1,078.73 | 5.81 | 5.46 | -163.47 | 1,177.18 | 500.74 | 1,409.65 | 1,398.50 | 11.14 | 126.514 | |
| 1,200.00 | 1,183.06 | 1,165.51 | 1,175.44 | 6.25 | 5.80 | -163.71 | 1,177.32 | 502.11 | 1,435.00 | 1,423.14 | 11.86 | 120.989 | |
| 1,300.00 | 1,279.69 | 1,271.24 | 1,281.16 | 6.71 | 6.18 | -163.96 | 1,177.02 | 503.65 | 1,460.02 | 1,447.38 | 12.64 | 115.528 | |
| 1,400.00 | 1,376.33 | 1,369.74 | 1,379.66 | 7.17 | 6.54 | -164.19 | 1,176.40 | 504.58 | 1,484.56 | 1,471.16 | 13.41 | 110.742 | |
| 1,500.00 | 1,472.97 | 1,467.83 | 1,477.74 | 7.65 | 6.91 | -164.43 | 1,175.89 | 505.30 | 1,509.15 | 1,494.96 | 14.19 | 106.373 | |
| 1,600.00 | 1,569.61 | 1,564.52 | 1,574.43 | 8.13 | 7.28 | -164.63 | 1,175.12 | 506.39 | 1,533.65 | 1,518.68 | 14.98 | 102.402 | |
| 1,700.00 | 1,666.24 | 1,658.39 | 1,668.29 | 8.62 | 7.64 | -164.83 | 1,174.51 | 507.41 | 1,558.29 | 1,542.52 | 15.76 | 98.850 | |
| 1,800.00 | 1,762.88 | 1,755.58 | 1,765.47 | 9.12 | 8.02 | -165.05 | 1,174.14 | 508.17 | 1,583.09 | 1,566.51 | 16.58 | 95.506 | |
| 1,900.00 | 1,859.52 | 1,860.67 | 1,870.56 | 9.62 | 8.43 | -165.27 | 1,173.49 | 508.83 | 1,607.64 | 1,590.21 | 17.43 | 92.218 | |
| 2,000.00 | 1,956.16 | 1,956.29 | 1,966.18 | 10.13 | 8.81 | -165.49 | 1,172.71 | 508.74 | 1,631.80 | 1,613.55 | 18.25 | 89.402 | |
| 2,100.00 | 2,052.79 | 2,052.30 | 2,062.18 | 10.64 | 9.19 | -165.72 | 1,172.36 | 508.38 | 1,656.30 | 1,637.22 | 19.08 | 86.811 | |
| 2,200.00 | 2,149.43 | 2,146.07 | 2,155.95 | 11.15 | 9.56 | -165.93 | 1,171.82 | 508.16 | 1,680.69 | 1,660.79 | 19.90 | 84.455 | |
| 2,300.00 | 2,246.07 | 2,235.09 | 2,244.96 | 11.66 | 9.92 | -166.13 | 1,171.84 | 507.91 | 1,705.61 | 1,684.90 | 20.70 | 82.394 | |
| 2,400.00 | 2,342.71 | 2,330.62 | 2,340.50 | 12.18 | 10.30 | -166.33 | 1,171.88 | 508.02 | 1,730.71 | 1,709.17 | 21.54 | 80.355 | |
| 2,500.00 | 2,439.34 | 2,427.50 | 2,437.38 | 12.70 | 10.70 | -166.52 | 1,172.00 | 508.20 | 1,755.92 | 1,733.53 | 22.39 | 78.437 | |
| 2,600.00 | 2,535.98 | 2,527.25 | 2,537.12 | 13.22 | 11.10 | -166.73 | 1,172.04 | 507.88 | 1,780.91 | 1,757.66 | 23.25 | 76.588 | |
| 2,700.00 | 2,632.62 | 2,617.21 | 2,627.08 | 13.75 | 11.47 | -166.92 | 1,172.31 | 507.49 | 1,806.14 | 1,782.07 | 24.07 | 75.038 | |
| 2,800.00 | 2,729.26 | 2,714.30 | 2,724.17 | 14.27 | 11.86 | -167.12 | 1,172.76 | 507.08 | 1,831.54 | 1,806.61 | 24.93 | 73.475 | |
| 2,900.00 | 2,825.89 | 2,817.63 | 2,827.50 | 14.80 | 12.28 | -167.34 | 1,173.13 | 506.35 | 1,856.78 | 1,830.96 | 25.82 | 71.905 | |
| 3,000.00 | 2,922.53 | 2,923.22 | 2,933.29 | 15.32 | 12.72 | -167.55 | 1,172.97 | 505.31 | 1,881.49 | 1,854.75 | 26.73 | 70.378 | |
| 3,100.00 | 3,019.17 | 3,014.22 | 3,024.08 | 15.85 | 13.09 | -167.74 | 1,172.98 | 504.20 | 1,906.29 | 1,878.73 | 27.56 | 69.160 | |
| 3,200.00 | 3,115.81 | 3,117.17 | 3,127.01 | 16.38 | 13.52 | -167.97 | 1,173.03 | 502.35 | 1,930.99 | 1,902.53 | 28.46 | 67.841 | |
| 3,300.00 | 3,212.44 | 3,207.86 | 3,217.69 | 16.91 | 13.89 | -168.16 | 1,173.14 | 500.78 | 1,955.81 | 1,926.52 | 29.30 | 66.762 | |
| 3,400.00 | 3,309.08 | 3,318.17 | 3,327.99 | 17.44 | 14.35 | -168.38 | 1,172.89 | 499.26 | 1,980.43 | 1,950.19 | 30.24 | 65.488 | |
| 3,500.00 | 3,405.72 | 3,412.91 | 3,422.72 | 17.97 | 14.75 | -168.56 | 1,172.48 | 497.86 | 2,004.84 | 1,973.74 | 31.10 | 64.466 | |
| 3,600.00 | 3,502.36 | 3,507.13 | 3,516.93 | 18.50 | 15.14 | -168.73 | 1,172.11 | 496.48 | 2,029.32 | 1,997.37 | 31.95 | 63.506 | |
| 3,700.00 | 3,598.99 | 3,596.27 | 3,606.06 | 19.03 | 15.51 | -168.88 | 1,171.88 | 495.63 | 2,054.07 | 2,021.29 | 32.78 | 62.660 | |
| 3,800.00 | 3,695.63 | 3,678.07 | 3,687.86 | 19.57 | 15.85 | -169.01 | 1,171.96 | 495.35 | 2,079.35 | 2,045.78 | 33.56 | 61.954 | |
| 3,900.00 | 3,792.27 | 3,773.31 | 3,783.10 | 20.10 | 16.25 | -169.14 | 1,172.47 | 495.27 | 2,105.10 | 2,070.68 | 34.43 | 61.149 | |
| 4,000.00 | 3,888.91 | 3,874.42 | 3,884.20 | 20.63 | 16.67 | -169.29 | 1,172.92 | 494.94 | 2,130.71 | 2,095.39 | 35.33 | 60.316 | |
| 4,100.00 | 3,985.54 | 3,970.33 | 3,980.12 | 21.17 | 17.08 | -169.44 | 1,173.29 | 494.33 | 2,156.21 | 2,120.02 | 36.19 | 59.573 | |
| 4,200.00 | 4,082.18 | 4,069.36 | 4,079.14 | 21.70 | 17.49 | -169.58 | 1,173.70 | 493.70 | 2,181.75 | 2,144.66 | 37.08 | 58.833 | |
| 4,300.00 | 4,178.82 | 4,168.91 | 4,178.69 | 22.24 | 17.91 | -169.72 | 1,173.90 | 493.22 | 2,207.13 | 2,169.15 | 37.98 | 58.118 | |
| 4,400.00 | 4,275.46 | 4,263.79 | 4,273.57 | 22.77 | 18.31 | -169.85 | 1,174.08 | 492.61 | 2,232.48 | 2,193.64 | 38.84 | 57.477 | |
| 4,500.00 | 4,372.09 | 4,359.02 | 4,368.80 | 23.31 | 18.71 | -169.98 | 1,174.34 | 492.16 | 2,257.95 | 2,218.24 | 39.71 | 56.862 | |
| 4,600.00 | 4,468.73 | 4,453.72 | 4,463.49 | 23.84 | 19.11 | -170.10 | 1,174.62 | 491.73 | 2,283.47 | 2,242.89 | 40.57 | 56.280 | |
| 4,700.00 | 4,565.37 | 4,545.22 | 4,555.00 | 24.38 | 19.49 | -170.21 | 1,174.97 | 491.53 | 2,309.14 | 2,267.72 | 41.42 | 55.752 | |
| 4,800.00 | 4,662.01 | 4,639.21 | 4,648.98 | 24.91 | 19.89 | -170.32 | 1,175.50 | 491.60 | 2,335.05 | 2,292.77 | 42.28 | 55.230 | |
| 4,900.00 | 4,758.64 | 4,734.15 | 4,743.92 | 25.45 | 20.29 | -170.43 | 1,176.00 | 491.62 | 2,360.92 | 2,317.78 | 43.15 | 54.719 | |
| 5,000.00 | 4,855.28 | 4,819.32 | 4,829.09 | 25.99 | 20.65 | -170.51 | 1,176.65 | 491.99 | 2,387.12 | 2,343.17 | 43.95 | 54.316 | |
| 5,100.00 | 4,951.92 | 4,901.94 | 4,911.70 | 26.53 | 21.00 | -170.59 | 1,177.65 | 492.72 | 2,413.85 | 2,369.12 | 44.73 | 53.960 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER 31-15(SI_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 5,200.00 | 5,048.56 | 5,004.42 | 5,014.17 | 27.06 | 21.43 | -170.69 | 1,179.12 | 493.38 | 2,440.75 | 2,395.09 | 45.65 | 53.463 | | |
| 5,300.00 | 5,145.19 | 5,124.88 | 5,134.62 | 27.60 | 21.94 | -170.81 | 1,180.18 | 493.60 | 2,467.01 | 2,420.32 | 46.69 | 52.835 | | |
| 5,400.00 | 5,241.83 | 5,231.98 | 5,241.72 | 28.14 | 22.39 | -170.92 | 1,180.40 | 493.24 | 2,492.52 | 2,444.88 | 47.64 | 52.318 | | |
| 5,500.00 | 5,338.47 | 5,331.18 | 5,340.91 | 28.67 | 22.81 | -171.04 | 1,180.68 | 492.41 | 2,518.01 | 2,469.47 | 48.54 | 51.876 | | |
| 5,600.00 | 5,435.11 | 5,443.38 | 5,453.11 | 29.21 | 23.28 | -171.17 | 1,180.40 | 491.22 | 2,542.93 | 2,493.41 | 49.52 | 51.350 | | |
| 5,700.00 | 5,531.74 | 5,539.39 | 5,549.11 | 29.75 | 23.69 | -171.29 | 1,180.07 | 489.61 | 2,567.66 | 2,517.26 | 50.40 | 50.946 | | |
| 5,800.00 | 5,628.38 | 5,633.17 | 5,642.87 | 30.29 | 24.09 | -171.40 | 1,179.81 | 488.37 | 2,592.53 | 2,541.26 | 51.26 | 50.573 | | |
| 5,900.00 | 5,725.02 | 5,730.56 | 5,740.26 | 30.83 | 24.50 | -171.51 | 1,179.54 | 487.07 | 2,617.42 | 2,565.26 | 52.15 | 50.190 | | |
| 6,000.00 | 5,821.66 | 5,825.41 | 5,835.09 | 31.37 | 24.90 | -171.63 | 1,179.43 | 485.26 | 2,642.32 | 2,589.30 | 53.02 | 49.835 | | |
| 6,100.00 | 5,918.29 | 5,917.12 | 5,926.79 | 31.90 | 25.29 | -171.74 | 1,179.46 | 483.54 | 2,667.39 | 2,613.52 | 53.87 | 49.514 | | |
| 6,200.00 | 6,014.93 | 6,011.80 | 6,021.45 | 32.44 | 25.69 | -171.86 | 1,179.60 | 481.81 | 2,692.60 | 2,637.85 | 54.74 | 49.187 | | |
| 6,300.00 | 6,111.57 | 6,111.78 | 6,121.41 | 32.98 | 26.12 | -171.98 | 1,179.82 | 479.67 | 2,717.80 | 2,662.16 | 55.65 | 48.840 | | |
| 6,400.00 | 6,208.21 | 6,219.41 | 6,229.00 | 33.52 | 26.57 | -172.11 | 1,179.65 | 477.34 | 2,742.65 | 2,686.05 | 56.60 | 48.453 | | |
| 6,500.00 | 6,304.84 | 6,305.28 | 6,314.85 | 34.06 | 26.94 | -172.22 | 1,179.63 | 475.36 | 2,767.62 | 2,710.20 | 57.42 | 48.202 | | |
| 6,600.00 | 6,401.37 | 6,416.70 | 6,426.22 | 34.60 | 27.41 | 169.76 | 1,179.65 | 472.15 | 2,792.98 | 2,734.58 | 58.40 | 47.825 | | |
| 6,700.00 | 6,496.25 | 6,492.04 | 6,501.53 | 35.12 | 27.73 | 144.82 | 1,179.86 | 469.85 | 2,821.29 | 2,762.15 | 59.13 | 47.710 | | |
| 6,800.00 | 6,587.15 | 6,581.14 | 6,590.58 | 35.59 | 28.11 | 129.98 | 1,180.44 | 466.85 | 2,852.52 | 2,792.58 | 59.95 | 47.584 | | |
| 6,900.00 | 6,671.83 | 6,673.34 | 6,682.71 | 36.03 | 28.50 | 120.54 | 1,181.14 | 463.17 | 2,885.91 | 2,825.14 | 60.77 | 47.487 | | |
| 7,000.00 | 6,748.21 | 6,758.05 | 6,767.34 | 36.41 | 28.86 | 113.85 | 1,181.59 | 459.73 | 2,921.00 | 2,859.45 | 61.55 | 47.455 SF | | |
| 7,100.00 | 6,814.41 | 6,828.45 | 6,837.69 | 36.76 | 29.17 | 108.55 | 1,181.80 | 457.04 | 2,957.69 | 2,895.42 | 62.27 | 47.495 | | |
| 7,200.00 | 6,868.79 | 6,884.21 | 6,893.40 | 37.07 | 29.40 | 103.94 | 1,182.07 | 454.69 | 2,995.88 | 2,932.92 | 62.96 | 47.582 | | |
| 7,300.00 | 6,910.01 | 6,928.09 | 6,937.23 | 37.39 | 29.59 | 99.73 | 1,182.36 | 452.65 | 3,035.27 | 2,971.59 | 63.68 | 47.668 | | |
| 7,400.00 | 6,937.07 | 6,958.79 | 6,967.90 | 37.76 | 29.72 | 95.73 | 1,182.59 | 451.16 | 3,075.41 | 3,010.99 | 64.42 | 47.738 | | |
| 7,500.00 | 6,949.29 | 6,975.47 | 6,984.55 | 38.27 | 29.79 | 91.88 | 1,182.73 | 450.33 | 3,115.73 | 3,050.53 | 65.20 | 47.787 | | |
| 7,600.00 | 6,949.75 | 6,980.84 | 6,989.91 | 39.02 | 29.82 | 90.70 | 1,182.78 | 450.06 | 3,156.29 | 3,090.28 | 66.01 | 47.812 | | |
| 7,700.00 | 6,949.37 | 6,985.43 | 6,994.50 | 40.05 | 29.84 | 90.79 | 1,182.82 | 449.83 | 3,199.27 | 3,132.35 | 66.92 | 47.804 | | |
| 7,800.00 | 6,948.99 | 6,990.07 | 6,999.13 | 41.35 | 29.86 | 90.89 | 1,182.86 | 449.59 | 3,244.76 | 3,176.85 | 67.91 | 47.779 | | |
| 7,900.00 | 6,948.61 | 6,994.75 | 7,003.81 | 42.86 | 29.88 | 90.98 | 1,182.90 | 449.35 | 3,292.66 | 3,223.70 | 68.96 | 47.748 | | |
| 8,000.00 | 6,948.23 | 6,999.49 | 7,008.54 | 44.53 | 29.90 | 91.07 | 1,182.95 | 449.11 | 3,342.85 | 3,272.80 | 70.05 | 47.722 | | |
| 8,100.00 | 6,947.85 | 7,004.96 | 7,014.01 | 46.34 | 29.92 | 91.18 | 1,183.00 | 448.83 | 3,395.24 | 3,324.07 | 71.17 | 47.705 | | |
| 8,200.00 | 6,947.47 | 7,010.54 | 7,019.58 | 48.26 | 29.94 | 91.29 | 1,183.05 | 448.54 | 3,449.72 | 3,377.41 | 72.31 | 47.707 | | |
| 8,300.00 | 6,947.09 | 7,016.15 | 7,025.18 | 50.28 | 29.97 | 91.41 | 1,183.10 | 448.25 | 3,506.21 | 3,432.75 | 73.46 | 47.732 | | |
| 8,400.00 | 6,946.72 | 7,021.77 | 7,030.79 | 52.39 | 29.99 | 91.52 | 1,183.15 | 447.96 | 3,564.60 | 3,490.00 | 74.60 | 47.783 | | |
| 8,500.00 | 6,946.34 | 7,027.41 | 7,036.43 | 54.56 | 30.02 | 91.63 | 1,183.19 | 447.67 | 3,624.79 | 3,549.06 | 75.73 | 47.863 | | |
| 8,600.00 | 6,945.96 | 7,033.07 | 7,042.08 | 56.80 | 30.04 | 91.74 | 1,183.24 | 447.38 | 3,686.72 | 3,609.86 | 76.85 | 47.972 | | |
| 8,700.00 | 6,945.58 | 7,038.76 | 7,047.76 | 59.10 | 30.06 | 91.86 | 1,183.28 | 447.08 | 3,750.27 | 3,672.32 | 77.95 | 48.111 | | |
| 8,800.00 | 6,945.20 | 7,044.46 | 7,053.45 | 61.44 | 30.09 | 91.97 | 1,183.33 | 446.79 | 3,815.39 | 3,736.36 | 79.03 | 48.280 | | |
| 8,900.00 | 6,944.82 | 7,050.18 | 7,059.16 | 63.83 | 30.11 | 92.08 | 1,183.37 | 446.49 | 3,881.98 | 3,801.90 | 80.08 | 48.478 | | |
| 9,000.00 | 6,944.44 | 7,055.92 | 7,064.90 | 66.25 | 30.14 | 92.20 | 1,183.41 | 446.19 | 3,949.97 | 3,868.87 | 81.10 | 48.705 | | |
| 9,100.00 | 6,944.06 | 7,061.69 | 7,070.65 | 68.71 | 30.16 | 92.31 | 1,183.45 | 445.89 | 4,019.30 | 3,937.20 | 82.10 | 48.958 | | |
| 9,200.00 | 6,943.68 | 7,067.47 | 7,076.43 | 71.20 | 30.19 | 92.43 | 1,183.49 | 445.59 | 4,089.88 | 4,006.82 | 83.06 | 49.239 | | |
| 9,300.00 | 6,943.30 | 7,073.28 | 7,082.23 | 73.72 | 30.21 | 92.54 | 1,183.53 | 445.28 | 4,161.67 | 4,077.67 | 84.00 | 49.544 | | |
| 9,400.00 | 6,942.92 | 7,079.10 | 7,088.04 | 76.26 | 30.24 | 92.66 | 1,183.56 | 444.98 | 4,234.59 | 4,149.69 | 84.91 | 49.874 | | |
| 9,500.00 | 6,942.54 | 7,084.95 | 7,093.88 | 78.82 | 30.26 | 92.78 | 1,183.60 | 444.67 | 4,308.60 | 4,222.81 | 85.78 | 50.226 | | |
| 9,600.00 | 6,942.16 | 7,090.81 | 7,099.74 | 81.40 | 30.29 | 92.89 | 1,183.63 | 444.36 | 4,383.63 | 4,297.00 | 86.63 | 50.600 | | |
| 9,700.00 | 6,941.78 | 7,096.70 | 7,105.62 | 84.00 | 30.31 | 93.01 | 1,183.66 | 444.05 | 4,459.63 | 4,372.18 | 87.45 | 50.995 | | |
| 9,800.00 | 6,941.40 | 7,104.75 | 7,113.65 | 86.62 | 30.35 | 93.17 | 1,183.70 | 443.63 | 4,536.56 | 4,448.30 | 88.26 | 51.401 | | |
| 9,900.00 | 6,941.03 | 7,116.27 | 7,125.16 | 89.25 | 30.40 | 93.40 | 1,183.77 | 442.99 | 4,614.36 | 4,525.30 | 89.06 | 51.813 | | |
| 10,000.00 | 6,940.65 | 7,128.94 | 7,137.81 | 91.90 | 30.45 | 93.65 | 1,183.85 | 442.27 | 4,692.99 | 4,603.15 | 89.84 | 52.238 | | |
| 10,100.00 | 6,940.27 | 7,142.94 | 7,151.78 | 94.56 | 30.51 | 93.93 | 1,183.96 | 441.42 | 4,772.41 | 4,681.80 | 90.60 | 52.674 | | |
| 10,200.00 | 6,939.89 | 7,158.50 | 7,167.31 | 97.23 | 30.58 | 94.24 | 1,184.08 | 440.44 | 4,852.56 | 4,761.21 | 91.35 | 53.121 | | |
| 10,300.00 | 6,939.51 | 7,175.88 | 7,184.65 | 99.91 | 30.65 | 94.58 | 1,184.25 | 439.28 | 4,933.42 | 4,841.34 | 92.08 | 53.575 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER 31-15(SI_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,400.00 | 6,939.13 | 7,195.43 | 7,204.15 | 102.60 | 30.74 | 94.97 | 1,184.45 | 437.90 | 5,014.95 | 4,922.14 | 92.81 | 54.035 | |
| 10,500.00 | 6,938.75 | 7,217.57 | 7,226.23 | 105.30 | 30.83 | 95.40 | 1,184.71 | 436.25 | 5,097.11 | 5,003.58 | 93.53 | 54.498 | |
| 10,600.00 | 6,938.37 | 10,600.00 | 7,185.63 | 108.00 | 45.41 | 94.60 | 1,184.31 | 439.03 | 5,179.86 | 5,071.31 | 108.56 | 47.716 | |
| 10,700.00 | 6,937.99 | 7,218.09 | 7,226.75 | 110.72 | 30.83 | 95.41 | 1,184.69 | 436.25 | 5,263.27 | 5,168.63 | 94.64 | 55.615 | |
| 10,800.00 | 6,937.61 | 7,224.44 | 7,233.08 | 113.44 | 30.86 | 95.54 | 1,184.75 | 435.80 | 5,347.21 | 5,252.01 | 95.20 | 56.168 | |
| 10,900.00 | 6,937.23 | 7,230.70 | 7,239.32 | 116.17 | 30.89 | 95.66 | 1,184.81 | 435.35 | 5,431.68 | 5,335.93 | 95.74 | 56.731 | |
| 11,000.00 | 6,936.85 | 7,236.88 | 7,245.49 | 118.90 | 30.91 | 95.78 | 1,184.86 | 434.91 | 5,516.66 | 5,420.39 | 96.27 | 57.304 | |
| 11,100.00 | 6,936.47 | 7,242.99 | 7,251.58 | 121.64 | 30.94 | 95.90 | 1,184.91 | 434.48 | 5,602.13 | 5,505.35 | 96.78 | 57.886 | |
| 11,200.00 | 6,936.09 | 7,272.13 | 7,256.45 | 124.39 | 31.07 | 96.00 | 1,184.95 | 434.13 | 5,688.07 | 5,590.70 | 97.37 | 58.419 | |
| 11,300.00 | 6,935.71 | 7,265.59 | 7,262.98 | 127.14 | 31.04 | 96.13 | 1,185.00 | 433.68 | 5,774.45 | 5,676.66 | 97.79 | 59.050 | |
| 11,400.00 | 6,935.34 | 7,260.96 | 7,269.51 | 129.90 | 31.02 | 96.26 | 1,185.04 | 433.22 | 5,861.26 | 5,763.05 | 98.21 | 59.684 | |
| 11,500.00 | 6,934.96 | 7,267.50 | 7,276.04 | 132.66 | 31.04 | 96.39 | 1,185.08 | 432.77 | 5,948.48 | 5,849.82 | 98.66 | 60.295 | |
| 11,600.00 | 6,934.58 | 7,274.05 | 7,282.57 | 135.42 | 31.07 | 96.52 | 1,185.12 | 432.31 | 6,036.08 | 5,936.99 | 99.09 | 60.914 | |
| 11,700.00 | 6,934.20 | 7,280.60 | 7,289.10 | 138.19 | 31.10 | 96.64 | 1,185.16 | 431.86 | 6,124.06 | 6,024.55 | 99.52 | 61.539 | |
| 11,800.00 | 6,933.82 | 7,287.14 | 7,295.63 | 140.96 | 31.13 | 96.77 | 1,185.21 | 431.41 | 6,212.40 | 6,112.47 | 99.93 | 62.169 | |
| 11,900.00 | 6,933.44 | 7,293.69 | 7,302.16 | 143.74 | 31.16 | 96.90 | 1,185.25 | 430.95 | 6,301.08 | 6,200.75 | 100.33 | 62.805 | |
| 12,000.00 | 6,933.06 | 7,300.23 | 7,308.69 | 146.51 | 31.19 | 97.03 | 1,185.29 | 430.50 | 6,390.08 | 6,289.37 | 100.72 | 63.447 | |
| 12,100.00 | 6,932.68 | 7,306.78 | 7,315.22 | 149.30 | 31.22 | 97.16 | 1,185.33 | 430.05 | 6,479.40 | 6,378.31 | 101.09 | 64.093 | |
| 12,200.00 | 6,932.30 | 7,313.32 | 7,321.75 | 152.08 | 31.24 | 97.29 | 1,185.38 | 429.59 | 6,569.02 | 6,467.56 | 101.46 | 64.745 | |
| 12,300.00 | 6,931.92 | 7,319.87 | 7,328.28 | 154.87 | 31.27 | 97.41 | 1,185.42 | 429.14 | 6,658.93 | 6,557.11 | 101.82 | 65.400 | |
| 12,400.00 | 6,931.54 | 7,326.42 | 7,334.81 | 157.66 | 31.30 | 97.54 | 1,185.46 | 428.69 | 6,749.12 | 6,646.95 | 102.17 | 66.060 | |
| 12,500.00 | 6,931.16 | 7,332.96 | 7,341.34 | 160.45 | 31.33 | 97.67 | 1,185.50 | 428.23 | 6,839.57 | 6,737.07 | 102.51 | 66.724 | |
| 12,600.00 | 6,930.78 | 7,339.51 | 7,347.87 | 163.24 | 31.36 | 97.80 | 1,185.54 | 427.78 | 6,930.28 | 6,827.45 | 102.84 | 67.392 | |
| 12,700.00 | 6,930.40 | 7,346.05 | 7,354.40 | 166.04 | 31.39 | 97.93 | 1,185.59 | 427.33 | 7,021.24 | 6,918.08 | 103.16 | 68.063 | |
| 12,800.00 | 6,930.03 | 7,352.60 | 7,360.93 | 168.84 | 31.42 | 98.05 | 1,185.63 | 426.87 | 7,112.43 | 7,008.96 | 103.47 | 68.737 | |
| 12,900.00 | 6,929.65 | 7,359.15 | 7,367.46 | 171.64 | 31.44 | 98.18 | 1,185.67 | 426.42 | 7,203.86 | 7,100.07 | 103.78 | 69.414 | |
| 13,000.00 | 6,929.27 | 7,365.69 | 7,373.99 | 174.44 | 31.47 | 98.31 | 1,185.71 | 425.97 | 7,295.50 | 7,191.42 | 104.08 | 70.095 | |
| 13,100.00 | 6,928.89 | 7,372.24 | 7,380.52 | 177.24 | 31.50 | 98.44 | 1,185.76 | 425.51 | 7,387.35 | 7,282.97 | 104.37 | 70.778 | |
| 13,200.00 | 6,928.51 | 7,378.78 | 7,387.05 | 180.05 | 31.53 | 98.56 | 1,185.80 | 425.06 | 7,479.40 | 7,374.74 | 104.66 | 71.464 | |
| 13,300.00 | 6,928.13 | 7,385.33 | 7,393.58 | 182.86 | 31.56 | 98.69 | 1,185.84 | 424.61 | 7,571.65 | 7,466.71 | 104.94 | 72.152 | |
| 13,400.00 | 6,927.75 | 7,391.87 | 7,400.11 | 185.67 | 31.59 | 98.82 | 1,185.88 | 424.15 | 7,664.09 | 7,558.88 | 105.21 | 72.842 | |
| 13,500.00 | 6,927.37 | 7,398.42 | 7,406.64 | 188.48 | 31.62 | 98.94 | 1,185.92 | 423.70 | 7,756.71 | 7,651.23 | 105.48 | 73.535 | |
| 13,600.00 | 6,926.99 | 7,404.97 | 7,413.17 | 191.29 | 31.64 | 99.07 | 1,185.97 | 423.24 | 7,849.51 | 7,743.76 | 105.75 | 74.230 | |
| 13,700.00 | 6,926.61 | 7,411.51 | 7,419.70 | 194.10 | 31.67 | 99.20 | 1,186.01 | 422.79 | 7,942.48 | 7,836.47 | 106.00 | 74.926 | |
| 13,800.00 | 6,926.23 | 7,418.06 | 7,426.23 | 196.92 | 31.70 | 99.32 | 1,186.05 | 422.34 | 8,035.61 | 7,929.35 | 106.26 | 75.625 | |
| 13,900.00 | 6,925.85 | 7,424.60 | 7,432.76 | 199.73 | 31.73 | 99.45 | 1,186.09 | 421.88 | 8,128.89 | 8,022.39 | 106.50 | 76.325 | |
| 14,000.00 | 6,925.47 | 7,431.15 | 7,439.29 | 202.55 | 31.76 | 99.58 | 1,186.14 | 421.43 | 8,222.33 | 8,115.59 | 106.75 | 77.026 | |
| 14,100.00 | 6,925.09 | 7,437.70 | 7,445.82 | 205.37 | 31.79 | 99.70 | 1,186.18 | 420.98 | 8,315.92 | 8,208.94 | 106.99 | 77.729 | |
| 14,200.00 | 6,924.71 | 7,444.24 | 7,452.35 | 208.19 | 31.82 | 99.83 | 1,186.22 | 420.52 | 8,409.65 | 8,302.43 | 107.22 | 78.434 | |
| 14,300.00 | 6,924.34 | 7,450.79 | 7,458.88 | 211.01 | 31.84 | 99.96 | 1,186.26 | 420.07 | 8,503.52 | 8,396.07 | 107.45 | 79.139 | |
| 14,400.00 | 6,923.96 | 7,457.33 | 7,465.41 | 213.83 | 31.87 | 100.08 | 1,186.30 | 419.62 | 8,597.52 | 8,489.85 | 107.68 | 79.846 | |
| 14,500.00 | 6,923.58 | 7,443.00 | 7,451.11 | 216.65 | 31.81 | 99.81 | 1,186.21 | 420.61 | 8,691.68 | 8,583.90 | 107.78 | 80.644 | |
| 14,600.00 | 6,923.20 | 7,443.00 | 7,451.11 | 219.48 | 31.81 | 99.81 | 1,186.21 | 420.61 | 8,785.95 | 8,677.99 | 107.96 | 81.382 | |
| 14,700.00 | 6,922.82 | 7,443.00 | 7,451.11 | 222.30 | 31.81 | 99.81 | 1,186.21 | 420.61 | 8,880.35 | 8,772.21 | 108.14 | 82.121 | |
| 14,800.00 | 6,922.44 | 7,443.00 | 7,451.11 | 225.13 | 31.81 | 99.81 | 1,186.21 | 420.61 | 8,974.87 | 8,866.56 | 108.31 | 82.862 | |
| 14,900.00 | 6,922.06 | 7,443.00 | 7,451.11 | 227.95 | 31.81 | 99.81 | 1,186.21 | 420.61 | 9,069.51 | 8,961.02 | 108.48 | 83.603 | |
| 14,915.55 | 6,922.00 | 7,443.00 | 7,451.11 | 228.39 | 31.81 | 99.81 | 1,186.21 | 420.61 | 9,084.23 | 8,975.72 | 108.51 | 83.719 | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER 32-15(SI_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 20.00 | 3.28 | 3.28 | 76.54 | 124.96 | 522.07 | 537.19 | | | | | |
| 100.00 | 100.00 | 77.78 | 97.78 | 3.28 | 3.28 | 76.49 | 125.48 | 522.11 | 536.98 | 530.41 | 6.57 | 81.738 CC, ES | | |
| 200.00 | 200.00 | 179.97 | 199.95 | 3.34 | 3.33 | 76.32 | 127.08 | 522.05 | 537.30 | 530.63 | 6.67 | 80.593 | | |
| 300.00 | 299.98 | 281.12 | 301.10 | 3.44 | 3.43 | -109.38 | 128.39 | 521.58 | 537.73 | 530.86 | 6.87 | 78.267 | | |
| 400.00 | 399.84 | 378.56 | 398.53 | 3.59 | 3.57 | -109.98 | 129.53 | 521.25 | 539.46 | 532.29 | 7.16 | 75.306 | | |
| 500.00 | 499.45 | 476.01 | 495.97 | 3.79 | 3.76 | -110.87 | 130.70 | 521.40 | 542.97 | 535.43 | 7.55 | 71.951 | | |
| 600.00 | 598.70 | 573.70 | 593.65 | 4.03 | 3.98 | -112.06 | 131.98 | 521.83 | 548.26 | 540.25 | 8.01 | 68.446 | | |
| 700.00 | 697.47 | 672.00 | 691.94 | 4.31 | 4.23 | -113.54 | 133.54 | 522.35 | 555.38 | 546.83 | 8.55 | 64.987 | | |
| 800.00 | 795.62 | 768.84 | 788.76 | 4.64 | 4.51 | -115.21 | 134.88 | 522.97 | 564.46 | 555.32 | 9.14 | 61.758 | | |
| 900.00 | 893.06 | 864.89 | 884.80 | 5.00 | 4.80 | -117.08 | 136.51 | 523.72 | 575.95 | 566.16 | 9.79 | 58.860 | | |
| 1,000.00 | 989.78 | 961.58 | 981.47 | 5.39 | 5.11 | -119.22 | 137.97 | 524.62 | 589.70 | 579.22 | 10.48 | 56.287 | | |
| 1,100.00 | 1,086.42 | 1,058.01 | 1,077.89 | 5.81 | 5.43 | -121.38 | 139.35 | 525.42 | 604.41 | 593.22 | 11.20 | 53.971 | | |
| 1,200.00 | 1,183.06 | 1,155.20 | 1,175.07 | 6.25 | 5.77 | -123.47 | 140.86 | 526.16 | 619.95 | 608.00 | 11.95 | 51.880 | | |
| 1,300.00 | 1,279.69 | 1,252.54 | 1,272.40 | 6.71 | 6.12 | -125.46 | 142.20 | 526.71 | 636.04 | 623.32 | 12.72 | 49.995 | | |
| 1,400.00 | 1,376.33 | 1,348.41 | 1,368.25 | 7.17 | 6.47 | -127.35 | 143.76 | 527.05 | 652.83 | 639.32 | 13.50 | 48.342 | | |
| 1,500.00 | 1,472.97 | 1,446.45 | 1,466.28 | 7.65 | 6.83 | -129.17 | 145.23 | 527.51 | 670.31 | 656.00 | 14.31 | 46.845 | | |
| 1,600.00 | 1,569.61 | 1,545.04 | 1,564.86 | 8.13 | 7.21 | -130.91 | 146.40 | 527.57 | 687.93 | 672.81 | 15.13 | 45.475 | | |
| 1,700.00 | 1,666.24 | 1,643.14 | 1,662.96 | 8.62 | 7.58 | -132.58 | 147.72 | 527.40 | 706.06 | 690.11 | 15.95 | 44.261 | | |
| 1,800.00 | 1,762.88 | 1,741.77 | 1,761.58 | 9.12 | 7.97 | -134.17 | 148.70 | 526.87 | 724.24 | 707.46 | 16.79 | 43.144 | | |
| 1,900.00 | 1,859.52 | 1,836.53 | 1,856.33 | 9.62 | 8.34 | -135.60 | 149.45 | 526.61 | 743.01 | 725.41 | 17.61 | 42.199 | | |
| 2,000.00 | 1,956.16 | 1,933.70 | 1,953.50 | 10.13 | 8.72 | -137.00 | 150.39 | 526.40 | 762.39 | 743.94 | 18.45 | 41.332 | | |
| 2,100.00 | 2,052.79 | 2,035.32 | 2,055.11 | 10.64 | 9.13 | -138.40 | 151.06 | 525.80 | 781.72 | 762.41 | 19.31 | 40.479 | | |
| 2,200.00 | 2,149.43 | 2,134.33 | 2,154.12 | 11.15 | 9.52 | -139.68 | 151.14 | 524.96 | 800.88 | 780.71 | 20.17 | 39.714 | | |
| 2,300.00 | 2,246.07 | 2,230.36 | 2,250.15 | 11.66 | 9.91 | -140.85 | 151.18 | 524.28 | 820.46 | 799.45 | 21.01 | 39.055 | | |
| 2,400.00 | 2,342.71 | 2,329.94 | 2,349.73 | 12.18 | 10.31 | -142.00 | 150.90 | 523.58 | 840.15 | 818.28 | 21.87 | 38.412 | | |
| 2,500.00 | 2,439.34 | 2,428.37 | 2,448.15 | 12.70 | 10.71 | -143.08 | 150.45 | 522.70 | 859.88 | 837.15 | 22.73 | 37.827 | | |
| 2,600.00 | 2,535.98 | 2,526.20 | 2,545.98 | 13.22 | 11.10 | -144.09 | 149.67 | 521.97 | 879.75 | 856.16 | 23.59 | 37.290 | | |
| 2,700.00 | 2,632.62 | 2,622.79 | 2,642.56 | 13.75 | 11.50 | -145.02 | 148.69 | 521.39 | 899.78 | 875.34 | 24.45 | 36.806 | | |
| 2,800.00 | 2,729.26 | 2,717.41 | 2,737.17 | 14.27 | 11.88 | -145.88 | 147.75 | 521.17 | 920.28 | 894.99 | 25.29 | 36.387 | | |
| 2,900.00 | 2,825.89 | 2,817.36 | 2,837.11 | 14.80 | 12.29 | -146.75 | 146.61 | 520.87 | 940.83 | 914.66 | 26.17 | 35.949 | | |
| 3,000.00 | 2,922.53 | 2,911.20 | 2,930.95 | 15.32 | 12.68 | -147.55 | 145.78 | 520.37 | 961.63 | 934.62 | 27.01 | 35.598 | | |
| 3,100.00 | 3,019.17 | 3,007.02 | 3,026.77 | 15.85 | 13.07 | -148.34 | 145.19 | 519.84 | 982.82 | 954.95 | 27.87 | 35.266 | | |
| 3,200.00 | 3,115.81 | 3,101.60 | 3,121.35 | 16.38 | 13.46 | -149.11 | 144.89 | 519.20 | 1,004.35 | 975.63 | 28.72 | 34.973 | | |
| 3,300.00 | 3,212.44 | 3,199.53 | 3,219.27 | 16.91 | 13.87 | -149.88 | 144.74 | 518.38 | 1,026.10 | 996.51 | 29.59 | 34.678 | | |
| 3,400.00 | 3,309.08 | 3,295.92 | 3,315.66 | 17.44 | 14.27 | -150.61 | 144.56 | 517.54 | 1,047.97 | 1,017.52 | 30.45 | 34.414 | | |
| 3,500.00 | 3,405.72 | 3,389.23 | 3,408.97 | 17.97 | 14.66 | -151.27 | 144.35 | 517.05 | 1,070.16 | 1,038.87 | 31.29 | 34.197 | | |
| 3,600.00 | 3,502.36 | 3,487.10 | 3,506.84 | 18.50 | 15.07 | -151.92 | 144.05 | 516.92 | 1,092.63 | 1,060.46 | 32.17 | 33.964 | | |
| 3,700.00 | 3,598.99 | 3,585.64 | 3,605.37 | 19.03 | 15.48 | -152.55 | 143.65 | 516.65 | 1,115.07 | 1,082.01 | 33.05 | 33.738 | | |
| 3,800.00 | 3,695.63 | 3,684.23 | 3,703.96 | 19.57 | 15.89 | -153.16 | 143.15 | 516.23 | 1,137.47 | 1,103.53 | 33.93 | 33.521 | | |
| 3,900.00 | 3,792.27 | 3,782.88 | 3,802.61 | 20.10 | 16.31 | -153.75 | 142.56 | 515.67 | 1,159.83 | 1,125.01 | 34.82 | 33.312 | | |
| 4,000.00 | 3,888.91 | 3,881.59 | 3,901.31 | 20.63 | 16.72 | -154.32 | 141.86 | 514.96 | 1,182.14 | 1,146.44 | 35.70 | 33.112 | | |
| 4,100.00 | 3,985.54 | 3,980.35 | 4,000.06 | 21.17 | 17.14 | -154.87 | 141.07 | 514.11 | 1,204.41 | 1,167.82 | 36.59 | 32.919 | | |
| 4,200.00 | 4,082.18 | 4,079.16 | 4,098.87 | 21.70 | 17.55 | -155.41 | 140.18 | 513.11 | 1,226.62 | 1,189.15 | 37.47 | 32.733 | | |
| 4,300.00 | 4,178.82 | 4,178.03 | 4,197.73 | 22.24 | 17.97 | -155.93 | 139.19 | 511.96 | 1,248.78 | 1,210.42 | 38.36 | 32.553 | | |
| 4,400.00 | 4,275.46 | 4,273.84 | 4,293.52 | 22.77 | 18.37 | -156.42 | 138.17 | 510.83 | 1,270.96 | 1,231.74 | 39.23 | 32.399 | | |
| 4,500.00 | 4,372.09 | 4,366.89 | 4,386.56 | 23.31 | 18.76 | -156.87 | 137.26 | 510.00 | 1,293.43 | 1,253.36 | 40.08 | 32.274 | | |
| 4,600.00 | 4,468.73 | 4,458.40 | 4,478.07 | 23.84 | 19.15 | -157.29 | 136.59 | 509.45 | 1,316.33 | 1,275.42 | 40.91 | 32.174 | | |
| 4,700.00 | 4,565.37 | 4,552.95 | 4,572.62 | 24.38 | 19.55 | -157.73 | 136.36 | 508.73 | 1,339.66 | 1,297.89 | 41.77 | 32.071 | | |
| 4,800.00 | 4,662.01 | 4,648.60 | 4,668.26 | 24.91 | 19.95 | -158.15 | 136.17 | 507.97 | 1,363.08 | 1,320.44 | 42.64 | 31.968 | | |
| 4,900.00 | 4,758.64 | 4,744.46 | 4,764.12 | 25.45 | 20.35 | -158.56 | 136.02 | 507.45 | 1,386.71 | 1,343.21 | 43.51 | 31.873 | | |
| 5,000.00 | 4,855.28 | 4,839.07 | 4,858.74 | 25.99 | 20.75 | -158.94 | 135.74 | 507.16 | 1,410.40 | 1,366.03 | 44.37 | 31.789 | | |
| 5,100.00 | 4,951.92 | 4,930.88 | 4,950.54 | 26.53 | 21.14 | -159.30 | 135.80 | 507.00 | 1,434.50 | 1,389.30 | 45.21 | 31.732 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER 32-15(SI_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,028.24 | 5,047.90 | 27.06 | 21.55 | -159.67 | 136.06 | 506.63 | 1,458.77 | 1,412.68 | 46.09 | 31.652 | | |
| 5,300.00 | 5,145.19 | 5,126.21 | 5,145.87 | 27.60 | 21.97 | -160.04 | 136.24 | 506.19 | 1,482.98 | 1,436.00 | 46.97 | 31.570 | | |
| 5,400.00 | 5,241.83 | 5,222.59 | 5,242.25 | 28.14 | 22.37 | -160.39 | 136.45 | 505.74 | 1,507.27 | 1,459.42 | 47.85 | 31.500 | | |
| 5,500.00 | 5,338.47 | 5,324.11 | 5,343.76 | 28.67 | 22.80 | -160.76 | 136.62 | 504.89 | 1,531.42 | 1,482.66 | 48.76 | 31.404 | | |
| 5,600.00 | 5,435.11 | 5,423.54 | 5,443.19 | 29.21 | 23.23 | -161.12 | 136.56 | 503.83 | 1,555.34 | 1,505.68 | 49.66 | 31.317 | | |
| 5,700.00 | 5,531.74 | 5,517.14 | 5,536.79 | 29.75 | 23.62 | -161.44 | 136.52 | 502.99 | 1,579.39 | 1,528.87 | 50.52 | 31.264 | | |
| 5,800.00 | 5,628.38 | 5,614.55 | 5,634.19 | 30.29 | 24.04 | -161.75 | 136.45 | 502.37 | 1,603.56 | 1,552.16 | 51.40 | 31.196 | | |
| 5,900.00 | 5,725.02 | 5,717.22 | 5,736.87 | 30.83 | 24.47 | -162.06 | 136.05 | 501.80 | 1,627.52 | 1,575.19 | 52.33 | 31.102 | | |
| 6,000.00 | 5,821.66 | 5,813.12 | 5,832.76 | 31.37 | 24.88 | -162.34 | 135.52 | 501.25 | 1,651.36 | 1,598.16 | 53.20 | 31.039 | | |
| 6,100.00 | 5,918.29 | 5,900.84 | 5,920.47 | 31.90 | 25.25 | -162.59 | 135.29 | 500.89 | 1,675.57 | 1,621.56 | 54.01 | 31.022 | | |
| 6,200.00 | 6,014.93 | 5,998.87 | 6,018.51 | 32.44 | 25.67 | -162.87 | 135.29 | 500.44 | 1,700.03 | 1,645.13 | 54.90 | 30.964 | | |
| 6,300.00 | 6,111.57 | 6,101.52 | 6,121.15 | 32.98 | 26.10 | -163.16 | 135.17 | 499.69 | 1,724.32 | 1,668.49 | 55.83 | 30.884 | | |
| 6,400.00 | 6,208.21 | 6,195.79 | 6,215.42 | 33.52 | 26.50 | -163.41 | 134.95 | 499.00 | 1,748.55 | 1,691.85 | 56.69 | 30.842 | | |
| 6,500.00 | 6,304.84 | 6,287.82 | 6,307.44 | 34.06 | 26.89 | -163.65 | 134.85 | 498.56 | 1,773.00 | 1,715.46 | 57.54 | 30.814 | | |
| 6,600.00 | 6,401.37 | 6,383.59 | 6,403.22 | 34.60 | 27.30 | -178.28 | 134.84 | 498.29 | 1,798.41 | 1,740.00 | 58.41 | 30.788 SF | | |
| 6,700.00 | 6,496.25 | 6,478.38 | 6,498.01 | 35.12 | 27.70 | -153.37 | 134.83 | 498.05 | 1,828.52 | 1,769.24 | 59.28 | 30.846 | | |
| 6,800.00 | 6,587.15 | 6,569.21 | 6,588.84 | 35.59 | 28.09 | -138.47 | 134.82 | 497.85 | 1,863.39 | 1,803.28 | 60.11 | 31.000 | | |
| 6,900.00 | 6,671.83 | 6,653.86 | 6,673.48 | 36.03 | 28.45 | -128.78 | 134.81 | 497.67 | 1,902.66 | 1,841.77 | 60.89 | 31.247 | | |
| 7,000.00 | 6,748.21 | 6,730.22 | 6,749.85 | 36.41 | 28.78 | -121.57 | 134.81 | 497.52 | 1,946.07 | 1,884.45 | 61.62 | 31.581 | | |
| 7,100.00 | 6,814.41 | 6,796.41 | 6,816.04 | 36.76 | 29.06 | -115.48 | 134.80 | 497.40 | 1,993.36 | 1,931.06 | 62.30 | 31.994 | | |
| 7,200.00 | 6,868.79 | 6,850.82 | 6,870.44 | 37.07 | 29.29 | -109.77 | 134.80 | 497.31 | 2,044.20 | 1,981.25 | 62.95 | 32.474 | | |
| 7,300.00 | 6,910.01 | 6,892.09 | 6,911.72 | 37.39 | 29.46 | -104.04 | 134.80 | 497.24 | 2,098.09 | 2,034.52 | 63.57 | 33.005 | | |
| 7,400.00 | 6,937.07 | 6,919.22 | 6,938.85 | 37.76 | 29.58 | -98.10 | 134.80 | 497.20 | 2,154.31 | 2,090.14 | 64.17 | 33.574 | | |
| 7,500.00 | 6,949.29 | 6,931.55 | 6,951.18 | 38.27 | 29.63 | -91.96 | 134.80 | 497.18 | 2,211.87 | 2,147.14 | 64.73 | 34.169 | | |
| 7,600.00 | 6,949.75 | 6,932.16 | 6,951.78 | 39.02 | 29.64 | -89.90 | 134.80 | 497.18 | 2,270.35 | 2,205.07 | 65.28 | 34.778 | | |
| 7,700.00 | 6,949.37 | 6,931.92 | 6,951.55 | 40.05 | 29.63 | -89.89 | 134.80 | 497.18 | 2,331.49 | 2,265.61 | 65.88 | 35.391 | | |
| 7,800.00 | 6,948.99 | 6,931.69 | 6,951.31 | 41.35 | 29.63 | -89.89 | 134.80 | 497.18 | 2,395.24 | 2,328.74 | 66.51 | 36.014 | | |
| 7,900.00 | 6,948.61 | 6,931.45 | 6,951.08 | 42.86 | 29.63 | -89.88 | 134.80 | 497.18 | 2,461.41 | 2,394.25 | 67.16 | 36.652 | | |
| 8,000.00 | 6,948.23 | 6,931.22 | 6,950.84 | 44.53 | 29.63 | -89.87 | 134.80 | 497.18 | 2,529.80 | 2,461.99 | 67.81 | 37.306 | | |
| 8,100.00 | 6,947.85 | 6,930.98 | 6,950.61 | 46.34 | 29.63 | -89.87 | 134.80 | 497.18 | 2,600.24 | 2,531.77 | 68.47 | 37.977 | | |
| 8,200.00 | 6,947.47 | 6,930.75 | 6,950.38 | 48.26 | 29.63 | -89.86 | 134.80 | 497.18 | 2,672.56 | 2,603.44 | 69.12 | 38.668 | | |
| 8,300.00 | 6,947.09 | 6,930.51 | 6,950.14 | 50.28 | 29.63 | -89.85 | 134.80 | 497.18 | 2,746.62 | 2,676.87 | 69.75 | 39.377 | | |
| 8,400.00 | 6,946.72 | 6,930.28 | 6,949.91 | 52.39 | 29.63 | -89.84 | 134.80 | 497.19 | 2,822.28 | 2,751.91 | 70.37 | 40.105 | | |
| 8,500.00 | 6,946.34 | 6,930.05 | 6,949.67 | 54.56 | 29.63 | -89.84 | 134.80 | 497.19 | 2,899.42 | 2,828.44 | 70.97 | 40.852 | | |
| 8,600.00 | 6,945.96 | 6,929.81 | 6,949.44 | 56.80 | 29.63 | -89.83 | 134.80 | 497.19 | 2,977.91 | 2,906.36 | 71.55 | 41.617 | | |
| 8,700.00 | 6,945.58 | 6,929.58 | 6,949.21 | 59.10 | 29.62 | -89.82 | 134.80 | 497.19 | 3,057.66 | 2,985.55 | 72.11 | 42.400 | | |
| 8,800.00 | 6,945.20 | 6,929.34 | 6,948.97 | 61.44 | 29.62 | -89.81 | 134.80 | 497.19 | 3,138.57 | 3,065.92 | 72.65 | 43.199 | | |
| 8,900.00 | 6,944.82 | 6,929.11 | 6,948.74 | 63.83 | 29.62 | -89.81 | 134.80 | 497.19 | 3,220.56 | 3,147.39 | 73.17 | 44.014 | | |
| 9,000.00 | 6,944.44 | 6,928.88 | 6,948.50 | 66.25 | 29.62 | -89.80 | 134.80 | 497.19 | 3,303.53 | 3,229.87 | 73.67 | 44.844 | | |
| 9,100.00 | 6,944.06 | 6,928.64 | 6,948.27 | 68.71 | 29.62 | -89.79 | 134.80 | 497.19 | 3,387.43 | 3,313.29 | 74.14 | 45.688 | | |
| 9,200.00 | 6,943.68 | 6,928.41 | 6,948.04 | 71.20 | 29.62 | -89.78 | 134.80 | 497.19 | 3,472.18 | 3,397.58 | 74.60 | 46.545 | | |
| 9,300.00 | 6,943.30 | 6,928.18 | 6,947.80 | 73.72 | 29.62 | -89.78 | 134.80 | 497.19 | 3,557.72 | 3,482.69 | 75.03 | 47.415 | | |
| 9,400.00 | 6,942.92 | 6,927.94 | 6,947.57 | 76.26 | 29.62 | -89.77 | 134.80 | 497.19 | 3,644.00 | 3,568.55 | 75.45 | 48.296 | | |
| 9,500.00 | 6,942.54 | 6,927.71 | 6,947.34 | 78.82 | 29.62 | -89.76 | 134.80 | 497.19 | 3,730.96 | 3,655.11 | 75.85 | 49.189 | | |
| 9,600.00 | 6,942.16 | 6,927.48 | 6,947.11 | 81.40 | 29.62 | -89.75 | 134.80 | 497.19 | 3,818.56 | 3,742.33 | 76.23 | 50.091 | | |
| 9,700.00 | 6,941.78 | 6,927.24 | 6,946.87 | 84.00 | 29.61 | -89.75 | 134.80 | 497.19 | 3,906.76 | 3,830.16 | 76.60 | 51.003 | | |
| 9,800.00 | 6,941.40 | 6,927.01 | 6,946.64 | 86.62 | 29.61 | -89.74 | 134.80 | 497.19 | 3,995.51 | 3,918.56 | 76.95 | 51.923 | | |
| 9,900.00 | 6,941.03 | 6,926.78 | 6,946.41 | 89.25 | 29.61 | -89.73 | 134.80 | 497.19 | 4,084.78 | 4,007.49 | 77.29 | 52.852 | | |
| 10,000.00 | 6,940.65 | 6,926.55 | 6,946.17 | 91.90 | 29.61 | -89.73 | 134.80 | 497.19 | 4,174.54 | 4,096.93 | 77.61 | 53.788 | | |
| 10,100.00 | 6,940.27 | 6,926.31 | 6,945.94 | 94.56 | 29.61 | -89.72 | 134.80 | 497.19 | 4,264.75 | 4,186.83 | 77.92 | 54.732 | | |
| 10,200.00 | 6,939.89 | 6,926.08 | 6,945.71 | 97.23 | 29.61 | -89.71 | 134.80 | 497.19 | 4,355.40 | 4,277.18 | 78.22 | 55.682 | | |
| 10,300.00 | 6,939.51 | 6,925.85 | 6,945.48 | 99.91 | 29.61 | -89.70 | 134.80 | 497.19 | 4,446.44 | 4,367.93 | 78.51 | 56.639 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER 32-15(SI_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,925.62 | 6,945.24 | 102.60 | 29.61 | 89.70 | 134.80 | 497.19 | 4,537.86 | 4,459.08 | 78.78 | 57.601 | | |
| 10,500.00 | 6,938.75 | 6,925.38 | 6,945.01 | 105.30 | 29.61 | 89.69 | 134.80 | 497.19 | 4,629.63 | 4,550.59 | 79.05 | 58.569 | | |
| 10,600.00 | 6,938.37 | 6,925.15 | 6,944.78 | 108.00 | 29.61 | 89.68 | 134.80 | 497.19 | 4,721.74 | 4,642.44 | 79.30 | 59.541 | | |
| 10,700.00 | 6,937.99 | 6,924.92 | 6,944.55 | 110.72 | 29.60 | 89.67 | 134.80 | 497.19 | 4,814.17 | 4,734.62 | 79.55 | 60.519 | | |
| 10,800.00 | 6,937.61 | 6,924.69 | 6,944.32 | 113.44 | 29.60 | 89.67 | 134.80 | 497.19 | 4,906.89 | 4,827.10 | 79.79 | 61.500 | | |
| 10,900.00 | 6,937.23 | 6,924.46 | 6,944.09 | 116.17 | 29.60 | 89.66 | 134.80 | 497.19 | 4,999.89 | 4,919.87 | 80.02 | 62.486 | | |
| 11,000.00 | 6,936.85 | 6,924.23 | 6,943.85 | 118.90 | 29.60 | 89.65 | 134.80 | 497.19 | 5,093.15 | 5,012.92 | 80.24 | 63.475 | | |
| 11,100.00 | 6,936.47 | 6,923.99 | 6,943.62 | 121.64 | 29.60 | 89.65 | 134.80 | 497.19 | 5,186.67 | 5,106.22 | 80.45 | 64.467 | | |
| 11,200.00 | 6,936.09 | 6,923.76 | 6,943.39 | 124.39 | 29.60 | 89.64 | 134.80 | 497.19 | 5,280.43 | 5,199.76 | 80.66 | 65.463 | | |
| 11,300.00 | 6,935.71 | 6,923.53 | 6,943.16 | 127.14 | 29.60 | 89.63 | 134.80 | 497.20 | 5,374.41 | 5,293.54 | 80.86 | 66.462 | | |
| 11,400.00 | 6,935.34 | 6,923.30 | 6,942.93 | 129.90 | 29.60 | 89.62 | 134.80 | 497.20 | 5,468.60 | 5,387.54 | 81.06 | 67.463 | | |
| 11,500.00 | 6,934.96 | 6,923.07 | 6,942.70 | 132.66 | 29.60 | 89.62 | 134.80 | 497.20 | 5,563.00 | 5,481.75 | 81.25 | 68.467 | | |
| 11,600.00 | 6,934.58 | 6,922.84 | 6,942.47 | 135.42 | 29.60 | 89.61 | 134.80 | 497.20 | 5,657.59 | 5,576.15 | 81.44 | 69.473 | | |
| 11,700.00 | 6,934.20 | 6,922.61 | 6,942.24 | 138.19 | 29.59 | 89.60 | 134.80 | 497.20 | 5,752.36 | 5,670.74 | 81.62 | 70.482 | | |
| 11,800.00 | 6,933.82 | 6,922.38 | 6,942.00 | 140.96 | 29.59 | 89.59 | 134.80 | 497.20 | 5,847.30 | 5,765.51 | 81.79 | 71.492 | | |
| 11,900.00 | 6,933.44 | 6,922.15 | 6,941.77 | 143.74 | 29.59 | 89.59 | 134.80 | 497.20 | 5,942.42 | 5,860.46 | 81.96 | 72.504 | | |
| 12,000.00 | 6,933.06 | 6,921.92 | 6,941.54 | 146.51 | 29.59 | 89.58 | 134.80 | 497.20 | 6,037.69 | 5,955.56 | 82.13 | 73.517 | | |
| 12,100.00 | 6,932.68 | 6,921.68 | 6,941.31 | 149.30 | 29.59 | 89.57 | 134.80 | 497.20 | 6,133.11 | 6,050.82 | 82.29 | 74.532 | | |
| 12,200.00 | 6,932.30 | 6,921.45 | 6,941.08 | 152.08 | 29.59 | 89.57 | 134.80 | 497.20 | 6,228.67 | 6,146.22 | 82.45 | 75.549 | | |
| 12,300.00 | 6,931.92 | 6,921.22 | 6,940.85 | 154.87 | 29.59 | 89.56 | 134.80 | 497.20 | 6,324.37 | 6,241.77 | 82.60 | 76.566 | | |
| 12,400.00 | 6,931.54 | 6,920.99 | 6,940.62 | 157.66 | 29.59 | 89.55 | 134.80 | 497.20 | 6,420.20 | 6,337.45 | 82.75 | 77.585 | | |
| 12,500.00 | 6,931.16 | 6,920.76 | 6,940.39 | 160.45 | 29.59 | 89.54 | 134.80 | 497.20 | 6,516.16 | 6,433.26 | 82.90 | 78.604 | | |
| 12,600.00 | 6,930.78 | 6,920.53 | 6,940.16 | 163.24 | 29.59 | 89.54 | 134.80 | 497.20 | 6,612.24 | 6,529.19 | 83.04 | 79.624 | | |
| 12,700.00 | 6,930.40 | 6,920.30 | 6,939.93 | 166.04 | 29.58 | 89.53 | 134.80 | 497.20 | 6,708.43 | 6,625.25 | 83.18 | 80.645 | | |
| 12,800.00 | 6,930.03 | 6,920.07 | 6,939.70 | 168.84 | 29.58 | 89.52 | 134.80 | 497.20 | 6,804.73 | 6,721.41 | 83.32 | 81.666 | | |
| 12,900.00 | 6,929.65 | 6,919.84 | 6,939.47 | 171.64 | 29.58 | 89.51 | 134.80 | 497.20 | 6,901.14 | 6,817.68 | 83.46 | 82.688 | | |
| 13,000.00 | 6,929.27 | 6,919.61 | 6,939.24 | 174.44 | 29.58 | 89.51 | 134.80 | 497.20 | 6,997.65 | 6,914.05 | 83.59 | 83.711 | | |
| 13,100.00 | 6,928.89 | 6,919.38 | 6,939.01 | 177.24 | 29.58 | 89.50 | 134.80 | 497.20 | 7,094.25 | 7,010.53 | 83.72 | 84.733 | | |
| 13,200.00 | 6,928.51 | 6,919.16 | 6,938.78 | 180.05 | 29.58 | 89.49 | 134.80 | 497.20 | 7,190.95 | 7,107.09 | 83.85 | 85.756 | | |
| 13,300.00 | 6,928.13 | 6,918.93 | 6,938.55 | 182.86 | 29.58 | 89.49 | 134.80 | 497.20 | 7,287.73 | 7,203.75 | 83.98 | 86.779 | | |
| 13,400.00 | 6,927.75 | 6,918.70 | 6,938.32 | 185.67 | 29.58 | 89.48 | 134.80 | 497.20 | 7,384.61 | 7,300.50 | 84.11 | 87.802 | | |
| 13,500.00 | 6,927.37 | 6,918.47 | 6,938.10 | 188.48 | 29.58 | 89.47 | 134.80 | 497.20 | 7,481.56 | 7,397.33 | 84.23 | 88.825 | | |
| 13,600.00 | 6,926.99 | 6,918.24 | 6,937.87 | 191.29 | 29.58 | 89.46 | 134.80 | 497.20 | 7,578.59 | 7,494.25 | 84.35 | 89.848 | | |
| 13,700.00 | 6,926.61 | 6,918.01 | 6,937.64 | 194.10 | 29.57 | 89.46 | 134.80 | 497.20 | 7,675.70 | 7,591.24 | 84.47 | 90.871 | | |
| 13,800.00 | 6,926.23 | 6,917.78 | 6,937.41 | 196.92 | 29.57 | 89.45 | 134.80 | 497.20 | 7,772.89 | 7,688.30 | 84.59 | 91.893 | | |
| 13,900.00 | 6,925.85 | 6,917.55 | 6,937.18 | 199.73 | 29.57 | 89.44 | 134.80 | 497.20 | 7,870.14 | 7,785.44 | 84.70 | 92.915 | | |
| 14,000.00 | 6,925.47 | 6,917.32 | 6,936.95 | 202.55 | 29.57 | 89.44 | 134.80 | 497.20 | 7,967.46 | 7,882.65 | 84.82 | 93.937 | | |
| 14,100.00 | 6,925.09 | 6,917.09 | 6,936.72 | 205.37 | 29.57 | 89.43 | 134.80 | 497.20 | 8,064.85 | 7,979.92 | 84.93 | 94.958 | | |
| 14,200.00 | 6,924.71 | 6,916.87 | 6,936.49 | 208.19 | 29.57 | 89.42 | 134.80 | 497.20 | 8,162.30 | 8,077.26 | 85.04 | 95.979 | | |
| 14,300.00 | 6,924.34 | 6,916.64 | 6,936.27 | 211.01 | 29.57 | 89.41 | 134.80 | 497.21 | 8,259.81 | 8,174.66 | 85.15 | 96.999 | | |
| 14,400.00 | 6,923.96 | 6,916.41 | 6,936.04 | 213.83 | 29.57 | 89.41 | 134.80 | 497.21 | 8,357.38 | 8,272.12 | 85.26 | 98.019 | | |
| 14,500.00 | 6,923.58 | 6,916.18 | 6,935.81 | 216.65 | 29.57 | 89.40 | 134.80 | 497.21 | 8,455.01 | 8,369.64 | 85.37 | 99.038 | | |
| 14,600.00 | 6,923.20 | 6,915.95 | 6,935.58 | 219.48 | 29.57 | 89.39 | 134.80 | 497.21 | 8,552.69 | 8,467.21 | 85.48 | 100.056 | | |
| 14,700.00 | 6,922.82 | 6,915.72 | 6,935.35 | 222.30 | 29.57 | 89.38 | 134.80 | 497.21 | 8,650.42 | 8,564.84 | 85.59 | 101.074 | | |
| 14,800.00 | 6,922.44 | 6,915.50 | 6,935.12 | 225.13 | 29.56 | 89.38 | 134.80 | 497.21 | 8,748.21 | 8,662.52 | 85.69 | 102.091 | | |
| 14,900.00 | 6,922.06 | 6,915.27 | 6,934.90 | 227.95 | 29.56 | 89.37 | 134.80 | 497.21 | 8,846.04 | 8,760.25 | 85.79 | 103.107 | | |
| 14,915.55 | 6,922.00 | 6,915.23 | 6,934.86 | 228.39 | 29.56 | 89.37 | 134.80 | 497.21 | 8,861.26 | 8,775.45 | 85.81 | 103.265 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 30C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 2.00 | 0.00 | 3.28 | 3.28 | 0.46 | 379.97 | 3.06 | 379.98 | | | | | |
| 100.00 | 100.00 | 102.00 | 100.00 | 3.28 | 3.29 | 0.46 | 379.97 | 3.06 | 379.98 | 373.41 | 6.57 | 57.837 | | |
| 200.00 | 200.00 | 202.00 | 200.00 | 3.34 | 3.34 | 0.46 | 379.97 | 3.06 | 379.98 | 373.31 | 6.68 | 56.920 | CC, ES | |
| 300.00 | 299.98 | 290.02 | 288.01 | 3.44 | 3.43 | 175.07 | 381.38 | 2.92 | 383.31 | 376.43 | 6.88 | 55.695 | | |
| 400.00 | 399.84 | 377.72 | 375.60 | 3.59 | 3.57 | 175.05 | 385.45 | 2.51 | 393.16 | 385.97 | 7.19 | 54.647 | | |
| 500.00 | 499.45 | 464.32 | 461.95 | 3.79 | 3.74 | 175.01 | 392.09 | 1.84 | 409.45 | 401.86 | 7.60 | 53.904 | | |
| 600.00 | 598.70 | 549.32 | 546.45 | 4.03 | 3.94 | 174.96 | 401.13 | 0.93 | 432.08 | 424.01 | 8.07 | 53.570 | | |
| 700.00 | 697.47 | 632.23 | 628.59 | 4.31 | 4.16 | 174.90 | 412.35 | -0.19 | 460.88 | 452.29 | 8.58 | 53.691 | | |
| 800.00 | 795.62 | 712.64 | 707.91 | 4.64 | 4.39 | 174.83 | 425.49 | -1.51 | 495.66 | 486.52 | 9.13 | 54.268 | | |
| 900.00 | 893.06 | 790.17 | 784.00 | 5.00 | 4.63 | 174.74 | 440.24 | -2.99 | 536.19 | 526.49 | 9.70 | 55.272 | | |
| 1,000.00 | 989.78 | 864.72 | 856.77 | 5.39 | 4.88 | 174.70 | 456.36 | -4.61 | 581.78 | 571.51 | 10.27 | 56.643 | | |
| 1,100.00 | 1,086.42 | 937.14 | 927.03 | 5.81 | 5.14 | 174.69 | 473.81 | -6.36 | 629.93 | 619.09 | 10.83 | 58.148 | | |
| 1,200.00 | 1,183.06 | 1,007.56 | 994.90 | 6.25 | 5.40 | 174.65 | 492.47 | -8.24 | 680.23 | 668.84 | 11.39 | 59.701 | | |
| 1,300.00 | 1,279.69 | 1,083.55 | 1,067.68 | 6.71 | 5.71 | 174.61 | 514.24 | -10.42 | 732.41 | 720.43 | 11.99 | 61.105 | | |
| 1,400.00 | 1,376.33 | 1,168.66 | 1,149.11 | 7.17 | 6.07 | 174.56 | 538.89 | -12.90 | 784.91 | 772.27 | 12.64 | 62.096 | | |
| 1,500.00 | 1,472.97 | 1,253.77 | 1,230.53 | 7.65 | 6.44 | 174.51 | 563.54 | -15.37 | 837.41 | 824.10 | 13.32 | 62.879 | | |
| 1,600.00 | 1,569.61 | 1,338.88 | 1,311.95 | 8.13 | 6.82 | 174.47 | 588.19 | -17.84 | 889.92 | 875.90 | 14.02 | 63.497 | | |
| 1,700.00 | 1,666.24 | 1,423.99 | 1,393.37 | 8.62 | 7.22 | 174.44 | 612.84 | -20.32 | 942.42 | 927.69 | 14.73 | 63.984 | | |
| 1,800.00 | 1,762.88 | 1,509.09 | 1,474.80 | 9.12 | 7.62 | 174.41 | 637.49 | -22.79 | 994.92 | 979.46 | 15.46 | 64.365 | | |
| 1,900.00 | 1,859.52 | 1,605.80 | 1,556.22 | 9.62 | 8.08 | 174.38 | 662.14 | -25.27 | 1,047.42 | 1,031.17 | 16.25 | 64.557 | | |
| 2,000.00 | 1,956.16 | 1,679.31 | 1,637.64 | 10.13 | 8.43 | 174.36 | 686.79 | -27.74 | 1,099.92 | 1,082.97 | 16.95 | 64.892 | | |
| 2,100.00 | 2,052.79 | 1,764.42 | 1,719.06 | 10.64 | 8.85 | 174.34 | 711.44 | -30.22 | 1,152.42 | 1,134.71 | 17.71 | 65.067 | | |
| 2,200.00 | 2,149.43 | 1,849.53 | 1,800.49 | 11.15 | 9.27 | 174.32 | 736.09 | -32.69 | 1,204.93 | 1,186.45 | 18.48 | 65.198 | | |
| 2,300.00 | 2,246.07 | 1,934.63 | 1,881.91 | 11.66 | 9.69 | 174.30 | 760.74 | -35.17 | 1,257.43 | 1,238.17 | 19.26 | 65.294 | | |
| 2,400.00 | 2,342.71 | 2,019.74 | 1,963.33 | 12.18 | 10.12 | 174.28 | 785.39 | -37.64 | 1,309.93 | 1,289.89 | 20.04 | 65.361 | | |
| 2,500.00 | 2,439.34 | 2,104.85 | 2,044.76 | 12.70 | 10.54 | 174.26 | 810.04 | -40.12 | 1,362.43 | 1,341.60 | 20.83 | 65.406 | | |
| 2,600.00 | 2,535.98 | 2,189.96 | 2,126.18 | 13.22 | 10.98 | 174.25 | 834.69 | -42.59 | 1,414.94 | 1,393.31 | 21.62 | 65.431 | | |
| 2,700.00 | 2,632.62 | 2,275.07 | 2,207.60 | 13.75 | 11.41 | 174.23 | 859.34 | -45.07 | 1,467.44 | 1,445.02 | 22.42 | 65.442 | | |
| 2,800.00 | 2,729.26 | 2,360.17 | 2,289.02 | 14.27 | 11.84 | 174.22 | 883.99 | -47.54 | 1,519.94 | 1,496.72 | 23.23 | 65.440 | | |
| 2,900.00 | 2,825.89 | 2,445.28 | 2,370.45 | 14.80 | 12.28 | 174.21 | 908.64 | -50.02 | 1,572.44 | 1,548.41 | 24.03 | 65.428 | | |
| 3,000.00 | 2,922.53 | 2,530.39 | 2,451.87 | 15.32 | 12.72 | 174.20 | 933.29 | -52.49 | 1,624.95 | 1,600.10 | 24.84 | 65.409 | | |
| 3,100.00 | 3,019.17 | 2,615.50 | 2,533.29 | 15.85 | 13.16 | 174.19 | 957.94 | -54.97 | 1,677.45 | 1,651.79 | 25.66 | 65.383 | | |
| 3,200.00 | 3,115.81 | 2,700.61 | 2,614.71 | 16.38 | 13.60 | 174.18 | 982.59 | -57.44 | 1,729.95 | 1,703.48 | 26.47 | 65.351 | | |
| 3,300.00 | 3,212.44 | 2,785.71 | 2,696.14 | 16.91 | 14.04 | 174.17 | 1,007.24 | -59.92 | 1,782.46 | 1,755.17 | 27.29 | 65.316 | | |
| 3,400.00 | 3,309.08 | 2,870.82 | 2,777.56 | 17.44 | 14.48 | 174.16 | 1,031.89 | -62.39 | 1,834.96 | 1,806.85 | 28.11 | 65.277 | | |
| 3,500.00 | 3,405.72 | 2,955.93 | 2,858.98 | 17.97 | 14.93 | 174.15 | 1,056.54 | -64.87 | 1,887.46 | 1,858.53 | 28.93 | 65.236 | | |
| 3,600.00 | 3,502.36 | 3,041.04 | 2,940.40 | 18.50 | 15.37 | 174.14 | 1,081.19 | -67.34 | 1,939.96 | 1,910.21 | 29.76 | 65.193 | | |
| 3,700.00 | 3,598.99 | 3,126.15 | 3,021.83 | 19.03 | 15.82 | 174.14 | 1,105.84 | -69.81 | 1,992.47 | 1,961.88 | 30.58 | 65.148 | | |
| 3,800.00 | 3,695.63 | 3,211.26 | 3,103.25 | 19.57 | 16.26 | 174.13 | 1,130.49 | -72.29 | 2,044.97 | 2,013.56 | 31.41 | 65.102 | | |
| 3,900.00 | 3,792.27 | 3,303.64 | 3,184.67 | 20.10 | 16.75 | 174.12 | 1,155.14 | -74.76 | 2,097.47 | 2,065.20 | 32.28 | 64.983 | | |
| 4,000.00 | 3,888.91 | 3,381.47 | 3,266.09 | 20.63 | 17.16 | 174.12 | 1,179.79 | -77.24 | 2,149.98 | 2,116.90 | 33.07 | 65.009 | | |
| 4,100.00 | 3,985.54 | 3,466.58 | 3,347.52 | 21.17 | 17.61 | 174.11 | 1,204.44 | -79.71 | 2,202.48 | 2,168.58 | 33.90 | 64.961 | | |
| 4,200.00 | 4,082.18 | 3,551.69 | 3,428.94 | 21.70 | 18.05 | 174.11 | 1,229.09 | -82.19 | 2,254.98 | 2,220.24 | 34.74 | 64.914 | | |
| 4,300.00 | 4,178.82 | 3,636.80 | 3,510.36 | 22.24 | 18.50 | 174.10 | 1,253.74 | -84.66 | 2,307.49 | 2,271.91 | 35.57 | 64.867 | | |
| 4,400.00 | 4,275.46 | 3,721.90 | 3,591.78 | 22.77 | 18.95 | 174.09 | 1,278.39 | -87.14 | 2,359.99 | 2,323.58 | 36.41 | 64.819 | | |
| 4,500.00 | 4,372.09 | 3,807.01 | 3,673.21 | 23.31 | 19.40 | 174.09 | 1,303.04 | -89.61 | 2,412.49 | 2,375.25 | 37.25 | 64.773 | | |
| 4,600.00 | 4,468.73 | 3,907.88 | 3,754.63 | 23.84 | 19.94 | 174.08 | 1,327.69 | -92.09 | 2,465.00 | 2,426.83 | 38.16 | 64.594 | | |
| 4,700.00 | 4,565.37 | 3,977.23 | 3,836.05 | 24.38 | 20.30 | 174.08 | 1,352.34 | -94.56 | 2,517.50 | 2,478.58 | 38.92 | 64.680 | | |
| 4,800.00 | 4,662.01 | 4,062.34 | 3,917.47 | 24.91 | 20.75 | 174.08 | 1,376.99 | -97.04 | 2,570.00 | 2,530.24 | 39.76 | 64.635 | | |
| 4,900.00 | 4,758.64 | 4,147.44 | 3,998.90 | 25.45 | 21.21 | 174.07 | 1,401.64 | -99.51 | 2,622.50 | 2,581.90 | 40.60 | 64.590 | | |
| 5,000.00 | 4,855.28 | 4,232.55 | 4,080.32 | 25.99 | 21.66 | 174.07 | 1,426.29 | -101.99 | 2,675.01 | 2,633.56 | 41.44 | 64.546 | | |
| 5,100.00 | 4,951.92 | 4,317.66 | 4,161.74 | 26.53 | 22.11 | 174.06 | 1,450.94 | -104.46 | 2,727.51 | 2,685.23 | 42.29 | 64.502 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 30C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,402.77 | 4,243.17 | 27.06 | 22.56 | 174.06 | 1,475.59 | -106.94 | 2,780.01 | 2,736.89 | 43.13 | 64.459 | | |
| 5,300.00 | 5,145.19 | 4,487.88 | 4,324.59 | 27.60 | 23.01 | 174.06 | 1,500.24 | -109.41 | 2,832.52 | 2,788.55 | 43.97 | 64.416 | | |
| 5,400.00 | 5,241.83 | 4,572.99 | 4,406.01 | 28.14 | 23.47 | 174.05 | 1,524.89 | -111.89 | 2,885.02 | 2,840.20 | 44.82 | 64.374 | | |
| 5,500.00 | 5,338.47 | 4,658.09 | 4,487.43 | 28.67 | 23.92 | 174.05 | 1,549.54 | -114.36 | 2,937.52 | 2,891.86 | 45.66 | 64.333 | | |
| 5,600.00 | 5,435.11 | 4,743.20 | 4,568.86 | 29.21 | 24.37 | 174.05 | 1,574.19 | -116.84 | 2,990.03 | 2,943.52 | 46.51 | 64.292 | | |
| 5,700.00 | 5,531.74 | 4,828.31 | 4,650.28 | 29.75 | 24.82 | 174.04 | 1,598.84 | -119.31 | 3,042.53 | 2,995.18 | 47.35 | 64.252 | | |
| 5,800.00 | 5,628.38 | 4,913.42 | 4,731.70 | 30.29 | 25.28 | 174.04 | 1,623.49 | -121.79 | 3,095.03 | 3,046.83 | 48.20 | 64.213 | | |
| 5,900.00 | 5,725.02 | 5,001.47 | 4,813.12 | 30.83 | 25.75 | 174.04 | 1,648.14 | -124.26 | 3,147.54 | 3,098.48 | 49.06 | 64.155 | | |
| 6,000.00 | 5,821.66 | 5,083.63 | 4,894.55 | 31.37 | 26.18 | 174.03 | 1,672.79 | -126.73 | 3,200.04 | 3,150.15 | 49.89 | 64.136 | | |
| 6,100.00 | 5,918.29 | 5,168.74 | 4,975.97 | 31.90 | 26.64 | 174.03 | 1,697.44 | -129.21 | 3,252.54 | 3,201.80 | 50.74 | 64.098 | | |
| 6,200.00 | 6,014.93 | 5,253.85 | 5,057.39 | 32.44 | 27.09 | 174.03 | 1,722.09 | -131.68 | 3,305.05 | 3,253.45 | 51.59 | 64.061 | | |
| 6,300.00 | 6,111.57 | 5,326.21 | 5,111.57 | 32.98 | 31.89 | 174.26 | 1,885.21 | -148.06 | 3,352.03 | 3,292.94 | 59.09 | 56.729 | | |
| 6,400.00 | 6,208.21 | 5,422.85 | 5,208.21 | 33.52 | 32.23 | 174.30 | 1,885.21 | -148.06 | 3,377.62 | 3,317.69 | 59.93 | 56.357 | | |
| 6,500.00 | 6,304.84 | 5,519.48 | 5,304.84 | 34.06 | 32.58 | 174.34 | 1,885.21 | -148.06 | 3,403.22 | 3,342.44 | 60.78 | 55.995 | | |
| 6,600.00 | 6,401.37 | 5,616.01 | 5,401.37 | 34.60 | 32.93 | 156.47 | 1,885.21 | -148.06 | 3,428.80 | 3,367.18 | 61.62 | 55.641 | | |
| 6,700.00 | 6,496.25 | 5,710.89 | 5,496.25 | 35.12 | 33.27 | 131.94 | 1,885.21 | -148.06 | 3,454.10 | 3,391.64 | 62.46 | 55.302 | | |
| 6,800.00 | 6,587.15 | 5,801.79 | 5,587.15 | 35.59 | 33.60 | 117.79 | 1,885.21 | -148.06 | 3,478.73 | 3,415.47 | 63.26 | 54.993 | | |
| 6,900.00 | 6,671.83 | 5,898.58 | 5,683.84 | 36.03 | 33.95 | 109.33 | 1,885.19 | -151.03 | 3,502.43 | 3,438.37 | 64.05 | 54.680 | | |
| 7,000.00 | 6,748.21 | 5,911.07 | 5,794.27 | 36.41 | 34.35 | 103.89 | 1,885.03 | -171.70 | 3,524.52 | 3,459.61 | 64.91 | 54.300 | | |
| 7,100.00 | 6,814.41 | 5,137.63 | 6,911.94 | 36.76 | 34.78 | 100.26 | 1,884.67 | -217.72 | 3,544.34 | 3,478.49 | 65.86 | 53.817 | | |
| 7,200.00 | 6,868.79 | 7,281.72 | 7,031.79 | 37.07 | 35.22 | 97.85 | 1,884.04 | -297.16 | 3,561.21 | 3,494.22 | 66.99 | 53.160 | | |
| 7,300.00 | 6,910.01 | 7,445.66 | 7,142.45 | 37.39 | 35.66 | 96.32 | 1,883.10 | -417.50 | 3,574.36 | 3,505.89 | 68.47 | 52.201 | | |
| 7,400.00 | 6,937.07 | 7,628.06 | 7,225.01 | 37.76 | 36.32 | 95.43 | 1,881.84 | -579.44 | 3,583.04 | 3,512.44 | 70.60 | 50.751 | | |
| 7,500.00 | 6,949.29 | 7,821.31 | 7,258.81 | 38.27 | 37.95 | 94.98 | 1,880.35 | -768.95 | 3,586.64 | 3,513.09 | 73.56 | 48.761 | | |
| 7,600.00 | 6,949.75 | 7,930.11 | 7,258.65 | 39.02 | 39.25 | 94.94 | 1,879.50 | -877.75 | 3,586.62 | 3,510.53 | 76.09 | 47.138 | | |
| 7,700.00 | 6,949.37 | 8,030.11 | 7,258.27 | 40.05 | 40.63 | 94.94 | 1,878.72 | -977.74 | 3,586.44 | 3,507.59 | 78.84 | 45.489 | | |
| 7,800.00 | 6,948.99 | 8,130.11 | 7,257.89 | 41.35 | 42.16 | 94.94 | 1,877.94 | -1,077.74 | 3,586.25 | 3,504.35 | 81.90 | 43.788 | | |
| 7,900.00 | 6,948.61 | 8,230.11 | 7,257.51 | 42.86 | 43.83 | 94.94 | 1,877.16 | -1,177.73 | 3,586.07 | 3,500.84 | 85.23 | 42.075 | | |
| 8,000.00 | 6,948.23 | 8,330.11 | 7,257.13 | 44.53 | 45.61 | 94.94 | 1,876.38 | -1,277.73 | 3,585.89 | 3,497.09 | 88.80 | 40.381 | | |
| 8,100.00 | 6,947.85 | 8,430.11 | 7,256.75 | 46.34 | 47.50 | 94.94 | 1,875.59 | -1,377.73 | 3,585.71 | 3,493.12 | 92.59 | 38.728 | | |
| 8,200.00 | 6,947.47 | 8,530.11 | 7,256.37 | 48.26 | 49.49 | 94.94 | 1,874.81 | -1,477.72 | 3,585.52 | 3,488.97 | 96.56 | 37.133 | | |
| 8,300.00 | 6,947.09 | 8,630.11 | 7,255.99 | 50.28 | 51.56 | 94.94 | 1,874.03 | -1,577.72 | 3,585.34 | 3,484.64 | 100.70 | 35.605 | | |
| 8,400.00 | 6,946.72 | 8,730.11 | 7,255.62 | 52.39 | 53.70 | 94.94 | 1,873.25 | -1,677.71 | 3,585.16 | 3,480.18 | 104.98 | 34.151 | | |
| 8,500.00 | 6,946.34 | 8,830.11 | 7,255.24 | 54.56 | 55.90 | 94.94 | 1,872.47 | -1,777.71 | 3,584.98 | 3,475.58 | 109.39 | 32.771 | | |
| 8,600.00 | 6,945.96 | 8,930.11 | 7,254.86 | 56.80 | 58.16 | 94.94 | 1,871.68 | -1,877.71 | 3,584.79 | 3,470.87 | 113.92 | 31.467 | | |
| 8,700.00 | 6,945.58 | 9,030.11 | 7,254.48 | 59.10 | 60.48 | 94.94 | 1,870.90 | -1,977.70 | 3,584.61 | 3,466.06 | 118.55 | 30.237 | | |
| 8,800.00 | 6,945.20 | 9,130.11 | 7,254.10 | 61.44 | 62.83 | 94.94 | 1,870.12 | -2,077.70 | 3,584.43 | 3,461.16 | 123.27 | 29.079 | | |
| 8,900.00 | 6,944.82 | 9,230.11 | 7,253.72 | 63.83 | 65.23 | 94.94 | 1,869.34 | -2,177.69 | 3,584.24 | 3,456.18 | 128.06 | 27.988 | | |
| 9,000.00 | 6,944.44 | 9,330.11 | 7,253.34 | 66.25 | 67.67 | 94.94 | 1,868.56 | -2,277.69 | 3,584.06 | 3,451.13 | 132.93 | 26.962 | | |
| 9,100.00 | 6,944.06 | 9,430.11 | 7,252.96 | 68.71 | 70.13 | 94.94 | 1,867.77 | -2,377.69 | 3,583.88 | 3,446.02 | 137.86 | 25.996 | | |
| 9,200.00 | 6,943.68 | 9,530.11 | 7,252.58 | 71.20 | 72.63 | 94.95 | 1,866.99 | -2,477.68 | 3,583.70 | 3,440.84 | 142.85 | 25.087 | | |
| 9,300.00 | 6,943.30 | 9,630.11 | 7,252.20 | 73.72 | 75.15 | 94.95 | 1,866.21 | -2,577.68 | 3,583.51 | 3,435.62 | 147.89 | 24.231 | | |
| 9,400.00 | 6,942.92 | 9,730.11 | 7,251.82 | 76.26 | 77.69 | 94.95 | 1,865.43 | -2,677.68 | 3,583.33 | 3,430.35 | 152.98 | 23.424 | | |
| 9,500.00 | 6,942.54 | 9,830.11 | 7,251.44 | 78.82 | 80.25 | 94.95 | 1,864.65 | -2,777.67 | 3,583.15 | 3,425.04 | 158.11 | 22.663 | | |
| 9,600.00 | 6,942.16 | 9,930.11 | 7,251.06 | 81.40 | 82.84 | 94.95 | 1,863.86 | -2,877.67 | 3,582.97 | 3,419.69 | 163.27 | 21.945 | | |
| 9,700.00 | 6,941.78 | 10,030.11 | 7,250.68 | 84.00 | 85.44 | 94.95 | 1,863.08 | -2,977.66 | 3,582.78 | 3,414.31 | 168.47 | 21.266 | | |
| 9,800.00 | 6,941.40 | 10,130.11 | 7,250.30 | 86.62 | 88.06 | 94.95 | 1,862.30 | -3,077.66 | 3,582.60 | 3,408.90 | 173.70 | 20.625 | | |
| 9,900.00 | 6,941.03 | 10,230.11 | 7,249.92 | 89.25 | 90.69 | 94.95 | 1,861.52 | -3,177.66 | 3,582.42 | 3,403.46 | 178.96 | 20.018 | | |
| 10,000.00 | 6,940.65 | 10,330.11 | 7,249.54 | 91.90 | 93.33 | 94.95 | 1,860.74 | -3,277.65 | 3,582.23 | 3,397.99 | 184.25 | 19.443 | | |
| 10,100.00 | 6,940.27 | 10,430.11 | 7,249.16 | 94.56 | 95.99 | 94.95 | 1,859.95 | -3,377.65 | 3,582.05 | 3,392.50 | 189.56 | 18.897 | | |
| 10,200.00 | 6,939.89 | 10,530.11 | 7,248.78 | 97.23 | 98.66 | 94.95 | 1,859.17 | -3,477.64 | 3,581.87 | 3,386.98 | 194.89 | 18.379 | | |
| 10,300.00 | 6,939.51 | 10,630.11 | 7,248.40 | 99.91 | 101.34 | 94.95 | 1,858.39 | -3,577.64 | 3,581.69 | 3,381.45 | 200.24 | 17.887 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 30C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,730.11 | 7,248.02 | 102.60 | 104.03 | 94.95 | 1,857.61 | -3,677.64 | 3,581.50 | 3,375.90 | 205.61 | 17.419 | | |
| 10,500.00 | 6,938.75 | 10,830.11 | 7,247.65 | 105.30 | 106.73 | 94.95 | 1,856.83 | -3,777.63 | 3,581.32 | 3,370.33 | 211.00 | 16.973 | | |
| 10,600.00 | 6,938.37 | 10,930.11 | 7,247.27 | 108.00 | 109.43 | 94.95 | 1,856.04 | -3,877.63 | 3,581.14 | 3,364.74 | 216.40 | 16.549 | | |
| 10,700.00 | 6,937.99 | 11,030.11 | 7,246.89 | 110.72 | 112.14 | 94.95 | 1,855.26 | -3,977.62 | 3,580.96 | 3,359.14 | 221.82 | 16.144 | | |
| 10,800.00 | 6,937.61 | 11,130.11 | 7,246.51 | 113.44 | 114.87 | 94.95 | 1,854.48 | -4,077.62 | 3,580.77 | 3,353.53 | 227.25 | 15.757 | | |
| 10,900.00 | 6,937.23 | 11,230.11 | 7,246.13 | 116.17 | 117.59 | 94.95 | 1,853.70 | -4,177.62 | 3,580.59 | 3,347.90 | 232.69 | 15.388 | | |
| 11,000.00 | 6,936.85 | 11,330.10 | 7,245.75 | 118.90 | 120.32 | 94.95 | 1,852.92 | -4,277.61 | 3,580.41 | 3,342.26 | 238.15 | 15.034 | | |
| 11,100.00 | 6,936.47 | 11,430.10 | 7,245.37 | 121.64 | 123.06 | 94.95 | 1,852.13 | -4,377.61 | 3,580.22 | 3,336.61 | 243.61 | 14.696 | | |
| 11,200.00 | 6,936.09 | 11,530.10 | 7,244.99 | 124.39 | 125.81 | 94.95 | 1,851.35 | -4,477.60 | 3,580.04 | 3,330.95 | 249.09 | 14.372 | | |
| 11,300.00 | 6,935.71 | 11,630.10 | 7,244.61 | 127.14 | 128.56 | 94.95 | 1,850.57 | -4,577.60 | 3,579.86 | 3,325.28 | 254.58 | 14.062 | | |
| 11,400.00 | 6,935.34 | 11,730.10 | 7,244.23 | 129.90 | 131.31 | 94.95 | 1,849.79 | -4,677.60 | 3,579.68 | 3,319.60 | 260.07 | 13.764 | | |
| 11,500.00 | 6,934.96 | 11,830.10 | 7,243.85 | 132.66 | 134.07 | 94.95 | 1,849.01 | -4,777.59 | 3,579.49 | 3,313.92 | 265.58 | 13.478 | | |
| 11,600.00 | 6,934.58 | 11,930.10 | 7,243.47 | 135.42 | 136.83 | 94.95 | 1,848.22 | -4,877.59 | 3,579.31 | 3,308.22 | 271.09 | 13.203 | | |
| 11,700.00 | 6,934.20 | 12,030.10 | 7,243.09 | 138.19 | 139.60 | 94.95 | 1,847.44 | -4,977.58 | 3,579.13 | 3,302.52 | 276.61 | 12.939 | | |
| 11,800.00 | 6,933.82 | 12,130.10 | 7,242.71 | 140.96 | 142.37 | 94.95 | 1,846.66 | -5,077.58 | 3,578.95 | 3,296.81 | 282.13 | 12.685 | | |
| 11,900.00 | 6,933.44 | 12,230.10 | 7,242.33 | 143.74 | 145.14 | 94.95 | 1,845.88 | -5,177.58 | 3,578.76 | 3,291.10 | 287.67 | 12.441 | | |
| 12,000.00 | 6,933.06 | 12,330.10 | 7,241.95 | 146.51 | 147.91 | 94.95 | 1,845.09 | -5,277.57 | 3,578.58 | 3,285.37 | 293.21 | 12.205 | | |
| 12,100.00 | 6,932.68 | 12,430.10 | 7,241.57 | 149.30 | 150.69 | 94.95 | 1,844.31 | -5,377.57 | 3,578.40 | 3,279.64 | 298.75 | 11.978 | | |
| 12,200.00 | 6,932.30 | 12,530.10 | 7,241.19 | 152.08 | 153.48 | 94.95 | 1,843.53 | -5,477.56 | 3,578.22 | 3,273.91 | 304.30 | 11.759 | | |
| 12,300.00 | 6,931.92 | 12,630.10 | 7,240.81 | 154.87 | 156.26 | 94.95 | 1,842.75 | -5,577.56 | 3,578.03 | 3,268.17 | 309.86 | 11.547 | | |
| 12,400.00 | 6,931.54 | 12,730.10 | 7,240.43 | 157.66 | 159.05 | 94.95 | 1,841.97 | -5,677.56 | 3,577.85 | 3,262.43 | 315.42 | 11.343 | | |
| 12,500.00 | 6,931.16 | 12,830.10 | 7,240.06 | 160.45 | 161.84 | 94.95 | 1,841.18 | -5,777.55 | 3,577.67 | 3,256.68 | 320.99 | 11.146 | | |
| 12,600.00 | 6,930.78 | 12,930.10 | 7,239.68 | 163.24 | 164.63 | 94.95 | 1,840.40 | -5,877.55 | 3,577.48 | 3,250.93 | 326.56 | 10.955 | | |
| 12,700.00 | 6,930.40 | 13,030.10 | 7,239.30 | 166.04 | 167.43 | 94.95 | 1,839.62 | -5,977.55 | 3,577.30 | 3,245.17 | 332.13 | 10.771 | | |
| 12,800.00 | 6,930.03 | 13,130.10 | 7,238.92 | 168.84 | 170.22 | 94.95 | 1,838.84 | -6,077.54 | 3,577.12 | 3,239.41 | 337.71 | 10.592 | | |
| 12,900.00 | 6,929.65 | 13,230.10 | 7,238.54 | 171.64 | 173.02 | 94.95 | 1,838.06 | -6,177.54 | 3,576.94 | 3,233.64 | 343.29 | 10.419 | | |
| 13,000.00 | 6,929.27 | 13,330.10 | 7,238.16 | 174.44 | 175.82 | 94.95 | 1,837.27 | -6,277.53 | 3,576.75 | 3,227.87 | 348.88 | 10.252 | | |
| 13,100.00 | 6,928.89 | 13,430.10 | 7,237.78 | 177.24 | 178.62 | 94.95 | 1,836.49 | -6,377.53 | 3,576.57 | 3,222.10 | 354.47 | 10.090 | | |
| 13,200.00 | 6,928.51 | 13,530.10 | 7,237.40 | 180.05 | 181.43 | 94.96 | 1,835.71 | -6,477.53 | 3,576.39 | 3,216.32 | 360.06 | 9.933 | | |
| 13,300.00 | 6,928.13 | 13,630.10 | 7,237.02 | 182.86 | 184.23 | 94.96 | 1,834.93 | -6,577.52 | 3,576.21 | 3,210.55 | 365.66 | 9.780 | | |
| 13,400.00 | 6,927.75 | 13,730.10 | 7,236.64 | 185.67 | 187.04 | 94.96 | 1,834.15 | -6,677.52 | 3,576.02 | 3,204.76 | 371.26 | 9.632 | | |
| 13,500.00 | 6,927.37 | 13,830.10 | 7,236.26 | 188.48 | 189.85 | 94.96 | 1,833.36 | -6,777.51 | 3,575.84 | 3,198.98 | 376.86 | 9.488 | | |
| 13,600.00 | 6,926.99 | 13,930.10 | 7,235.88 | 191.29 | 192.66 | 94.96 | 1,832.58 | -6,877.51 | 3,575.66 | 3,193.19 | 382.47 | 9.349 | | |
| 13,700.00 | 6,926.61 | 14,030.10 | 7,235.50 | 194.10 | 195.47 | 94.96 | 1,831.80 | -6,977.51 | 3,575.47 | 3,187.40 | 388.07 | 9.213 | | |
| 13,800.00 | 6,926.23 | 14,130.10 | 7,235.12 | 196.92 | 198.29 | 94.96 | 1,831.02 | -7,077.50 | 3,575.29 | 3,181.61 | 393.69 | 9.082 | | |
| 13,900.00 | 6,925.85 | 14,230.10 | 7,234.74 | 199.73 | 201.10 | 94.96 | 1,830.24 | -7,177.50 | 3,575.11 | 3,175.81 | 399.30 | 8.953 | | |
| 14,000.00 | 6,925.47 | 14,330.10 | 7,234.36 | 202.55 | 203.92 | 94.96 | 1,829.45 | -7,277.49 | 3,574.93 | 3,170.01 | 404.91 | 8.829 | | |
| 14,100.00 | 6,925.09 | 14,430.10 | 7,233.98 | 205.37 | 206.73 | 94.96 | 1,828.67 | -7,377.49 | 3,574.74 | 3,164.21 | 410.53 | 8.708 | | |
| 14,200.00 | 6,924.71 | 14,530.10 | 7,233.60 | 208.19 | 209.55 | 94.96 | 1,827.89 | -7,477.49 | 3,574.56 | 3,158.41 | 416.15 | 8.590 | | |
| 14,300.00 | 6,924.34 | 14,630.10 | 7,233.22 | 211.01 | 212.37 | 94.96 | 1,827.11 | -7,577.48 | 3,574.38 | 3,152.61 | 421.77 | 8.475 | | |
| 14,400.00 | 6,923.96 | 14,730.10 | 7,232.84 | 213.83 | 215.19 | 94.96 | 1,826.33 | -7,677.48 | 3,574.20 | 3,146.80 | 427.40 | 8.363 | | |
| 14,500.00 | 6,923.58 | 14,830.10 | 7,232.46 | 216.65 | 218.01 | 94.96 | 1,825.54 | -7,777.47 | 3,574.01 | 3,140.99 | 433.02 | 8.254 | | |
| 14,600.00 | 6,923.20 | 14,930.10 | 7,232.09 | 219.48 | 220.83 | 94.96 | 1,824.76 | -7,877.47 | 3,573.83 | 3,135.18 | 438.65 | 8.147 | | |
| 14,700.00 | 6,922.82 | 15,030.10 | 7,231.71 | 222.30 | 223.65 | 94.96 | 1,823.98 | -7,977.47 | 3,573.65 | 3,129.37 | 444.28 | 8.044 | | |
| 14,800.00 | 6,922.44 | 15,130.10 | 7,231.33 | 225.13 | 226.48 | 94.96 | 1,823.20 | -8,077.46 | 3,573.46 | 3,123.56 | 449.91 | 7.943 | | |
| 14,892.44 | 6,922.09 | 15,216.01 | 7,231.00 | 227.74 | 228.91 | 94.96 | 1,822.53 | -8,163.37 | 3,573.30 | 3,118.37 | 454.93 | 7.855 | | |
| 14,900.00 | 6,922.06 | 15,216.01 | 7,231.00 | 227.95 | 228.91 | 94.96 | 1,822.53 | -8,163.37 | 3,573.31 | 3,118.17 | 455.14 | 7.851 | | |
| 14,915.55 | 6,922.00 | 15,216.01 | 7,231.00 | 228.39 | 228.91 | 94.96 | 1,822.53 | -8,163.37 | 3,573.38 | 3,117.81 | 455.56 | 7.844 SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 30N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 2.00 | 0.00 | 3.28 | 3.28 | 0.49 | 360.30 | 3.06 | 360.31 | | | | | |
| 100.00 | 100.00 | 102.00 | 100.00 | 3.28 | 3.29 | 0.49 | 360.30 | 3.06 | 360.31 | 353.75 | 6.57 | 54.844 | | |
| 200.00 | 200.00 | 202.00 | 200.00 | 3.34 | 3.34 | 0.49 | 360.30 | 3.06 | 360.31 | 353.64 | 6.68 | 53.974 | CC, ES | |
| 300.00 | 299.98 | 301.98 | 299.98 | 3.44 | 3.45 | 175.13 | 360.30 | 3.06 | 362.05 | 355.17 | 6.89 | 52.566 | | |
| 400.00 | 399.84 | 390.33 | 388.32 | 3.59 | 3.59 | 175.15 | 361.71 | 2.88 | 368.86 | 361.67 | 7.19 | 51.307 | | |
| 500.00 | 499.45 | 478.05 | 475.94 | 3.79 | 3.76 | 175.14 | 365.79 | 2.36 | 382.16 | 374.57 | 7.59 | 50.378 | | |
| 600.00 | 598.70 | 564.39 | 562.02 | 4.03 | 3.96 | 175.10 | 372.39 | 1.51 | 401.85 | 393.80 | 8.05 | 49.890 | | |
| 700.00 | 697.47 | 648.85 | 645.99 | 4.31 | 4.19 | 175.04 | 381.34 | 0.36 | 427.81 | 419.23 | 8.58 | 49.884 | | |
| 800.00 | 795.62 | 730.97 | 727.35 | 4.64 | 4.43 | 174.96 | 392.40 | -1.05 | 459.84 | 450.71 | 9.13 | 50.354 | | |
| 900.00 | 893.06 | 810.36 | 805.66 | 5.00 | 4.68 | 174.86 | 405.27 | -2.70 | 497.76 | 488.05 | 9.71 | 51.272 | | |
| 1,000.00 | 989.78 | 889.53 | 883.39 | 5.39 | 4.94 | 174.80 | 420.21 | -4.62 | 540.79 | 530.49 | 10.30 | 52.514 | | |
| 1,100.00 | 1,086.42 | 979.26 | 971.33 | 5.81 | 5.25 | 174.76 | 437.88 | -6.88 | 584.93 | 574.01 | 10.91 | 53.596 | | |
| 1,200.00 | 1,183.06 | 1,068.99 | 1,059.28 | 6.25 | 5.58 | 174.73 | 455.55 | -9.15 | 629.06 | 617.49 | 11.57 | 54.370 | | |
| 1,300.00 | 1,279.69 | 1,158.73 | 1,147.23 | 6.71 | 5.92 | 174.71 | 473.23 | -11.41 | 673.20 | 660.95 | 12.25 | 54.956 | | |
| 1,400.00 | 1,376.33 | 1,248.46 | 1,235.17 | 7.17 | 6.28 | 174.68 | 490.90 | -13.68 | 717.34 | 704.38 | 12.95 | 55.383 | | |
| 1,500.00 | 1,472.97 | 1,338.19 | 1,323.12 | 7.65 | 6.65 | 174.66 | 508.57 | -15.94 | 761.47 | 747.80 | 13.67 | 55.688 | | |
| 1,600.00 | 1,569.61 | 1,427.92 | 1,411.06 | 8.13 | 7.02 | 174.64 | 526.24 | -18.20 | 805.61 | 791.20 | 14.41 | 55.900 | | |
| 1,700.00 | 1,666.24 | 1,517.66 | 1,499.01 | 8.62 | 7.40 | 174.63 | 543.92 | -20.47 | 849.75 | 834.58 | 15.16 | 56.038 | | |
| 1,800.00 | 1,762.88 | 1,607.39 | 1,586.95 | 9.12 | 7.79 | 174.61 | 561.59 | -22.73 | 893.88 | 877.96 | 15.93 | 56.122 | | |
| 1,900.00 | 1,859.52 | 1,702.88 | 1,674.90 | 9.62 | 8.21 | 174.60 | 579.26 | -25.00 | 938.02 | 921.30 | 16.73 | 56.081 | | |
| 2,000.00 | 1,956.16 | 1,786.85 | 1,762.84 | 10.13 | 8.58 | 174.59 | 596.93 | -27.26 | 982.16 | 964.67 | 17.48 | 56.172 | | |
| 2,100.00 | 2,052.79 | 1,876.58 | 1,850.79 | 10.64 | 8.98 | 174.58 | 614.61 | -29.53 | 1,026.30 | 1,008.02 | 18.28 | 56.156 | | |
| 2,200.00 | 2,149.43 | 1,966.32 | 1,938.74 | 11.15 | 9.38 | 174.57 | 632.28 | -31.79 | 1,070.43 | 1,051.36 | 19.07 | 56.121 | | |
| 2,300.00 | 2,246.07 | 2,056.05 | 2,026.68 | 11.66 | 9.78 | 174.56 | 649.95 | -34.06 | 1,114.57 | 1,094.69 | 19.88 | 56.072 | | |
| 2,400.00 | 2,342.71 | 2,145.78 | 2,114.63 | 12.18 | 10.19 | 174.55 | 667.62 | -36.32 | 1,158.71 | 1,138.02 | 20.69 | 56.013 | | |
| 2,500.00 | 2,439.34 | 2,235.51 | 2,202.57 | 12.70 | 10.60 | 174.54 | 685.30 | -38.59 | 1,202.85 | 1,181.35 | 21.50 | 55.945 | | |
| 2,600.00 | 2,535.98 | 2,325.25 | 2,290.52 | 13.22 | 11.01 | 174.53 | 702.97 | -40.85 | 1,246.98 | 1,224.66 | 22.32 | 55.872 | | |
| 2,700.00 | 2,632.62 | 2,414.98 | 2,378.46 | 13.75 | 11.43 | 174.53 | 720.64 | -43.12 | 1,291.12 | 1,267.98 | 23.14 | 55.796 | | |
| 2,800.00 | 2,729.26 | 2,504.71 | 2,466.41 | 14.27 | 11.84 | 174.52 | 738.32 | -45.38 | 1,335.26 | 1,311.29 | 23.97 | 55.716 | | |
| 2,900.00 | 2,825.89 | 2,605.56 | 2,554.35 | 14.80 | 12.31 | 174.51 | 755.99 | -47.65 | 1,379.40 | 1,354.55 | 24.84 | 55.523 | | |
| 3,000.00 | 2,922.53 | 2,684.17 | 2,642.30 | 15.32 | 12.67 | 174.51 | 773.66 | -49.91 | 1,423.53 | 1,397.91 | 25.62 | 55.554 | | |
| 3,100.00 | 3,019.17 | 2,773.91 | 2,730.25 | 15.85 | 13.09 | 174.50 | 791.33 | -52.17 | 1,467.67 | 1,441.21 | 26.46 | 55.472 | | |
| 3,200.00 | 3,115.81 | 2,863.64 | 2,818.19 | 16.38 | 13.51 | 174.50 | 809.01 | -54.44 | 1,511.81 | 1,484.51 | 27.29 | 55.391 | | |
| 3,300.00 | 3,212.44 | 2,953.37 | 2,906.14 | 16.91 | 13.93 | 174.49 | 826.68 | -56.70 | 1,555.95 | 1,527.81 | 28.13 | 55.311 | | |
| 3,400.00 | 3,309.08 | 3,043.10 | 2,994.08 | 17.44 | 14.35 | 174.49 | 844.35 | -58.97 | 1,600.08 | 1,571.11 | 28.97 | 55.231 | | |
| 3,500.00 | 3,405.72 | 3,132.84 | 3,082.03 | 17.97 | 14.78 | 174.48 | 862.02 | -61.23 | 1,644.22 | 1,614.41 | 29.81 | 55.153 | | |
| 3,600.00 | 3,502.36 | 3,222.57 | 3,169.97 | 18.50 | 15.20 | 174.48 | 879.70 | -63.50 | 1,688.36 | 1,657.70 | 30.65 | 55.076 | | |
| 3,700.00 | 3,598.99 | 3,312.30 | 3,257.92 | 19.03 | 15.62 | 174.48 | 897.37 | -65.76 | 1,732.50 | 1,701.00 | 31.50 | 55.001 | | |
| 3,800.00 | 3,695.63 | 3,402.03 | 3,345.86 | 19.57 | 16.05 | 174.47 | 915.04 | -68.03 | 1,776.63 | 1,744.29 | 32.34 | 54.928 | | |
| 3,900.00 | 3,792.27 | 3,508.24 | 3,433.81 | 20.10 | 16.55 | 174.47 | 932.71 | -70.29 | 1,820.77 | 1,787.50 | 33.27 | 54.731 | | |
| 4,000.00 | 3,888.91 | 3,581.50 | 3,521.76 | 20.63 | 16.90 | 174.47 | 950.39 | -72.56 | 1,864.91 | 1,830.87 | 34.04 | 54.786 | | |
| 4,100.00 | 3,985.54 | 3,671.23 | 3,609.70 | 21.17 | 17.32 | 174.46 | 968.06 | -74.82 | 1,909.05 | 1,874.16 | 34.89 | 54.717 | | |
| 4,200.00 | 4,082.18 | 3,760.96 | 3,697.65 | 21.70 | 17.75 | 174.46 | 985.73 | -77.09 | 1,953.18 | 1,917.44 | 35.74 | 54.650 | | |
| 4,300.00 | 4,178.82 | 3,850.69 | 3,785.59 | 22.24 | 18.17 | 174.46 | 1,003.40 | -79.35 | 1,997.32 | 1,960.73 | 36.59 | 54.585 | | |
| 4,400.00 | 4,275.46 | 3,940.43 | 3,873.54 | 22.77 | 18.60 | 174.45 | 1,021.08 | -81.61 | 2,041.46 | 2,004.01 | 37.44 | 54.521 | | |
| 4,500.00 | 4,372.09 | 4,030.16 | 3,961.48 | 23.31 | 19.03 | 174.45 | 1,038.75 | -83.88 | 2,085.60 | 2,047.30 | 38.30 | 54.460 | | |
| 4,600.00 | 4,468.73 | 4,119.89 | 4,049.43 | 23.84 | 19.46 | 174.45 | 1,056.42 | -86.14 | 2,129.73 | 2,090.58 | 39.15 | 54.399 | | |
| 4,700.00 | 4,565.37 | 4,209.62 | 4,137.37 | 24.38 | 19.88 | 174.45 | 1,074.09 | -88.41 | 2,173.87 | 2,133.87 | 40.00 | 54.340 | | |
| 4,800.00 | 4,662.01 | 4,300.65 | 4,225.32 | 24.91 | 20.32 | 174.44 | 1,091.77 | -90.67 | 2,218.01 | 2,177.14 | 40.87 | 54.275 | | |
| 4,900.00 | 4,758.64 | 4,389.09 | 4,313.26 | 25.45 | 20.74 | 174.44 | 1,109.44 | -92.94 | 2,262.15 | 2,220.43 | 41.72 | 54.227 | | |
| 5,000.00 | 4,855.28 | 4,478.82 | 4,401.21 | 25.99 | 21.17 | 174.44 | 1,127.11 | -95.20 | 2,306.28 | 2,263.71 | 42.57 | 54.173 | | |
| 5,100.00 | 4,951.92 | 4,568.55 | 4,489.16 | 26.53 | 21.60 | 174.44 | 1,144.79 | -97.47 | 2,350.42 | 2,306.99 | 43.43 | 54.120 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 30N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,658.28 | 4,577.10 | 27.06 | 22.03 | 174.44 | 1,162.46 | -99.73 | 2,394.56 | 2,350.27 | 44.29 | 54.068 | | |
| 5,300.00 | 5,145.19 | 4,748.02 | 4,665.05 | 27.60 | 22.45 | 174.43 | 1,180.13 | -102.00 | 2,438.70 | 2,393.55 | 45.15 | 54.018 | | |
| 5,400.00 | 5,241.83 | 4,837.75 | 4,752.99 | 28.14 | 22.88 | 174.43 | 1,197.80 | -104.26 | 2,482.83 | 2,436.83 | 46.01 | 53.969 | | |
| 5,500.00 | 5,338.47 | 4,927.48 | 4,840.94 | 28.67 | 23.31 | 174.43 | 1,215.48 | -106.53 | 2,526.97 | 2,480.11 | 46.86 | 53.921 | | |
| 5,600.00 | 5,435.11 | 5,017.21 | 4,928.88 | 29.21 | 23.74 | 174.43 | 1,233.15 | -108.79 | 2,571.11 | 2,523.38 | 47.72 | 53.874 | | |
| 5,700.00 | 5,531.74 | 5,106.94 | 5,016.83 | 29.75 | 24.17 | 174.43 | 1,250.82 | -111.06 | 2,615.25 | 2,566.66 | 48.59 | 53.828 | | |
| 5,800.00 | 5,628.38 | 5,203.32 | 5,104.77 | 30.29 | 24.64 | 174.43 | 1,268.49 | -113.32 | 2,659.38 | 2,609.91 | 49.48 | 53.750 | | |
| 5,900.00 | 5,725.02 | 5,286.41 | 5,192.72 | 30.83 | 25.03 | 174.42 | 1,286.17 | -115.58 | 2,703.52 | 2,653.21 | 50.31 | 53.740 | | |
| 6,000.00 | 5,821.66 | 5,376.14 | 5,280.67 | 31.37 | 25.46 | 174.42 | 1,303.84 | -117.85 | 2,747.66 | 2,696.49 | 51.17 | 53.697 | | |
| 6,100.00 | 5,918.29 | 5,465.87 | 5,368.61 | 31.90 | 25.90 | 174.42 | 1,321.51 | -120.11 | 2,791.80 | 2,739.76 | 52.03 | 53.656 | | |
| 6,200.00 | 6,014.93 | 5,555.61 | 5,456.56 | 32.44 | 26.33 | 174.42 | 1,339.18 | -122.38 | 2,835.93 | 2,783.04 | 52.89 | 53.615 | | |
| 6,300.00 | 6,111.57 | 5,645.34 | 5,544.50 | 32.98 | 26.76 | 174.42 | 1,356.86 | -124.64 | 2,880.07 | 2,826.31 | 53.76 | 53.575 | | |
| 6,400.00 | 6,208.21 | 5,735.07 | 5,632.45 | 33.52 | 27.19 | 174.42 | 1,374.53 | -126.91 | 2,924.21 | 2,869.59 | 54.62 | 53.536 | | |
| 6,500.00 | 6,304.84 | 5,824.80 | 5,720.39 | 34.06 | 27.62 | 174.42 | 1,392.20 | -129.17 | 2,968.35 | 2,912.86 | 55.49 | 53.498 | | |
| 6,600.00 | 6,401.37 | 5,914.48 | 5,808.29 | 34.60 | 28.05 | 155.43 | 1,409.86 | -131.44 | 3,012.46 | 2,956.11 | 56.35 | 53.461 | | |
| 6,700.00 | 6,496.25 | 6,002.97 | 5,895.01 | 35.12 | 28.47 | 128.92 | 1,427.29 | -133.67 | 3,056.03 | 2,998.83 | 57.20 | 53.429 | | |
| 6,800.00 | 6,587.15 | 6,088.12 | 5,978.47 | 35.59 | 28.88 | 112.97 | 1,444.06 | -135.82 | 3,098.25 | 3,040.25 | 58.00 | 53.414 | | |
| 6,900.00 | 6,671.83 | 6,167.84 | 6,056.60 | 36.03 | 29.27 | 102.83 | 1,459.76 | -137.83 | 3,138.50 | 3,079.74 | 58.76 | 53.416 | | |
| 7,000.00 | 6,748.21 | 6,240.17 | 6,127.49 | 36.41 | 29.62 | 95.86 | 1,474.01 | -139.66 | 3,176.36 | 3,116.90 | 59.46 | 53.419 | | |
| 7,100.00 | 6,814.41 | 6,303.33 | 6,189.39 | 36.76 | 29.92 | 90.76 | 1,486.45 | -141.25 | 3,211.56 | 3,151.42 | 60.14 | 53.398 | | |
| 7,200.00 | 6,868.79 | 6,355.76 | 6,240.78 | 37.07 | 30.17 | 86.88 | 1,496.77 | -142.57 | 3,243.91 | 3,183.06 | 60.84 | 53.317 | | |
| 7,300.00 | 6,910.01 | 6,403.83 | 6,280.38 | 37.39 | 30.40 | 83.82 | 1,504.73 | -143.59 | 3,273.24 | 3,211.61 | 61.63 | 53.113 | | |
| 7,400.00 | 6,937.07 | 6,423.56 | 6,307.23 | 37.76 | 30.50 | 81.37 | 1,510.13 | -144.28 | 3,299.38 | 3,236.97 | 62.42 | 52.861 | | |
| 7,500.00 | 6,949.29 | 6,437.27 | 6,320.66 | 38.27 | 30.56 | 79.41 | 1,512.83 | -144.63 | 3,322.10 | 3,258.78 | 63.32 | 52.468 | | |
| 7,600.00 | 6,949.75 | 6,440.08 | 6,323.42 | 39.02 | 30.58 | 78.89 | 1,513.38 | -144.70 | 3,342.60 | 3,278.30 | 64.30 | 51.987 | | |
| 7,700.00 | 6,949.37 | 7,753.72 | 7,069.47 | 40.05 | 39.83 | 92.05 | 1,657.67 | -974.19 | 3,354.18 | 3,276.02 | 78.17 | 42.911 | | |
| 7,800.00 | 6,948.99 | 7,853.72 | 7,069.19 | 41.35 | 41.39 | 92.05 | 1,656.91 | -1,074.19 | 3,354.03 | 3,272.77 | 81.27 | 41.272 | | |
| 7,900.00 | 6,948.61 | 7,953.72 | 7,068.90 | 42.86 | 43.08 | 92.06 | 1,656.16 | -1,174.18 | 3,353.88 | 3,269.24 | 84.64 | 39.625 | | |
| 8,000.00 | 6,948.23 | 8,053.72 | 7,068.62 | 44.53 | 44.89 | 92.06 | 1,655.41 | -1,274.18 | 3,353.73 | 3,265.48 | 88.25 | 38.001 | | |
| 8,100.00 | 6,947.85 | 8,153.72 | 7,068.33 | 46.34 | 46.81 | 92.06 | 1,654.66 | -1,374.18 | 3,353.58 | 3,261.50 | 92.08 | 36.420 | | |
| 8,200.00 | 6,947.47 | 8,253.72 | 7,068.05 | 48.26 | 48.82 | 92.06 | 1,653.90 | -1,474.17 | 3,353.43 | 3,257.33 | 96.10 | 34.897 | | |
| 8,300.00 | 6,947.09 | 8,353.72 | 7,067.76 | 50.28 | 50.92 | 92.06 | 1,653.15 | -1,574.17 | 3,353.28 | 3,253.00 | 100.28 | 33.440 | | |
| 8,400.00 | 6,946.72 | 8,453.72 | 7,067.48 | 52.39 | 53.08 | 92.06 | 1,652.40 | -1,674.17 | 3,353.13 | 3,248.53 | 104.60 | 32.056 | | |
| 8,500.00 | 6,946.34 | 8,553.72 | 7,067.19 | 54.56 | 55.31 | 92.07 | 1,651.65 | -1,774.16 | 3,352.98 | 3,243.93 | 109.05 | 30.746 | | |
| 8,600.00 | 6,945.96 | 8,653.72 | 7,066.91 | 56.80 | 57.60 | 92.07 | 1,650.89 | -1,874.16 | 3,352.83 | 3,239.21 | 113.62 | 29.509 | | |
| 8,700.00 | 6,945.58 | 8,753.72 | 7,066.62 | 59.10 | 59.93 | 92.07 | 1,650.14 | -1,974.16 | 3,352.68 | 3,234.39 | 118.29 | 28.344 | | |
| 8,800.00 | 6,945.20 | 8,853.72 | 7,066.34 | 61.44 | 62.31 | 92.07 | 1,649.39 | -2,074.15 | 3,352.53 | 3,229.49 | 123.04 | 27.248 | | |
| 8,900.00 | 6,944.82 | 8,953.72 | 7,066.05 | 63.83 | 64.72 | 92.07 | 1,648.64 | -2,174.15 | 3,352.38 | 3,224.51 | 127.87 | 26.217 | | |
| 9,000.00 | 6,944.44 | 9,053.72 | 7,065.77 | 66.25 | 67.17 | 92.07 | 1,647.88 | -2,274.15 | 3,352.23 | 3,219.45 | 132.77 | 25.248 | | |
| 9,100.00 | 6,944.06 | 9,153.72 | 7,065.48 | 68.71 | 69.66 | 92.08 | 1,647.13 | -2,374.14 | 3,352.08 | 3,214.34 | 137.74 | 24.336 | | |
| 9,200.00 | 6,943.68 | 9,253.72 | 7,065.20 | 71.20 | 72.17 | 92.08 | 1,646.38 | -2,474.14 | 3,351.93 | 3,209.17 | 142.76 | 23.479 | | |
| 9,300.00 | 6,943.30 | 9,353.72 | 7,064.91 | 73.72 | 74.70 | 92.08 | 1,645.63 | -2,574.14 | 3,351.78 | 3,203.95 | 147.83 | 22.673 | | |
| 9,400.00 | 6,942.92 | 9,453.72 | 7,064.63 | 76.26 | 77.26 | 92.08 | 1,644.87 | -2,674.13 | 3,351.63 | 3,198.68 | 152.95 | 21.914 | | |
| 9,500.00 | 6,942.54 | 9,553.72 | 7,064.35 | 78.82 | 79.84 | 92.08 | 1,644.12 | -2,774.13 | 3,351.48 | 3,193.37 | 158.11 | 21.198 | | |
| 9,600.00 | 6,942.16 | 9,653.72 | 7,064.06 | 81.40 | 82.44 | 92.08 | 1,643.37 | -2,874.13 | 3,351.33 | 3,188.03 | 163.30 | 20.523 | | |
| 9,700.00 | 6,941.78 | 9,753.72 | 7,063.78 | 84.00 | 85.05 | 92.09 | 1,642.62 | -2,974.12 | 3,351.18 | 3,182.65 | 168.53 | 19.885 | | |
| 9,800.00 | 6,941.40 | 9,853.72 | 7,063.49 | 86.62 | 87.68 | 92.09 | 1,641.86 | -3,074.12 | 3,351.03 | 3,177.24 | 173.79 | 19.282 | | |
| 9,900.00 | 6,941.03 | 9,953.72 | 7,063.21 | 89.25 | 90.32 | 92.09 | 1,641.11 | -3,174.12 | 3,350.88 | 3,171.80 | 179.07 | 18.712 | | |
| 10,000.00 | 6,940.65 | 10,053.72 | 7,062.92 | 91.90 | 92.98 | 92.09 | 1,640.36 | -3,274.11 | 3,350.73 | 3,166.34 | 184.38 | 18.172 | | |
| 10,100.00 | 6,940.27 | 10,153.72 | 7,062.64 | 94.56 | 95.65 | 92.09 | 1,639.61 | -3,374.11 | 3,350.58 | 3,160.86 | 189.72 | 17.661 | | |
| 10,200.00 | 6,939.89 | 10,253.72 | 7,062.35 | 97.23 | 98.32 | 92.10 | 1,638.85 | -3,474.11 | 3,350.43 | 3,155.35 | 195.08 | 17.175 | | |
| 10,300.00 | 6,939.51 | 10,353.71 | 7,062.07 | 99.91 | 101.01 | 92.10 | 1,638.10 | -3,574.10 | 3,350.28 | 3,149.82 | 200.45 | 16.714 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 30N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,453.71 | 7,061.78 | 102.60 | 103.71 | 92.10 | 1,637.35 | -3,674.10 | 3,350.13 | 3,144.28 | 205.85 | 16.275 | | |
| 10,500.00 | 6,938.75 | 10,553.71 | 7,061.50 | 105.30 | 106.42 | 92.10 | 1,636.60 | -3,774.10 | 3,349.98 | 3,138.72 | 211.26 | 15.857 | | |
| 10,600.00 | 6,938.37 | 10,653.71 | 7,061.21 | 108.00 | 109.13 | 92.10 | 1,635.84 | -3,874.09 | 3,349.82 | 3,133.14 | 216.68 | 15.459 | | |
| 10,700.00 | 6,937.99 | 10,753.71 | 7,060.93 | 110.72 | 111.85 | 92.10 | 1,635.09 | -3,974.09 | 3,349.67 | 3,127.55 | 222.13 | 15.080 | | |
| 10,800.00 | 6,937.61 | 10,853.71 | 7,060.64 | 113.44 | 114.58 | 92.11 | 1,634.34 | -4,074.09 | 3,349.52 | 3,121.94 | 227.58 | 14.718 | | |
| 10,900.00 | 6,937.23 | 10,953.71 | 7,060.36 | 116.17 | 117.31 | 92.11 | 1,633.59 | -4,174.08 | 3,349.37 | 3,116.33 | 233.05 | 14.372 | | |
| 11,000.00 | 6,936.85 | 11,053.71 | 7,060.07 | 118.90 | 120.05 | 92.11 | 1,632.83 | -4,274.08 | 3,349.22 | 3,110.70 | 238.52 | 14.041 | | |
| 11,100.00 | 6,936.47 | 11,153.71 | 7,059.79 | 121.64 | 122.79 | 92.11 | 1,632.08 | -4,374.08 | 3,349.07 | 3,105.06 | 244.01 | 13.725 | | |
| 11,200.00 | 6,936.09 | 11,253.71 | 7,059.50 | 124.39 | 125.54 | 92.11 | 1,631.33 | -4,474.07 | 3,348.92 | 3,099.41 | 249.51 | 13.422 | | |
| 11,300.00 | 6,935.71 | 11,353.71 | 7,059.22 | 127.14 | 128.30 | 92.11 | 1,630.58 | -4,574.07 | 3,348.77 | 3,093.75 | 255.02 | 13.131 | | |
| 11,400.00 | 6,935.34 | 11,453.71 | 7,058.93 | 129.90 | 131.06 | 92.12 | 1,629.82 | -4,674.07 | 3,348.62 | 3,088.09 | 260.54 | 12.853 | | |
| 11,500.00 | 6,934.96 | 11,553.71 | 7,058.65 | 132.66 | 133.82 | 92.12 | 1,629.07 | -4,774.06 | 3,348.47 | 3,082.41 | 266.06 | 12.585 | | |
| 11,600.00 | 6,934.58 | 11,653.71 | 7,058.37 | 135.42 | 136.59 | 92.12 | 1,628.32 | -4,874.06 | 3,348.32 | 3,076.73 | 271.60 | 12.328 | | |
| 11,700.00 | 6,934.20 | 11,753.71 | 7,058.08 | 138.19 | 139.36 | 92.12 | 1,627.57 | -4,974.06 | 3,348.17 | 3,071.04 | 277.14 | 12.081 | | |
| 11,800.00 | 6,933.82 | 11,853.71 | 7,057.80 | 140.96 | 142.13 | 92.12 | 1,626.81 | -5,074.05 | 3,348.02 | 3,065.34 | 282.68 | 11.844 | | |
| 11,900.00 | 6,933.44 | 11,953.71 | 7,057.51 | 143.74 | 144.91 | 92.12 | 1,626.06 | -5,174.05 | 3,347.87 | 3,059.63 | 288.24 | 11.615 | | |
| 12,000.00 | 6,933.06 | 12,053.71 | 7,057.23 | 146.51 | 147.69 | 92.13 | 1,625.31 | -5,274.05 | 3,347.72 | 3,053.92 | 293.80 | 11.395 | | |
| 12,100.00 | 6,932.68 | 12,153.71 | 7,056.94 | 149.30 | 150.48 | 92.13 | 1,624.56 | -5,374.04 | 3,347.57 | 3,048.21 | 299.36 | 11.182 | | |
| 12,200.00 | 6,932.30 | 12,253.71 | 7,056.66 | 152.08 | 153.26 | 92.13 | 1,623.81 | -5,474.04 | 3,347.42 | 3,042.49 | 304.93 | 10.978 | | |
| 12,300.00 | 6,931.92 | 12,353.71 | 7,056.37 | 154.87 | 156.05 | 92.13 | 1,623.05 | -5,574.04 | 3,347.27 | 3,036.76 | 310.51 | 10.780 | | |
| 12,400.00 | 6,931.54 | 12,453.71 | 7,056.09 | 157.66 | 158.84 | 92.13 | 1,622.30 | -5,674.03 | 3,347.12 | 3,031.03 | 316.09 | 10.589 | | |
| 12,500.00 | 6,931.16 | 12,553.71 | 7,055.80 | 160.45 | 161.64 | 92.13 | 1,621.55 | -5,774.03 | 3,346.97 | 3,025.29 | 321.68 | 10.405 | | |
| 12,600.00 | 6,930.78 | 12,653.71 | 7,055.52 | 163.24 | 164.43 | 92.14 | 1,620.80 | -5,874.03 | 3,346.82 | 3,019.55 | 327.27 | 10.227 | | |
| 12,700.00 | 6,930.40 | 12,753.71 | 7,055.23 | 166.04 | 167.23 | 92.14 | 1,620.04 | -5,974.02 | 3,346.67 | 3,013.81 | 332.86 | 10.054 | | |
| 12,800.00 | 6,930.03 | 12,853.71 | 7,054.95 | 168.84 | 170.03 | 92.14 | 1,619.29 | -6,074.02 | 3,346.52 | 3,008.06 | 338.46 | 9.888 | | |
| 12,900.00 | 6,929.65 | 12,953.71 | 7,054.66 | 171.64 | 172.83 | 92.14 | 1,618.54 | -6,174.01 | 3,346.37 | 3,002.31 | 344.06 | 9.726 | | |
| 13,000.00 | 6,929.27 | 13,053.71 | 7,054.38 | 174.44 | 175.64 | 92.14 | 1,617.79 | -6,274.01 | 3,346.22 | 2,996.55 | 349.67 | 9.570 | | |
| 13,100.00 | 6,928.89 | 13,153.71 | 7,054.09 | 177.24 | 178.44 | 92.14 | 1,617.03 | -6,374.01 | 3,346.07 | 2,990.79 | 355.28 | 9.418 | | |
| 13,200.00 | 6,928.51 | 13,253.71 | 7,053.81 | 180.05 | 181.25 | 92.15 | 1,616.28 | -6,474.00 | 3,345.92 | 2,985.03 | 360.89 | 9.271 | | |
| 13,300.00 | 6,928.13 | 13,353.71 | 7,053.52 | 182.86 | 184.06 | 92.15 | 1,615.53 | -6,574.00 | 3,345.77 | 2,979.27 | 366.50 | 9.129 | | |
| 13,400.00 | 6,927.75 | 13,453.71 | 7,053.24 | 185.67 | 186.87 | 92.15 | 1,614.78 | -6,674.00 | 3,345.62 | 2,973.50 | 372.12 | 8.991 | | |
| 13,500.00 | 6,927.37 | 13,553.71 | 7,052.95 | 188.48 | 189.68 | 92.15 | 1,614.02 | -6,773.99 | 3,345.47 | 2,967.73 | 377.74 | 8.856 | | |
| 13,600.00 | 6,926.99 | 13,653.71 | 7,052.67 | 191.29 | 192.49 | 92.15 | 1,613.27 | -6,873.99 | 3,345.32 | 2,961.95 | 383.37 | 8.726 | | |
| 13,700.00 | 6,926.61 | 13,753.71 | 7,052.39 | 194.10 | 195.31 | 92.16 | 1,612.52 | -6,973.99 | 3,345.17 | 2,956.18 | 388.99 | 8.600 | | |
| 13,800.00 | 6,926.23 | 13,853.71 | 7,052.10 | 196.92 | 198.12 | 92.16 | 1,611.77 | -7,073.98 | 3,345.02 | 2,950.40 | 394.62 | 8.477 | | |
| 13,900.00 | 6,925.85 | 13,953.71 | 7,051.82 | 199.73 | 200.94 | 92.16 | 1,611.01 | -7,173.98 | 3,344.87 | 2,944.62 | 400.25 | 8.357 | | |
| 14,000.00 | 6,925.47 | 14,053.71 | 7,051.53 | 202.55 | 203.76 | 92.16 | 1,610.26 | -7,273.98 | 3,344.72 | 2,938.83 | 405.88 | 8.241 | | |
| 14,100.00 | 6,925.09 | 14,153.71 | 7,051.25 | 205.37 | 206.58 | 92.16 | 1,609.51 | -7,373.97 | 3,344.57 | 2,933.05 | 411.52 | 8.127 | | |
| 14,200.00 | 6,924.71 | 14,253.71 | 7,050.96 | 208.19 | 209.40 | 92.16 | 1,608.76 | -7,473.97 | 3,344.42 | 2,927.26 | 417.16 | 8.017 | | |
| 14,300.00 | 6,924.34 | 14,353.71 | 7,050.68 | 211.01 | 212.22 | 92.17 | 1,608.00 | -7,573.97 | 3,344.27 | 2,921.47 | 422.80 | 7.910 | | |
| 14,400.00 | 6,923.96 | 14,453.71 | 7,050.39 | 213.83 | 215.04 | 92.17 | 1,607.25 | -7,673.96 | 3,344.12 | 2,915.68 | 428.44 | 7.805 | | |
| 14,500.00 | 6,923.58 | 14,553.71 | 7,050.11 | 216.65 | 217.86 | 92.17 | 1,606.50 | -7,773.96 | 3,343.97 | 2,909.89 | 434.08 | 7.704 | | |
| 14,600.00 | 6,923.20 | 14,653.71 | 7,049.82 | 219.48 | 220.69 | 92.17 | 1,605.75 | -7,873.96 | 3,343.82 | 2,904.09 | 439.73 | 7.604 | | |
| 14,700.00 | 6,922.82 | 14,753.71 | 7,049.54 | 222.30 | 223.51 | 92.17 | 1,604.99 | -7,973.95 | 3,343.67 | 2,898.29 | 445.37 | 7.508 | | |
| 14,800.00 | 6,922.44 | 14,853.71 | 7,049.25 | 225.13 | 226.34 | 92.17 | 1,604.24 | -8,073.95 | 3,343.52 | 2,892.50 | 451.02 | 7.413 | | |
| 14,892.90 | 6,922.09 | 14,946.61 | 7,048.99 | 227.75 | 228.96 | 92.18 | 1,603.54 | -8,166.85 | 3,343.38 | 2,887.11 | 456.27 | 7.328 | | |
| 14,900.00 | 6,922.06 | 14,942.37 | 7,049.00 | 227.95 | 228.85 | 92.18 | 1,603.57 | -8,162.61 | 3,343.39 | 2,887.04 | 456.35 | 7.326 | | |
| 14,915.55 | 6,922.00 | 14,942.37 | 7,049.00 | 228.39 | 228.85 | 92.18 | 1,603.57 | -8,162.61 | 3,343.45 | 2,886.68 | 456.78 | 7.320 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 31C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.46 | 280.15 | 2.23 | 280.16 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.46 | 280.15 | 2.23 | 280.16 | 273.59 | 6.57 | 42.645 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.46 | 280.15 | 2.23 | 280.16 | 273.48 | 6.67 | 41.972 CC, ES | | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.10 | 280.15 | 2.23 | 281.90 | 275.01 | 6.89 | 40.936 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.18 | 280.15 | 2.23 | 287.11 | 279.92 | 7.20 | 39.893 | | |
| 500.00 | 499.45 | 500.45 | 499.45 | 3.79 | 3.81 | 175.31 | 280.15 | 2.23 | 295.80 | 288.20 | 7.60 | 38.923 | | |
| 600.00 | 598.70 | 599.70 | 598.70 | 4.03 | 4.05 | 175.48 | 280.15 | 2.23 | 307.95 | 299.87 | 8.08 | 38.112 | | |
| 700.00 | 697.47 | 698.23 | 688.21 | 4.31 | 4.29 | 175.55 | 281.43 | 1.68 | 324.94 | 316.34 | 8.61 | 37.760 | | |
| 800.00 | 795.62 | 777.07 | 775.95 | 4.64 | 4.55 | 175.45 | 285.19 | 0.10 | 348.12 | 338.95 | 9.18 | 37.929 | | |
| 900.00 | 893.06 | 871.78 | 870.46 | 5.00 | 4.84 | 175.27 | 290.89 | -2.31 | 376.34 | 366.53 | 9.80 | 38.386 | | |
| 1,000.00 | 989.78 | 966.83 | 965.31 | 5.39 | 5.16 | 175.17 | 296.63 | -4.74 | 407.39 | 396.92 | 10.47 | 38.922 | | |
| 1,100.00 | 1,086.42 | 1,061.77 | 1,060.05 | 5.81 | 5.49 | 175.11 | 302.37 | -7.16 | 438.78 | 427.63 | 11.15 | 39.365 | | |
| 1,200.00 | 1,183.06 | 1,156.72 | 1,154.79 | 6.25 | 5.83 | 175.06 | 308.11 | -9.58 | 470.17 | 458.32 | 11.86 | 39.659 | | |
| 1,300.00 | 1,279.69 | 1,251.66 | 1,249.53 | 6.71 | 6.18 | 175.01 | 313.84 | -12.01 | 501.56 | 488.98 | 12.59 | 39.847 | | |
| 1,400.00 | 1,376.33 | 1,346.61 | 1,344.27 | 7.17 | 6.54 | 174.97 | 319.58 | -14.43 | 532.95 | 519.62 | 13.34 | 39.957 | | |
| 1,500.00 | 1,472.97 | 1,441.55 | 1,439.01 | 7.65 | 6.90 | 174.94 | 325.31 | -16.85 | 564.35 | 550.24 | 14.11 | 40.008 | | |
| 1,600.00 | 1,569.61 | 1,536.50 | 1,533.75 | 8.13 | 7.27 | 174.90 | 331.05 | -19.27 | 595.74 | 580.85 | 14.89 | 40.018 | | |
| 1,700.00 | 1,666.24 | 1,631.44 | 1,628.49 | 8.62 | 7.65 | 174.88 | 336.78 | -21.70 | 627.13 | 611.45 | 15.68 | 39.996 | | |
| 1,800.00 | 1,762.88 | 1,726.39 | 1,723.23 | 9.12 | 8.03 | 174.85 | 342.52 | -24.12 | 658.52 | 642.04 | 16.48 | 39.953 | | |
| 1,900.00 | 1,859.52 | 1,821.33 | 1,817.97 | 9.62 | 8.41 | 174.82 | 348.25 | -26.54 | 689.91 | 672.62 | 17.29 | 39.893 | | |
| 2,000.00 | 1,956.16 | 1,916.27 | 1,912.71 | 10.13 | 8.80 | 174.80 | 353.99 | -28.96 | 721.31 | 703.19 | 18.11 | 39.823 | | |
| 2,100.00 | 2,052.79 | 2,011.22 | 2,007.45 | 10.64 | 9.19 | 174.78 | 359.73 | -31.39 | 752.70 | 733.76 | 18.94 | 39.745 | | |
| 2,200.00 | 2,149.43 | 2,106.16 | 2,102.19 | 11.15 | 9.59 | 174.76 | 365.46 | -33.81 | 784.09 | 764.32 | 19.77 | 39.662 | | |
| 2,300.00 | 2,246.07 | 2,201.11 | 2,196.93 | 11.66 | 9.98 | 174.75 | 371.20 | -36.23 | 815.48 | 794.88 | 20.61 | 39.577 | | |
| 2,400.00 | 2,342.71 | 2,303.95 | 2,291.67 | 12.18 | 10.41 | 174.73 | 376.93 | -38.65 | 846.88 | 825.40 | 21.48 | 39.429 | | |
| 2,500.00 | 2,439.34 | 2,409.00 | 2,386.41 | 12.70 | 10.85 | 174.72 | 382.67 | -41.08 | 878.27 | 855.90 | 22.37 | 39.269 | | |
| 2,600.00 | 2,535.98 | 2,485.94 | 2,481.15 | 13.22 | 11.18 | 174.70 | 388.40 | -43.50 | 909.66 | 886.52 | 23.14 | 39.316 | | |
| 2,700.00 | 2,632.62 | 2,580.89 | 2,575.89 | 13.75 | 11.58 | 174.69 | 394.14 | -45.92 | 941.05 | 917.07 | 23.99 | 39.230 | | |
| 2,800.00 | 2,729.26 | 2,675.83 | 2,670.63 | 14.27 | 11.98 | 174.68 | 399.87 | -48.35 | 972.45 | 947.61 | 24.84 | 39.146 | | |
| 2,900.00 | 2,825.89 | 2,770.77 | 2,765.37 | 14.80 | 12.39 | 174.67 | 405.61 | -50.77 | 1,003.84 | 978.14 | 25.70 | 39.063 | | |
| 3,000.00 | 2,922.53 | 2,865.72 | 2,860.11 | 15.32 | 12.79 | 174.66 | 411.34 | -53.19 | 1,035.23 | 1,008.68 | 26.56 | 38.983 | | |
| 3,100.00 | 3,019.17 | 2,960.66 | 2,954.85 | 15.85 | 13.20 | 174.65 | 417.08 | -55.61 | 1,066.63 | 1,039.21 | 27.42 | 38.904 | | |
| 3,200.00 | 3,115.81 | 3,055.61 | 3,049.59 | 16.38 | 13.61 | 174.64 | 422.82 | -58.04 | 1,098.02 | 1,069.74 | 28.28 | 38.828 | | |
| 3,300.00 | 3,212.44 | 3,150.55 | 3,144.33 | 16.91 | 14.02 | 174.63 | 428.55 | -60.46 | 1,129.41 | 1,100.27 | 29.14 | 38.755 | | |
| 3,400.00 | 3,309.08 | 3,245.50 | 3,239.07 | 17.44 | 14.42 | 174.62 | 434.29 | -62.88 | 1,160.80 | 1,130.80 | 30.01 | 38.683 | | |
| 3,500.00 | 3,405.72 | 3,340.44 | 3,333.81 | 17.97 | 14.83 | 174.61 | 440.02 | -65.30 | 1,192.20 | 1,161.32 | 30.88 | 38.614 | | |
| 3,600.00 | 3,502.36 | 3,435.39 | 3,428.55 | 18.50 | 15.24 | 174.60 | 445.76 | -67.73 | 1,223.59 | 1,191.85 | 31.74 | 38.546 | | |
| 3,700.00 | 3,598.99 | 3,530.33 | 3,523.29 | 19.03 | 15.65 | 174.60 | 451.49 | -70.15 | 1,254.98 | 1,222.37 | 32.61 | 38.481 | | |
| 3,800.00 | 3,695.63 | 3,625.27 | 3,618.03 | 19.57 | 16.07 | 174.59 | 457.23 | -72.57 | 1,286.38 | 1,252.89 | 33.48 | 38.418 | | |
| 3,900.00 | 3,792.27 | 3,720.22 | 3,712.77 | 20.10 | 16.48 | 174.58 | 462.96 | -74.99 | 1,317.77 | 1,283.41 | 34.35 | 38.357 | | |
| 4,000.00 | 3,888.91 | 3,815.16 | 3,807.51 | 20.63 | 16.89 | 174.58 | 468.70 | -77.42 | 1,349.16 | 1,313.94 | 35.23 | 38.299 | | |
| 4,100.00 | 3,985.54 | 3,910.11 | 3,902.25 | 21.17 | 17.30 | 174.57 | 474.44 | -79.84 | 1,380.56 | 1,344.45 | 36.10 | 38.241 | | |
| 4,200.00 | 4,082.18 | 4,005.05 | 3,996.99 | 21.70 | 17.71 | 174.57 | 480.17 | -82.26 | 1,411.95 | 1,374.97 | 36.98 | 38.186 | | |
| 4,300.00 | 4,178.82 | 4,100.00 | 4,091.73 | 22.24 | 18.13 | 174.56 | 485.91 | -84.69 | 1,443.34 | 1,405.49 | 37.85 | 38.133 | | |
| 4,400.00 | 4,275.46 | 4,194.94 | 4,186.47 | 22.77 | 18.54 | 174.56 | 491.64 | -87.11 | 1,474.74 | 1,436.01 | 38.73 | 38.081 | | |
| 4,500.00 | 4,372.09 | 4,289.89 | 4,281.21 | 23.31 | 18.95 | 174.55 | 497.38 | -89.53 | 1,506.13 | 1,466.53 | 39.60 | 38.031 | | |
| 4,600.00 | 4,468.73 | 4,384.83 | 4,375.95 | 23.84 | 19.37 | 174.55 | 503.11 | -91.95 | 1,537.52 | 1,497.04 | 40.48 | 37.982 | | |
| 4,700.00 | 4,565.37 | 4,479.78 | 4,470.69 | 24.38 | 19.78 | 174.54 | 508.85 | -94.38 | 1,568.91 | 1,527.56 | 41.36 | 37.935 | | |
| 4,800.00 | 4,662.01 | 4,574.72 | 4,565.43 | 24.91 | 20.20 | 174.54 | 514.58 | -96.80 | 1,600.31 | 1,558.07 | 42.24 | 37.890 | | |
| 4,900.00 | 4,758.64 | 4,669.66 | 4,660.17 | 25.45 | 20.61 | 174.53 | 520.32 | -99.22 | 1,631.70 | 1,588.59 | 43.11 | 37.846 | | |
| 5,000.00 | 4,855.28 | 4,764.61 | 4,754.91 | 25.99 | 21.03 | 174.53 | 526.06 | -101.64 | 1,663.09 | 1,619.10 | 43.99 | 37.803 | | |
| 5,100.00 | 4,951.92 | 4,859.55 | 4,849.65 | 26.53 | 21.44 | 174.53 | 531.79 | -104.07 | 1,694.49 | 1,649.61 | 44.87 | 37.761 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 31C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,954.50 | 4,944.39 | 27.06 | 21.86 | 174.52 | 537.53 | -106.49 | 1,725.88 | 1,680.13 | 45.75 | 37.721 | | |
| 5,300.00 | 5,145.19 | 5,049.44 | 5,039.13 | 27.60 | 22.27 | 174.52 | 543.26 | -108.91 | 1,757.27 | 1,710.64 | 46.64 | 37.681 | | |
| 5,400.00 | 5,241.83 | 5,144.39 | 5,133.87 | 28.14 | 22.69 | 174.51 | 549.00 | -111.33 | 1,788.67 | 1,741.15 | 47.52 | 37.643 | | |
| 5,500.00 | 5,338.47 | 5,239.33 | 5,228.61 | 28.67 | 23.11 | 174.51 | 554.73 | -113.76 | 1,820.06 | 1,771.66 | 48.40 | 37.606 | | |
| 5,600.00 | 5,435.11 | 5,334.28 | 5,323.35 | 29.21 | 23.52 | 174.51 | 560.47 | -116.18 | 1,851.45 | 1,802.17 | 49.28 | 37.570 | | |
| 5,700.00 | 5,531.74 | 5,429.22 | 5,418.10 | 29.75 | 23.94 | 174.51 | 566.20 | -118.60 | 1,882.85 | 1,832.68 | 50.16 | 37.535 | | |
| 5,800.00 | 5,628.38 | 5,524.16 | 5,512.84 | 30.29 | 24.35 | 174.50 | 571.94 | -121.03 | 1,914.24 | 1,863.19 | 51.04 | 37.501 | | |
| 5,900.00 | 5,725.02 | 5,619.11 | 5,607.58 | 30.83 | 24.77 | 174.50 | 577.68 | -123.45 | 1,945.63 | 1,893.70 | 51.93 | 37.468 | | |
| 6,000.00 | 5,821.66 | 5,714.05 | 5,702.32 | 31.37 | 25.19 | 174.50 | 583.41 | -125.87 | 1,977.03 | 1,924.21 | 52.81 | 37.436 | | |
| 6,100.00 | 5,918.29 | 5,809.00 | 5,797.06 | 31.90 | 25.60 | 174.49 | 589.15 | -128.29 | 2,008.42 | 1,954.72 | 53.70 | 37.404 | | |
| 6,200.00 | 6,014.93 | 5,903.94 | 5,891.80 | 32.44 | 26.02 | 174.49 | 594.88 | -130.72 | 2,039.81 | 1,985.23 | 54.58 | 37.373 | | |
| 6,300.00 | 6,111.57 | 6,001.11 | 5,986.54 | 32.98 | 26.45 | 174.49 | 600.62 | -133.14 | 2,071.21 | 2,015.73 | 55.47 | 37.337 | | |
| 6,400.00 | 6,208.21 | 6,106.17 | 6,081.28 | 33.52 | 26.91 | 174.49 | 606.35 | -135.56 | 2,102.60 | 2,046.20 | 56.40 | 37.279 | | |
| 6,500.00 | 6,304.84 | 6,188.78 | 6,176.02 | 34.06 | 27.27 | 174.48 | 612.09 | -137.98 | 2,133.99 | 2,076.76 | 57.23 | 37.286 | | |
| 6,600.00 | 6,401.37 | 6,283.66 | 6,270.70 | 34.60 | 27.69 | 156.28 | 617.82 | -140.41 | 2,165.37 | 2,107.25 | 58.12 | 37.258 | | |
| 6,700.00 | 6,496.25 | 6,377.29 | 6,364.12 | 35.12 | 28.10 | 131.28 | 623.48 | -142.79 | 2,196.42 | 2,137.43 | 58.99 | 37.236 | | |
| 6,800.00 | 6,587.15 | 6,467.38 | 6,454.02 | 35.59 | 28.50 | 116.82 | 628.92 | -145.09 | 2,226.71 | 2,166.89 | 59.81 | 37.227 | | |
| 6,900.00 | 6,671.83 | 6,551.73 | 6,538.19 | 36.03 | 28.87 | 108.09 | 634.01 | -147.25 | 2,256.10 | 2,195.51 | 60.59 | 37.236 | | |
| 7,000.00 | 6,748.21 | 6,628.25 | 6,614.55 | 36.41 | 29.21 | 102.36 | 638.64 | -149.20 | 2,284.65 | 2,223.33 | 61.32 | 37.257 | | |
| 7,100.00 | 6,814.41 | 6,719.68 | 6,705.51 | 36.76 | 29.61 | 98.69 | 644.17 | -155.70 | 2,312.32 | 2,250.07 | 62.25 | 37.147 | | |
| 7,200.00 | 6,868.79 | 6,835.88 | 6,818.25 | 37.07 | 30.12 | 96.54 | 651.13 | -182.31 | 2,338.19 | 2,274.71 | 63.48 | 36.834 | | |
| 7,300.00 | 6,910.01 | 6,984.37 | 6,952.07 | 37.39 | 30.79 | 95.67 | 659.59 | -245.32 | 2,361.28 | 2,296.22 | 65.06 | 36.295 | | |
| 7,400.00 | 6,937.07 | 7,186.56 | 7,103.82 | 37.76 | 31.82 | 95.98 | 669.53 | -377.27 | 2,379.96 | 2,312.81 | 67.16 | 35.439 | | |
| 7,500.00 | 6,949.29 | 7,500.00 | 7,222.62 | 38.27 | 34.31 | 96.80 | 677.99 | -595.77 | 2,391.43 | 2,320.67 | 70.76 | 33.795 | | |
| 7,600.00 | 6,949.75 | 7,680.68 | 7,251.82 | 39.02 | 36.48 | 97.25 | 681.17 | -836.27 | 2,394.00 | 2,319.80 | 74.20 | 32.264 | | |
| 7,700.00 | 6,949.37 | 7,780.68 | 7,251.46 | 40.05 | 37.88 | 97.24 | 681.73 | -936.26 | 2,395.16 | 2,318.22 | 76.94 | 31.129 | | |
| 7,800.00 | 6,948.99 | 7,880.67 | 7,251.09 | 41.35 | 39.44 | 97.24 | 682.30 | -1,036.26 | 2,396.32 | 2,316.33 | 79.99 | 29.958 | | |
| 7,900.00 | 6,948.61 | 7,980.66 | 7,250.72 | 42.86 | 41.13 | 97.24 | 682.87 | -1,136.25 | 2,397.48 | 2,314.16 | 83.31 | 28.776 | | |
| 8,000.00 | 6,948.23 | 8,080.66 | 7,250.36 | 44.53 | 42.95 | 97.23 | 683.44 | -1,236.24 | 2,398.64 | 2,311.75 | 86.88 | 27.608 | | |
| 8,100.00 | 6,947.85 | 8,180.65 | 7,249.99 | 46.34 | 44.88 | 97.23 | 684.00 | -1,336.23 | 2,399.79 | 2,309.13 | 90.67 | 26.468 | | |
| 8,200.00 | 6,947.47 | 8,280.64 | 7,249.62 | 48.26 | 46.91 | 97.23 | 684.57 | -1,436.22 | 2,400.95 | 2,306.31 | 94.64 | 25.369 | | |
| 8,300.00 | 6,947.09 | 8,380.64 | 7,249.26 | 50.28 | 49.01 | 97.22 | 685.14 | -1,536.21 | 2,402.11 | 2,303.33 | 98.78 | 24.317 | | |
| 8,400.00 | 6,946.72 | 8,480.63 | 7,248.89 | 52.39 | 51.19 | 97.22 | 685.70 | -1,636.20 | 2,403.27 | 2,300.20 | 103.07 | 23.317 | | |
| 8,500.00 | 6,946.34 | 8,580.62 | 7,248.53 | 54.56 | 53.44 | 97.22 | 686.27 | -1,736.19 | 2,404.43 | 2,296.94 | 107.49 | 22.370 | | |
| 8,600.00 | 6,945.96 | 8,680.62 | 7,248.16 | 56.80 | 55.74 | 97.21 | 686.84 | -1,836.18 | 2,405.58 | 2,293.57 | 112.02 | 21.475 | | |
| 8,700.00 | 6,945.58 | 8,780.61 | 7,247.79 | 59.10 | 58.09 | 97.21 | 687.40 | -1,936.17 | 2,406.74 | 2,290.09 | 116.65 | 20.633 | | |
| 8,800.00 | 6,945.20 | 8,880.60 | 7,247.43 | 61.44 | 60.49 | 97.21 | 687.97 | -2,036.16 | 2,407.90 | 2,286.53 | 121.37 | 19.840 | | |
| 8,900.00 | 6,944.82 | 8,980.60 | 7,247.06 | 63.83 | 62.92 | 97.21 | 688.54 | -2,136.16 | 2,409.06 | 2,282.89 | 126.17 | 19.094 | | |
| 9,000.00 | 6,944.44 | 9,080.59 | 7,246.69 | 66.25 | 65.39 | 97.20 | 689.10 | -2,236.15 | 2,410.21 | 2,279.18 | 131.04 | 18.394 | | |
| 9,100.00 | 6,944.06 | 9,180.58 | 7,246.33 | 68.71 | 67.89 | 97.20 | 689.67 | -2,336.14 | 2,411.37 | 2,275.40 | 135.97 | 17.735 | | |
| 9,200.00 | 6,943.68 | 9,280.57 | 7,245.96 | 71.20 | 70.42 | 97.20 | 690.24 | -2,436.13 | 2,412.53 | 2,271.57 | 140.96 | 17.115 | | |
| 9,300.00 | 6,943.30 | 9,380.57 | 7,245.60 | 73.72 | 72.97 | 97.19 | 690.80 | -2,536.12 | 2,413.69 | 2,267.69 | 146.00 | 16.532 | | |
| 9,400.00 | 6,942.92 | 9,480.56 | 7,245.23 | 76.26 | 75.55 | 97.19 | 691.37 | -2,636.11 | 2,414.85 | 2,263.77 | 151.08 | 15.984 | | |
| 9,500.00 | 6,942.54 | 9,580.55 | 7,244.86 | 78.82 | 78.14 | 97.19 | 691.94 | -2,736.10 | 2,416.00 | 2,259.80 | 156.21 | 15.467 | | |
| 9,600.00 | 6,942.16 | 9,680.55 | 7,244.50 | 81.40 | 80.76 | 97.18 | 692.50 | -2,836.09 | 2,417.16 | 2,255.79 | 161.37 | 14.979 | | |
| 9,700.00 | 6,941.78 | 9,780.54 | 7,244.13 | 84.00 | 83.39 | 97.18 | 693.07 | -2,936.08 | 2,418.32 | 2,251.75 | 166.57 | 14.519 | | |
| 9,800.00 | 6,941.40 | 9,880.53 | 7,243.77 | 86.62 | 86.03 | 97.18 | 693.64 | -3,036.07 | 2,419.48 | 2,247.68 | 171.79 | 14.084 | | |
| 9,900.00 | 6,941.03 | 9,980.53 | 7,243.40 | 89.25 | 88.69 | 97.17 | 694.20 | -3,136.06 | 2,420.64 | 2,243.59 | 177.05 | 13.672 | | |
| 10,000.00 | 6,940.65 | 10,080.52 | 7,243.03 | 91.90 | 91.36 | 97.17 | 694.77 | -3,236.06 | 2,421.79 | 2,239.46 | 182.33 | 13.282 | | |
| 10,100.00 | 6,940.27 | 10,180.51 | 7,242.67 | 94.56 | 94.04 | 97.17 | 695.34 | -3,336.05 | 2,422.95 | 2,235.32 | 187.63 | 12.913 | | |
| 10,200.00 | 6,939.89 | 10,280.51 | 7,242.30 | 97.23 | 96.73 | 97.16 | 695.91 | -3,436.04 | 2,424.11 | 2,231.15 | 192.96 | 12.563 | | |
| 10,300.00 | 6,939.51 | 10,380.50 | 7,241.93 | 99.91 | 99.43 | 97.16 | 696.47 | -3,536.03 | 2,425.27 | 2,226.96 | 198.31 | 12.230 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 31C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,480.49 | 7,241.57 | 102.60 | 102.14 | 97.16 | 697.04 | -3,636.02 | 2,426.43 | 2,222.76 | 203.67 | 11.914 | | |
| 10,500.00 | 6,938.75 | 10,580.49 | 7,241.20 | 105.30 | 104.86 | 97.16 | 697.61 | -3,736.01 | 2,427.58 | 2,218.54 | 209.05 | 11.612 | | |
| 10,600.00 | 6,938.37 | 10,680.48 | 7,240.84 | 108.00 | 107.59 | 97.15 | 698.17 | -3,836.00 | 2,428.74 | 2,214.30 | 214.45 | 11.326 | | |
| 10,700.00 | 6,937.99 | 10,780.47 | 7,240.47 | 110.72 | 110.32 | 97.15 | 698.74 | -3,935.99 | 2,429.90 | 2,210.05 | 219.86 | 11.052 | | |
| 10,800.00 | 6,937.61 | 10,880.47 | 7,240.10 | 113.44 | 113.06 | 97.15 | 699.31 | -4,035.98 | 2,431.06 | 2,205.78 | 225.28 | 10.791 | | |
| 10,900.00 | 6,937.23 | 10,980.46 | 7,239.74 | 116.17 | 115.80 | 97.14 | 699.87 | -4,135.97 | 2,432.22 | 2,201.50 | 230.72 | 10.542 | | |
| 11,000.00 | 6,936.85 | 11,080.45 | 7,239.37 | 118.90 | 118.55 | 97.14 | 700.44 | -4,235.97 | 2,433.38 | 2,197.21 | 236.16 | 10.304 | | |
| 11,100.00 | 6,936.47 | 11,180.45 | 7,239.01 | 121.64 | 121.31 | 97.14 | 701.01 | -4,335.96 | 2,434.53 | 2,192.91 | 241.62 | 10.076 | | |
| 11,200.00 | 6,936.09 | 11,280.44 | 7,238.64 | 124.39 | 124.07 | 97.13 | 701.57 | -4,435.95 | 2,435.69 | 2,188.60 | 247.09 | 9.857 | | |
| 11,300.00 | 6,935.71 | 11,380.43 | 7,238.27 | 127.14 | 126.84 | 97.13 | 702.14 | -4,535.94 | 2,436.85 | 2,184.28 | 252.57 | 9.648 | | |
| 11,400.00 | 6,935.34 | 11,480.43 | 7,237.91 | 129.90 | 129.60 | 97.13 | 702.71 | -4,635.93 | 2,438.01 | 2,179.95 | 258.06 | 9.448 | | |
| 11,500.00 | 6,934.96 | 11,580.42 | 7,237.54 | 132.66 | 132.38 | 97.12 | 703.27 | -4,735.92 | 2,439.17 | 2,175.62 | 263.55 | 9.255 | | |
| 11,600.00 | 6,934.58 | 11,680.41 | 7,237.17 | 135.42 | 135.15 | 97.12 | 703.84 | -4,835.91 | 2,440.32 | 2,171.27 | 269.05 | 9.070 | | |
| 11,700.00 | 6,934.20 | 11,780.40 | 7,236.81 | 138.19 | 137.93 | 97.12 | 704.41 | -4,935.90 | 2,441.48 | 2,166.92 | 274.56 | 8.892 | | |
| 11,800.00 | 6,933.82 | 11,880.40 | 7,236.44 | 140.96 | 140.72 | 97.11 | 704.97 | -5,035.89 | 2,442.64 | 2,162.56 | 280.08 | 8.721 | | |
| 11,900.00 | 6,933.44 | 11,980.39 | 7,236.08 | 143.74 | 143.51 | 97.11 | 705.54 | -5,135.88 | 2,443.80 | 2,158.19 | 285.60 | 8.557 | | |
| 12,000.00 | 6,933.06 | 12,080.38 | 7,235.71 | 146.51 | 146.30 | 97.11 | 706.11 | -5,235.87 | 2,444.96 | 2,153.82 | 291.13 | 8.398 | | |
| 12,100.00 | 6,932.68 | 12,180.38 | 7,235.34 | 149.30 | 149.09 | 97.11 | 706.68 | -5,335.87 | 2,446.11 | 2,149.45 | 296.67 | 8.245 | | |
| 12,200.00 | 6,932.30 | 12,280.37 | 7,234.98 | 152.08 | 151.88 | 97.10 | 707.24 | -5,435.86 | 2,447.27 | 2,145.06 | 302.21 | 8.098 | | |
| 12,300.00 | 6,931.92 | 12,380.36 | 7,234.61 | 154.87 | 154.68 | 97.10 | 707.81 | -5,535.85 | 2,448.43 | 2,140.67 | 307.76 | 7.956 | | |
| 12,400.00 | 6,931.54 | 12,480.36 | 7,234.25 | 157.66 | 157.48 | 97.10 | 708.38 | -5,635.84 | 2,449.59 | 2,136.28 | 313.31 | 7.818 | | |
| 12,500.00 | 6,931.16 | 12,580.35 | 7,233.88 | 160.45 | 160.28 | 97.09 | 708.94 | -5,735.83 | 2,450.75 | 2,131.88 | 318.86 | 7.686 | | |
| 12,600.00 | 6,930.78 | 12,680.34 | 7,233.51 | 163.24 | 163.09 | 97.09 | 709.51 | -5,835.82 | 2,451.91 | 2,127.48 | 324.42 | 7.558 | | |
| 12,700.00 | 6,930.40 | 12,780.34 | 7,233.15 | 166.04 | 165.89 | 97.09 | 710.08 | -5,935.81 | 2,453.06 | 2,123.08 | 329.99 | 7.434 | | |
| 12,800.00 | 6,930.03 | 12,880.33 | 7,232.78 | 168.84 | 168.70 | 97.08 | 710.64 | -6,035.80 | 2,454.22 | 2,118.67 | 335.56 | 7.314 | | |
| 12,900.00 | 6,929.65 | 12,980.32 | 7,232.41 | 171.64 | 171.51 | 97.08 | 711.21 | -6,135.79 | 2,455.38 | 2,114.25 | 341.13 | 7.198 | | |
| 13,000.00 | 6,929.27 | 13,080.32 | 7,232.05 | 174.44 | 174.32 | 97.08 | 711.78 | -6,235.78 | 2,456.54 | 2,109.83 | 346.70 | 7.085 | | |
| 13,100.00 | 6,928.89 | 13,180.31 | 7,231.68 | 177.24 | 177.13 | 97.07 | 712.34 | -6,335.77 | 2,457.70 | 2,105.41 | 352.28 | 6.976 | | |
| 13,200.00 | 6,928.51 | 13,280.30 | 7,231.32 | 180.05 | 179.95 | 97.07 | 712.91 | -6,435.77 | 2,458.85 | 2,100.99 | 357.87 | 6.871 | | |
| 13,300.00 | 6,928.13 | 13,380.30 | 7,230.95 | 182.86 | 182.77 | 97.07 | 713.48 | -6,535.76 | 2,460.01 | 2,096.56 | 363.45 | 6.768 | | |
| 13,400.00 | 6,927.75 | 13,480.29 | 7,230.58 | 185.67 | 185.58 | 97.07 | 714.04 | -6,635.75 | 2,461.17 | 2,092.13 | 369.04 | 6.669 | | |
| 13,500.00 | 6,927.37 | 13,580.28 | 7,230.22 | 188.48 | 188.40 | 97.06 | 714.61 | -6,735.74 | 2,462.33 | 2,087.70 | 374.63 | 6.573 | | |
| 13,600.00 | 6,926.99 | 13,680.28 | 7,229.85 | 191.29 | 191.22 | 97.06 | 715.18 | -6,835.73 | 2,463.49 | 2,083.26 | 380.23 | 6.479 | | |
| 13,700.00 | 6,926.61 | 13,780.27 | 7,229.48 | 194.10 | 194.04 | 97.06 | 715.74 | -6,935.72 | 2,464.65 | 2,078.82 | 385.82 | 6.388 | | |
| 13,800.00 | 6,926.23 | 13,880.26 | 7,229.12 | 196.92 | 196.87 | 97.05 | 716.31 | -7,035.71 | 2,465.80 | 2,074.38 | 391.42 | 6.300 | | |
| 13,900.00 | 6,925.85 | 13,980.26 | 7,228.75 | 199.73 | 199.69 | 97.05 | 716.88 | -7,135.70 | 2,466.96 | 2,069.94 | 397.03 | 6.214 | | |
| 14,000.00 | 6,925.47 | 14,080.25 | 7,228.39 | 202.55 | 202.52 | 97.05 | 717.44 | -7,235.69 | 2,468.12 | 2,065.49 | 402.63 | 6.130 | | |
| 14,100.00 | 6,925.09 | 14,180.24 | 7,228.02 | 205.37 | 205.34 | 97.04 | 718.01 | -7,335.68 | 2,469.28 | 2,061.04 | 408.24 | 6.049 | | |
| 14,200.00 | 6,924.71 | 14,280.24 | 7,227.65 | 208.19 | 208.17 | 97.04 | 718.58 | -7,435.67 | 2,470.44 | 2,056.59 | 413.84 | 5.969 | | |
| 14,300.00 | 6,924.34 | 14,380.23 | 7,227.29 | 211.01 | 211.00 | 97.04 | 719.15 | -7,535.67 | 2,471.60 | 2,052.14 | 419.46 | 5.892 | | |
| 14,400.00 | 6,923.96 | 14,480.22 | 7,226.92 | 213.83 | 213.82 | 97.04 | 719.71 | -7,635.66 | 2,472.75 | 2,047.69 | 425.07 | 5.817 | | |
| 14,500.00 | 6,923.58 | 14,580.21 | 7,226.56 | 216.65 | 216.65 | 97.03 | 720.28 | -7,735.65 | 2,473.91 | 2,043.23 | 430.68 | 5.744 | | |
| 14,600.00 | 6,923.20 | 14,680.21 | 7,226.19 | 219.48 | 219.48 | 97.03 | 720.85 | -7,835.64 | 2,475.07 | 2,038.77 | 436.30 | 5.673 | | |
| 14,700.00 | 6,922.82 | 14,780.20 | 7,225.82 | 222.30 | 222.32 | 97.03 | 721.41 | -7,935.63 | 2,476.23 | 2,034.31 | 441.92 | 5.603 | | |
| 14,800.00 | 6,922.44 | 14,880.19 | 7,225.46 | 225.13 | 225.15 | 97.02 | 721.98 | -8,035.62 | 2,477.39 | 2,029.85 | 447.54 | 5.536 | | |
| 14,900.00 | 6,922.06 | 14,980.19 | 7,225.09 | 227.95 | 227.98 | 97.02 | 722.55 | -8,135.61 | 2,478.55 | 2,025.39 | 453.16 | 5.469 | | |
| 14,915.55 | 6,922.00 | 14,995.74 | 7,225.03 | 228.39 | 228.42 | 97.02 | 722.63 | -8,151.16 | 2,478.73 | 2,024.69 | 454.03 | 5.459 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 33C-16-M - OH - PLAN #1 | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|------------------------------------|---|---------------|-------------------------|--------------------------|----------------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Semi Major Axis Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | -179.19 | -19.68 | -0.28 | 19.68 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 3.28 | 3.28 | -179.19 | -19.68 | -0.28 | 19.68 | 13.11 | 6.57 | 2.995 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 3.34 | 3.34 | -179.19 | -19.68 | -0.28 | 19.68 | 13.00 | 6.67 | 2.949 | |
| 300.00 | 299.98 | 299.32 | 299.30 | 3.44 | 3.44 | -4.63 | -21.39 | -0.42 | 19.67 | 12.78 | 6.89 | 2.855 | |
| 400.00 | 399.84 | 398.64 | 398.48 | 3.59 | 3.59 | -4.80 | -26.54 | -0.85 | 19.64 | 12.42 | 7.21 | 2.723 | |
| 500.00 | 499.45 | 497.96 | 497.42 | 3.79 | 3.79 | -5.09 | -35.10 | -1.56 | 19.59 | 11.95 | 7.64 | 2.564 | |
| 600.00 | 598.70 | 597.29 | 596.01 | 4.03 | 4.03 | -5.50 | -47.09 | -2.56 | 19.51 | 11.36 | 8.15 | 2.395 | |
| 700.00 | 697.47 | 696.61 | 694.13 | 4.31 | 4.30 | -6.02 | -62.47 | -3.84 | 19.42 | 10.69 | 8.73 | 2.224 | |
| 800.00 | 795.62 | 795.94 | 791.66 | 4.64 | 4.62 | -6.67 | -81.23 | -5.40 | 19.32 | 9.94 | 9.37 | 2.061 | |
| 900.00 | 893.06 | 895.28 | 888.48 | 5.00 | 4.98 | -7.45 | -103.35 | -7.24 | 19.19 | 9.13 | 10.06 | 1.907 | |
| 906.92 | 899.76 | 902.15 | 895.14 | 5.03 | 5.01 | -7.50 | -105.00 | -7.37 | 19.19 | 9.08 | 10.11 | 1.897 CC | |
| 1,000.00 | 989.78 | 994.64 | 984.49 | 5.39 | 5.37 | -8.13 | -128.80 | -9.35 | 19.58 | 8.78 | 10.80 | 1.813 ES | |
| 1,100.00 | 1,086.42 | 1,094.62 | 1,080.68 | 5.81 | 5.80 | -8.30 | -155.99 | -11.61 | 21.23 | 9.70 | 11.53 | 1.841 | |
| 1,200.00 | 1,183.06 | 1,205.39 | 1,176.87 | 6.25 | 6.29 | -8.46 | -183.18 | -13.88 | 22.89 | 10.54 | 12.35 | 1.853 | |
| 1,300.00 | 1,279.69 | 1,305.41 | 1,273.06 | 6.71 | 6.75 | -8.59 | -210.37 | -16.14 | 24.54 | 11.39 | 13.16 | 1.866 | |
| 1,400.00 | 1,376.33 | 1,405.42 | 1,369.25 | 7.17 | 7.23 | -8.70 | -237.56 | -18.40 | 26.20 | 12.22 | 13.98 | 1.874 | |
| 1,500.00 | 1,472.97 | 1,505.43 | 1,465.45 | 7.65 | 7.71 | -8.80 | -264.75 | -20.66 | 27.86 | 13.02 | 14.83 | 1.878 | |
| 1,600.00 | 1,569.61 | 1,605.45 | 1,561.64 | 8.13 | 8.21 | -8.89 | -291.94 | -22.92 | 29.51 | 13.81 | 15.70 | 1.880 | |
| 1,700.00 | 1,666.24 | 1,705.46 | 1,657.83 | 8.62 | 8.71 | -8.97 | -319.13 | -25.18 | 31.17 | 14.59 | 16.58 | 1.880 | |
| 1,800.00 | 1,762.88 | 1,805.47 | 1,754.02 | 9.12 | 9.22 | -9.04 | -346.31 | -27.44 | 32.83 | 15.35 | 17.48 | 1.878 | |
| 1,900.00 | 1,859.52 | 1,905.49 | 1,850.21 | 9.62 | 9.73 | -9.11 | -373.50 | -29.70 | 34.48 | 16.10 | 18.38 | 1.876 | |
| 2,000.00 | 1,956.16 | 2,005.50 | 1,946.41 | 10.13 | 10.24 | -9.16 | -400.69 | -31.96 | 36.14 | 16.85 | 19.29 | 1.873 | |
| 2,100.00 | 2,052.79 | 2,094.49 | 2,042.60 | 10.64 | 10.71 | -9.22 | -427.88 | -34.23 | 37.79 | 17.63 | 20.16 | 1.875 | |
| 2,200.00 | 2,149.43 | 2,205.53 | 2,138.79 | 11.15 | 11.29 | -9.27 | -455.07 | -36.49 | 39.45 | 18.31 | 21.14 | 1.866 | |
| 2,300.00 | 2,246.07 | 2,305.54 | 2,234.98 | 11.66 | 11.81 | -9.31 | -482.26 | -38.75 | 41.11 | 19.03 | 22.07 | 1.862 | |
| 2,400.00 | 2,342.71 | 2,405.56 | 2,331.17 | 12.18 | 12.34 | -9.35 | -509.45 | -41.01 | 42.76 | 19.75 | 23.01 | 1.858 | |
| 2,500.00 | 2,439.34 | 2,505.57 | 2,427.37 | 12.70 | 12.87 | -9.39 | -536.64 | -43.27 | 44.42 | 20.47 | 23.95 | 1.854 | |
| 2,600.00 | 2,535.98 | 2,605.58 | 2,523.56 | 13.22 | 13.40 | -9.43 | -563.83 | -45.53 | 46.08 | 21.18 | 24.90 | 1.850 | |
| 2,700.00 | 2,632.62 | 2,705.60 | 2,619.75 | 13.75 | 13.94 | -9.46 | -591.02 | -47.79 | 47.73 | 21.88 | 25.85 | 1.846 | |
| 2,800.00 | 2,729.26 | 2,805.61 | 2,715.94 | 14.27 | 14.47 | -9.49 | -618.21 | -50.05 | 49.39 | 22.59 | 26.81 | 1.843 | |
| 2,900.00 | 2,825.89 | 2,905.62 | 2,812.13 | 14.80 | 15.01 | -9.52 | -645.39 | -52.31 | 51.05 | 23.29 | 27.76 | 1.839 | |
| 3,000.00 | 2,922.53 | 2,994.36 | 2,908.33 | 15.32 | 15.49 | -9.55 | -672.58 | -54.58 | 52.70 | 24.04 | 28.67 | 1.839 | |
| 3,100.00 | 3,019.17 | 3,094.35 | 3,004.52 | 15.85 | 16.03 | -9.58 | -699.77 | -56.84 | 54.36 | 24.73 | 29.63 | 1.835 | |
| 3,200.00 | 3,115.81 | 3,205.67 | 3,100.71 | 16.38 | 16.63 | -9.60 | -726.96 | -59.10 | 56.02 | 25.37 | 30.65 | 1.828 | |
| 3,300.00 | 3,212.44 | 3,305.68 | 3,196.90 | 16.91 | 17.17 | -9.62 | -754.15 | -61.36 | 57.67 | 26.06 | 31.61 | 1.824 | |
| 3,400.00 | 3,309.08 | 3,405.69 | 3,293.09 | 17.44 | 17.71 | -9.64 | -781.34 | -63.62 | 59.33 | 26.75 | 32.58 | 1.821 | |
| 3,500.00 | 3,405.72 | 3,505.71 | 3,389.28 | 17.97 | 18.25 | -9.66 | -808.53 | -65.88 | 60.99 | 27.44 | 33.55 | 1.818 | |
| 3,600.00 | 3,502.36 | 3,605.72 | 3,485.48 | 18.50 | 18.79 | -9.68 | -835.72 | -68.14 | 62.64 | 28.13 | 34.52 | 1.815 | |
| 3,700.00 | 3,598.99 | 3,705.73 | 3,581.67 | 19.03 | 19.34 | -9.70 | -862.91 | -70.40 | 64.30 | 28.81 | 35.49 | 1.812 | |
| 3,800.00 | 3,695.63 | 3,805.75 | 3,677.86 | 19.57 | 19.88 | -9.72 | -890.10 | -72.66 | 65.96 | 29.49 | 36.46 | 1.809 | |
| 3,900.00 | 3,792.27 | 3,905.76 | 3,774.05 | 20.10 | 20.42 | -9.73 | -917.29 | -74.93 | 67.61 | 30.18 | 37.44 | 1.806 | |
| 4,000.00 | 3,888.91 | 3,994.22 | 3,870.24 | 20.63 | 20.91 | -9.75 | -944.48 | -77.19 | 69.27 | 30.92 | 38.35 | 1.806 | |
| 4,100.00 | 3,985.54 | 4,094.21 | 3,966.44 | 21.17 | 21.45 | -9.77 | -971.66 | -79.45 | 70.93 | 31.60 | 39.33 | 1.803 | |
| 4,200.00 | 4,082.18 | 4,194.20 | 4,062.63 | 21.70 | 22.00 | -9.78 | -998.85 | -81.71 | 72.58 | 32.28 | 40.31 | 1.801 | |
| 4,300.00 | 4,178.82 | 4,305.82 | 4,158.82 | 22.24 | 22.61 | -9.79 | -1,026.04 | -83.97 | 74.24 | 32.90 | 41.34 | 1.796 | |
| 4,400.00 | 4,275.46 | 4,405.83 | 4,255.01 | 22.77 | 23.15 | -9.81 | -1,053.23 | -86.23 | 75.90 | 33.58 | 42.32 | 1.793 | |
| 4,500.00 | 4,372.09 | 4,505.84 | 4,351.20 | 23.31 | 23.70 | -9.82 | -1,080.42 | -88.49 | 77.55 | 34.25 | 43.30 | 1.791 | |
| 4,600.00 | 4,468.73 | 4,605.86 | 4,447.40 | 23.84 | 24.25 | -9.83 | -1,107.61 | -90.75 | 79.21 | 34.93 | 44.28 | 1.789 | |
| 4,700.00 | 4,565.37 | 4,705.87 | 4,543.59 | 24.38 | 24.79 | -9.84 | -1,134.80 | -93.01 | 80.87 | 35.61 | 45.26 | 1.787 | |
| 4,800.00 | 4,662.01 | 4,805.89 | 4,639.78 | 24.91 | 25.34 | -9.85 | -1,161.99 | -95.28 | 82.52 | 36.28 | 46.24 | 1.785 | |
| 4,900.00 | 4,758.64 | 4,905.90 | 4,735.97 | 25.45 | 25.89 | -9.86 | -1,189.18 | -97.54 | 84.18 | 36.96 | 47.22 | 1.783 | |
| 5,000.00 | 4,855.28 | 4,994.09 | 4,832.16 | 25.99 | 26.37 | -9.87 | -1,216.37 | -99.80 | 85.84 | 37.69 | 48.15 | 1.783 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 33C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: 0.00 ft | |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|-----------|-----------------|------------------|--------------------|-------------------|----------------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: 3.28 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | | |
| 5,100.00 | 4,951.92 | 5,105.93 | 4,928.36 | 26.53 | 26.99 | -9.88 | -1,243.56 | -102.06 | 87.49 | 38.30 | 49.19 | 1.779 | | |
| 5,200.00 | 5,048.56 | 5,205.94 | 5,024.55 | 27.06 | 27.53 | -9.89 | -1,270.74 | -104.32 | 89.15 | 38.98 | 50.17 | 1.777 | | |
| 5,300.00 | 5,145.19 | 5,294.05 | 5,120.74 | 27.60 | 28.02 | -9.90 | -1,297.93 | -106.58 | 90.81 | 39.71 | 51.10 | 1.777 | | |
| 5,400.00 | 5,241.83 | 5,405.97 | 5,216.93 | 28.14 | 28.63 | -9.91 | -1,325.12 | -108.84 | 92.46 | 40.32 | 52.14 | 1.773 | | |
| 5,500.00 | 5,338.47 | 5,505.98 | 5,313.12 | 28.67 | 29.18 | -9.92 | -1,352.31 | -111.10 | 94.12 | 41.00 | 53.12 | 1.772 | | |
| 5,600.00 | 5,435.11 | 5,606.00 | 5,409.32 | 29.21 | 29.73 | -9.93 | -1,379.50 | -113.36 | 95.78 | 41.67 | 54.11 | 1.770 | | |
| 5,700.00 | 5,531.74 | 5,706.01 | 5,505.51 | 29.75 | 30.28 | -9.94 | -1,406.69 | -115.63 | 97.43 | 42.34 | 55.09 | 1.768 | | |
| 5,800.00 | 5,628.38 | 5,806.02 | 5,601.70 | 30.29 | 30.83 | -9.94 | -1,433.88 | -117.89 | 99.09 | 43.01 | 56.08 | 1.767 | | |
| 5,900.00 | 5,725.02 | 5,906.04 | 5,697.89 | 30.83 | 31.38 | -9.95 | -1,461.07 | -120.15 | 100.75 | 43.68 | 57.07 | 1.765 | | |
| 6,000.00 | 5,821.66 | 6,006.05 | 5,794.08 | 31.37 | 31.93 | -9.96 | -1,488.26 | -122.41 | 102.40 | 44.35 | 58.05 | 1.764 | | |
| 6,100.00 | 5,918.29 | 6,106.06 | 5,890.28 | 31.90 | 32.48 | -9.96 | -1,515.45 | -124.67 | 104.06 | 45.02 | 59.04 | 1.763 | | |
| 6,200.00 | 6,014.93 | 6,206.08 | 5,986.47 | 32.44 | 33.03 | -9.97 | -1,542.64 | -126.93 | 105.72 | 45.69 | 60.03 | 1.761 | | |
| 6,300.00 | 6,111.57 | 6,306.09 | 6,082.66 | 32.98 | 33.58 | -9.98 | -1,569.82 | -129.19 | 107.37 | 46.36 | 61.01 | 1.760 | | |
| 6,400.00 | 6,208.21 | 6,406.11 | 6,178.85 | 33.52 | 34.13 | -9.98 | -1,597.01 | -131.45 | 109.03 | 47.03 | 62.00 | 1.759 | | |
| 6,500.00 | 6,304.84 | 6,493.88 | 6,275.04 | 34.06 | 34.61 | -9.99 | -1,624.20 | -133.71 | 110.69 | 47.76 | 62.93 | 1.759 | | |
| 6,600.00 | 6,401.37 | 6,606.20 | 6,371.18 | 34.60 | 35.23 | -27.71 | -1,651.37 | -135.97 | 112.53 | 48.51 | 64.02 | 1.758 | | |
| 6,700.00 | 6,496.25 | 6,707.63 | 6,466.00 | 35.12 | 35.79 | -57.56 | -1,678.18 | -138.20 | 116.80 | 51.34 | 65.46 | 1.784 | | |
| 6,800.00 | 6,587.15 | 6,787.19 | 6,557.22 | 35.59 | 36.22 | -81.92 | -1,703.96 | -140.35 | 129.17 | 61.64 | 67.52 | 1.913 | | |
| 6,900.00 | 6,671.83 | 6,875.93 | 6,642.59 | 36.03 | 36.71 | -101.11 | -1,728.09 | -142.35 | 156.47 | 86.42 | 70.05 | 2.234 | | |
| 7,000.00 | 6,748.21 | 6,980.29 | 6,742.49 | 36.41 | 37.28 | -116.71 | -1,756.38 | -151.80 | 197.29 | 125.43 | 71.86 | 2.745 | | |
| 7,100.00 | 6,814.41 | 7,100.50 | 6,853.86 | 36.76 | 37.89 | -127.46 | -1,788.08 | -183.40 | 241.73 | 170.59 | 71.14 | 3.398 | | |
| 7,200.00 | 6,868.79 | 7,239.48 | 6,972.74 | 37.07 | 38.50 | -134.90 | -1,822.13 | -246.22 | 285.11 | 218.16 | 66.95 | 4.258 | | |
| 7,300.00 | 6,910.01 | 7,402.29 | 7,091.33 | 37.39 | 39.11 | -140.03 | -1,856.42 | -351.70 | 323.17 | 264.77 | 58.39 | 5.534 | | |
| 7,400.00 | 6,937.07 | 7,591.63 | 7,191.59 | 37.76 | 39.68 | -143.27 | -1,885.93 | -508.74 | 351.32 | 305.85 | 45.47 | 7.726 | | |
| 7,500.00 | 6,949.29 | 7,802.62 | 7,245.64 | 38.27 | 40.38 | -144.72 | -1,902.72 | -710.99 | 365.08 | 332.32 | 32.76 | 11.145 | | |
| 7,600.00 | 6,949.75 | 7,940.94 | 7,248.60 | 39.02 | 41.15 | -144.79 | -1,904.59 | -849.18 | 365.78 | 333.76 | 32.03 | 11.421 | | |
| 7,700.00 | 6,949.37 | 8,040.94 | 7,248.00 | 40.05 | 42.02 | -144.77 | -1,905.17 | -949.18 | 365.60 | 331.54 | 34.06 | 10.734 | | |
| 7,800.00 | 6,948.99 | 8,140.94 | 7,247.40 | 41.35 | 43.18 | -144.75 | -1,905.76 | -1,049.17 | 365.41 | 329.06 | 36.35 | 10.052 | | |
| 7,900.00 | 6,948.61 | 8,240.94 | 7,246.81 | 42.86 | 44.56 | -144.73 | -1,906.34 | -1,149.17 | 365.23 | 326.37 | 38.86 | 9.399 | | |
| 8,000.00 | 6,948.23 | 8,340.94 | 7,246.21 | 44.53 | 46.14 | -144.72 | -1,906.93 | -1,249.16 | 365.04 | 323.50 | 41.54 | 8.788 | | |
| 8,100.00 | 6,947.85 | 8,440.94 | 7,245.62 | 46.34 | 47.86 | -144.70 | -1,907.51 | -1,349.16 | 364.86 | 320.49 | 44.37 | 8.224 | | |
| 8,200.00 | 6,947.47 | 8,540.93 | 7,245.02 | 48.26 | 49.71 | -144.68 | -1,908.09 | -1,449.16 | 364.67 | 317.36 | 47.31 | 7.708 | | |
| 8,300.00 | 6,947.09 | 8,640.93 | 7,244.43 | 50.28 | 51.66 | -144.66 | -1,908.68 | -1,549.15 | 364.49 | 314.13 | 50.36 | 7.238 | | |
| 8,400.00 | 6,946.72 | 8,740.93 | 7,243.83 | 52.39 | 53.70 | -144.65 | -1,909.26 | -1,649.15 | 364.30 | 310.82 | 53.48 | 6.811 | | |
| 8,500.00 | 6,946.34 | 8,840.93 | 7,243.23 | 54.56 | 55.82 | -144.63 | -1,909.85 | -1,749.15 | 364.11 | 307.43 | 56.68 | 6.424 | | |
| 8,600.00 | 6,945.96 | 8,940.93 | 7,242.64 | 56.80 | 58.01 | -144.61 | -1,910.43 | -1,849.14 | 363.93 | 303.99 | 59.94 | 6.072 | | |
| 8,700.00 | 6,945.58 | 9,040.93 | 7,242.04 | 59.10 | 60.25 | -144.59 | -1,911.01 | -1,949.14 | 363.74 | 300.50 | 63.24 | 5.752 | | |
| 8,800.00 | 6,945.20 | 9,140.93 | 7,241.45 | 61.44 | 62.55 | -144.57 | -1,911.60 | -2,049.13 | 363.56 | 296.97 | 66.59 | 5.460 | | |
| 8,900.00 | 6,944.82 | 9,240.93 | 7,240.85 | 63.83 | 64.89 | -144.56 | -1,912.18 | -2,149.13 | 363.37 | 293.40 | 69.97 | 5.193 | | |
| 9,000.00 | 6,944.44 | 9,340.93 | 7,240.25 | 66.25 | 67.28 | -144.54 | -1,912.76 | -2,249.13 | 363.19 | 289.80 | 73.39 | 4.949 | | |
| 9,100.00 | 6,944.06 | 9,440.93 | 7,239.66 | 68.71 | 69.70 | -144.52 | -1,913.35 | -2,349.12 | 363.00 | 286.17 | 76.84 | 4.724 | | |
| 9,200.00 | 6,943.68 | 9,540.93 | 7,239.06 | 71.20 | 72.15 | -144.50 | -1,913.93 | -2,449.12 | 362.82 | 282.51 | 80.31 | 4.518 | | |
| 9,300.00 | 6,943.30 | 9,640.93 | 7,238.47 | 73.72 | 74.64 | -144.48 | -1,914.52 | -2,549.12 | 362.63 | 278.83 | 83.80 | 4.327 | | |
| 9,400.00 | 6,942.92 | 9,740.93 | 7,237.87 | 76.26 | 77.15 | -144.47 | -1,915.10 | -2,649.11 | 362.45 | 275.13 | 87.32 | 4.151 | | |
| 9,500.00 | 6,942.54 | 9,840.93 | 7,237.28 | 78.82 | 79.68 | -144.45 | -1,915.68 | -2,749.11 | 362.26 | 271.42 | 90.85 | 3.988 | | |
| 9,600.00 | 6,942.16 | 9,940.93 | 7,236.68 | 81.40 | 82.24 | -144.43 | -1,916.27 | -2,849.10 | 362.08 | 267.69 | 94.39 | 3.836 | | |
| 9,700.00 | 6,941.78 | 10,040.93 | 7,236.08 | 84.00 | 84.81 | -144.41 | -1,916.85 | -2,949.10 | 361.90 | 263.94 | 97.96 | 3.694 | | |
| 9,800.00 | 6,941.40 | 10,140.93 | 7,235.49 | 86.62 | 87.41 | -144.39 | -1,917.43 | -3,049.10 | 361.71 | 260.18 | 101.53 | 3.563 | | |
| 9,900.00 | 6,941.03 | 10,240.93 | 7,234.89 | 89.25 | 90.02 | -144.38 | -1,918.02 | -3,149.09 | 361.53 | 256.41 | 105.12 | 3.439 | | |
| 10,000.00 | 6,940.65 | 10,340.93 | 7,234.30 | 91.90 | 92.64 | -144.36 | -1,918.60 | -3,249.09 | 361.34 | 252.62 | 108.72 | 3.324 | | |
| 10,100.00 | 6,940.27 | 10,440.93 | 7,233.70 | 94.56 | 95.28 | -144.34 | -1,919.19 | -3,349.09 | 361.16 | 248.83 | 112.33 | 3.215 | | |
| 10,200.00 | 6,939.89 | 10,540.93 | 7,233.10 | 97.23 | 97.93 | -144.32 | -1,919.77 | -3,449.08 | 360.97 | 245.02 | 115.95 | 3.113 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 33C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 10,640.93 | 7,232.51 | 99.91 | 100.59 | -144.30 | -1,920.35 | -3,549.08 | 360.79 | 241.21 | 119.58 | 3.017 | | |
| 10,400.00 | 6,939.13 | 10,740.93 | 7,231.91 | 102.60 | 103.26 | -144.29 | -1,920.94 | -3,649.08 | 360.60 | 237.39 | 123.21 | 2.927 | | |
| 10,500.00 | 6,938.75 | 10,840.93 | 7,231.32 | 105.30 | 105.95 | -144.27 | -1,921.52 | -3,749.07 | 360.42 | 233.56 | 126.86 | 2.841 | | |
| 10,600.00 | 6,938.37 | 10,940.93 | 7,230.72 | 108.00 | 108.64 | -144.25 | -1,922.10 | -3,849.07 | 360.23 | 229.72 | 130.51 | 2.760 | | |
| 10,700.00 | 6,937.99 | 11,040.93 | 7,230.12 | 110.72 | 111.34 | -144.23 | -1,922.69 | -3,949.06 | 360.05 | 225.88 | 134.17 | 2.684 | | |
| 10,800.00 | 6,937.61 | 11,140.93 | 7,229.53 | 113.44 | 114.04 | -144.21 | -1,923.27 | -4,049.06 | 359.87 | 222.03 | 137.83 | 2.611 | | |
| 10,900.00 | 6,937.23 | 11,240.93 | 7,228.93 | 116.17 | 116.76 | -144.19 | -1,923.86 | -4,149.06 | 359.68 | 218.17 | 141.51 | 2.542 | | |
| 11,000.00 | 6,936.85 | 11,340.93 | 7,228.34 | 118.90 | 119.48 | -144.18 | -1,924.44 | -4,249.05 | 359.50 | 214.31 | 145.19 | 2.476 | | |
| 11,100.00 | 6,936.47 | 11,440.93 | 7,227.74 | 121.64 | 122.21 | -144.16 | -1,925.02 | -4,349.05 | 359.31 | 210.44 | 148.87 | 2.414 | | |
| 11,200.00 | 6,936.09 | 11,540.93 | 7,227.15 | 124.39 | 124.94 | -144.14 | -1,925.61 | -4,449.05 | 359.13 | 206.57 | 152.56 | 2.354 | | |
| 11,300.00 | 6,935.71 | 11,640.93 | 7,226.55 | 127.14 | 127.68 | -144.12 | -1,926.19 | -4,549.04 | 358.94 | 202.69 | 156.26 | 2.297 | | |
| 11,400.00 | 6,935.34 | 11,740.93 | 7,225.95 | 129.90 | 130.43 | -144.10 | -1,926.77 | -4,649.04 | 358.76 | 198.80 | 159.96 | 2.243 | | |
| 11,500.00 | 6,934.96 | 11,840.93 | 7,225.36 | 132.66 | 133.18 | -144.09 | -1,927.36 | -4,749.03 | 358.58 | 194.91 | 163.66 | 2.191 | | |
| 11,600.00 | 6,934.58 | 11,940.93 | 7,224.76 | 135.42 | 135.93 | -144.07 | -1,927.94 | -4,849.03 | 358.39 | 191.02 | 167.37 | 2.141 | | |
| 11,700.00 | 6,934.20 | 12,040.93 | 7,224.17 | 138.19 | 138.69 | -144.05 | -1,928.53 | -4,949.03 | 358.21 | 187.12 | 171.09 | 2.094 | | |
| 11,800.00 | 6,933.82 | 12,140.93 | 7,223.57 | 140.96 | 141.45 | -144.03 | -1,929.11 | -5,049.02 | 358.02 | 183.22 | 174.81 | 2.048 | | |
| 11,900.00 | 6,933.44 | 12,240.93 | 7,222.97 | 143.74 | 144.22 | -144.01 | -1,929.69 | -5,149.02 | 357.84 | 179.31 | 178.53 | 2.004 | | |
| 12,000.00 | 6,933.06 | 12,340.93 | 7,222.38 | 146.51 | 146.99 | -143.99 | -1,930.28 | -5,249.02 | 357.66 | 175.40 | 182.26 | 1.962 | | |
| 12,100.00 | 6,932.68 | 12,440.93 | 7,221.78 | 149.30 | 149.76 | -143.97 | -1,930.86 | -5,349.01 | 357.47 | 171.48 | 185.99 | 1.922 | | |
| 12,200.00 | 6,932.30 | 12,540.93 | 7,221.19 | 152.08 | 152.54 | -143.96 | -1,931.45 | -5,449.01 | 357.29 | 167.56 | 189.73 | 1.883 | | |
| 12,300.00 | 6,931.92 | 12,640.93 | 7,220.59 | 154.87 | 155.31 | -143.94 | -1,932.03 | -5,549.00 | 357.10 | 163.63 | 193.47 | 1.846 | | |
| 12,400.00 | 6,931.54 | 12,740.93 | 7,220.00 | 157.66 | 158.10 | -143.92 | -1,932.61 | -5,649.00 | 356.92 | 159.71 | 197.21 | 1.810 | | |
| 12,500.00 | 6,931.16 | 12,840.92 | 7,219.40 | 160.45 | 160.88 | -143.90 | -1,933.20 | -5,749.00 | 356.74 | 155.77 | 200.96 | 1.775 | | |
| 12,600.00 | 6,930.78 | 12,940.92 | 7,218.80 | 163.24 | 163.67 | -143.88 | -1,933.78 | -5,848.99 | 356.55 | 151.84 | 204.71 | 1.742 | | |
| 12,700.00 | 6,930.40 | 13,040.92 | 7,218.21 | 166.04 | 166.46 | -143.86 | -1,934.36 | -5,948.99 | 356.37 | 147.90 | 208.47 | 1.709 | | |
| 12,800.00 | 6,930.03 | 13,140.92 | 7,217.61 | 168.84 | 169.25 | -143.84 | -1,934.95 | -6,048.99 | 356.19 | 143.96 | 212.23 | 1.678 | | |
| 12,900.00 | 6,929.65 | 13,240.92 | 7,217.02 | 171.64 | 172.04 | -143.83 | -1,935.53 | -6,148.98 | 356.00 | 140.01 | 215.99 | 1.648 | | |
| 13,000.00 | 6,929.27 | 13,340.92 | 7,216.42 | 174.44 | 174.84 | -143.81 | -1,936.12 | -6,248.98 | 355.82 | 136.06 | 219.76 | 1.619 | | |
| 13,100.00 | 6,928.89 | 13,440.92 | 7,215.82 | 177.24 | 177.64 | -143.79 | -1,936.70 | -6,348.97 | 355.64 | 132.10 | 223.53 | 1.591 | | |
| 13,200.00 | 6,928.51 | 13,540.92 | 7,215.23 | 180.05 | 180.44 | -143.77 | -1,937.28 | -6,448.97 | 355.45 | 128.15 | 227.30 | 1.564 | | |
| 13,300.00 | 6,928.13 | 13,640.92 | 7,214.63 | 182.86 | 183.24 | -143.75 | -1,937.87 | -6,548.97 | 355.27 | 124.19 | 231.08 | 1.537 | | |
| 13,400.00 | 6,927.75 | 13,740.92 | 7,214.04 | 185.67 | 186.04 | -143.73 | -1,938.45 | -6,648.96 | 355.09 | 120.22 | 234.86 | 1.512 | | |
| 13,500.00 | 6,927.37 | 13,840.92 | 7,213.44 | 188.48 | 188.85 | -143.71 | -1,939.03 | -6,748.96 | 354.90 | 116.26 | 238.65 | 1.487 Level 3 | | |
| 13,600.00 | 6,926.99 | 13,940.92 | 7,212.84 | 191.29 | 191.66 | -143.70 | -1,939.62 | -6,848.96 | 354.72 | 112.29 | 242.43 | 1.463 Level 3 | | |
| 13,700.00 | 6,926.61 | 14,040.92 | 7,212.25 | 194.10 | 194.47 | -143.68 | -1,940.20 | -6,948.95 | 354.54 | 108.31 | 246.22 | 1.440 Level 3 | | |
| 13,800.00 | 6,926.23 | 14,140.92 | 7,211.65 | 196.92 | 197.28 | -143.66 | -1,940.79 | -7,048.95 | 354.35 | 104.34 | 250.02 | 1.417 Level 3 | | |
| 13,900.00 | 6,925.85 | 14,240.92 | 7,211.06 | 199.73 | 200.09 | -143.64 | -1,941.37 | -7,148.95 | 354.17 | 100.36 | 253.81 | 1.395 Level 3 | | |
| 14,000.00 | 6,925.47 | 14,340.92 | 7,210.46 | 202.55 | 202.90 | -143.62 | -1,941.95 | -7,248.94 | 353.99 | 96.37 | 257.61 | 1.374 Level 3 | | |
| 14,100.00 | 6,925.09 | 14,440.92 | 7,209.87 | 205.37 | 205.71 | -143.60 | -1,942.54 | -7,348.94 | 353.80 | 92.39 | 261.42 | 1.353 Level 3 | | |
| 14,200.00 | 6,924.71 | 14,540.92 | 7,209.27 | 208.19 | 208.53 | -143.58 | -1,943.12 | -7,448.93 | 353.62 | 88.40 | 265.22 | 1.333 Level 3 | | |
| 14,300.00 | 6,924.34 | 14,640.92 | 7,208.67 | 211.01 | 211.34 | -143.56 | -1,943.70 | -7,548.93 | 353.44 | 84.40 | 269.03 | 1.314 Level 3 | | |
| 14,400.00 | 6,923.96 | 14,740.92 | 7,208.08 | 213.83 | 214.16 | -143.54 | -1,944.29 | -7,648.93 | 353.25 | 80.41 | 272.84 | 1.295 Level 3 | | |
| 14,500.00 | 6,923.58 | 14,840.92 | 7,207.48 | 216.65 | 216.98 | -143.53 | -1,944.87 | -7,748.92 | 353.07 | 76.41 | 276.66 | 1.276 Level 3 | | |
| 14,600.00 | 6,923.20 | 14,940.92 | 7,206.89 | 219.48 | 219.80 | -143.51 | -1,945.46 | -7,848.92 | 352.89 | 72.41 | 280.48 | 1.258 Level 3 | | |
| 14,700.00 | 6,922.82 | 15,040.92 | 7,206.29 | 222.30 | 222.62 | -143.49 | -1,946.04 | -7,948.92 | 352.70 | 68.40 | 284.30 | 1.241 Level 2 | | |
| 14,800.00 | 6,922.44 | 15,140.92 | 7,205.69 | 225.13 | 225.44 | -143.47 | -1,946.62 | -8,048.91 | 352.52 | 64.40 | 288.12 | 1.224 Level 2 | | |
| 14,900.00 | 6,922.06 | 15,240.92 | 7,205.10 | 227.95 | 228.26 | -143.45 | -1,947.21 | -8,148.91 | 352.34 | 60.39 | 291.95 | 1.207 Level 2 | | |
| 14,915.55 | 6,922.00 | 15,256.47 | 7,205.01 | 228.39 | 228.70 | -143.45 | -1,947.30 | -8,164.46 | 352.31 | 59.76 | 292.55 | 1.204 Level 2, SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 34C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | -179.54 | -139.89 | -1.11 | 139.89 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | -179.54 | -139.89 | -1.11 | 139.89 | 133.32 | 6.57 | 21.294 | | |
| 200.00 | 200.00 | 199.00 | 200.00 | 3.34 | 3.34 | -179.54 | -139.89 | -1.11 | 139.89 | 133.22 | 6.67 | 20.963 | | |
| 300.00 | 299.98 | 294.40 | 295.38 | 3.44 | 3.43 | -4.96 | -141.44 | -1.18 | 139.78 | 132.90 | 6.88 | 20.312 | | |
| 400.00 | 399.84 | 389.75 | 390.61 | 3.59 | 3.57 | -5.06 | -146.16 | -1.40 | 139.52 | 132.33 | 7.19 | 19.393 | | |
| 500.00 | 499.45 | 485.11 | 485.64 | 3.79 | 3.76 | -5.23 | -154.05 | -1.77 | 139.11 | 131.51 | 7.61 | 18.290 | | |
| 600.00 | 598.70 | 580.49 | 580.37 | 4.03 | 3.98 | -5.47 | -165.09 | -2.28 | 138.55 | 130.45 | 8.10 | 17.104 | | |
| 700.00 | 697.47 | 675.89 | 674.70 | 4.31 | 4.24 | -5.78 | -179.28 | -2.93 | 137.85 | 129.18 | 8.67 | 15.908 | | |
| 800.00 | 795.62 | 771.31 | 768.53 | 4.64 | 4.54 | -6.17 | -196.61 | -3.74 | 137.00 | 127.71 | 9.29 | 14.750 | | |
| 900.00 | 893.06 | 866.76 | 861.76 | 5.00 | 4.88 | -6.63 | -217.05 | -4.68 | 136.02 | 126.06 | 9.96 | 13.662 | | |
| 981.28 | 971.79 | 944.36 | 937.02 | 5.32 | 5.17 | -7.02 | -235.95 | -5.56 | 135.75 | 125.22 | 10.53 | 12.887 | | |
| 1,000.00 | 989.78 | 962.24 | 954.28 | 5.39 | 5.24 | -7.13 | -240.59 | -5.77 | 135.43 | 124.76 | 10.67 | 12.692 CC, ES | | |
| 1,100.00 | 1,086.42 | 1,057.68 | 1,045.92 | 5.81 | 5.64 | -7.55 | -267.19 | -7.00 | 137.81 | 126.40 | 11.41 | 12.074 | | |
| 1,200.00 | 1,183.06 | 1,152.86 | 1,136.39 | 6.25 | 6.07 | -7.83 | -296.73 | -8.37 | 143.52 | 131.34 | 12.18 | 11.784 | | |
| 1,300.00 | 1,279.69 | 1,247.59 | 1,225.40 | 6.71 | 6.53 | -7.98 | -329.10 | -9.86 | 152.52 | 139.56 | 12.96 | 11.768 | | |
| 1,400.00 | 1,376.33 | 1,341.65 | 1,312.67 | 7.17 | 7.01 | -8.00 | -364.14 | -11.48 | 164.78 | 151.03 | 13.75 | 11.984 | | |
| 1,500.00 | 1,472.97 | 1,434.86 | 1,397.97 | 7.65 | 7.52 | -7.93 | -401.66 | -13.22 | 180.27 | 165.73 | 14.54 | 12.396 | | |
| 1,600.00 | 1,569.61 | 1,527.03 | 1,481.08 | 8.13 | 8.06 | -7.79 | -441.47 | -15.06 | 198.93 | 183.60 | 15.33 | 12.973 | | |
| 1,700.00 | 1,666.24 | 1,618.00 | 1,561.80 | 8.62 | 8.61 | -7.61 | -483.35 | -17.00 | 220.71 | 204.59 | 16.12 | 13.692 | | |
| 1,800.00 | 1,762.88 | 1,707.60 | 1,639.97 | 9.12 | 9.18 | -7.40 | -527.09 | -19.02 | 245.55 | 228.65 | 16.90 | 14.533 | | |
| 1,900.00 | 1,859.52 | 1,795.70 | 1,715.46 | 9.62 | 9.77 | -7.18 | -572.46 | -21.12 | 273.37 | 255.71 | 17.66 | 15.478 | | |
| 2,000.00 | 1,956.16 | 1,887.68 | 1,793.06 | 10.13 | 10.41 | -6.95 | -621.79 | -23.40 | 303.58 | 285.06 | 18.52 | 16.396 | | |
| 2,100.00 | 2,052.79 | 1,982.93 | 1,873.30 | 10.64 | 11.08 | -6.76 | -673.06 | -25.77 | 334.02 | 314.57 | 19.45 | 17.175 | | |
| 2,200.00 | 2,149.43 | 2,078.18 | 1,953.54 | 11.15 | 11.77 | -6.60 | -724.32 | -28.14 | 364.46 | 344.06 | 20.39 | 17.870 | | |
| 2,300.00 | 2,246.07 | 2,173.43 | 2,033.78 | 11.66 | 12.46 | -6.47 | -775.59 | -30.51 | 394.90 | 373.55 | 21.35 | 18.493 | | |
| 2,400.00 | 2,342.71 | 2,268.68 | 2,114.03 | 12.18 | 13.16 | -6.35 | -826.85 | -32.88 | 425.34 | 403.02 | 22.33 | 19.052 | | |
| 2,500.00 | 2,439.34 | 2,363.93 | 2,194.27 | 12.70 | 13.87 | -6.25 | -878.12 | -35.26 | 455.79 | 432.48 | 23.31 | 19.556 | | |
| 2,600.00 | 2,535.98 | 2,459.18 | 2,274.51 | 13.22 | 14.58 | -6.16 | -929.38 | -37.63 | 486.24 | 461.94 | 24.30 | 20.013 | | |
| 2,700.00 | 2,632.62 | 2,554.43 | 2,354.75 | 13.75 | 15.30 | -6.08 | -980.65 | -40.00 | 516.68 | 491.39 | 25.29 | 20.427 | | |
| 2,800.00 | 2,729.26 | 2,649.68 | 2,434.99 | 14.27 | 16.02 | -6.01 | -1,031.91 | -42.37 | 547.13 | 520.83 | 26.30 | 20.805 | | |
| 2,900.00 | 2,825.89 | 2,744.93 | 2,515.24 | 14.80 | 16.75 | -5.95 | -1,083.17 | -44.74 | 577.58 | 550.27 | 27.31 | 21.151 | | |
| 3,000.00 | 2,922.53 | 2,840.18 | 2,595.48 | 15.32 | 17.48 | -5.90 | -1,134.44 | -47.11 | 608.03 | 579.71 | 28.32 | 21.468 | | |
| 3,100.00 | 3,019.17 | 2,935.43 | 2,675.72 | 15.85 | 18.21 | -5.85 | -1,185.70 | -49.48 | 638.48 | 609.14 | 29.34 | 21.760 | | |
| 3,200.00 | 3,115.81 | 3,030.68 | 2,755.96 | 16.38 | 18.94 | -5.80 | -1,236.97 | -51.85 | 668.93 | 638.56 | 30.37 | 22.029 | | |
| 3,300.00 | 3,212.44 | 3,125.93 | 2,836.21 | 16.91 | 19.67 | -5.76 | -1,288.23 | -54.22 | 699.38 | 667.98 | 31.39 | 22.277 | | |
| 3,400.00 | 3,309.08 | 3,221.18 | 2,916.45 | 17.44 | 20.41 | -5.72 | -1,339.50 | -56.59 | 729.83 | 697.40 | 32.43 | 22.508 | | |
| 3,500.00 | 3,405.72 | 3,316.43 | 2,996.69 | 17.97 | 21.15 | -5.68 | -1,390.76 | -58.97 | 760.28 | 726.82 | 33.46 | 22.722 | | |
| 3,600.00 | 3,502.36 | 3,411.68 | 3,076.93 | 18.50 | 21.89 | -5.65 | -1,442.03 | -61.34 | 790.73 | 756.23 | 34.50 | 22.921 | | |
| 3,700.00 | 3,598.99 | 3,506.93 | 3,157.18 | 19.03 | 22.63 | -5.62 | -1,493.29 | -63.71 | 821.18 | 785.65 | 35.54 | 23.107 | | |
| 3,800.00 | 3,695.63 | 3,602.18 | 3,237.42 | 19.57 | 23.37 | -5.59 | -1,544.56 | -66.08 | 851.64 | 815.06 | 36.58 | 23.281 | | |
| 3,900.00 | 3,792.27 | 3,702.57 | 3,317.66 | 20.10 | 24.15 | -5.57 | -1,595.82 | -68.45 | 882.09 | 844.43 | 37.66 | 23.424 | | |
| 4,000.00 | 3,888.91 | 3,807.32 | 3,397.90 | 20.63 | 24.97 | -5.54 | -1,647.09 | -70.82 | 912.54 | 873.78 | 38.76 | 23.541 | | |
| 4,100.00 | 3,985.54 | 3,887.93 | 3,478.15 | 21.17 | 25.60 | -5.52 | -1,698.35 | -73.19 | 942.99 | 903.27 | 39.72 | 23.741 | | |
| 4,200.00 | 4,082.18 | 3,983.18 | 3,558.39 | 21.70 | 26.35 | -5.50 | -1,749.62 | -75.56 | 973.44 | 932.67 | 40.77 | 23.876 | | |
| 4,300.00 | 4,178.82 | 4,078.43 | 3,638.63 | 22.24 | 27.10 | -5.48 | -1,800.88 | -77.93 | 1,003.90 | 962.07 | 41.82 | 24.003 | | |
| 4,400.00 | 4,275.46 | 4,173.68 | 3,718.87 | 22.77 | 27.84 | -5.46 | -1,852.15 | -80.31 | 1,034.35 | 991.47 | 42.88 | 24.124 | | |
| 4,500.00 | 4,372.09 | 4,268.93 | 3,799.12 | 23.31 | 28.59 | -5.44 | -1,903.41 | -82.68 | 1,064.80 | 1,020.87 | 43.93 | 24.238 | | |
| 4,600.00 | 4,468.73 | 4,364.18 | 3,879.36 | 23.84 | 29.34 | -5.43 | -1,954.68 | -85.05 | 1,095.25 | 1,050.27 | 44.99 | 24.346 | | |
| 4,700.00 | 4,565.37 | 4,459.43 | 3,959.60 | 24.38 | 30.09 | -5.41 | -2,005.94 | -87.42 | 1,125.71 | 1,079.66 | 46.04 | 24.448 | | |
| 4,800.00 | 4,662.01 | 4,554.68 | 4,039.84 | 24.91 | 30.84 | -5.39 | -2,057.21 | -89.79 | 1,156.16 | 1,109.06 | 47.10 | 24.545 | | |
| 4,900.00 | 4,758.64 | 4,649.93 | 4,120.08 | 25.45 | 31.59 | -5.38 | -2,108.47 | -92.16 | 1,186.61 | 1,138.45 | 48.16 | 24.638 | | |
| 5,000.00 | 4,855.28 | 4,745.18 | 4,200.33 | 25.99 | 32.34 | -5.37 | -2,159.74 | -94.53 | 1,217.07 | 1,167.84 | 49.22 | 24.726 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 34C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 4,840.43 | 4,280.57 | 26.53 | 33.09 | -5.35 | -2,211.00 | -96.90 | 1,247.52 | 1,197.24 | 50.28 | 24.809 | | |
| 5,200.00 | 5,048.56 | 4,935.68 | 4,360.81 | 27.06 | 33.84 | -5.34 | -2,262.27 | -99.27 | 1,277.97 | 1,226.63 | 51.35 | 24.889 | | |
| 5,300.00 | 5,145.19 | 5,030.93 | 4,441.05 | 27.60 | 34.59 | -5.33 | -2,313.53 | -101.64 | 1,308.43 | 1,256.02 | 52.41 | 24.966 | | |
| 5,400.00 | 5,241.83 | 5,126.18 | 4,521.30 | 28.14 | 35.35 | -5.32 | -2,364.80 | -104.02 | 1,338.88 | 1,285.41 | 53.47 | 25.038 | | |
| 5,500.00 | 5,338.47 | 5,221.43 | 4,601.54 | 28.67 | 36.10 | -5.31 | -2,416.06 | -106.39 | 1,369.33 | 1,314.79 | 54.54 | 25.108 | | |
| 5,600.00 | 5,435.11 | 5,316.67 | 4,681.78 | 29.21 | 36.85 | -5.30 | -2,467.32 | -108.76 | 1,399.79 | 1,344.18 | 55.60 | 25.175 | | |
| 5,700.00 | 5,531.74 | 5,411.92 | 4,762.02 | 29.75 | 37.60 | -5.29 | -2,518.59 | -111.13 | 1,430.24 | 1,373.57 | 56.67 | 25.239 | | |
| 5,800.00 | 5,628.38 | 5,507.17 | 4,842.27 | 30.29 | 38.36 | -5.28 | -2,569.85 | -113.50 | 1,460.69 | 1,402.96 | 57.74 | 25.300 | | |
| 5,900.00 | 5,725.02 | 5,602.42 | 4,922.51 | 30.83 | 39.11 | -5.27 | -2,621.12 | -115.87 | 1,491.15 | 1,432.34 | 58.80 | 25.359 | | |
| 6,000.00 | 5,821.66 | 5,702.33 | 5,002.75 | 31.37 | 39.90 | -5.26 | -2,672.38 | -118.24 | 1,521.60 | 1,461.70 | 59.90 | 25.402 | | |
| 6,100.00 | 5,918.29 | 5,823.89 | 5,109.38 | 31.90 | 40.86 | -5.25 | -2,739.83 | -121.36 | 1,551.79 | 1,490.44 | 61.35 | 25.292 | | |
| 6,200.00 | 6,014.93 | 6,036.96 | 5,295.10 | 32.44 | 42.44 | -5.26 | -2,844.05 | -126.18 | 1,576.78 | 1,513.03 | 63.75 | 24.736 | | |
| 6,300.00 | 6,111.57 | 6,257.16 | 5,494.64 | 32.98 | 43.93 | -5.29 | -2,936.97 | -130.48 | 1,594.38 | 1,528.61 | 65.77 | 24.243 | | |
| 6,400.00 | 6,208.21 | 6,482.16 | 5,705.28 | 33.52 | 45.29 | -5.35 | -3,015.81 | -134.13 | 1,604.29 | 1,536.95 | 67.35 | 23.822 | | |
| 6,500.00 | 6,304.84 | 6,709.28 | 5,923.52 | 34.06 | 46.50 | -5.44 | -3,078.41 | -137.02 | 1,606.33 | 1,537.91 | 68.43 | 23.476 | | |
| 6,600.00 | 6,401.37 | 6,935.47 | 6,145.12 | 34.60 | 47.53 | -22.81 | -3,123.39 | -139.10 | 1,600.47 | 1,531.50 | 68.98 | 23.203 | | |
| 6,700.00 | 6,496.25 | 7,154.53 | 6,362.48 | 35.12 | 48.37 | -47.94 | -3,150.19 | -140.34 | 1,587.20 | 1,518.16 | 69.04 | 22.989 | | |
| 6,800.00 | 6,587.15 | 7,358.80 | 6,566.46 | 35.59 | 48.99 | -64.67 | -3,160.16 | -140.80 | 1,568.26 | 1,499.56 | 68.70 | 22.827 | | |
| 6,900.00 | 6,671.83 | 7,475.91 | 6,683.36 | 36.03 | 49.29 | -75.55 | -3,160.44 | -145.73 | 1,547.93 | 1,478.84 | 69.10 | 22.402 | | |
| 7,000.00 | 6,748.21 | 7,582.66 | 6,787.69 | 36.41 | 49.55 | -83.20 | -3,160.57 | -167.77 | 1,531.02 | 1,461.51 | 69.51 | 22.025 | | |
| 7,100.00 | 6,814.41 | 7,700.87 | 6,897.09 | 36.76 | 49.82 | -89.09 | -3,160.85 | -212.09 | 1,517.97 | 1,448.32 | 69.65 | 21.795 | | |
| 7,200.00 | 6,868.79 | 7,833.33 | 7,007.56 | 37.07 | 50.09 | -93.73 | -3,161.29 | -284.75 | 1,508.81 | 1,439.32 | 69.49 | 21.713 | | |
| 7,300.00 | 6,910.01 | 7,982.35 | 7,110.85 | 37.39 | 50.33 | -97.32 | -3,161.95 | -391.70 | 1,503.17 | 1,434.00 | 69.17 | 21.730 | | |
| 7,400.00 | 6,937.07 | 8,148.24 | 7,193.12 | 37.76 | 50.51 | -99.83 | -3,162.82 | -535.19 | 1,500.35 | 1,431.17 | 69.18 | 21.689 | | |
| 7,500.00 | 6,949.29 | 8,327.26 | 7,237.22 | 38.27 | 50.62 | -101.08 | -3,163.88 | -708.09 | 1,499.50 | 1,429.20 | 70.30 | 21.330 | | |
| 7,565.88 | 6,951.27 | 8,425.96 | 7,240.90 | 38.74 | 50.66 | -101.14 | -3,164.49 | -806.65 | 1,498.92 | 1,427.09 | 71.83 | 20.868 | | |
| 7,600.00 | 6,949.75 | 8,460.11 | 7,240.76 | 39.02 | 50.67 | -101.19 | -3,164.70 | -840.80 | 1,499.55 | 1,427.00 | 72.56 | 20.667 | | |
| 7,700.00 | 6,949.37 | 8,560.11 | 7,240.35 | 40.05 | 50.73 | -101.19 | -3,165.31 | -940.80 | 1,499.56 | 1,424.48 | 75.09 | 19.971 | | |
| 7,800.00 | 6,948.99 | 8,660.11 | 7,239.95 | 41.35 | 50.81 | -101.19 | -3,165.92 | -1,040.80 | 1,499.57 | 1,421.63 | 77.94 | 19.240 | | |
| 7,900.00 | 6,948.61 | 8,760.11 | 7,239.54 | 42.86 | 50.94 | -101.19 | -3,166.53 | -1,140.79 | 1,499.58 | 1,418.50 | 81.08 | 18.494 | | |
| 8,000.00 | 6,948.23 | 8,860.11 | 7,239.14 | 44.53 | 51.18 | -101.19 | -3,167.15 | -1,240.79 | 1,499.59 | 1,415.11 | 84.48 | 17.750 | | |
| 8,100.00 | 6,947.85 | 8,960.11 | 7,238.73 | 46.34 | 51.65 | -101.18 | -3,167.76 | -1,340.79 | 1,499.60 | 1,411.49 | 88.11 | 17.019 | | |
| 8,200.00 | 6,947.47 | 9,060.11 | 7,238.32 | 48.26 | 52.58 | -101.18 | -3,168.37 | -1,440.78 | 1,499.61 | 1,407.66 | 91.94 | 16.311 | | |
| 8,300.00 | 6,947.09 | 9,160.11 | 7,237.92 | 50.28 | 54.02 | -101.18 | -3,168.98 | -1,540.78 | 1,499.61 | 1,403.67 | 95.95 | 15.630 | | |
| 8,400.00 | 6,946.72 | 9,260.11 | 7,237.51 | 52.39 | 55.78 | -101.18 | -3,169.60 | -1,640.78 | 1,499.62 | 1,399.51 | 100.11 | 14.980 | | |
| 8,500.00 | 6,946.34 | 9,360.11 | 7,237.11 | 54.56 | 57.72 | -101.18 | -3,170.21 | -1,740.78 | 1,499.63 | 1,395.22 | 104.41 | 14.363 | | |
| 8,600.00 | 6,945.96 | 9,460.11 | 7,236.70 | 56.80 | 59.78 | -101.18 | -3,170.82 | -1,840.77 | 1,499.64 | 1,390.81 | 108.83 | 13.780 | | |
| 8,700.00 | 6,945.58 | 9,560.11 | 7,236.29 | 59.10 | 61.93 | -101.18 | -3,171.43 | -1,940.77 | 1,499.65 | 1,386.29 | 113.35 | 13.230 | | |
| 8,800.00 | 6,945.20 | 9,660.11 | 7,235.89 | 61.44 | 64.14 | -101.18 | -3,172.05 | -2,040.77 | 1,499.66 | 1,381.68 | 117.98 | 12.712 | | |
| 8,900.00 | 6,944.82 | 9,760.11 | 7,235.48 | 63.83 | 66.41 | -101.18 | -3,172.66 | -2,140.77 | 1,499.66 | 1,376.98 | 122.68 | 12.224 | | |
| 9,000.00 | 6,944.44 | 9,860.11 | 7,235.08 | 66.25 | 68.72 | -101.17 | -3,173.27 | -2,240.76 | 1,499.67 | 1,372.21 | 127.46 | 11.766 | | |
| 9,100.00 | 6,944.06 | 9,960.11 | 7,234.67 | 68.71 | 71.09 | -101.17 | -3,173.88 | -2,340.76 | 1,499.68 | 1,367.38 | 132.31 | 11.335 | | |
| 9,200.00 | 6,943.68 | 10,060.11 | 7,234.27 | 71.20 | 73.48 | -101.17 | -3,174.50 | -2,440.76 | 1,499.69 | 1,362.48 | 137.21 | 10.930 | | |
| 9,300.00 | 6,943.30 | 10,160.11 | 7,233.86 | 73.72 | 75.91 | -101.17 | -3,175.11 | -2,540.75 | 1,499.70 | 1,357.53 | 142.17 | 10.549 | | |
| 9,400.00 | 6,942.92 | 10,260.11 | 7,233.45 | 76.26 | 78.38 | -101.17 | -3,175.72 | -2,640.75 | 1,499.71 | 1,352.53 | 147.18 | 10.190 | | |
| 9,500.00 | 6,942.54 | 10,360.11 | 7,233.05 | 78.82 | 80.86 | -101.17 | -3,176.33 | -2,740.75 | 1,499.72 | 1,347.49 | 152.23 | 9.852 | | |
| 9,600.00 | 6,942.16 | 10,460.11 | 7,232.64 | 81.40 | 83.38 | -101.17 | -3,176.95 | -2,840.75 | 1,499.72 | 1,342.41 | 157.32 | 9.533 | | |
| 9,700.00 | 6,941.78 | 10,560.11 | 7,232.24 | 84.00 | 85.91 | -101.17 | -3,177.56 | -2,940.74 | 1,499.73 | 1,337.29 | 162.44 | 9.232 | | |
| 9,800.00 | 6,941.40 | 10,660.11 | 7,231.83 | 86.62 | 88.47 | -101.17 | -3,178.17 | -3,040.74 | 1,499.74 | 1,332.14 | 167.60 | 8.948 | | |
| 9,900.00 | 6,941.03 | 10,760.11 | 7,231.43 | 89.25 | 91.04 | -101.16 | -3,178.78 | -3,140.74 | 1,499.75 | 1,326.97 | 172.78 | 8.680 | | |
| 10,000.00 | 6,940.65 | 10,860.11 | 7,231.02 | 91.90 | 93.63 | -101.16 | -3,179.40 | -3,240.74 | 1,499.76 | 1,321.76 | 178.00 | 8.426 | | |
| 10,100.00 | 6,940.27 | 10,960.11 | 7,230.61 | 94.56 | 96.24 | -101.16 | -3,180.01 | -3,340.73 | 1,499.77 | 1,316.53 | 183.23 | 8.185 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 34C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,200.00 | 6,939.89 | 11,060.11 | 7,230.21 | 97.23 | 98.86 | -101.16 | -3,180.62 | -3,440.73 | 1,499.77 | 1,311.28 | 188.49 | 7.957 | | |
| 10,300.00 | 6,939.51 | 11,160.11 | 7,229.80 | 99.91 | 101.49 | -101.16 | -3,181.23 | -3,540.73 | 1,499.78 | 1,306.01 | 193.77 | 7.740 | | |
| 10,400.00 | 6,939.13 | 11,260.11 | 7,229.40 | 102.60 | 104.14 | -101.16 | -3,181.85 | -3,640.72 | 1,499.79 | 1,300.72 | 199.07 | 7.534 | | |
| 10,500.00 | 6,938.75 | 11,360.11 | 7,228.99 | 105.30 | 106.79 | -101.16 | -3,182.46 | -3,740.72 | 1,499.80 | 1,295.41 | 204.39 | 7.338 | | |
| 10,600.00 | 6,938.37 | 11,460.11 | 7,228.59 | 108.00 | 109.46 | -101.16 | -3,183.07 | -3,840.72 | 1,499.81 | 1,290.09 | 209.72 | 7.151 | | |
| 10,700.00 | 6,937.99 | 11,560.11 | 7,228.18 | 110.72 | 112.13 | -101.16 | -3,183.68 | -3,940.72 | 1,499.82 | 1,284.75 | 215.07 | 6.974 | | |
| 10,800.00 | 6,937.61 | 11,660.11 | 7,227.77 | 113.44 | 114.82 | -101.16 | -3,184.30 | -4,040.71 | 1,499.83 | 1,279.39 | 220.43 | 6.804 | | |
| 10,900.00 | 6,937.23 | 11,760.11 | 7,227.37 | 116.17 | 117.51 | -101.15 | -3,184.91 | -4,140.71 | 1,499.83 | 1,274.03 | 225.80 | 6.642 | | |
| 11,000.00 | 6,936.85 | 11,860.11 | 7,226.96 | 118.90 | 120.21 | -101.15 | -3,185.52 | -4,240.71 | 1,499.84 | 1,268.65 | 231.19 | 6.487 | | |
| 11,100.00 | 6,936.47 | 11,960.11 | 7,226.56 | 121.64 | 122.92 | -101.15 | -3,186.13 | -4,340.71 | 1,499.85 | 1,263.26 | 236.59 | 6.339 | | |
| 11,200.00 | 6,936.09 | 12,060.11 | 7,226.15 | 124.39 | 125.64 | -101.15 | -3,186.75 | -4,440.70 | 1,499.86 | 1,257.86 | 242.00 | 6.198 | | |
| 11,300.00 | 6,935.71 | 12,160.11 | 7,225.75 | 127.14 | 128.36 | -101.15 | -3,187.36 | -4,540.70 | 1,499.87 | 1,252.45 | 247.41 | 6.062 | | |
| 11,400.00 | 6,935.34 | 12,260.11 | 7,225.34 | 129.90 | 131.08 | -101.15 | -3,187.97 | -4,640.70 | 1,499.88 | 1,247.03 | 252.84 | 5.932 | | |
| 11,500.00 | 6,934.96 | 12,360.11 | 7,224.93 | 132.66 | 133.82 | -101.15 | -3,188.58 | -4,740.70 | 1,499.88 | 1,241.61 | 258.28 | 5.807 | | |
| 11,600.00 | 6,934.58 | 12,460.11 | 7,224.53 | 135.42 | 136.55 | -101.15 | -3,189.20 | -4,840.69 | 1,499.89 | 1,236.17 | 263.72 | 5.687 | | |
| 11,700.00 | 6,934.20 | 12,560.11 | 7,224.12 | 138.19 | 139.30 | -101.15 | -3,189.81 | -4,940.69 | 1,499.90 | 1,230.73 | 269.17 | 5.572 | | |
| 11,800.00 | 6,933.82 | 12,660.11 | 7,223.72 | 140.96 | 142.04 | -101.14 | -3,190.42 | -5,040.69 | 1,499.91 | 1,225.28 | 274.63 | 5.462 | | |
| 11,900.00 | 6,933.44 | 12,760.11 | 7,223.31 | 143.74 | 144.80 | -101.14 | -3,191.03 | -5,140.68 | 1,499.92 | 1,219.82 | 280.09 | 5.355 | | |
| 12,000.00 | 6,933.06 | 12,860.11 | 7,222.91 | 146.51 | 147.55 | -101.14 | -3,191.65 | -5,240.68 | 1,499.93 | 1,214.36 | 285.57 | 5.252 | | |
| 12,100.00 | 6,932.68 | 12,960.11 | 7,222.50 | 149.30 | 150.31 | -101.14 | -3,192.26 | -5,340.68 | 1,499.94 | 1,208.89 | 291.04 | 5.154 | | |
| 12,200.00 | 6,932.30 | 13,060.11 | 7,222.09 | 152.08 | 153.07 | -101.14 | -3,192.87 | -5,440.68 | 1,499.94 | 1,203.42 | 296.53 | 5.058 | | |
| 12,300.00 | 6,931.92 | 13,160.11 | 7,221.69 | 154.87 | 155.84 | -101.14 | -3,193.48 | -5,540.67 | 1,499.95 | 1,197.94 | 302.01 | 4.966 | | |
| 12,400.00 | 6,931.54 | 13,260.11 | 7,221.28 | 157.66 | 158.61 | -101.14 | -3,194.10 | -5,640.67 | 1,499.96 | 1,192.45 | 307.51 | 4.878 | | |
| 12,500.00 | 6,931.16 | 13,360.11 | 7,220.88 | 160.45 | 161.38 | -101.14 | -3,194.71 | -5,740.67 | 1,499.97 | 1,186.96 | 313.00 | 4.792 | | |
| 12,600.00 | 6,930.78 | 13,460.11 | 7,220.47 | 163.24 | 164.16 | -101.14 | -3,195.32 | -5,840.67 | 1,499.98 | 1,181.47 | 318.51 | 4.709 | | |
| 12,700.00 | 6,930.40 | 13,560.11 | 7,220.07 | 166.04 | 166.94 | -101.13 | -3,195.93 | -5,940.66 | 1,499.99 | 1,175.97 | 324.01 | 4.629 | | |
| 12,800.00 | 6,930.03 | 13,660.11 | 7,219.66 | 168.84 | 169.72 | -101.13 | -3,196.55 | -6,040.66 | 1,499.99 | 1,170.47 | 329.52 | 4.552 | | |
| 12,900.00 | 6,929.65 | 13,760.11 | 7,219.25 | 171.64 | 172.50 | -101.13 | -3,197.16 | -6,140.66 | 1,500.00 | 1,164.96 | 335.04 | 4.477 | | |
| 13,000.00 | 6,929.27 | 13,860.11 | 7,218.85 | 174.44 | 175.29 | -101.13 | -3,197.77 | -6,240.65 | 1,500.01 | 1,159.45 | 340.56 | 4.405 | | |
| 13,100.00 | 6,928.89 | 13,960.11 | 7,218.44 | 177.24 | 178.08 | -101.13 | -3,198.38 | -6,340.65 | 1,500.02 | 1,153.94 | 346.08 | 4.334 | | |
| 13,200.00 | 6,928.51 | 14,060.11 | 7,218.04 | 180.05 | 180.87 | -101.13 | -3,199.00 | -6,440.65 | 1,500.03 | 1,148.42 | 351.60 | 4.266 | | |
| 13,300.00 | 6,928.13 | 14,160.11 | 7,217.63 | 182.86 | 183.66 | -101.13 | -3,199.61 | -6,540.65 | 1,500.04 | 1,142.90 | 357.13 | 4.200 | | |
| 13,400.00 | 6,927.75 | 14,260.11 | 7,217.22 | 185.67 | 186.46 | -101.13 | -3,200.22 | -6,640.64 | 1,500.05 | 1,137.38 | 362.66 | 4.136 | | |
| 13,500.00 | 6,927.37 | 14,360.11 | 7,216.82 | 188.48 | 189.25 | -101.13 | -3,200.83 | -6,740.64 | 1,500.05 | 1,131.85 | 368.20 | 4.074 | | |
| 13,600.00 | 6,926.99 | 14,460.11 | 7,216.41 | 191.29 | 192.05 | -101.12 | -3,201.44 | -6,840.64 | 1,500.06 | 1,126.33 | 373.74 | 4.014 | | |
| 13,700.00 | 6,926.61 | 14,560.11 | 7,216.01 | 194.10 | 194.85 | -101.12 | -3,202.06 | -6,940.64 | 1,500.07 | 1,120.79 | 379.28 | 3.955 | | |
| 13,800.00 | 6,926.23 | 14,660.11 | 7,215.60 | 196.92 | 197.65 | -101.12 | -3,202.67 | -7,040.63 | 1,500.08 | 1,115.26 | 384.82 | 3.898 | | |
| 13,900.00 | 6,925.85 | 14,760.11 | 7,215.20 | 199.73 | 200.46 | -101.12 | -3,203.28 | -7,140.63 | 1,500.09 | 1,109.72 | 390.36 | 3.843 | | |
| 14,000.00 | 6,925.47 | 14,860.11 | 7,214.79 | 202.55 | 203.26 | -101.12 | -3,203.89 | -7,240.63 | 1,500.10 | 1,104.19 | 395.91 | 3.789 | | |
| 14,100.00 | 6,925.09 | 14,960.11 | 7,214.38 | 205.37 | 206.07 | -101.12 | -3,204.51 | -7,340.63 | 1,500.10 | 1,098.64 | 401.46 | 3.737 | | |
| 14,200.00 | 6,924.71 | 15,060.11 | 7,213.98 | 208.19 | 208.88 | -101.12 | -3,205.12 | -7,440.62 | 1,500.11 | 1,093.10 | 407.01 | 3.686 | | |
| 14,300.00 | 6,924.34 | 15,160.11 | 7,213.57 | 211.01 | 211.69 | -101.12 | -3,205.73 | -7,540.62 | 1,500.12 | 1,087.56 | 412.57 | 3.636 | | |
| 14,400.00 | 6,923.96 | 15,260.11 | 7,213.17 | 213.83 | 214.50 | -101.12 | -3,206.34 | -7,640.62 | 1,500.13 | 1,082.01 | 418.12 | 3.588 | | |
| 14,500.00 | 6,923.58 | 15,360.11 | 7,212.76 | 216.65 | 217.31 | -101.11 | -3,206.96 | -7,740.61 | 1,500.14 | 1,076.46 | 423.68 | 3.541 | | |
| 14,600.00 | 6,923.20 | 15,460.11 | 7,212.36 | 219.48 | 220.12 | -101.11 | -3,207.57 | -7,840.61 | 1,500.15 | 1,070.91 | 429.24 | 3.495 | | |
| 14,700.00 | 6,922.82 | 15,560.11 | 7,211.95 | 222.30 | 222.94 | -101.11 | -3,208.18 | -7,940.61 | 1,500.16 | 1,065.36 | 434.80 | 3.450 | | |
| 14,800.00 | 6,922.44 | 15,660.11 | 7,211.54 | 225.13 | 225.75 | -101.11 | -3,208.79 | -8,040.61 | 1,500.16 | 1,059.80 | 440.36 | 3.407 | | |
| 14,900.00 | 6,922.06 | 15,760.11 | 7,211.14 | 227.95 | 228.57 | -101.11 | -3,209.41 | -8,140.60 | 1,500.17 | 1,054.24 | 445.93 | 3.364 | | |
| 14,915.55 | 6,922.00 | 15,775.66 | 7,211.08 | 228.39 | 229.01 | -101.11 | -3,209.50 | -8,156.15 | 1,500.17 | 1,053.38 | 446.79 | 3.358 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 5C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.46 | 240.08 | 1.95 | 240.09 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.46 | 240.08 | 1.95 | 240.09 | 233.52 | 6.57 | 36.545 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.46 | 240.08 | 1.95 | 240.09 | 233.41 | 6.67 | 35.969 | CC, ES | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.12 | 240.08 | 1.95 | 241.82 | 234.94 | 6.89 | 35.117 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.21 | 240.08 | 1.95 | 247.04 | 239.84 | 7.20 | 34.325 | | |
| 500.00 | 499.45 | 500.45 | 499.45 | 3.79 | 3.81 | 175.36 | 240.08 | 1.95 | 255.72 | 248.12 | 7.60 | 33.650 | | |
| 600.00 | 598.70 | 599.70 | 598.70 | 4.03 | 4.05 | 175.55 | 240.08 | 1.95 | 267.87 | 259.79 | 8.08 | 33.152 | | |
| 700.00 | 697.47 | 698.47 | 697.47 | 4.31 | 4.30 | 175.49 | 240.89 | 0.65 | 284.29 | 275.68 | 8.61 | 33.007 | | |
| 800.00 | 795.62 | 796.62 | 795.62 | 4.64 | 4.63 | 175.26 | 242.43 | -1.81 | 304.82 | 295.56 | 9.25 | 32.939 | | |
| 900.00 | 893.06 | 894.06 | 893.06 | 5.00 | 4.89 | 175.10 | 243.95 | -4.26 | 328.74 | 318.89 | 9.84 | 33.400 | | |
| 1,000.00 | 989.78 | 990.78 | 989.78 | 5.39 | 5.21 | 175.03 | 245.47 | -6.68 | 355.51 | 345.00 | 10.52 | 33.808 | | |
| 1,100.00 | 1,086.42 | 1,087.42 | 1,086.42 | 5.81 | 5.54 | 174.98 | 246.98 | -9.10 | 382.63 | 371.42 | 11.21 | 34.136 | | |
| 1,200.00 | 1,183.06 | 1,184.06 | 1,183.06 | 6.25 | 5.88 | 174.94 | 248.50 | -11.53 | 409.74 | 397.81 | 11.93 | 34.347 | | |
| 1,300.00 | 1,279.69 | 1,280.69 | 1,279.69 | 6.71 | 6.24 | 174.91 | 250.01 | -13.95 | 436.86 | 424.19 | 12.67 | 34.471 | | |
| 1,400.00 | 1,376.33 | 1,377.33 | 1,376.33 | 7.17 | 6.60 | 174.88 | 251.52 | -16.37 | 463.98 | 450.54 | 13.44 | 34.532 | | |
| 1,500.00 | 1,472.97 | 1,473.97 | 1,472.97 | 7.65 | 6.97 | 174.85 | 253.04 | -18.79 | 491.09 | 476.88 | 14.21 | 34.547 | | |
| 1,600.00 | 1,569.61 | 1,570.61 | 1,569.61 | 8.13 | 7.34 | 174.82 | 254.55 | -21.21 | 518.21 | 503.20 | 15.01 | 34.530 | | |
| 1,700.00 | 1,666.24 | 1,667.24 | 1,666.24 | 8.62 | 7.72 | 174.80 | 256.06 | -23.63 | 545.32 | 529.51 | 15.81 | 34.490 | | |
| 1,800.00 | 1,762.88 | 1,763.88 | 1,762.88 | 9.12 | 8.11 | 174.78 | 257.58 | -26.06 | 572.44 | 555.82 | 16.62 | 34.433 | | |
| 1,900.00 | 1,859.52 | 1,860.52 | 1,859.52 | 9.62 | 8.49 | 174.77 | 259.09 | -28.48 | 599.56 | 582.11 | 17.45 | 34.364 | | |
| 2,000.00 | 1,956.16 | 1,957.16 | 1,956.16 | 10.13 | 8.88 | 174.75 | 260.60 | -30.90 | 626.67 | 608.40 | 18.28 | 34.289 | | |
| 2,100.00 | 2,052.79 | 2,053.79 | 2,052.79 | 10.64 | 9.28 | 174.73 | 262.12 | -33.32 | 653.79 | 634.68 | 19.11 | 34.208 | | |
| 2,200.00 | 2,149.43 | 2,150.43 | 2,149.43 | 11.15 | 9.68 | 174.72 | 263.63 | -35.74 | 680.91 | 660.95 | 19.95 | 34.125 | | |
| 2,300.00 | 2,246.07 | 2,247.07 | 2,246.07 | 11.66 | 10.07 | 174.71 | 265.14 | -38.17 | 708.02 | 687.22 | 20.80 | 34.040 | | |
| 2,400.00 | 2,342.71 | 2,343.71 | 2,342.71 | 12.18 | 10.47 | 174.70 | 266.66 | -40.59 | 735.14 | 713.49 | 21.65 | 33.956 | | |
| 2,500.00 | 2,439.34 | 2,440.34 | 2,439.34 | 12.70 | 10.88 | 174.68 | 268.17 | -43.01 | 762.26 | 739.75 | 22.50 | 33.872 | | |
| 2,600.00 | 2,535.98 | 2,536.98 | 2,535.98 | 13.22 | 11.28 | 174.67 | 269.68 | -45.43 | 789.37 | 766.01 | 23.36 | 33.789 | | |
| 2,700.00 | 2,632.62 | 2,633.62 | 2,632.62 | 13.75 | 11.69 | 174.66 | 271.20 | -47.85 | 816.49 | 792.27 | 24.22 | 33.708 | | |
| 2,800.00 | 2,729.26 | 2,730.26 | 2,729.26 | 14.27 | 12.09 | 174.66 | 272.71 | -50.27 | 843.61 | 818.52 | 25.09 | 33.629 | | |
| 2,900.00 | 2,825.89 | 2,826.89 | 2,825.89 | 14.80 | 12.50 | 174.65 | 274.22 | -52.70 | 870.73 | 844.77 | 25.95 | 33.552 | | |
| 3,000.00 | 2,922.53 | 2,923.53 | 2,922.53 | 15.32 | 12.91 | 174.64 | 275.74 | -55.12 | 897.84 | 871.02 | 26.82 | 33.477 | | |
| 3,100.00 | 3,019.17 | 3,020.17 | 3,019.17 | 15.85 | 13.32 | 174.63 | 277.25 | -57.54 | 924.96 | 897.27 | 27.69 | 33.404 | | |
| 3,200.00 | 3,115.81 | 3,116.81 | 3,115.81 | 16.38 | 13.73 | 174.63 | 278.76 | -59.96 | 952.08 | 923.51 | 28.56 | 33.334 | | |
| 3,300.00 | 3,212.44 | 3,213.44 | 3,212.44 | 16.91 | 14.15 | 174.62 | 280.28 | -62.38 | 979.19 | 949.75 | 29.44 | 33.259 | | |
| 3,400.00 | 3,309.08 | 3,310.08 | 3,309.08 | 17.44 | 14.59 | 174.61 | 281.79 | -64.81 | 1,006.31 | 975.96 | 30.35 | 33.158 | | |
| 3,500.00 | 3,405.72 | 3,406.72 | 3,405.72 | 17.97 | 15.04 | 174.61 | 283.30 | -67.23 | 1,033.43 | 1,002.17 | 31.26 | 33.062 | | |
| 3,600.00 | 3,502.36 | 3,503.36 | 3,502.36 | 18.50 | 15.38 | 174.60 | 284.82 | -69.65 | 1,060.54 | 1,028.48 | 32.06 | 33.075 | | |
| 3,700.00 | 3,598.99 | 3,599.99 | 3,598.99 | 19.03 | 15.79 | 174.60 | 286.33 | -72.07 | 1,087.66 | 1,054.72 | 32.94 | 33.016 | | |
| 3,800.00 | 3,695.63 | 3,696.63 | 3,695.63 | 19.57 | 16.21 | 174.59 | 287.84 | -74.49 | 1,114.78 | 1,080.95 | 33.82 | 32.959 | | |
| 3,900.00 | 3,792.27 | 3,793.27 | 3,792.27 | 20.10 | 16.62 | 174.59 | 289.36 | -76.92 | 1,141.90 | 1,107.19 | 34.70 | 32.904 | | |
| 4,000.00 | 3,888.91 | 3,889.91 | 3,888.91 | 20.63 | 17.04 | 174.58 | 290.87 | -79.34 | 1,169.01 | 1,133.43 | 35.59 | 32.850 | | |
| 4,100.00 | 3,985.54 | 3,986.54 | 3,985.54 | 21.17 | 17.45 | 174.58 | 292.38 | -81.76 | 1,196.13 | 1,159.66 | 36.47 | 32.799 | | |
| 4,200.00 | 4,082.18 | 4,083.18 | 4,082.18 | 21.70 | 17.87 | 174.57 | 293.90 | -84.18 | 1,223.25 | 1,185.89 | 37.35 | 32.749 | | |
| 4,300.00 | 4,178.82 | 4,179.82 | 4,178.82 | 22.24 | 18.29 | 174.57 | 295.41 | -86.60 | 1,250.36 | 1,212.13 | 38.24 | 32.700 | | |
| 4,400.00 | 4,275.46 | 4,276.46 | 4,275.46 | 22.77 | 18.70 | 174.56 | 296.92 | -89.02 | 1,277.48 | 1,238.36 | 39.12 | 32.654 | | |
| 4,500.00 | 4,372.09 | 4,373.09 | 4,372.09 | 23.31 | 19.12 | 174.56 | 298.44 | -91.45 | 1,304.60 | 1,264.59 | 40.01 | 32.609 | | |
| 4,600.00 | 4,468.73 | 4,469.73 | 4,468.73 | 23.84 | 19.54 | 174.56 | 299.95 | -93.87 | 1,331.71 | 1,290.82 | 40.89 | 32.565 | | |
| 4,700.00 | 4,565.37 | 4,566.37 | 4,565.37 | 24.38 | 19.95 | 174.55 | 301.46 | -96.29 | 1,358.83 | 1,317.05 | 41.78 | 32.523 | | |
| 4,800.00 | 4,662.01 | 4,663.01 | 4,662.01 | 24.91 | 20.37 | 174.55 | 302.98 | -98.71 | 1,385.95 | 1,343.28 | 42.67 | 32.482 | | |
| 4,900.00 | 4,758.64 | 4,759.64 | 4,758.64 | 25.45 | 20.79 | 174.55 | 304.49 | -101.13 | 1,413.07 | 1,369.51 | 43.56 | 32.442 | | |
| 5,000.00 | 4,855.28 | 4,856.28 | 4,855.28 | 25.99 | 21.21 | 174.54 | 306.00 | -103.56 | 1,440.18 | 1,395.74 | 44.45 | 32.404 | | |
| 5,100.00 | 4,951.92 | 4,952.92 | 4,951.92 | 26.53 | 21.63 | 174.54 | 307.52 | -105.98 | 1,467.30 | 1,421.97 | 45.33 | 32.366 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 5C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,028.06 | 5,025.13 | 27.06 | 22.05 | 174.54 | 309.03 | -108.40 | 1,494.42 | 1,448.19 | 46.22 | 32.330 | | |
| 5,300.00 | 5,145.19 | 5,124.31 | 5,121.34 | 27.60 | 22.46 | 174.54 | 310.54 | -110.82 | 1,521.53 | 1,474.42 | 47.11 | 32.295 | | |
| 5,400.00 | 5,241.83 | 5,220.56 | 5,217.56 | 28.14 | 22.88 | 174.53 | 312.06 | -113.24 | 1,548.65 | 1,500.65 | 48.00 | 32.261 | | |
| 5,500.00 | 5,338.47 | 5,316.82 | 5,313.77 | 28.67 | 23.30 | 174.53 | 313.57 | -115.67 | 1,575.77 | 1,526.87 | 48.89 | 32.228 | | |
| 5,600.00 | 5,435.11 | 5,413.07 | 5,409.98 | 29.21 | 23.72 | 174.53 | 315.08 | -118.09 | 1,602.89 | 1,553.10 | 49.79 | 32.196 | | |
| 5,700.00 | 5,531.74 | 5,509.32 | 5,506.19 | 29.75 | 24.14 | 174.53 | 316.60 | -120.51 | 1,630.00 | 1,579.33 | 50.68 | 32.165 | | |
| 5,800.00 | 5,628.38 | 5,605.58 | 5,602.40 | 30.29 | 24.56 | 174.52 | 318.11 | -122.93 | 1,657.12 | 1,605.55 | 51.57 | 32.135 | | |
| 5,900.00 | 5,725.02 | 5,701.83 | 5,698.61 | 30.83 | 24.98 | 174.52 | 319.62 | -125.35 | 1,684.24 | 1,631.78 | 52.46 | 32.105 | | |
| 6,000.00 | 5,821.66 | 5,801.92 | 5,794.82 | 31.37 | 25.42 | 174.52 | 321.14 | -127.77 | 1,711.35 | 1,657.98 | 53.37 | 32.066 | | |
| 6,100.00 | 5,918.29 | 5,905.66 | 5,891.03 | 31.90 | 25.87 | 174.52 | 322.65 | -130.20 | 1,738.47 | 1,684.18 | 54.29 | 32.019 | | |
| 6,200.00 | 6,014.93 | 6,009.41 | 5,987.24 | 32.44 | 26.32 | 174.52 | 324.16 | -132.62 | 1,765.59 | 1,710.37 | 55.22 | 31.974 | | |
| 6,300.00 | 6,111.57 | 6,086.84 | 6,083.45 | 32.98 | 26.66 | 174.51 | 325.68 | -135.04 | 1,792.70 | 1,736.67 | 56.03 | 31.995 | | |
| 6,400.00 | 6,208.21 | 6,183.10 | 6,179.66 | 33.52 | 27.08 | 174.51 | 327.19 | -137.46 | 1,819.82 | 1,762.90 | 56.92 | 31.969 | | |
| 6,500.00 | 6,304.84 | 6,279.35 | 6,275.87 | 34.06 | 27.50 | 174.51 | 328.70 | -139.88 | 1,846.94 | 1,789.12 | 57.82 | 31.944 | | |
| 6,600.00 | 6,401.37 | 6,375.54 | 6,372.03 | 34.60 | 27.92 | 156.54 | 330.22 | -142.30 | 1,874.04 | 1,815.33 | 58.71 | 31.920 | | |
| 6,700.00 | 6,496.25 | 6,470.45 | 6,466.89 | 35.12 | 28.34 | 132.04 | 331.71 | -144.69 | 1,900.89 | 1,841.30 | 59.59 | 31.900 | | |
| 6,800.00 | 6,587.15 | 6,561.78 | 6,558.18 | 35.59 | 28.74 | 118.09 | 333.14 | -146.99 | 1,927.22 | 1,866.79 | 60.42 | 31.895 | | |
| 6,900.00 | 6,671.83 | 6,651.42 | 6,647.76 | 36.03 | 29.13 | 109.92 | 334.55 | -149.67 | 1,953.04 | 1,891.79 | 61.24 | 31.890 | | |
| 7,000.00 | 6,748.21 | 6,758.90 | 6,753.95 | 36.41 | 29.60 | 104.94 | 336.12 | -165.33 | 1,977.85 | 1,915.61 | 62.24 | 31.778 | | |
| 7,100.00 | 6,814.41 | 6,880.32 | 6,868.79 | 36.76 | 30.15 | 101.79 | 337.65 | -204.16 | 2,000.80 | 1,937.41 | 63.39 | 31.564 | | |
| 7,200.00 | 6,868.79 | 7,020.00 | 6,988.98 | 37.07 | 30.80 | 99.89 | 339.03 | -274.78 | 2,020.99 | 1,956.26 | 64.74 | 31.219 | | |
| 7,300.00 | 6,910.01 | 7,181.96 | 7,105.15 | 37.39 | 31.66 | 98.90 | 340.02 | -386.99 | 2,037.34 | 1,970.94 | 66.40 | 30.682 | | |
| 7,400.00 | 6,937.07 | 7,367.05 | 7,198.43 | 37.76 | 33.00 | 98.47 | 340.29 | -546.10 | 2,048.59 | 1,979.93 | 68.66 | 29.836 | | |
| 7,500.00 | 6,949.29 | 7,568.85 | 7,243.53 | 38.27 | 35.07 | 98.29 | 339.52 | -741.93 | 2,053.57 | 1,981.75 | 71.82 | 28.592 | | |
| 7,600.00 | 6,949.75 | 7,707.90 | 7,244.75 | 39.02 | 36.84 | 98.26 | 338.60 | -865.15 | 2,053.63 | 1,978.84 | 74.79 | 27.459 | | |
| 7,700.00 | 6,949.37 | 7,807.90 | 7,244.44 | 40.05 | 38.31 | 98.26 | 337.83 | -965.15 | 2,053.48 | 1,975.87 | 77.60 | 26.461 | | |
| 7,800.00 | 6,948.99 | 7,907.90 | 7,244.13 | 41.35 | 39.93 | 98.26 | 337.06 | -1,065.14 | 2,053.32 | 1,972.60 | 80.72 | 25.438 | | |
| 7,900.00 | 6,948.61 | 8,007.90 | 7,243.82 | 42.86 | 41.69 | 98.27 | 336.29 | -1,165.14 | 2,053.16 | 1,969.06 | 84.10 | 24.413 | | |
| 8,000.00 | 6,948.23 | 8,107.90 | 7,243.51 | 44.53 | 43.56 | 98.27 | 335.53 | -1,265.14 | 2,053.00 | 1,965.29 | 87.72 | 23.405 | | |
| 8,100.00 | 6,947.85 | 8,207.90 | 7,243.19 | 46.34 | 45.54 | 98.27 | 334.76 | -1,365.13 | 2,052.85 | 1,961.31 | 91.54 | 22.426 | | |
| 8,200.00 | 6,947.47 | 8,307.90 | 7,242.88 | 48.26 | 47.61 | 98.27 | 333.99 | -1,465.13 | 2,052.69 | 1,957.14 | 95.54 | 21.484 | | |
| 8,300.00 | 6,947.09 | 8,407.90 | 7,242.57 | 50.28 | 49.75 | 98.28 | 333.22 | -1,565.12 | 2,052.53 | 1,952.82 | 99.71 | 20.585 | | |
| 8,400.00 | 6,946.72 | 8,507.90 | 7,242.26 | 52.39 | 51.96 | 98.28 | 332.46 | -1,665.12 | 2,052.37 | 1,948.36 | 104.02 | 19.731 | | |
| 8,500.00 | 6,946.34 | 8,607.90 | 7,241.95 | 54.56 | 54.24 | 98.28 | 331.69 | -1,765.12 | 2,052.22 | 1,943.77 | 108.45 | 18.923 | | |
| 8,600.00 | 6,945.96 | 8,707.90 | 7,241.63 | 56.80 | 56.56 | 98.28 | 330.92 | -1,865.11 | 2,052.06 | 1,939.07 | 112.99 | 18.161 | | |
| 8,700.00 | 6,945.58 | 8,807.90 | 7,241.32 | 59.10 | 58.94 | 98.29 | 330.15 | -1,965.11 | 2,051.90 | 1,934.27 | 117.63 | 17.444 | | |
| 8,800.00 | 6,945.20 | 8,907.90 | 7,241.01 | 61.44 | 61.35 | 98.29 | 329.39 | -2,065.11 | 2,051.74 | 1,929.39 | 122.36 | 16.769 | | |
| 8,900.00 | 6,944.82 | 9,007.90 | 7,240.70 | 63.83 | 63.80 | 98.29 | 328.62 | -2,165.10 | 2,051.59 | 1,924.43 | 127.16 | 16.134 | | |
| 9,000.00 | 6,944.44 | 9,107.90 | 7,240.39 | 66.25 | 66.29 | 98.30 | 327.85 | -2,265.10 | 2,051.43 | 1,919.40 | 132.03 | 15.538 | | |
| 9,100.00 | 6,944.06 | 9,207.90 | 7,240.07 | 68.71 | 68.80 | 98.30 | 327.08 | -2,365.10 | 2,051.27 | 1,914.32 | 136.96 | 14.978 | | |
| 9,200.00 | 6,943.68 | 9,307.90 | 7,239.76 | 71.20 | 71.34 | 98.30 | 326.32 | -2,465.09 | 2,051.11 | 1,909.17 | 141.94 | 14.450 | | |
| 9,300.00 | 6,943.30 | 9,392.10 | 7,239.45 | 73.72 | 73.49 | 98.30 | 325.55 | -2,565.09 | 2,050.96 | 1,904.38 | 146.57 | 13.993 | | |
| 9,400.00 | 6,942.92 | 9,507.90 | 7,239.14 | 76.26 | 76.48 | 98.31 | 324.78 | -2,665.09 | 2,050.80 | 1,898.75 | 152.05 | 13.487 | | |
| 9,500.00 | 6,942.54 | 9,607.90 | 7,238.83 | 78.82 | 79.09 | 98.31 | 324.01 | -2,765.08 | 2,050.64 | 1,893.47 | 157.17 | 13.047 | | |
| 9,600.00 | 6,942.16 | 9,707.90 | 7,238.51 | 81.40 | 81.70 | 98.31 | 323.25 | -2,865.08 | 2,050.48 | 1,888.16 | 162.32 | 12.632 | | |
| 9,700.00 | 6,941.78 | 9,807.90 | 7,238.20 | 84.00 | 84.34 | 98.31 | 322.48 | -2,965.07 | 2,050.33 | 1,882.82 | 167.51 | 12.240 | | |
| 9,800.00 | 6,941.40 | 9,907.90 | 7,237.89 | 86.62 | 86.99 | 98.32 | 321.71 | -3,065.07 | 2,050.17 | 1,877.44 | 172.73 | 11.870 | | |
| 9,900.00 | 6,941.03 | 10,007.90 | 7,237.58 | 89.25 | 89.65 | 98.32 | 320.94 | -3,165.07 | 2,050.01 | 1,872.04 | 177.97 | 11.519 | | |
| 10,000.00 | 6,940.65 | 10,107.90 | 7,237.27 | 91.90 | 92.32 | 98.32 | 320.18 | -3,265.06 | 2,049.86 | 1,866.62 | 183.24 | 11.187 | | |
| 10,100.00 | 6,940.27 | 10,207.90 | 7,236.96 | 94.56 | 95.01 | 98.32 | 319.41 | -3,365.06 | 2,049.70 | 1,861.17 | 188.53 | 10.872 | | |
| 10,200.00 | 6,939.89 | 10,307.90 | 7,236.64 | 97.23 | 97.70 | 98.33 | 318.64 | -3,465.06 | 2,049.54 | 1,855.70 | 193.84 | 10.573 | | |
| 10,300.00 | 6,939.51 | 10,407.90 | 7,236.33 | 99.91 | 100.41 | 98.33 | 317.87 | -3,565.05 | 2,049.38 | 1,850.21 | 199.17 | 10.290 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 5C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,507.90 | 7,236.02 | 102.60 | 103.12 | 98.33 | 317.11 | -3,665.05 | 2,049.23 | 1,844.71 | 204.52 | 10.020 | | |
| 10,500.00 | 6,938.75 | 10,607.90 | 7,235.71 | 105.30 | 105.84 | 98.33 | 316.34 | -3,765.05 | 2,049.07 | 1,839.19 | 209.88 | 9.763 | | |
| 10,600.00 | 6,938.37 | 10,707.90 | 7,235.40 | 108.00 | 108.56 | 98.34 | 315.57 | -3,865.04 | 2,048.91 | 1,833.65 | 215.26 | 9.518 | | |
| 10,700.00 | 6,937.99 | 10,807.90 | 7,235.08 | 110.72 | 111.30 | 98.34 | 314.80 | -3,965.04 | 2,048.75 | 1,828.10 | 220.65 | 9.285 | | |
| 10,800.00 | 6,937.61 | 10,907.90 | 7,234.77 | 113.44 | 114.04 | 98.34 | 314.03 | -4,065.03 | 2,048.60 | 1,822.54 | 226.06 | 9.062 | | |
| 10,900.00 | 6,937.23 | 11,007.90 | 7,234.46 | 116.17 | 116.78 | 98.34 | 313.27 | -4,165.03 | 2,048.44 | 1,816.96 | 231.48 | 8.849 | | |
| 11,000.00 | 6,936.85 | 11,092.10 | 7,234.15 | 118.90 | 119.10 | 98.35 | 312.50 | -4,265.03 | 2,048.28 | 1,811.80 | 236.48 | 8.662 | | |
| 11,100.00 | 6,936.47 | 11,207.90 | 7,233.84 | 121.64 | 122.29 | 98.35 | 311.73 | -4,365.02 | 2,048.12 | 1,805.77 | 242.35 | 8.451 | | |
| 11,200.00 | 6,936.09 | 11,307.90 | 7,233.52 | 124.39 | 125.05 | 98.35 | 310.96 | -4,465.02 | 2,047.97 | 1,800.17 | 247.80 | 8.265 | | |
| 11,300.00 | 6,935.71 | 11,407.90 | 7,233.21 | 127.14 | 127.81 | 98.35 | 310.20 | -4,565.02 | 2,047.81 | 1,794.55 | 253.26 | 8.086 | | |
| 11,400.00 | 6,935.34 | 11,507.90 | 7,232.90 | 129.90 | 130.58 | 98.36 | 309.43 | -4,665.01 | 2,047.65 | 1,788.93 | 258.73 | 7.914 | | |
| 11,500.00 | 6,934.96 | 11,607.90 | 7,232.59 | 132.66 | 133.35 | 98.36 | 308.66 | -4,765.01 | 2,047.49 | 1,783.29 | 264.20 | 7.750 | | |
| 11,600.00 | 6,934.58 | 11,707.90 | 7,232.28 | 135.42 | 136.13 | 98.36 | 307.89 | -4,865.01 | 2,047.34 | 1,777.65 | 269.68 | 7.592 | | |
| 11,700.00 | 6,934.20 | 11,807.90 | 7,231.96 | 138.19 | 138.90 | 98.36 | 307.13 | -4,965.00 | 2,047.18 | 1,772.00 | 275.18 | 7.440 | | |
| 11,800.00 | 6,933.82 | 11,907.90 | 7,231.65 | 140.96 | 141.69 | 98.37 | 306.36 | -5,065.00 | 2,047.02 | 1,766.35 | 280.67 | 7.293 | | |
| 11,900.00 | 6,933.44 | 12,007.90 | 7,231.34 | 143.74 | 144.47 | 98.37 | 305.59 | -5,165.00 | 2,046.87 | 1,760.69 | 286.18 | 7.152 | | |
| 12,000.00 | 6,933.06 | 12,092.10 | 7,231.03 | 146.51 | 146.82 | 98.37 | 304.82 | -5,264.99 | 2,046.71 | 1,755.46 | 291.25 | 7.027 | | |
| 12,100.00 | 6,932.68 | 12,207.90 | 7,230.72 | 149.30 | 150.05 | 98.37 | 304.06 | -5,364.99 | 2,046.55 | 1,749.35 | 297.20 | 6.886 | | |
| 12,200.00 | 6,932.30 | 12,307.90 | 7,230.41 | 152.08 | 152.84 | 98.38 | 303.29 | -5,464.98 | 2,046.39 | 1,743.67 | 302.72 | 6.760 | | |
| 12,300.00 | 6,931.92 | 12,392.10 | 7,230.09 | 154.87 | 155.20 | 98.38 | 302.52 | -5,564.98 | 2,046.24 | 1,738.43 | 307.81 | 6.648 | | |
| 12,400.00 | 6,931.54 | 12,507.90 | 7,229.78 | 157.66 | 158.44 | 98.38 | 301.75 | -5,664.98 | 2,046.08 | 1,732.30 | 313.77 | 6.521 | | |
| 12,500.00 | 6,931.16 | 12,607.90 | 7,229.47 | 160.45 | 161.24 | 98.38 | 300.99 | -5,764.97 | 2,045.92 | 1,726.61 | 319.31 | 6.407 | | |
| 12,600.00 | 6,930.78 | 12,707.90 | 7,229.16 | 163.24 | 164.04 | 98.39 | 300.22 | -5,864.97 | 2,045.76 | 1,720.92 | 324.85 | 6.298 | | |
| 12,700.00 | 6,930.40 | 12,807.90 | 7,228.85 | 166.04 | 166.84 | 98.39 | 299.45 | -5,964.97 | 2,045.61 | 1,715.22 | 330.39 | 6.192 | | |
| 12,800.00 | 6,930.03 | 12,907.90 | 7,228.53 | 168.84 | 169.65 | 98.39 | 298.68 | -6,064.96 | 2,045.45 | 1,709.51 | 335.94 | 6.089 | | |
| 12,900.00 | 6,929.65 | 12,992.10 | 7,228.22 | 171.64 | 172.01 | 98.39 | 297.92 | -6,164.96 | 2,045.29 | 1,704.25 | 341.05 | 5.997 | | |
| 13,000.00 | 6,929.27 | 13,107.90 | 7,227.91 | 174.44 | 175.26 | 98.40 | 297.15 | -6,264.96 | 2,045.13 | 1,698.10 | 347.04 | 5.893 | | |
| 13,100.00 | 6,928.89 | 13,207.91 | 7,227.60 | 177.24 | 178.07 | 98.40 | 296.38 | -6,364.95 | 2,044.98 | 1,692.38 | 352.59 | 5.800 | | |
| 13,200.00 | 6,928.51 | 13,307.91 | 7,227.29 | 180.05 | 180.89 | 98.40 | 295.61 | -6,464.95 | 2,044.82 | 1,686.67 | 358.15 | 5.709 | | |
| 13,300.00 | 6,928.13 | 13,407.91 | 7,226.97 | 182.86 | 183.70 | 98.40 | 294.85 | -6,564.94 | 2,044.66 | 1,680.95 | 363.72 | 5.622 | | |
| 13,400.00 | 6,927.75 | 13,507.91 | 7,226.66 | 185.67 | 186.51 | 98.41 | 294.08 | -6,664.94 | 2,044.51 | 1,675.22 | 369.28 | 5.536 | | |
| 13,500.00 | 6,927.37 | 13,592.09 | 7,226.35 | 188.48 | 188.88 | 98.41 | 293.31 | -6,764.94 | 2,044.35 | 1,669.94 | 374.41 | 5.460 | | |
| 13,600.00 | 6,926.99 | 13,707.91 | 7,226.04 | 191.29 | 192.15 | 98.41 | 292.54 | -6,864.93 | 2,044.19 | 1,663.77 | 380.42 | 5.373 | | |
| 13,700.00 | 6,926.61 | 13,807.91 | 7,225.73 | 194.10 | 194.97 | 98.42 | 291.77 | -6,964.93 | 2,044.03 | 1,658.04 | 385.99 | 5.295 | | |
| 13,800.00 | 6,926.23 | 13,907.91 | 7,225.41 | 196.92 | 197.79 | 98.42 | 291.01 | -7,064.93 | 2,043.88 | 1,652.31 | 391.57 | 5.220 | | |
| 13,900.00 | 6,925.85 | 14,007.91 | 7,225.10 | 199.73 | 200.61 | 98.42 | 290.24 | -7,164.92 | 2,043.72 | 1,646.57 | 397.15 | 5.146 | | |
| 14,000.00 | 6,925.47 | 14,107.91 | 7,224.79 | 202.55 | 203.43 | 98.42 | 289.47 | -7,264.92 | 2,043.56 | 1,640.83 | 402.73 | 5.074 | | |
| 14,100.00 | 6,925.09 | 14,207.91 | 7,224.48 | 205.37 | 206.25 | 98.43 | 288.70 | -7,364.92 | 2,043.40 | 1,635.09 | 408.31 | 5.005 | | |
| 14,200.00 | 6,924.71 | 14,307.91 | 7,224.17 | 208.19 | 209.07 | 98.43 | 287.94 | -7,464.91 | 2,043.25 | 1,629.35 | 413.89 | 4.937 | | |
| 14,300.00 | 6,924.34 | 14,407.91 | 7,223.85 | 211.01 | 211.90 | 98.43 | 287.17 | -7,564.91 | 2,043.09 | 1,623.61 | 419.48 | 4.871 | | |
| 14,400.00 | 6,923.96 | 14,507.91 | 7,223.54 | 213.83 | 214.73 | 98.43 | 286.40 | -7,664.91 | 2,042.93 | 1,617.86 | 425.07 | 4.806 | | |
| 14,500.00 | 6,923.58 | 14,607.91 | 7,223.23 | 216.65 | 217.55 | 98.44 | 285.63 | -7,764.90 | 2,042.78 | 1,612.12 | 430.66 | 4.743 | | |
| 14,600.00 | 6,923.20 | 14,707.91 | 7,222.92 | 219.48 | 220.38 | 98.44 | 284.87 | -7,864.90 | 2,042.62 | 1,606.37 | 436.25 | 4.682 | | |
| 14,700.00 | 6,922.82 | 14,807.91 | 7,222.61 | 222.30 | 223.21 | 98.44 | 284.10 | -7,964.89 | 2,042.46 | 1,600.62 | 441.84 | 4.623 | | |
| 14,800.00 | 6,922.44 | 14,907.91 | 7,222.30 | 225.13 | 226.04 | 98.44 | 283.33 | -8,064.89 | 2,042.30 | 1,594.87 | 447.44 | 4.564 | | |
| 14,900.00 | 6,922.06 | 14,992.09 | 7,221.98 | 227.95 | 228.42 | 98.45 | 282.56 | -8,164.89 | 2,042.15 | 1,589.56 | 452.59 | 4.512 | | |
| 14,903.14 | 6,922.05 | 14,995.23 | 7,221.97 | 228.04 | 228.51 | 98.45 | 282.54 | -8,168.03 | 2,042.14 | 1,589.38 | 452.77 | 4.510 | | |
| 14,915.55 | 6,922.00 | 14,987.41 | 7,222.00 | 228.39 | 228.28 | 98.45 | 282.60 | -8,160.21 | 2,042.22 | 1,589.40 | 452.82 | 4.510 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 12N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | 0.00 | 20.03 | 0.00 | 20.03 | | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 3.28 | 3.28 | 0.00 | 20.03 | 0.00 | 20.03 | 13.46 | 6.57 | 3.049 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 3.34 | 3.34 | 0.00 | 20.03 | 0.00 | 20.03 | 13.36 | 6.67 | 3.002 | | |
| 300.00 | 299.98 | 300.70 | 300.68 | 3.44 | 3.44 | 174.55 | 18.27 | -0.19 | 20.02 | 13.13 | 6.89 | 2.906 | | |
| 400.00 | 399.84 | 401.40 | 401.23 | 3.59 | 3.59 | 174.36 | 13.00 | -0.75 | 19.99 | 12.78 | 7.22 | 2.770 | | |
| 500.00 | 499.45 | 502.10 | 501.54 | 3.79 | 3.80 | 174.03 | 4.21 | -1.69 | 19.94 | 12.30 | 7.65 | 2.608 | | |
| 600.00 | 598.70 | 602.79 | 601.47 | 4.03 | 4.04 | 173.57 | -8.08 | -3.00 | 19.88 | 11.71 | 8.17 | 2.434 | | |
| 700.00 | 697.47 | 703.48 | 700.89 | 4.31 | 4.32 | 172.97 | -23.85 | -4.68 | 19.79 | 11.04 | 8.75 | 2.261 | | |
| 800.00 | 795.62 | 804.17 | 799.70 | 4.64 | 4.65 | 172.23 | -43.08 | -6.73 | 19.69 | 10.29 | 9.40 | 2.094 | | |
| 850.12 | 844.56 | 854.63 | 848.95 | 4.82 | 4.83 | 171.81 | -54.02 | -7.90 | 19.64 | 9.89 | 9.74 | 2.015 CC | | |
| 900.00 | 893.06 | 904.47 | 897.52 | 5.00 | 5.01 | 171.60 | -65.16 | -9.08 | 20.10 | 10.02 | 10.07 | 1.995 | | |
| 1,000.00 | 989.78 | 1,004.43 | 994.91 | 5.39 | 5.40 | 172.00 | -87.50 | -11.47 | 23.09 | 12.31 | 10.78 | 2.142 | | |
| 1,100.00 | 1,086.42 | 1,104.37 | 1,092.30 | 5.81 | 5.81 | 172.41 | -109.84 | -13.85 | 26.42 | 14.91 | 11.52 | 2.294 | | |
| 1,200.00 | 1,183.06 | 1,204.32 | 1,189.68 | 6.25 | 6.24 | 172.73 | -132.18 | -16.23 | 29.76 | 17.47 | 12.29 | 2.422 | | |
| 1,300.00 | 1,279.69 | 1,304.26 | 1,287.07 | 6.71 | 6.67 | 172.98 | -154.53 | -18.61 | 33.10 | 20.01 | 13.09 | 2.529 | | |
| 1,400.00 | 1,376.33 | 1,404.20 | 1,384.46 | 7.17 | 7.12 | 173.19 | -176.87 | -21.00 | 36.44 | 22.53 | 13.91 | 2.620 | | |
| 1,500.00 | 1,472.97 | 1,504.15 | 1,481.84 | 7.65 | 7.58 | 173.37 | -199.21 | -23.38 | 39.79 | 25.04 | 14.75 | 2.697 | | |
| 1,600.00 | 1,569.61 | 1,604.09 | 1,579.23 | 8.13 | 8.05 | 173.51 | -221.55 | -25.76 | 43.13 | 27.52 | 15.61 | 2.763 | | |
| 1,700.00 | 1,666.24 | 1,704.04 | 1,676.61 | 8.62 | 8.52 | 173.64 | -243.90 | -28.15 | 46.47 | 29.99 | 16.47 | 2.821 | | |
| 1,800.00 | 1,762.88 | 1,803.98 | 1,774.00 | 9.12 | 9.00 | 173.74 | -266.24 | -30.53 | 49.81 | 32.46 | 17.35 | 2.870 | | |
| 1,900.00 | 1,859.52 | 1,903.93 | 1,871.38 | 9.62 | 9.48 | 173.84 | -288.58 | -32.91 | 53.15 | 34.91 | 18.24 | 2.914 | | |
| 2,000.00 | 1,956.16 | 2,003.87 | 1,968.77 | 10.13 | 9.97 | 173.92 | -310.92 | -35.29 | 56.50 | 37.36 | 19.14 | 2.952 | | |
| 2,100.00 | 2,052.79 | 2,103.81 | 2,066.15 | 10.64 | 10.46 | 174.00 | -333.26 | -37.68 | 59.84 | 39.79 | 20.04 | 2.985 | | |
| 2,200.00 | 2,149.43 | 2,203.76 | 2,163.54 | 11.15 | 10.95 | 174.06 | -355.61 | -40.06 | 63.18 | 42.23 | 20.95 | 3.015 | | |
| 2,300.00 | 2,246.07 | 2,303.70 | 2,260.93 | 11.66 | 11.44 | 174.12 | -377.95 | -42.44 | 66.52 | 44.65 | 21.87 | 3.042 | | |
| 2,400.00 | 2,342.71 | 2,403.65 | 2,358.31 | 12.18 | 11.94 | 174.18 | -400.29 | -44.82 | 69.87 | 47.07 | 22.79 | 3.065 | | |
| 2,500.00 | 2,439.34 | 2,503.59 | 2,455.70 | 12.70 | 12.44 | 174.23 | -422.63 | -47.21 | 73.21 | 49.49 | 23.72 | 3.087 | | |
| 2,600.00 | 2,535.98 | 2,603.53 | 2,553.08 | 13.22 | 12.94 | 174.27 | -444.98 | -49.59 | 76.55 | 51.91 | 24.64 | 3.106 | | |
| 2,700.00 | 2,632.62 | 2,703.48 | 2,650.47 | 13.75 | 13.44 | 174.31 | -467.32 | -51.97 | 79.89 | 54.32 | 25.58 | 3.124 | | |
| 2,800.00 | 2,729.26 | 2,803.42 | 2,747.85 | 14.27 | 13.94 | 174.35 | -489.66 | -54.35 | 83.24 | 56.72 | 26.51 | 3.140 | | |
| 2,900.00 | 2,825.89 | 2,903.37 | 2,845.24 | 14.80 | 14.45 | 174.38 | -512.00 | -56.74 | 86.58 | 59.13 | 27.45 | 3.154 | | |
| 3,000.00 | 2,922.53 | 3,003.31 | 2,942.63 | 15.32 | 14.95 | 174.42 | -534.34 | -59.12 | 89.92 | 61.53 | 28.39 | 3.168 | | |
| 3,100.00 | 3,019.17 | 3,103.25 | 3,040.01 | 15.85 | 15.46 | 174.45 | -556.69 | -61.50 | 93.26 | 63.93 | 29.33 | 3.180 | | |
| 3,200.00 | 3,115.81 | 3,203.20 | 3,137.40 | 16.38 | 15.97 | 174.47 | -579.03 | -63.88 | 96.61 | 66.33 | 30.27 | 3.191 | | |
| 3,300.00 | 3,212.44 | 3,303.14 | 3,234.78 | 16.91 | 16.47 | 174.50 | -601.37 | -66.27 | 99.95 | 68.73 | 31.22 | 3.202 | | |
| 3,400.00 | 3,309.08 | 3,403.09 | 3,332.17 | 17.44 | 16.98 | 174.52 | -623.71 | -68.65 | 103.29 | 71.13 | 32.17 | 3.211 | | |
| 3,500.00 | 3,405.72 | 3,503.03 | 3,429.55 | 17.97 | 17.49 | 174.55 | -646.06 | -71.03 | 106.64 | 73.52 | 33.12 | 3.220 | | |
| 3,600.00 | 3,502.36 | 3,602.97 | 3,526.94 | 18.50 | 18.00 | 174.57 | -668.40 | -73.41 | 109.98 | 75.91 | 34.07 | 3.228 | | |
| 3,700.00 | 3,598.99 | 3,702.92 | 3,624.33 | 19.03 | 18.51 | 174.59 | -690.74 | -75.80 | 113.32 | 78.30 | 35.02 | 3.236 | | |
| 3,800.00 | 3,695.63 | 3,802.86 | 3,721.71 | 19.57 | 19.02 | 174.61 | -713.08 | -78.18 | 116.66 | 80.69 | 35.97 | 3.243 | | |
| 3,900.00 | 3,792.27 | 3,902.81 | 3,819.10 | 20.10 | 19.54 | 174.62 | -735.43 | -80.56 | 120.01 | 83.08 | 36.92 | 3.250 | | |
| 4,000.00 | 3,888.91 | 4,002.75 | 3,916.48 | 20.63 | 20.05 | 174.64 | -757.77 | -82.94 | 123.35 | 85.47 | 37.88 | 3.257 | | |
| 4,100.00 | 3,985.54 | 4,102.70 | 4,013.87 | 21.17 | 20.56 | 174.66 | -780.11 | -85.33 | 126.69 | 87.86 | 38.83 | 3.262 | | |
| 4,200.00 | 4,082.18 | 4,202.64 | 4,111.25 | 21.70 | 21.07 | 174.67 | -802.45 | -87.71 | 130.04 | 90.25 | 39.79 | 3.268 | | |
| 4,300.00 | 4,178.82 | 4,302.58 | 4,208.64 | 22.24 | 21.59 | 174.69 | -824.79 | -90.09 | 133.38 | 92.63 | 40.75 | 3.273 | | |
| 4,400.00 | 4,275.46 | 4,402.53 | 4,306.03 | 22.77 | 22.10 | 174.70 | -847.14 | -92.47 | 136.72 | 95.02 | 41.70 | 3.278 | | |
| 4,500.00 | 4,372.09 | 4,502.47 | 4,403.41 | 23.31 | 22.61 | 174.71 | -869.48 | -94.86 | 140.06 | 97.40 | 42.66 | 3.283 | | |
| 4,600.00 | 4,468.73 | 4,602.42 | 4,500.80 | 23.84 | 23.13 | 174.73 | -891.82 | -97.24 | 143.41 | 99.79 | 43.62 | 3.287 | | |
| 4,700.00 | 4,565.37 | 4,702.36 | 4,598.18 | 24.38 | 23.64 | 174.74 | -914.16 | -99.62 | 146.75 | 102.17 | 44.58 | 3.292 | | |
| 4,800.00 | 4,662.01 | 4,802.30 | 4,695.57 | 24.91 | 24.16 | 174.75 | -936.51 | -102.00 | 150.09 | 104.55 | 45.54 | 3.296 | | |
| 4,900.00 | 4,758.64 | 4,902.25 | 4,792.95 | 25.45 | 24.67 | 174.76 | -958.85 | -104.39 | 153.44 | 106.93 | 46.50 | 3.299 | | |
| 5,000.00 | 4,855.28 | 5,002.19 | 4,890.34 | 25.99 | 25.18 | 174.77 | -981.19 | -106.77 | 156.78 | 109.32 | 47.46 | 3.303 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 12N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 5,102.14 | 4,987.73 | 26.53 | 25.70 | 174.78 | -1,003.53 | -109.15 | 160.12 | 111.70 | 48.43 | 3.307 | | |
| 5,200.00 | 5,048.56 | 5,202.08 | 5,085.11 | 27.06 | 26.22 | 174.79 | -1,025.87 | -111.54 | 163.47 | 114.08 | 49.39 | 3.310 | | |
| 5,300.00 | 5,145.19 | 5,302.02 | 5,182.50 | 27.60 | 26.73 | 174.80 | -1,048.22 | -113.92 | 166.81 | 116.46 | 50.35 | 3.313 | | |
| 5,400.00 | 5,241.83 | 5,401.97 | 5,279.88 | 28.14 | 27.25 | 174.81 | -1,070.56 | -116.30 | 170.15 | 118.84 | 51.31 | 3.316 | | |
| 5,500.00 | 5,338.47 | 5,501.91 | 5,377.27 | 28.67 | 27.76 | 174.82 | -1,092.90 | -118.68 | 173.49 | 121.22 | 52.28 | 3.319 | | |
| 5,600.00 | 5,435.11 | 5,601.86 | 5,474.65 | 29.21 | 28.28 | 174.83 | -1,115.24 | -121.07 | 176.84 | 123.60 | 53.24 | 3.321 | | |
| 5,700.00 | 5,531.74 | 5,701.80 | 5,572.04 | 29.75 | 28.79 | 174.83 | -1,137.59 | -123.45 | 180.18 | 125.98 | 54.21 | 3.324 | | |
| 5,800.00 | 5,628.38 | 5,801.75 | 5,669.43 | 30.29 | 29.31 | 174.84 | -1,159.93 | -125.83 | 183.52 | 128.35 | 55.17 | 3.327 | | |
| 5,900.00 | 5,725.02 | 5,901.69 | 5,766.81 | 30.83 | 29.83 | 174.85 | -1,182.27 | -128.21 | 186.87 | 130.73 | 56.13 | 3.329 | | |
| 6,000.00 | 5,821.66 | 6,001.63 | 5,864.20 | 31.37 | 30.34 | 174.86 | -1,204.61 | -130.60 | 190.21 | 133.11 | 57.10 | 3.331 | | |
| 6,100.00 | 5,918.29 | 6,101.58 | 5,961.58 | 31.90 | 30.86 | 174.86 | -1,226.95 | -132.98 | 193.55 | 135.49 | 58.07 | 3.333 | | |
| 6,200.00 | 6,014.93 | 6,201.52 | 6,058.97 | 32.44 | 31.38 | 174.87 | -1,249.30 | -135.36 | 196.90 | 137.87 | 59.03 | 3.335 | | |
| 6,300.00 | 6,111.57 | 6,301.47 | 6,156.35 | 32.98 | 31.89 | 174.87 | -1,271.64 | -137.74 | 200.24 | 140.24 | 60.00 | 3.338 | | |
| 6,400.00 | 6,208.21 | 6,401.41 | 6,253.74 | 33.52 | 32.41 | 174.88 | -1,293.98 | -140.13 | 203.58 | 142.62 | 60.96 | 3.339 | | |
| 6,500.00 | 6,304.84 | 6,501.35 | 6,351.12 | 34.06 | 32.93 | 174.89 | -1,316.32 | -142.51 | 206.93 | 145.00 | 61.93 | 3.341 | | |
| 6,600.00 | 6,401.37 | 6,601.24 | 6,448.45 | 34.60 | 33.44 | 158.63 | -1,338.65 | -144.89 | 210.30 | 147.41 | 62.88 | 3.344 | | |
| 6,700.00 | 6,496.25 | 6,702.02 | 6,546.22 | 35.12 | 33.96 | 138.50 | -1,361.12 | -153.46 | 214.01 | 150.20 | 63.81 | 3.354 | | |
| 6,800.00 | 6,587.15 | 6,804.55 | 6,643.07 | 35.59 | 34.46 | 128.36 | -1,383.49 | -178.18 | 218.03 | 153.32 | 64.71 | 3.370 | | |
| 6,900.00 | 6,671.83 | 6,908.78 | 6,736.23 | 36.03 | 34.92 | 123.38 | -1,405.11 | -219.31 | 222.18 | 156.66 | 65.52 | 3.391 | | |
| 7,000.00 | 6,748.21 | 7,014.66 | 6,822.87 | 36.41 | 35.35 | 120.91 | -1,425.35 | -276.48 | 226.26 | 160.03 | 66.23 | 3.416 | | |
| 7,100.00 | 6,814.41 | 7,122.09 | 6,900.09 | 36.76 | 35.73 | 119.70 | -1,443.52 | -348.73 | 230.06 | 163.18 | 66.88 | 3.440 | | |
| 7,200.00 | 6,868.79 | 7,230.90 | 6,965.11 | 37.07 | 36.08 | 119.15 | -1,458.99 | -434.44 | 233.36 | 165.76 | 67.59 | 3.452 | | |
| 7,300.00 | 6,910.01 | 7,340.87 | 7,015.39 | 37.39 | 36.44 | 118.92 | -1,471.15 | -531.32 | 235.97 | 167.41 | 68.56 | 3.442 | | |
| 7,400.00 | 6,937.07 | 7,451.68 | 7,048.87 | 37.76 | 36.88 | 118.84 | -1,479.51 | -636.47 | 237.75 | 167.78 | 69.97 | 3.398 | | |
| 7,500.00 | 6,949.29 | 7,562.98 | 7,064.11 | 38.27 | 37.55 | 118.81 | -1,483.72 | -746.50 | 238.59 | 166.62 | 71.96 | 3.315 | | |
| 7,600.00 | 6,949.75 | 7,666.64 | 7,064.85 | 39.02 | 38.47 | 118.83 | -1,484.56 | -850.15 | 238.69 | 164.40 | 74.29 | 3.213 | | |
| 7,700.00 | 6,949.37 | 7,766.64 | 7,064.62 | 40.05 | 39.63 | 118.86 | -1,485.16 | -950.14 | 238.77 | 161.96 | 76.81 | 3.109 | | |
| 7,800.00 | 6,948.99 | 7,866.64 | 7,064.39 | 41.35 | 41.02 | 118.89 | -1,485.76 | -1,050.14 | 238.84 | 159.27 | 79.57 | 3.002 | | |
| 7,900.00 | 6,948.61 | 7,966.64 | 7,064.16 | 42.86 | 42.59 | 118.92 | -1,486.36 | -1,150.14 | 238.91 | 156.36 | 82.55 | 2.894 | | |
| 8,000.00 | 6,948.23 | 8,066.64 | 7,063.93 | 44.53 | 44.31 | 118.95 | -1,486.96 | -1,250.14 | 238.98 | 153.26 | 85.72 | 2.788 | | |
| 8,100.00 | 6,947.85 | 8,166.64 | 7,063.70 | 46.34 | 46.15 | 118.99 | -1,487.56 | -1,350.14 | 239.05 | 149.99 | 89.07 | 2.684 | | |
| 8,200.00 | 6,947.47 | 8,266.64 | 7,063.47 | 48.26 | 48.10 | 119.02 | -1,488.16 | -1,450.13 | 239.13 | 146.56 | 92.57 | 2.583 | | |
| 8,300.00 | 6,947.09 | 8,366.64 | 7,063.23 | 50.28 | 50.14 | 119.05 | -1,488.76 | -1,550.13 | 239.20 | 142.99 | 96.21 | 2.486 | | |
| 8,400.00 | 6,946.72 | 8,466.64 | 7,063.00 | 52.39 | 52.26 | 119.08 | -1,489.35 | -1,650.13 | 239.27 | 139.29 | 99.98 | 2.393 | | |
| 8,500.00 | 6,946.34 | 8,566.64 | 7,062.77 | 54.56 | 54.45 | 119.11 | -1,489.95 | -1,750.13 | 239.34 | 135.50 | 103.85 | 2.305 | | |
| 8,600.00 | 6,945.96 | 8,666.64 | 7,062.54 | 56.80 | 56.70 | 119.14 | -1,490.55 | -1,850.13 | 239.42 | 131.60 | 107.82 | 2.221 | | |
| 8,700.00 | 6,945.58 | 8,766.64 | 7,062.31 | 59.10 | 59.00 | 119.17 | -1,491.15 | -1,950.12 | 239.49 | 127.62 | 111.87 | 2.141 | | |
| 8,800.00 | 6,945.20 | 8,866.64 | 7,062.08 | 61.44 | 61.35 | 119.20 | -1,491.75 | -2,050.12 | 239.56 | 123.56 | 116.00 | 2.065 | | |
| 8,900.00 | 6,944.82 | 8,966.64 | 7,061.85 | 63.83 | 63.75 | 119.23 | -1,492.35 | -2,150.12 | 239.63 | 119.43 | 120.20 | 1.994 | | |
| 9,000.00 | 6,944.44 | 9,066.64 | 7,061.62 | 66.25 | 66.18 | 119.27 | -1,492.95 | -2,250.12 | 239.71 | 115.24 | 124.46 | 1.926 | | |
| 9,100.00 | 6,944.06 | 9,166.64 | 7,061.39 | 68.71 | 68.65 | 119.30 | -1,493.55 | -2,350.11 | 239.78 | 111.00 | 128.78 | 1.862 | | |
| 9,200.00 | 6,943.68 | 9,266.64 | 7,061.16 | 71.20 | 71.14 | 119.33 | -1,494.15 | -2,450.11 | 239.85 | 106.71 | 133.14 | 1.801 | | |
| 9,300.00 | 6,943.30 | 9,366.64 | 7,060.93 | 73.72 | 73.66 | 119.36 | -1,494.74 | -2,550.11 | 239.92 | 102.37 | 137.55 | 1.744 | | |
| 9,400.00 | 6,942.92 | 9,466.64 | 7,060.70 | 76.26 | 76.21 | 119.39 | -1,495.34 | -2,650.11 | 240.00 | 98.00 | 142.00 | 1.690 | | |
| 9,500.00 | 6,942.54 | 9,566.64 | 7,060.47 | 78.82 | 78.78 | 119.42 | -1,495.94 | -2,750.11 | 240.07 | 93.59 | 146.48 | 1.639 | | |
| 9,600.00 | 6,942.16 | 9,666.64 | 7,060.24 | 81.40 | 81.36 | 119.45 | -1,496.54 | -2,850.10 | 240.14 | 89.15 | 151.00 | 1.590 | | |
| 9,700.00 | 6,941.78 | 9,766.64 | 7,060.01 | 84.00 | 83.97 | 119.48 | -1,497.14 | -2,950.10 | 240.22 | 84.67 | 155.54 | 1.544 | | |
| 9,800.00 | 6,941.40 | 9,866.64 | 7,059.78 | 86.62 | 86.59 | 119.51 | -1,497.74 | -3,050.10 | 240.29 | 80.18 | 160.11 | 1.501 | | |
| 9,900.00 | 6,941.03 | 9,966.64 | 7,059.55 | 89.25 | 89.23 | 119.54 | -1,498.34 | -3,150.10 | 240.36 | 75.65 | 164.71 | 1.459 Level 3 | | |
| 10,000.00 | 6,940.65 | 10,066.64 | 7,059.32 | 91.90 | 91.87 | 119.58 | -1,498.94 | -3,250.10 | 240.44 | 71.11 | 169.33 | 1.420 Level 3 | | |
| 10,100.00 | 6,940.27 | 10,166.64 | 7,059.09 | 94.56 | 94.54 | 119.61 | -1,499.53 | -3,350.09 | 240.51 | 66.54 | 173.96 | 1.383 Level 3 | | |
| 10,200.00 | 6,939.89 | 10,266.64 | 7,058.86 | 97.23 | 97.21 | 119.64 | -1,500.13 | -3,450.09 | 240.58 | 61.96 | 178.62 | 1.347 Level 3 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 12N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 10,366.64 | 7,058.63 | 99.91 | 99.89 | 119.67 | -1,500.73 | -3,550.09 | 240.66 | 57.36 | 183.29 | 1.313 | Level 3 | |
| 10,400.00 | 6,939.13 | 10,466.64 | 7,058.40 | 102.60 | 102.58 | 119.70 | -1,501.33 | -3,650.09 | 240.73 | 52.75 | 187.98 | 1.281 | Level 3 | |
| 10,500.00 | 6,938.75 | 10,566.64 | 7,058.17 | 105.30 | 105.29 | 119.73 | -1,501.93 | -3,750.08 | 240.80 | 48.12 | 192.68 | 1.250 | Level 2 | |
| 10,600.00 | 6,938.37 | 10,666.64 | 7,057.94 | 108.00 | 107.99 | 119.76 | -1,502.53 | -3,850.08 | 240.88 | 43.48 | 197.39 | 1.220 | Level 2 | |
| 10,700.00 | 6,937.99 | 10,766.64 | 7,057.71 | 110.72 | 110.71 | 119.79 | -1,503.13 | -3,950.08 | 240.95 | 38.83 | 202.12 | 1.192 | Level 2 | |
| 10,800.00 | 6,937.61 | 10,866.64 | 7,057.47 | 113.44 | 113.44 | 119.82 | -1,503.73 | -4,050.08 | 241.02 | 34.17 | 206.86 | 1.165 | Level 2 | |
| 10,900.00 | 6,937.23 | 10,966.64 | 7,057.24 | 116.17 | 116.17 | 119.85 | -1,504.33 | -4,150.08 | 241.10 | 29.50 | 211.60 | 1.139 | Level 2 | |
| 11,000.00 | 6,936.85 | 11,066.64 | 7,057.01 | 118.90 | 118.90 | 119.88 | -1,504.92 | -4,250.07 | 241.17 | 24.82 | 216.35 | 1.115 | Level 2 | |
| 11,100.00 | 6,936.47 | 11,166.64 | 7,056.78 | 121.64 | 121.65 | 119.91 | -1,505.52 | -4,350.07 | 241.25 | 20.13 | 221.12 | 1.091 | Level 2 | |
| 11,200.00 | 6,936.09 | 11,266.64 | 7,056.55 | 124.39 | 124.39 | 119.94 | -1,506.12 | -4,450.07 | 241.32 | 15.43 | 225.89 | 1.068 | Level 2 | |
| 11,300.00 | 6,935.71 | 11,366.64 | 7,056.32 | 127.14 | 127.15 | 119.98 | -1,506.72 | -4,550.07 | 241.39 | 10.73 | 230.66 | 1.047 | Level 2 | |
| 11,400.00 | 6,935.34 | 11,466.64 | 7,056.09 | 129.90 | 129.90 | 120.01 | -1,507.32 | -4,650.06 | 241.47 | 6.02 | 235.44 | 1.026 | Level 2 | |
| 11,500.00 | 6,934.96 | 11,566.64 | 7,055.86 | 132.66 | 132.66 | 120.04 | -1,507.92 | -4,750.06 | 241.54 | 1.31 | 240.23 | 1.005 | Level 2 | |
| 11,600.00 | 6,934.58 | 11,666.64 | 7,055.63 | 135.42 | 135.43 | 120.07 | -1,508.52 | -4,850.06 | 241.62 | -3.41 | 245.03 | 0.986 | Level 1 | |
| 11,700.00 | 6,934.20 | 11,766.64 | 7,055.40 | 138.19 | 138.20 | 120.10 | -1,509.12 | -4,950.06 | 241.69 | -8.13 | 249.82 | 0.967 | Level 1 | |
| 11,800.00 | 6,933.82 | 11,866.64 | 7,055.17 | 140.96 | 140.97 | 120.13 | -1,509.72 | -5,050.06 | 241.77 | -12.86 | 254.63 | 0.949 | Level 1 | |
| 11,900.00 | 6,933.44 | 11,966.64 | 7,054.94 | 143.74 | 143.75 | 120.16 | -1,510.31 | -5,150.05 | 241.84 | -17.59 | 259.43 | 0.932 | Level 1 | |
| 12,000.00 | 6,933.06 | 12,066.64 | 7,054.71 | 146.51 | 146.53 | 120.19 | -1,510.91 | -5,250.05 | 241.92 | -22.32 | 264.24 | 0.916 | Level 1 | |
| 12,100.00 | 6,932.68 | 12,166.64 | 7,054.48 | 149.30 | 149.31 | 120.22 | -1,511.51 | -5,350.05 | 241.99 | -27.06 | 269.05 | 0.899 | Level 1 | |
| 12,200.00 | 6,932.30 | 12,266.64 | 7,054.25 | 152.08 | 152.09 | 120.25 | -1,512.11 | -5,450.05 | 242.07 | -31.80 | 273.87 | 0.884 | Level 1 | |
| 12,300.00 | 6,931.92 | 12,366.64 | 7,054.02 | 154.87 | 154.88 | 120.28 | -1,512.71 | -5,550.05 | 242.14 | -36.55 | 278.69 | 0.869 | Level 1 | |
| 12,400.00 | 6,931.54 | 12,466.64 | 7,053.79 | 157.66 | 157.67 | 120.31 | -1,513.31 | -5,650.04 | 242.22 | -41.29 | 283.51 | 0.854 | Level 1 | |
| 12,500.00 | 6,931.16 | 12,566.64 | 7,053.56 | 160.45 | 160.47 | 120.34 | -1,513.91 | -5,750.04 | 242.29 | -46.04 | 288.33 | 0.840 | Level 1 | |
| 12,600.00 | 6,930.78 | 12,666.64 | 7,053.33 | 163.24 | 163.26 | 120.37 | -1,514.51 | -5,850.04 | 242.37 | -50.79 | 293.15 | 0.827 | Level 1 | |
| 12,700.00 | 6,930.40 | 12,766.64 | 7,053.10 | 166.04 | 166.06 | 120.40 | -1,515.10 | -5,950.04 | 242.44 | -55.54 | 297.98 | 0.814 | Level 1 | |
| 12,800.00 | 6,930.03 | 12,866.64 | 7,052.87 | 168.84 | 168.86 | 120.43 | -1,515.70 | -6,050.03 | 242.52 | -60.29 | 302.80 | 0.801 | Level 1 | |
| 12,900.00 | 6,929.65 | 12,966.64 | 7,052.64 | 171.64 | 171.66 | 120.46 | -1,516.30 | -6,150.03 | 242.59 | -65.04 | 307.63 | 0.789 | Level 1 | |
| 13,000.00 | 6,929.27 | 13,066.64 | 7,052.41 | 174.44 | 174.46 | 120.49 | -1,516.90 | -6,250.03 | 242.67 | -69.79 | 312.46 | 0.777 | Level 1 | |
| 13,100.00 | 6,928.89 | 13,166.64 | 7,052.18 | 177.24 | 177.27 | 120.52 | -1,517.50 | -6,350.03 | 242.74 | -74.55 | 317.29 | 0.765 | Level 1 | |
| 13,200.00 | 6,928.51 | 13,266.64 | 7,051.95 | 180.05 | 180.07 | 120.55 | -1,518.10 | -6,450.03 | 242.82 | -79.30 | 322.12 | 0.754 | Level 1 | |
| 13,300.00 | 6,928.13 | 13,366.64 | 7,051.72 | 182.86 | 182.88 | 120.58 | -1,518.70 | -6,550.02 | 242.89 | -84.06 | 326.95 | 0.743 | Level 1 | |
| 13,400.00 | 6,927.75 | 13,466.64 | 7,051.48 | 185.67 | 185.69 | 120.62 | -1,519.30 | -6,650.02 | 242.97 | -88.81 | 331.78 | 0.732 | Level 1 | |
| 13,500.00 | 6,927.37 | 13,566.64 | 7,051.25 | 188.48 | 188.50 | 120.65 | -1,519.90 | -6,750.02 | 243.04 | -93.57 | 336.61 | 0.722 | Level 1 | |
| 13,600.00 | 6,926.99 | 13,666.64 | 7,051.02 | 191.29 | 191.32 | 120.68 | -1,520.49 | -6,850.02 | 243.12 | -98.32 | 341.44 | 0.712 | Level 1 | |
| 13,700.00 | 6,926.61 | 13,766.64 | 7,050.79 | 194.10 | 194.13 | 120.71 | -1,521.09 | -6,950.01 | 243.20 | -103.08 | 346.27 | 0.702 | Level 1 | |
| 13,800.00 | 6,926.23 | 13,866.64 | 7,050.56 | 196.92 | 196.94 | 120.74 | -1,521.69 | -7,050.01 | 243.27 | -107.83 | 351.11 | 0.693 | Level 1 | |
| 13,900.00 | 6,925.85 | 13,966.64 | 7,050.33 | 199.73 | 199.76 | 120.77 | -1,522.29 | -7,150.01 | 243.35 | -112.59 | 355.94 | 0.684 | Level 1 | |
| 14,000.00 | 6,925.47 | 14,066.63 | 7,050.10 | 202.55 | 202.58 | 120.80 | -1,522.89 | -7,250.01 | 243.42 | -117.34 | 360.77 | 0.675 | Level 1 | |
| 14,100.00 | 6,925.09 | 14,166.63 | 7,049.87 | 205.37 | 205.40 | 120.83 | -1,523.49 | -7,350.01 | 243.50 | -122.10 | 365.60 | 0.666 | Level 1 | |
| 14,200.00 | 6,924.71 | 14,266.63 | 7,049.64 | 208.19 | 208.22 | 120.86 | -1,524.09 | -7,450.00 | 243.58 | -126.85 | 370.43 | 0.658 | Level 1 | |
| 14,300.00 | 6,924.34 | 14,366.63 | 7,049.41 | 211.01 | 211.04 | 120.89 | -1,524.69 | -7,550.00 | 243.65 | -131.60 | 375.26 | 0.649 | Level 1 | |
| 14,400.00 | 6,923.96 | 14,466.63 | 7,049.18 | 213.83 | 213.86 | 120.92 | -1,525.28 | -7,650.00 | 243.73 | -136.35 | 380.08 | 0.641 | Level 1 | |
| 14,500.00 | 6,923.58 | 14,566.63 | 7,048.95 | 216.65 | 216.68 | 120.95 | -1,525.88 | -7,750.00 | 243.81 | -141.11 | 384.91 | 0.633 | Level 1 | |
| 14,600.00 | 6,923.20 | 14,666.63 | 7,048.72 | 219.48 | 219.51 | 120.98 | -1,526.48 | -7,850.00 | 243.88 | -145.86 | 389.74 | 0.626 | Level 1 | |
| 14,700.00 | 6,922.82 | 14,766.63 | 7,048.49 | 222.30 | 222.33 | 121.01 | -1,527.08 | -7,949.99 | 243.96 | -150.60 | 394.56 | 0.618 | Level 1 | |
| 14,800.00 | 6,922.44 | 14,866.63 | 7,048.26 | 225.13 | 225.16 | 121.04 | -1,527.68 | -8,049.99 | 244.04 | -155.35 | 399.39 | 0.611 | Level 1 | |
| 14,900.00 | 6,922.06 | 14,966.63 | 7,048.03 | 227.95 | 227.99 | 121.07 | -1,528.28 | -8,149.99 | 244.11 | -160.10 | 404.21 | 0.604 | Level 1 | |
| 14,915.55 | 6,922.00 | 14,982.18 | 7,047.99 | 228.39 | 228.42 | 121.07 | -1,528.37 | -8,165.54 | 244.12 | -160.84 | 404.96 | 0.603 | Level 1, ES, SF | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 13C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | -179.40 | -79.79 | -0.83 | 79.79 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | -179.40 | -79.79 | -0.83 | 79.79 | 73.22 | 6.57 | 12.145 | | |
| 200.00 | 200.00 | 199.00 | 200.00 | 3.34 | 3.34 | -179.40 | -79.79 | -0.83 | 79.79 | 73.12 | 6.67 | 11.957 | | |
| 300.00 | 299.98 | 296.32 | 297.30 | 3.44 | 3.44 | -4.82 | -81.40 | -0.94 | 79.71 | 72.83 | 6.88 | 11.579 | | |
| 400.00 | 399.84 | 393.62 | 394.47 | 3.59 | 3.58 | -4.94 | -86.31 | -1.25 | 79.55 | 72.35 | 7.20 | 11.045 | | |
| 500.00 | 499.45 | 490.93 | 491.43 | 3.79 | 3.77 | -5.14 | -94.52 | -1.77 | 79.30 | 71.68 | 7.62 | 10.406 | | |
| 600.00 | 598.70 | 588.24 | 588.05 | 4.03 | 4.00 | -5.41 | -106.00 | -2.50 | 78.97 | 70.84 | 8.12 | 9.721 | | |
| 700.00 | 697.47 | 685.57 | 684.25 | 4.31 | 4.27 | -5.77 | -120.76 | -3.44 | 78.55 | 69.85 | 8.70 | 9.032 | | |
| 800.00 | 795.62 | 782.91 | 779.90 | 4.64 | 4.58 | -6.22 | -138.77 | -4.58 | 78.05 | 68.72 | 9.33 | 8.367 | | |
| 900.00 | 893.06 | 880.28 | 874.90 | 5.00 | 4.93 | -6.74 | -160.02 | -5.93 | 77.48 | 67.47 | 10.01 | 7.743 | | |
| 965.15 | 956.19 | 943.72 | 936.39 | 5.25 | 5.17 | -7.10 | -175.59 | -6.92 | 77.47 | 67.00 | 10.47 | 7.396 | | |
| 1,000.00 | 989.78 | 977.66 | 969.14 | 5.39 | 5.31 | -7.31 | -184.48 | -7.49 | 77.36 | 66.63 | 10.73 | 7.209 CC, ES | | |
| 1,100.00 | 1,086.42 | 1,074.95 | 1,062.41 | 5.81 | 5.72 | -7.66 | -212.10 | -9.24 | 80.27 | 68.79 | 11.48 | 6.990 | | |
| 1,200.00 | 1,183.06 | 1,171.95 | 1,154.41 | 6.25 | 6.16 | -7.74 | -242.76 | -11.19 | 86.55 | 74.30 | 12.26 | 7.061 | | |
| 1,300.00 | 1,279.69 | 1,269.67 | 1,246.08 | 6.71 | 6.64 | -7.62 | -276.54 | -13.34 | 95.94 | 82.89 | 13.05 | 7.351 | | |
| 1,400.00 | 1,376.33 | 1,369.17 | 1,339.20 | 7.17 | 7.14 | -7.48 | -311.52 | -15.56 | 105.96 | 92.08 | 13.87 | 7.636 | | |
| 1,500.00 | 1,472.97 | 1,468.66 | 1,432.32 | 7.65 | 7.67 | -7.36 | -346.50 | -17.79 | 115.97 | 101.25 | 14.72 | 7.876 | | |
| 1,600.00 | 1,569.61 | 1,568.16 | 1,525.44 | 8.13 | 8.20 | -7.27 | -381.48 | -20.01 | 125.99 | 110.39 | 15.59 | 8.079 | | |
| 1,700.00 | 1,666.24 | 1,667.66 | 1,618.56 | 8.62 | 8.75 | -7.18 | -416.46 | -22.23 | 136.01 | 119.52 | 16.48 | 8.251 | | |
| 1,800.00 | 1,762.88 | 1,767.15 | 1,711.67 | 9.12 | 9.30 | -7.11 | -451.44 | -24.46 | 146.02 | 128.64 | 17.39 | 8.399 | | |
| 1,900.00 | 1,859.52 | 1,866.65 | 1,804.79 | 9.62 | 9.86 | -7.05 | -486.41 | -26.68 | 156.04 | 137.74 | 18.30 | 8.526 | | |
| 2,000.00 | 1,956.16 | 1,966.15 | 1,897.91 | 10.13 | 10.43 | -7.00 | -521.39 | -28.90 | 166.06 | 146.83 | 19.23 | 8.636 | | |
| 2,100.00 | 2,052.79 | 2,065.65 | 1,991.03 | 10.64 | 11.00 | -6.95 | -556.37 | -31.13 | 176.07 | 155.91 | 20.16 | 8.732 | | |
| 2,200.00 | 2,149.43 | 2,165.14 | 2,084.15 | 11.15 | 11.58 | -6.90 | -591.35 | -33.35 | 186.09 | 164.98 | 21.11 | 8.817 | | |
| 2,300.00 | 2,246.07 | 2,264.64 | 2,177.27 | 11.66 | 12.16 | -6.87 | -626.33 | -35.57 | 196.11 | 174.05 | 22.06 | 8.891 | | |
| 2,400.00 | 2,342.71 | 2,364.14 | 2,270.39 | 12.18 | 12.74 | -6.83 | -661.31 | -37.79 | 206.13 | 183.11 | 23.02 | 8.956 | | |
| 2,500.00 | 2,439.34 | 2,463.63 | 2,363.51 | 12.70 | 13.33 | -6.80 | -696.29 | -40.02 | 216.15 | 192.17 | 23.98 | 9.014 | | |
| 2,600.00 | 2,535.98 | 2,563.13 | 2,456.63 | 13.22 | 13.92 | -6.77 | -731.27 | -42.24 | 226.16 | 201.22 | 24.95 | 9.066 | | |
| 2,700.00 | 2,632.62 | 2,662.63 | 2,549.75 | 13.75 | 14.51 | -6.74 | -766.25 | -44.46 | 236.18 | 210.26 | 25.92 | 9.113 | | |
| 2,800.00 | 2,729.26 | 2,762.12 | 2,642.87 | 14.27 | 15.10 | -6.72 | -801.22 | -46.69 | 246.20 | 219.31 | 26.89 | 9.155 | | |
| 2,900.00 | 2,825.89 | 2,861.62 | 2,735.98 | 14.80 | 15.69 | -6.70 | -836.20 | -48.91 | 256.22 | 228.34 | 27.87 | 9.192 | | |
| 3,000.00 | 2,922.53 | 2,961.12 | 2,829.10 | 15.32 | 16.29 | -6.68 | -871.18 | -51.13 | 266.24 | 237.38 | 28.85 | 9.227 | | |
| 3,100.00 | 3,019.17 | 3,060.61 | 2,922.22 | 15.85 | 16.88 | -6.66 | -906.16 | -53.36 | 276.25 | 246.41 | 29.84 | 9.258 | | |
| 3,200.00 | 3,115.81 | 3,160.11 | 3,015.34 | 16.38 | 17.48 | -6.64 | -941.14 | -55.58 | 286.27 | 255.44 | 30.83 | 9.286 | | |
| 3,300.00 | 3,212.44 | 3,259.61 | 3,108.46 | 16.91 | 18.08 | -6.62 | -976.12 | -57.80 | 296.29 | 264.47 | 31.82 | 9.312 | | |
| 3,400.00 | 3,309.08 | 3,359.10 | 3,201.58 | 17.44 | 18.68 | -6.61 | -1,011.10 | -60.03 | 306.31 | 273.50 | 32.81 | 9.336 | | |
| 3,500.00 | 3,405.72 | 3,458.60 | 3,294.70 | 17.97 | 19.28 | -6.59 | -1,046.08 | -62.25 | 316.33 | 282.52 | 33.80 | 9.358 | | |
| 3,600.00 | 3,502.36 | 3,558.10 | 3,387.82 | 18.50 | 19.88 | -6.58 | -1,081.06 | -64.47 | 326.34 | 291.55 | 34.80 | 9.378 | | |
| 3,700.00 | 3,598.99 | 3,657.60 | 3,480.94 | 19.03 | 20.48 | -6.57 | -1,116.04 | -66.70 | 336.36 | 300.57 | 35.79 | 9.397 | | |
| 3,800.00 | 3,695.63 | 3,757.09 | 3,574.06 | 19.57 | 21.08 | -6.55 | -1,151.01 | -68.92 | 346.38 | 309.59 | 36.79 | 9.414 | | |
| 3,900.00 | 3,792.27 | 3,856.59 | 3,667.17 | 20.10 | 21.69 | -6.54 | -1,185.99 | -71.14 | 356.40 | 318.61 | 37.79 | 9.430 | | |
| 4,000.00 | 3,888.91 | 3,956.09 | 3,760.29 | 20.63 | 22.29 | -6.53 | -1,220.97 | -73.37 | 366.42 | 327.62 | 38.79 | 9.445 | | |
| 4,100.00 | 3,985.54 | 4,055.58 | 3,853.41 | 21.17 | 22.90 | -6.52 | -1,255.95 | -75.59 | 376.44 | 336.64 | 39.80 | 9.459 | | |
| 4,200.00 | 4,082.18 | 4,155.08 | 3,946.53 | 21.70 | 23.50 | -6.51 | -1,290.93 | -77.81 | 386.45 | 345.66 | 40.80 | 9.472 | | |
| 4,300.00 | 4,178.82 | 4,254.58 | 4,039.65 | 22.24 | 24.10 | -6.50 | -1,325.91 | -80.04 | 396.47 | 354.67 | 41.80 | 9.484 | | |
| 4,400.00 | 4,275.46 | 4,354.07 | 4,132.77 | 22.77 | 24.71 | -6.49 | -1,360.89 | -82.26 | 406.49 | 363.68 | 42.81 | 9.496 | | |
| 4,500.00 | 4,372.09 | 4,453.57 | 4,225.89 | 23.31 | 25.32 | -6.48 | -1,395.87 | -84.48 | 416.51 | 372.70 | 43.81 | 9.506 | | |
| 4,600.00 | 4,468.73 | 4,553.07 | 4,319.01 | 23.84 | 25.92 | -6.48 | -1,430.85 | -86.70 | 426.53 | 381.71 | 44.82 | 9.516 | | |
| 4,700.00 | 4,565.37 | 4,652.56 | 4,412.13 | 24.38 | 26.53 | -6.47 | -1,465.83 | -88.93 | 436.55 | 390.72 | 45.83 | 9.526 | | |
| 4,800.00 | 4,662.01 | 4,752.06 | 4,505.25 | 24.91 | 27.14 | -6.46 | -1,500.80 | -91.15 | 446.57 | 399.73 | 46.84 | 9.534 | | |
| 4,900.00 | 4,758.64 | 4,851.56 | 4,598.37 | 25.45 | 27.74 | -6.45 | -1,535.78 | -93.37 | 456.58 | 408.74 | 47.85 | 9.543 | | |
| 5,000.00 | 4,855.28 | 4,951.05 | 4,691.48 | 25.99 | 28.35 | -6.45 | -1,570.76 | -95.60 | 466.60 | 417.75 | 48.86 | 9.551 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 13C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 5,050.55 | 4,784.60 | 26.53 | 28.96 | -6.44 | -1,605.74 | -97.82 | 476.62 | 426.76 | 49.87 | 9.558 | | |
| 5,200.00 | 5,048.56 | 5,150.05 | 4,877.72 | 27.06 | 29.57 | -6.44 | -1,640.72 | -100.04 | 486.64 | 435.76 | 50.88 | 9.565 | | |
| 5,300.00 | 5,145.19 | 5,249.55 | 4,970.84 | 27.60 | 30.17 | -6.43 | -1,675.70 | -102.27 | 496.66 | 444.77 | 51.89 | 9.572 | | |
| 5,400.00 | 5,241.83 | 5,349.04 | 5,063.96 | 28.14 | 30.78 | -6.42 | -1,710.68 | -104.49 | 506.68 | 453.78 | 52.90 | 9.578 | | |
| 5,500.00 | 5,338.47 | 5,448.54 | 5,157.08 | 28.67 | 31.39 | -6.42 | -1,745.66 | -106.71 | 516.69 | 462.78 | 53.91 | 9.584 | | |
| 5,600.00 | 5,435.11 | 5,548.04 | 5,250.20 | 29.21 | 32.00 | -6.41 | -1,780.64 | -108.94 | 526.71 | 471.79 | 54.92 | 9.590 | | |
| 5,700.00 | 5,531.74 | 5,647.53 | 5,343.32 | 29.75 | 32.61 | -6.41 | -1,815.62 | -111.16 | 536.73 | 480.80 | 55.94 | 9.595 | | |
| 5,800.00 | 5,628.38 | 5,747.03 | 5,436.44 | 30.29 | 33.22 | -6.40 | -1,850.59 | -113.38 | 546.75 | 489.80 | 56.95 | 9.601 | | |
| 5,900.00 | 5,725.02 | 5,846.53 | 5,529.56 | 30.83 | 33.83 | -6.40 | -1,885.57 | -115.61 | 556.77 | 498.81 | 57.96 | 9.606 | | |
| 6,000.00 | 5,821.66 | 5,946.02 | 5,622.67 | 31.37 | 34.43 | -6.39 | -1,920.55 | -117.83 | 566.79 | 507.81 | 58.98 | 9.610 | | |
| 6,100.00 | 5,918.29 | 6,045.52 | 5,715.79 | 31.90 | 35.04 | -6.39 | -1,955.53 | -120.05 | 576.81 | 516.81 | 59.99 | 9.615 | | |
| 6,200.00 | 6,014.93 | 6,145.02 | 5,808.91 | 32.44 | 35.65 | -6.39 | -1,990.51 | -122.28 | 586.82 | 525.82 | 61.01 | 9.619 | | |
| 6,300.00 | 6,111.57 | 6,244.51 | 5,902.03 | 32.98 | 36.26 | -6.38 | -2,025.49 | -124.50 | 596.84 | 534.82 | 62.02 | 9.623 | | |
| 6,400.00 | 6,208.21 | 6,344.01 | 5,995.15 | 33.52 | 36.87 | -6.38 | -2,060.47 | -126.72 | 606.86 | 543.82 | 63.04 | 9.627 | | |
| 6,500.00 | 6,304.84 | 6,443.51 | 6,088.27 | 34.06 | 37.48 | -6.37 | -2,095.45 | -128.95 | 616.88 | 552.83 | 64.05 | 9.631 | | |
| 6,600.00 | 6,401.37 | 6,542.94 | 6,181.33 | 34.60 | 38.09 | -22.79 | -2,130.40 | -131.17 | 626.92 | 561.85 | 65.07 | 9.634 | | |
| 6,700.00 | 6,496.25 | 6,641.03 | 6,273.13 | 35.12 | 38.69 | -45.76 | -2,164.89 | -133.36 | 637.28 | 571.15 | 66.13 | 9.637 | | |
| 6,800.00 | 6,587.15 | 6,735.40 | 6,361.45 | 35.59 | 39.27 | -59.72 | -2,198.06 | -135.47 | 648.83 | 581.60 | 67.23 | 9.651 | | |
| 6,900.00 | 6,671.83 | 6,823.72 | 6,444.11 | 36.03 | 39.81 | -68.94 | -2,229.11 | -137.44 | 663.32 | 594.90 | 68.42 | 9.695 | | |
| 7,000.00 | 6,748.21 | 6,903.82 | 6,519.08 | 36.41 | 40.31 | -75.43 | -2,257.28 | -139.23 | 682.96 | 613.23 | 69.73 | 9.795 | | |
| 7,100.00 | 6,814.41 | 6,973.74 | 6,584.51 | 36.76 | 40.73 | -79.77 | -2,281.85 | -140.79 | 709.96 | 638.77 | 71.19 | 9.972 | | |
| 7,200.00 | 6,868.79 | 7,031.74 | 6,638.79 | 37.07 | 41.09 | -81.95 | -2,302.24 | -142.09 | 745.99 | 673.19 | 72.80 | 10.247 | | |
| 7,300.00 | 6,910.01 | 7,105.69 | 6,707.93 | 37.39 | 41.54 | -83.88 | -2,328.23 | -145.40 | 791.43 | 716.69 | 74.74 | 10.589 | | |
| 7,400.00 | 6,937.07 | 7,400.00 | 6,826.76 | 37.76 | 43.21 | -88.22 | -2,373.04 | -171.11 | 842.10 | 764.62 | 77.47 | 10.870 | | |
| 7,500.00 | 6,949.29 | 7,500.00 | 7,150.91 | 38.27 | 43.63 | -104.89 | -2,496.78 | -433.59 | 886.69 | 817.24 | 69.44 | 12.768 | | |
| 7,600.00 | 6,949.75 | 8,111.46 | 7,245.68 | 39.02 | 45.34 | -109.37 | -2,535.56 | -845.16 | 892.39 | 825.86 | 66.53 | 13.414 | | |
| 7,700.00 | 6,949.37 | 8,211.46 | 7,245.18 | 40.05 | 45.80 | -109.36 | -2,536.15 | -945.16 | 892.34 | 823.35 | 68.99 | 12.935 | | |
| 7,800.00 | 6,948.99 | 8,311.46 | 7,244.67 | 41.35 | 46.48 | -109.35 | -2,536.73 | -1,045.15 | 892.29 | 820.51 | 71.78 | 12.431 | | |
| 7,900.00 | 6,948.61 | 8,411.46 | 7,244.17 | 42.86 | 47.41 | -109.35 | -2,537.32 | -1,145.15 | 892.24 | 817.38 | 74.86 | 11.918 | | |
| 8,000.00 | 6,948.23 | 8,511.46 | 7,243.67 | 44.53 | 48.61 | -109.34 | -2,537.91 | -1,245.15 | 892.19 | 813.99 | 78.20 | 11.409 | | |
| 8,100.00 | 6,947.85 | 8,611.46 | 7,243.17 | 46.34 | 50.05 | -109.33 | -2,538.50 | -1,345.14 | 892.14 | 810.37 | 81.77 | 10.911 | | |
| 8,200.00 | 6,947.47 | 8,711.46 | 7,242.67 | 48.26 | 51.68 | -109.32 | -2,539.09 | -1,445.14 | 892.09 | 806.56 | 85.53 | 10.430 | | |
| 8,300.00 | 6,947.09 | 8,811.46 | 7,242.17 | 50.28 | 53.45 | -109.32 | -2,539.67 | -1,545.14 | 892.04 | 802.57 | 89.47 | 9.971 | | |
| 8,400.00 | 6,946.72 | 8,911.46 | 7,241.67 | 52.39 | 55.35 | -109.31 | -2,540.26 | -1,645.13 | 891.99 | 798.43 | 93.56 | 9.534 | | |
| 8,500.00 | 6,946.34 | 9,011.46 | 7,241.17 | 54.56 | 57.35 | -109.30 | -2,540.85 | -1,745.13 | 891.94 | 794.16 | 97.78 | 9.122 | | |
| 8,600.00 | 6,945.96 | 9,111.46 | 7,240.67 | 56.80 | 59.43 | -109.30 | -2,541.44 | -1,845.13 | 891.89 | 789.78 | 102.11 | 8.734 | | |
| 8,700.00 | 6,945.58 | 9,211.46 | 7,240.17 | 59.10 | 61.59 | -109.29 | -2,542.03 | -1,945.13 | 891.84 | 785.29 | 106.55 | 8.370 | | |
| 8,800.00 | 6,945.20 | 9,311.46 | 7,239.67 | 61.44 | 63.81 | -109.28 | -2,542.62 | -2,045.12 | 891.79 | 780.71 | 111.08 | 8.028 | | |
| 8,900.00 | 6,944.82 | 9,411.46 | 7,239.17 | 63.83 | 66.08 | -109.27 | -2,543.20 | -2,145.12 | 891.74 | 776.05 | 115.68 | 7.708 | | |
| 9,000.00 | 6,944.44 | 9,511.46 | 7,238.67 | 66.25 | 68.40 | -109.27 | -2,543.79 | -2,245.12 | 891.69 | 771.33 | 120.36 | 7.408 | | |
| 9,100.00 | 6,944.06 | 9,611.46 | 7,238.17 | 68.71 | 70.76 | -109.26 | -2,544.38 | -2,345.11 | 891.64 | 766.54 | 125.10 | 7.127 | | |
| 9,200.00 | 6,943.68 | 9,711.46 | 7,237.66 | 71.20 | 73.16 | -109.25 | -2,544.97 | -2,445.11 | 891.59 | 761.69 | 129.90 | 6.864 | | |
| 9,300.00 | 6,943.30 | 9,811.46 | 7,237.16 | 73.72 | 75.59 | -109.25 | -2,545.56 | -2,545.11 | 891.54 | 756.80 | 134.74 | 6.617 | | |
| 9,400.00 | 6,942.92 | 9,911.46 | 7,236.66 | 76.26 | 78.06 | -109.24 | -2,546.14 | -2,645.10 | 891.49 | 751.86 | 139.63 | 6.385 | | |
| 9,500.00 | 6,942.54 | 10,011.46 | 7,236.16 | 78.82 | 80.55 | -109.23 | -2,546.73 | -2,745.10 | 891.44 | 746.88 | 144.56 | 6.166 | | |
| 9,600.00 | 6,942.16 | 10,111.46 | 7,235.66 | 81.40 | 83.06 | -109.22 | -2,547.32 | -2,845.10 | 891.39 | 741.86 | 149.53 | 5.961 | | |
| 9,700.00 | 6,941.78 | 10,211.46 | 7,235.16 | 84.00 | 85.60 | -109.22 | -2,547.91 | -2,945.10 | 891.34 | 736.81 | 154.53 | 5.768 | | |
| 9,800.00 | 6,941.40 | 10,311.46 | 7,234.66 | 86.62 | 88.16 | -109.21 | -2,548.50 | -3,045.09 | 891.29 | 731.73 | 159.56 | 5.586 | | |
| 9,900.00 | 6,941.03 | 10,411.46 | 7,234.16 | 89.25 | 90.73 | -109.20 | -2,549.09 | -3,145.09 | 891.24 | 726.63 | 164.61 | 5.414 | | |
| 10,000.00 | 6,940.65 | 10,511.46 | 7,233.66 | 91.90 | 93.33 | -109.20 | -2,549.67 | -3,245.09 | 891.19 | 721.50 | 169.69 | 5.252 | | |
| 10,100.00 | 6,940.27 | 10,611.46 | 7,233.16 | 94.56 | 95.94 | -109.19 | -2,550.26 | -3,345.08 | 891.14 | 716.34 | 174.80 | 5.098 | | |
| 10,200.00 | 6,939.89 | 10,711.46 | 7,232.66 | 97.23 | 98.56 | -109.18 | -2,550.85 | -3,445.08 | 891.09 | 711.17 | 179.92 | 4.953 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 13C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 10,811.46 | 7,232.16 | 99.91 | 101.20 | -109.17 | -2,551.44 | -3,545.08 | 891.04 | 705.98 | 185.06 | 4.815 | | |
| 10,400.00 | 6,939.13 | 10,911.46 | 7,231.66 | 102.60 | 103.84 | -109.17 | -2,552.03 | -3,645.07 | 890.99 | 700.77 | 190.22 | 4.684 | | |
| 10,500.00 | 6,938.75 | 11,011.46 | 7,231.16 | 105.30 | 106.50 | -109.16 | -2,552.61 | -3,745.07 | 890.94 | 695.54 | 195.40 | 4.560 | | |
| 10,600.00 | 6,938.37 | 11,111.46 | 7,230.66 | 108.00 | 109.17 | -109.15 | -2,553.20 | -3,845.07 | 890.89 | 690.30 | 200.59 | 4.441 | | |
| 10,700.00 | 6,937.99 | 11,211.46 | 7,230.15 | 110.72 | 111.85 | -109.15 | -2,553.79 | -3,945.06 | 890.84 | 685.04 | 205.80 | 4.329 | | |
| 10,800.00 | 6,937.61 | 11,311.46 | 7,229.65 | 113.44 | 114.54 | -109.14 | -2,554.38 | -4,045.06 | 890.79 | 679.78 | 211.01 | 4.221 | | |
| 10,900.00 | 6,937.23 | 11,411.46 | 7,229.15 | 116.17 | 117.23 | -109.13 | -2,554.97 | -4,145.06 | 890.74 | 674.50 | 216.24 | 4.119 | | |
| 11,000.00 | 6,936.85 | 11,511.46 | 7,228.65 | 118.90 | 119.94 | -109.12 | -2,555.56 | -4,245.06 | 890.69 | 669.21 | 221.49 | 4.021 | | |
| 11,100.00 | 6,936.47 | 11,611.46 | 7,228.15 | 121.64 | 122.65 | -109.12 | -2,556.14 | -4,345.05 | 890.64 | 663.91 | 226.74 | 3.928 | | |
| 11,200.00 | 6,936.09 | 11,711.46 | 7,227.65 | 124.39 | 125.37 | -109.11 | -2,556.73 | -4,445.05 | 890.59 | 658.59 | 232.00 | 3.839 | | |
| 11,300.00 | 6,935.71 | 11,811.46 | 7,227.15 | 127.14 | 128.09 | -109.10 | -2,557.32 | -4,545.05 | 890.54 | 653.27 | 237.27 | 3.753 | | |
| 11,400.00 | 6,935.34 | 11,911.46 | 7,226.65 | 129.90 | 130.82 | -109.10 | -2,557.91 | -4,645.04 | 890.49 | 647.95 | 242.55 | 3.671 | | |
| 11,500.00 | 6,934.96 | 12,011.46 | 7,226.15 | 132.66 | 133.55 | -109.09 | -2,558.50 | -4,745.04 | 890.44 | 642.61 | 247.83 | 3.593 | | |
| 11,600.00 | 6,934.58 | 12,111.46 | 7,225.65 | 135.42 | 136.29 | -109.08 | -2,559.08 | -4,845.04 | 890.39 | 637.27 | 253.13 | 3.518 | | |
| 11,700.00 | 6,934.20 | 12,211.46 | 7,225.15 | 138.19 | 139.04 | -109.07 | -2,559.67 | -4,945.03 | 890.35 | 631.91 | 258.43 | 3.445 | | |
| 11,800.00 | 6,933.82 | 12,311.46 | 7,224.65 | 140.96 | 141.79 | -109.07 | -2,560.26 | -5,045.03 | 890.30 | 626.56 | 263.74 | 3.376 | | |
| 11,900.00 | 6,933.44 | 12,411.46 | 7,224.15 | 143.74 | 144.54 | -109.06 | -2,560.85 | -5,145.03 | 890.25 | 621.19 | 269.05 | 3.309 | | |
| 12,000.00 | 6,933.06 | 12,511.46 | 7,223.65 | 146.51 | 147.30 | -109.05 | -2,561.44 | -5,245.02 | 890.20 | 615.82 | 274.37 | 3.244 | | |
| 12,100.00 | 6,932.68 | 12,611.46 | 7,223.15 | 149.30 | 150.06 | -109.05 | -2,562.03 | -5,345.02 | 890.15 | 610.45 | 279.70 | 3.183 | | |
| 12,200.00 | 6,932.30 | 12,711.46 | 7,222.64 | 152.08 | 152.83 | -109.04 | -2,562.61 | -5,445.02 | 890.10 | 605.07 | 285.03 | 3.123 | | |
| 12,300.00 | 6,931.92 | 12,811.46 | 7,222.14 | 154.87 | 155.60 | -109.03 | -2,563.20 | -5,545.02 | 890.05 | 599.68 | 290.37 | 3.065 | | |
| 12,400.00 | 6,931.54 | 12,911.46 | 7,221.64 | 157.66 | 158.37 | -109.02 | -2,563.79 | -5,645.01 | 890.00 | 594.29 | 295.71 | 3.010 | | |
| 12,500.00 | 6,931.16 | 13,011.46 | 7,221.14 | 160.45 | 161.14 | -109.02 | -2,564.38 | -5,745.01 | 889.95 | 588.89 | 301.05 | 2.956 | | |
| 12,600.00 | 6,930.78 | 13,111.46 | 7,220.64 | 163.24 | 163.92 | -109.01 | -2,564.97 | -5,845.01 | 889.90 | 583.49 | 306.41 | 2.904 | | |
| 12,700.00 | 6,930.40 | 13,211.46 | 7,220.14 | 166.04 | 166.70 | -109.00 | -2,565.55 | -5,945.00 | 889.85 | 578.09 | 311.76 | 2.854 | | |
| 12,800.00 | 6,930.03 | 13,311.46 | 7,219.64 | 168.84 | 169.48 | -109.00 | -2,566.14 | -6,045.00 | 889.80 | 572.68 | 317.12 | 2.806 | | |
| 12,900.00 | 6,929.65 | 13,411.46 | 7,219.14 | 171.64 | 172.27 | -108.99 | -2,566.73 | -6,145.00 | 889.75 | 567.27 | 322.48 | 2.759 | | |
| 13,000.00 | 6,929.27 | 13,511.46 | 7,218.64 | 174.44 | 175.06 | -108.98 | -2,567.32 | -6,244.99 | 889.70 | 561.86 | 327.85 | 2.714 | | |
| 13,100.00 | 6,928.89 | 13,611.46 | 7,218.14 | 177.24 | 177.85 | -108.97 | -2,567.91 | -6,344.99 | 889.65 | 556.44 | 333.22 | 2.670 | | |
| 13,200.00 | 6,928.51 | 13,711.46 | 7,217.64 | 180.05 | 180.64 | -108.97 | -2,568.50 | -6,444.99 | 889.60 | 551.02 | 338.59 | 2.627 | | |
| 13,300.00 | 6,928.13 | 13,811.46 | 7,217.14 | 182.86 | 183.43 | -108.96 | -2,569.08 | -6,544.99 | 889.55 | 545.59 | 343.96 | 2.586 | | |
| 13,400.00 | 6,927.75 | 13,911.46 | 7,216.64 | 185.67 | 186.23 | -108.95 | -2,569.67 | -6,644.98 | 889.51 | 540.16 | 349.34 | 2.546 | | |
| 13,500.00 | 6,927.37 | 14,011.46 | 7,216.14 | 188.48 | 189.03 | -108.94 | -2,570.26 | -6,744.98 | 889.46 | 534.73 | 354.73 | 2.507 | | |
| 13,600.00 | 6,926.99 | 14,111.46 | 7,215.64 | 191.29 | 191.83 | -108.94 | -2,570.85 | -6,844.98 | 889.41 | 529.30 | 360.11 | 2.470 | | |
| 13,700.00 | 6,926.61 | 14,211.46 | 7,215.13 | 194.10 | 194.63 | -108.93 | -2,571.44 | -6,944.97 | 889.36 | 523.86 | 365.50 | 2.433 | | |
| 13,800.00 | 6,926.23 | 14,311.46 | 7,214.63 | 196.92 | 197.43 | -108.92 | -2,572.02 | -7,044.97 | 889.31 | 518.42 | 370.89 | 2.398 | | |
| 13,900.00 | 6,925.85 | 14,411.46 | 7,214.13 | 199.73 | 200.24 | -108.92 | -2,572.61 | -7,144.97 | 889.26 | 512.98 | 376.28 | 2.363 | | |
| 14,000.00 | 6,925.47 | 14,511.46 | 7,213.63 | 202.55 | 203.05 | -108.91 | -2,573.20 | -7,244.96 | 889.21 | 507.53 | 381.68 | 2.330 | | |
| 14,100.00 | 6,925.09 | 14,611.46 | 7,213.13 | 205.37 | 205.85 | -108.90 | -2,573.79 | -7,344.96 | 889.16 | 502.09 | 387.07 | 2.297 | | |
| 14,200.00 | 6,924.71 | 14,711.46 | 7,212.63 | 208.19 | 208.66 | -108.89 | -2,574.38 | -7,444.96 | 889.11 | 496.64 | 392.47 | 2.265 | | |
| 14,300.00 | 6,924.34 | 14,811.46 | 7,212.13 | 211.01 | 211.47 | -108.89 | -2,574.97 | -7,544.95 | 889.06 | 491.19 | 397.88 | 2.235 | | |
| 14,400.00 | 6,923.96 | 14,911.46 | 7,211.63 | 213.83 | 214.29 | -108.88 | -2,575.55 | -7,644.95 | 889.01 | 485.73 | 403.28 | 2.204 | | |
| 14,500.00 | 6,923.58 | 15,011.46 | 7,211.13 | 216.65 | 217.10 | -108.87 | -2,576.14 | -7,744.95 | 888.96 | 480.28 | 408.69 | 2.175 | | |
| 14,600.00 | 6,923.20 | 15,111.46 | 7,210.63 | 219.48 | 219.91 | -108.87 | -2,576.73 | -7,844.95 | 888.91 | 474.82 | 414.09 | 2.147 | | |
| 14,700.00 | 6,922.82 | 15,211.46 | 7,210.13 | 222.30 | 222.73 | -108.86 | -2,577.32 | -7,944.94 | 888.87 | 469.36 | 419.50 | 2.119 | | |
| 14,800.00 | 6,922.44 | 15,311.46 | 7,209.63 | 225.13 | 225.55 | -108.85 | -2,577.91 | -8,044.94 | 888.82 | 463.90 | 424.92 | 2.092 | | |
| 14,900.00 | 6,922.06 | 15,411.46 | 7,209.13 | 227.95 | 228.36 | -108.84 | -2,578.49 | -8,144.94 | 888.77 | 458.44 | 430.33 | 2.065 | | |
| 14,915.55 | 6,922.00 | 15,427.01 | 7,209.05 | 228.39 | 228.80 | -108.84 | -2,578.59 | -8,160.49 | 888.76 | 457.59 | 431.17 | 2.061 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 33N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | -179.47 | -59.75 | -0.56 | 59.75 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | -179.47 | -59.75 | -0.56 | 59.75 | 53.18 | 6.57 | 9.095 | | |
| 200.00 | 200.00 | 199.00 | 200.00 | 3.34 | 3.34 | -179.47 | -59.75 | -0.56 | 59.75 | 53.08 | 6.67 | 8.954 | | |
| 300.00 | 299.98 | 296.98 | 297.96 | 3.44 | 3.44 | -4.89 | -61.39 | -0.67 | 59.69 | 52.80 | 6.89 | 8.668 | | |
| 400.00 | 399.84 | 394.95 | 395.80 | 3.59 | 3.58 | -5.02 | -66.36 | -1.01 | 59.56 | 52.35 | 7.21 | 8.266 | | |
| 500.00 | 499.45 | 492.92 | 493.41 | 3.79 | 3.78 | -5.24 | -74.68 | -1.59 | 59.36 | 51.74 | 7.63 | 7.785 | | |
| 600.00 | 598.70 | 590.89 | 590.68 | 4.03 | 4.01 | -5.55 | -86.31 | -2.39 | 59.10 | 50.97 | 8.13 | 7.269 | | |
| 700.00 | 697.47 | 688.88 | 687.51 | 4.31 | 4.28 | -5.94 | -101.26 | -3.43 | 58.79 | 50.08 | 8.71 | 6.751 | | |
| 800.00 | 795.62 | 786.88 | 783.79 | 4.64 | 4.59 | -6.43 | -119.51 | -4.69 | 58.41 | 49.07 | 9.34 | 6.252 | | |
| 900.00 | 893.06 | 884.90 | 879.39 | 5.00 | 4.94 | -7.01 | -141.04 | -6.18 | 57.98 | 47.95 | 10.02 | 5.784 | | |
| 924.75 | 917.06 | 909.16 | 902.94 | 5.09 | 5.03 | -7.16 | -146.87 | -6.58 | 57.92 | 47.72 | 10.20 | 5.678 CC | | |
| 1,000.00 | 989.78 | 982.93 | 974.22 | 5.39 | 5.33 | -7.62 | -165.82 | -7.89 | 58.02 | 47.27 | 10.75 | 5.397 ES | | |
| 1,100.00 | 1,086.42 | 1,080.86 | 1,068.04 | 5.81 | 5.74 | -7.90 | -193.79 | -9.83 | 61.11 | 49.60 | 11.51 | 5.311 | | |
| 1,200.00 | 1,183.06 | 1,178.78 | 1,160.85 | 6.25 | 6.19 | -7.82 | -224.91 | -11.98 | 67.56 | 55.28 | 12.28 | 5.500 | | |
| 1,300.00 | 1,279.69 | 1,278.48 | 1,254.95 | 6.71 | 6.67 | -7.64 | -257.80 | -14.26 | 75.28 | 62.20 | 13.08 | 5.755 | | |
| 1,400.00 | 1,376.33 | 1,378.18 | 1,349.04 | 7.17 | 7.17 | -7.50 | -290.70 | -16.53 | 83.01 | 69.10 | 13.91 | 5.968 | | |
| 1,500.00 | 1,472.97 | 1,477.88 | 1,443.13 | 7.65 | 7.69 | -7.38 | -323.59 | -18.81 | 90.73 | 75.97 | 14.76 | 6.147 | | |
| 1,600.00 | 1,569.61 | 1,577.58 | 1,537.22 | 8.13 | 8.21 | -7.28 | -356.49 | -21.08 | 98.46 | 82.83 | 15.63 | 6.299 | | |
| 1,700.00 | 1,666.24 | 1,677.28 | 1,631.31 | 8.62 | 8.74 | -7.20 | -389.38 | -23.36 | 106.19 | 89.67 | 16.52 | 6.429 | | |
| 1,800.00 | 1,762.88 | 1,776.98 | 1,725.40 | 9.12 | 9.29 | -7.12 | -422.28 | -25.63 | 113.91 | 96.49 | 17.42 | 6.540 | | |
| 1,900.00 | 1,859.52 | 1,876.68 | 1,819.49 | 9.62 | 9.83 | -7.06 | -455.17 | -27.91 | 121.64 | 103.31 | 18.33 | 6.636 | | |
| 2,000.00 | 1,956.16 | 1,976.38 | 1,913.58 | 10.13 | 10.39 | -7.00 | -488.07 | -30.18 | 129.36 | 110.11 | 19.25 | 6.719 | | |
| 2,100.00 | 2,052.79 | 2,076.09 | 2,007.67 | 10.64 | 10.95 | -6.95 | -520.96 | -32.46 | 137.09 | 116.90 | 20.19 | 6.792 | | |
| 2,200.00 | 2,149.43 | 2,175.79 | 2,101.76 | 11.15 | 11.51 | -6.91 | -553.86 | -34.73 | 144.82 | 123.69 | 21.12 | 6.855 | | |
| 2,300.00 | 2,246.07 | 2,275.49 | 2,195.85 | 11.66 | 12.07 | -6.87 | -586.75 | -37.01 | 152.54 | 130.47 | 22.07 | 6.912 | | |
| 2,400.00 | 2,342.71 | 2,375.19 | 2,289.94 | 12.18 | 12.64 | -6.83 | -619.64 | -39.29 | 160.27 | 137.25 | 23.02 | 6.961 | | |
| 2,500.00 | 2,439.34 | 2,474.89 | 2,384.03 | 12.70 | 13.21 | -6.80 | -652.54 | -41.56 | 167.99 | 144.01 | 23.98 | 7.006 | | |
| 2,600.00 | 2,535.98 | 2,574.59 | 2,478.12 | 13.22 | 13.78 | -6.77 | -685.43 | -43.84 | 175.72 | 150.78 | 24.94 | 7.045 | | |
| 2,700.00 | 2,632.62 | 2,674.29 | 2,572.22 | 13.75 | 14.36 | -6.74 | -718.33 | -46.11 | 183.45 | 157.54 | 25.91 | 7.081 | | |
| 2,800.00 | 2,729.26 | 2,773.99 | 2,666.31 | 14.27 | 14.93 | -6.71 | -751.22 | -48.39 | 191.17 | 164.30 | 26.88 | 7.113 | | |
| 2,900.00 | 2,825.89 | 2,873.69 | 2,760.40 | 14.80 | 15.51 | -6.69 | -784.12 | -50.66 | 198.90 | 171.05 | 27.85 | 7.142 | | |
| 3,000.00 | 2,922.53 | 2,973.39 | 2,854.49 | 15.32 | 16.09 | -6.67 | -817.01 | -52.94 | 206.63 | 177.80 | 28.83 | 7.168 | | |
| 3,100.00 | 3,019.17 | 3,073.10 | 2,948.58 | 15.85 | 16.67 | -6.65 | -849.91 | -55.21 | 214.35 | 184.55 | 29.80 | 7.192 | | |
| 3,200.00 | 3,115.81 | 3,172.80 | 3,042.67 | 16.38 | 17.25 | -6.63 | -882.80 | -57.49 | 222.08 | 191.30 | 30.78 | 7.214 | | |
| 3,300.00 | 3,212.44 | 3,272.50 | 3,136.76 | 16.91 | 17.83 | -6.61 | -915.70 | -59.76 | 229.81 | 198.04 | 31.77 | 7.234 | | |
| 3,400.00 | 3,309.08 | 3,372.20 | 3,230.85 | 17.44 | 18.42 | -6.59 | -948.59 | -62.04 | 237.54 | 204.78 | 32.75 | 7.253 | | |
| 3,500.00 | 3,405.72 | 3,471.90 | 3,324.94 | 17.97 | 19.00 | -6.58 | -981.48 | -64.32 | 245.26 | 211.52 | 33.74 | 7.270 | | |
| 3,600.00 | 3,502.36 | 3,571.60 | 3,419.03 | 18.50 | 19.59 | -6.56 | -1,014.38 | -66.59 | 252.99 | 218.26 | 34.73 | 7.285 | | |
| 3,700.00 | 3,598.99 | 3,671.30 | 3,513.12 | 19.03 | 20.17 | -6.55 | -1,047.27 | -68.87 | 260.72 | 225.00 | 35.72 | 7.300 | | |
| 3,800.00 | 3,695.63 | 3,771.00 | 3,607.21 | 19.57 | 20.76 | -6.54 | -1,080.17 | -71.14 | 268.44 | 231.74 | 36.71 | 7.313 | | |
| 3,900.00 | 3,792.27 | 3,870.70 | 3,701.30 | 20.10 | 21.35 | -6.53 | -1,113.06 | -73.42 | 276.17 | 238.47 | 37.70 | 7.325 | | |
| 4,000.00 | 3,888.91 | 3,970.40 | 3,795.39 | 20.63 | 21.93 | -6.51 | -1,145.96 | -75.69 | 283.90 | 245.20 | 38.69 | 7.337 | | |
| 4,100.00 | 3,985.54 | 4,070.11 | 3,889.49 | 21.17 | 22.52 | -6.50 | -1,178.85 | -77.97 | 291.62 | 251.94 | 39.69 | 7.348 | | |
| 4,200.00 | 4,082.18 | 4,169.81 | 3,983.58 | 21.70 | 23.11 | -6.49 | -1,211.75 | -80.24 | 299.35 | 258.67 | 40.68 | 7.358 | | |
| 4,300.00 | 4,178.82 | 4,269.51 | 4,077.67 | 22.24 | 23.70 | -6.48 | -1,244.64 | -82.52 | 307.08 | 265.40 | 41.68 | 7.367 | | |
| 4,400.00 | 4,275.46 | 4,369.21 | 4,171.76 | 22.77 | 24.29 | -6.47 | -1,277.54 | -84.79 | 314.80 | 272.13 | 42.68 | 7.376 | | |
| 4,500.00 | 4,372.09 | 4,468.91 | 4,265.85 | 23.31 | 24.88 | -6.47 | -1,310.43 | -87.07 | 322.53 | 278.86 | 43.68 | 7.385 | | |
| 4,600.00 | 4,468.73 | 4,568.61 | 4,359.94 | 23.84 | 25.46 | -6.46 | -1,343.32 | -89.34 | 330.26 | 285.58 | 44.68 | 7.392 | | |
| 4,700.00 | 4,565.37 | 4,668.31 | 4,454.03 | 24.38 | 26.05 | -6.45 | -1,376.22 | -91.62 | 337.99 | 292.31 | 45.67 | 7.400 | | |
| 4,800.00 | 4,662.01 | 4,768.01 | 4,548.12 | 24.91 | 26.64 | -6.44 | -1,409.11 | -93.90 | 345.71 | 299.04 | 46.68 | 7.407 | | |
| 4,900.00 | 4,758.64 | 4,867.71 | 4,642.21 | 25.45 | 27.24 | -6.43 | -1,442.01 | -96.17 | 353.44 | 305.76 | 47.68 | 7.413 | | |
| 5,000.00 | 4,855.28 | 4,967.41 | 4,736.30 | 25.99 | 27.83 | -6.43 | -1,474.90 | -98.45 | 361.17 | 312.49 | 48.68 | 7.420 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 33N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 5,067.12 | 4,830.39 | 26.53 | 28.42 | -6.42 | -1,507.80 | -100.72 | 368.89 | 319.21 | 49.68 | 7.425 | | |
| 5,200.00 | 5,048.56 | 5,166.82 | 4,924.48 | 27.06 | 29.01 | -6.41 | -1,540.69 | -103.00 | 376.62 | 325.94 | 50.68 | 7.431 | | |
| 5,300.00 | 5,145.19 | 5,266.52 | 5,018.57 | 27.60 | 29.60 | -6.41 | -1,573.59 | -105.27 | 384.35 | 332.66 | 51.69 | 7.436 | | |
| 5,400.00 | 5,241.83 | 5,366.22 | 5,112.66 | 28.14 | 30.19 | -6.40 | -1,606.48 | -107.55 | 392.07 | 339.38 | 52.69 | 7.441 | | |
| 5,500.00 | 5,338.47 | 5,465.92 | 5,206.76 | 28.67 | 30.78 | -6.40 | -1,639.38 | -109.82 | 399.80 | 346.11 | 53.69 | 7.446 | | |
| 5,600.00 | 5,435.11 | 5,565.62 | 5,300.85 | 29.21 | 31.37 | -6.39 | -1,672.27 | -112.10 | 407.53 | 352.83 | 54.70 | 7.451 | | |
| 5,700.00 | 5,531.74 | 5,665.32 | 5,394.94 | 29.75 | 31.97 | -6.39 | -1,705.16 | -114.37 | 415.26 | 359.55 | 55.70 | 7.455 | | |
| 5,800.00 | 5,628.38 | 5,765.02 | 5,489.03 | 30.29 | 32.56 | -6.38 | -1,738.06 | -116.65 | 422.98 | 366.27 | 56.71 | 7.459 | | |
| 5,900.00 | 5,725.02 | 5,864.72 | 5,583.12 | 30.83 | 33.15 | -6.38 | -1,770.95 | -118.92 | 430.71 | 373.00 | 57.71 | 7.463 | | |
| 6,000.00 | 5,821.66 | 5,964.42 | 5,677.21 | 31.37 | 33.74 | -6.37 | -1,803.85 | -121.20 | 438.44 | 379.72 | 58.72 | 7.467 | | |
| 6,100.00 | 5,918.29 | 6,064.13 | 5,771.30 | 31.90 | 34.34 | -6.37 | -1,836.74 | -123.48 | 446.16 | 386.44 | 59.73 | 7.470 | | |
| 6,200.00 | 6,014.93 | 6,163.83 | 5,865.39 | 32.44 | 34.93 | -6.36 | -1,869.64 | -125.75 | 453.89 | 393.16 | 60.73 | 7.474 | | |
| 6,300.00 | 6,111.57 | 6,263.53 | 5,959.48 | 32.98 | 35.52 | -6.36 | -1,902.53 | -128.03 | 461.62 | 399.88 | 61.74 | 7.477 | | |
| 6,400.00 | 6,208.21 | 6,363.23 | 6,053.57 | 33.52 | 36.12 | -6.35 | -1,935.43 | -130.30 | 469.34 | 406.60 | 62.75 | 7.480 | | |
| 6,500.00 | 6,304.84 | 6,462.93 | 6,147.66 | 34.06 | 36.71 | -6.35 | -1,968.32 | -132.58 | 477.07 | 413.32 | 63.75 | 7.483 | | |
| 6,600.00 | 6,401.37 | 6,562.57 | 6,241.70 | 34.60 | 37.30 | -22.93 | -2,001.19 | -134.85 | 484.83 | 420.06 | 64.77 | 7.486 | | |
| 6,700.00 | 6,496.25 | 6,660.86 | 6,334.46 | 35.12 | 37.89 | -46.52 | -2,033.63 | -137.09 | 492.99 | 427.16 | 65.83 | 7.489 | | |
| 6,800.00 | 6,587.15 | 6,755.43 | 6,423.71 | 35.59 | 38.45 | -61.39 | -2,064.83 | -139.25 | 502.83 | 435.86 | 66.97 | 7.508 | | |
| 6,900.00 | 6,671.83 | 6,843.95 | 6,507.24 | 36.03 | 38.98 | -71.66 | -2,094.03 | -141.27 | 516.70 | 448.46 | 68.24 | 7.572 | | |
| 7,000.00 | 6,748.21 | 6,932.72 | 6,590.98 | 36.41 | 39.50 | -79.65 | -2,123.31 | -144.18 | 537.25 | 467.48 | 69.78 | 7.700 | | |
| 7,100.00 | 6,814.41 | 7,046.34 | 6,696.60 | 36.76 | 40.16 | -87.00 | -2,160.37 | -162.80 | 563.32 | 491.82 | 71.50 | 7.879 | | |
| 7,200.00 | 6,868.79 | 7,181.19 | 6,815.40 | 37.07 | 40.85 | -93.50 | -2,202.26 | -210.20 | 592.27 | 519.81 | 72.46 | 8.174 | | |
| 7,300.00 | 6,910.01 | 7,346.53 | 6,944.01 | 37.39 | 41.55 | -99.38 | -2,247.95 | -302.71 | 620.89 | 549.22 | 71.67 | 8.664 | | |
| 7,400.00 | 6,937.07 | 7,551.71 | 7,065.49 | 37.76 | 42.23 | -104.26 | -2,291.68 | -461.03 | 644.49 | 575.77 | 68.72 | 9.378 | | |
| 7,500.00 | 6,949.29 | 7,795.63 | 7,139.37 | 38.27 | 42.90 | -107.01 | -2,319.36 | -690.26 | 657.30 | 591.25 | 66.06 | 9.950 | | |
| 7,600.00 | 6,949.75 | 7,951.54 | 7,144.63 | 39.02 | 43.47 | -107.22 | -2,322.46 | -845.88 | 658.30 | 590.67 | 67.63 | 9.733 | | |
| 7,700.00 | 6,949.37 | 8,051.54 | 7,144.06 | 40.05 | 44.05 | -107.20 | -2,323.07 | -945.88 | 658.26 | 588.10 | 70.16 | 9.383 | | |
| 7,800.00 | 6,948.99 | 8,151.54 | 7,143.49 | 41.35 | 44.89 | -107.19 | -2,323.68 | -1,045.88 | 658.22 | 585.21 | 73.01 | 9.015 | | |
| 7,900.00 | 6,948.61 | 8,251.54 | 7,142.92 | 42.86 | 46.00 | -107.17 | -2,324.30 | -1,145.87 | 658.17 | 582.02 | 76.15 | 8.643 | | |
| 8,000.00 | 6,948.23 | 8,351.54 | 7,142.35 | 44.53 | 47.36 | -107.16 | -2,324.91 | -1,245.87 | 658.13 | 578.58 | 79.55 | 8.273 | | |
| 8,100.00 | 6,947.85 | 8,451.54 | 7,141.79 | 46.34 | 48.93 | -107.14 | -2,325.52 | -1,345.86 | 658.09 | 574.91 | 83.18 | 7.912 | | |
| 8,200.00 | 6,947.47 | 8,551.54 | 7,141.22 | 48.26 | 50.66 | -107.12 | -2,326.14 | -1,445.86 | 658.05 | 571.04 | 87.00 | 7.563 | | |
| 8,300.00 | 6,947.09 | 8,651.54 | 7,140.65 | 50.28 | 52.51 | -107.11 | -2,326.75 | -1,545.86 | 658.00 | 567.00 | 91.00 | 7.231 | | |
| 8,400.00 | 6,946.72 | 8,751.54 | 7,140.08 | 52.39 | 54.48 | -107.09 | -2,327.36 | -1,645.85 | 657.96 | 562.81 | 95.15 | 6.915 | | |
| 8,500.00 | 6,946.34 | 8,851.54 | 7,139.51 | 54.56 | 56.53 | -107.07 | -2,327.97 | -1,745.85 | 657.92 | 558.49 | 99.43 | 6.617 | | |
| 8,600.00 | 6,945.96 | 8,951.54 | 7,138.94 | 56.80 | 58.66 | -107.06 | -2,328.59 | -1,845.85 | 657.88 | 554.05 | 103.83 | 6.336 | | |
| 8,700.00 | 6,945.58 | 9,051.54 | 7,138.38 | 59.10 | 60.86 | -107.04 | -2,329.20 | -1,945.84 | 657.84 | 549.51 | 108.33 | 6.073 | | |
| 8,800.00 | 6,945.20 | 9,151.54 | 7,137.81 | 61.44 | 63.11 | -107.03 | -2,329.81 | -2,045.84 | 657.80 | 544.88 | 112.92 | 5.825 | | |
| 8,900.00 | 6,944.82 | 9,251.54 | 7,137.24 | 63.83 | 65.42 | -107.01 | -2,330.43 | -2,145.84 | 657.75 | 540.17 | 117.59 | 5.594 | | |
| 9,000.00 | 6,944.44 | 9,351.54 | 7,136.67 | 66.25 | 67.77 | -106.99 | -2,331.04 | -2,245.83 | 657.71 | 535.38 | 122.33 | 5.377 | | |
| 9,100.00 | 6,944.06 | 9,451.54 | 7,136.10 | 68.71 | 70.16 | -106.98 | -2,331.65 | -2,345.83 | 657.67 | 530.54 | 127.13 | 5.173 | | |
| 9,200.00 | 6,943.68 | 9,551.54 | 7,135.53 | 71.20 | 72.59 | -106.96 | -2,332.27 | -2,445.82 | 657.63 | 525.64 | 131.99 | 4.982 | | |
| 9,300.00 | 6,943.30 | 9,651.54 | 7,134.96 | 73.72 | 75.04 | -106.95 | -2,332.88 | -2,545.82 | 657.59 | 520.69 | 136.90 | 4.803 | | |
| 9,400.00 | 6,942.92 | 9,751.54 | 7,134.40 | 76.26 | 77.53 | -106.93 | -2,333.49 | -2,645.82 | 657.55 | 515.69 | 141.86 | 4.635 | | |
| 9,500.00 | 6,942.54 | 9,851.54 | 7,133.83 | 78.82 | 80.04 | -106.91 | -2,334.10 | -2,745.81 | 657.51 | 510.65 | 146.85 | 4.477 | | |
| 9,600.00 | 6,942.16 | 9,951.54 | 7,133.26 | 81.40 | 82.58 | -106.90 | -2,334.72 | -2,845.81 | 657.46 | 505.58 | 151.89 | 4.329 | | |
| 9,700.00 | 6,941.78 | 10,051.54 | 7,132.69 | 84.00 | 85.13 | -106.88 | -2,335.33 | -2,945.81 | 657.42 | 500.47 | 156.95 | 4.189 | | |
| 9,800.00 | 6,941.40 | 10,151.54 | 7,132.12 | 86.62 | 87.71 | -106.87 | -2,335.94 | -3,045.80 | 657.38 | 495.33 | 162.05 | 4.057 | | |
| 9,900.00 | 6,941.03 | 10,251.54 | 7,131.55 | 89.25 | 90.30 | -106.85 | -2,336.56 | -3,145.80 | 657.34 | 490.17 | 167.17 | 3.932 | | |
| 10,000.00 | 6,940.65 | 10,351.54 | 7,130.99 | 91.90 | 92.91 | -106.83 | -2,337.17 | -3,245.79 | 657.30 | 484.98 | 172.32 | 3.814 | | |
| 10,100.00 | 6,940.27 | 10,451.54 | 7,130.42 | 94.56 | 95.53 | -106.82 | -2,337.78 | -3,345.79 | 657.26 | 479.77 | 177.49 | 3.703 | | |
| 10,200.00 | 6,939.89 | 10,551.54 | 7,129.85 | 97.23 | 98.17 | -106.80 | -2,338.40 | -3,445.79 | 657.22 | 474.53 | 182.69 | 3.598 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 33N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: 0.00 ft | |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|-------------------|----------------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: 3.28 ft | |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 10,300.00 | 6,939.51 | 10,651.54 | 7,129.28 | 99.91 | 100.82 | -106.78 | -2,339.01 | -3,545.78 | 657.18 | 469.28 | 187.90 | 3.498 | | |
| 10,400.00 | 6,939.13 | 10,751.54 | 7,128.71 | 102.60 | 103.48 | -106.77 | -2,339.62 | -3,645.78 | 657.14 | 464.01 | 193.13 | 3.403 | | |
| 10,500.00 | 6,938.75 | 10,851.54 | 7,128.14 | 105.30 | 106.15 | -106.75 | -2,340.23 | -3,745.78 | 657.09 | 458.72 | 198.38 | 3.312 | | |
| 10,600.00 | 6,938.37 | 10,951.53 | 7,127.57 | 108.00 | 108.83 | -106.74 | -2,340.85 | -3,845.77 | 657.05 | 453.42 | 203.64 | 3.227 | | |
| 10,700.00 | 6,937.99 | 11,051.53 | 7,127.01 | 110.72 | 111.52 | -106.72 | -2,341.46 | -3,945.77 | 657.01 | 448.10 | 208.91 | 3.145 | | |
| 10,800.00 | 6,937.61 | 11,151.53 | 7,126.44 | 113.44 | 114.22 | -106.70 | -2,342.07 | -4,045.77 | 656.97 | 442.77 | 214.20 | 3.067 | | |
| 10,900.00 | 6,937.23 | 11,251.53 | 7,125.87 | 116.17 | 116.92 | -106.69 | -2,342.69 | -4,145.76 | 656.93 | 437.43 | 219.51 | 2.993 | | |
| 11,000.00 | 6,936.85 | 11,351.53 | 7,125.30 | 118.90 | 119.64 | -106.67 | -2,343.30 | -4,245.76 | 656.89 | 432.07 | 224.82 | 2.922 | | |
| 11,100.00 | 6,936.47 | 11,451.53 | 7,124.73 | 121.64 | 122.35 | -106.66 | -2,343.91 | -4,345.75 | 656.85 | 426.71 | 230.15 | 2.854 | | |
| 11,200.00 | 6,936.09 | 11,551.53 | 7,124.16 | 124.39 | 125.08 | -106.64 | -2,344.52 | -4,445.75 | 656.81 | 421.33 | 235.48 | 2.789 | | |
| 11,300.00 | 6,935.71 | 11,651.53 | 7,123.60 | 127.14 | 127.81 | -106.62 | -2,345.14 | -4,545.75 | 656.77 | 415.94 | 240.83 | 2.727 | | |
| 11,400.00 | 6,935.34 | 11,751.53 | 7,123.03 | 129.90 | 130.55 | -106.61 | -2,345.75 | -4,645.74 | 656.73 | 410.55 | 246.18 | 2.668 | | |
| 11,500.00 | 6,934.96 | 11,851.53 | 7,122.46 | 132.66 | 133.29 | -106.59 | -2,346.36 | -4,745.74 | 656.69 | 405.15 | 251.54 | 2.611 | | |
| 11,600.00 | 6,934.58 | 11,951.53 | 7,121.89 | 135.42 | 136.04 | -106.57 | -2,346.98 | -4,845.74 | 656.65 | 399.74 | 256.91 | 2.556 | | |
| 11,700.00 | 6,934.20 | 12,051.53 | 7,121.32 | 138.19 | 138.79 | -106.56 | -2,347.59 | -4,945.73 | 656.61 | 394.32 | 262.29 | 2.503 | | |
| 11,800.00 | 6,933.82 | 12,151.53 | 7,120.75 | 140.96 | 141.55 | -106.54 | -2,348.20 | -5,045.73 | 656.57 | 388.90 | 267.67 | 2.453 | | |
| 11,900.00 | 6,933.44 | 12,251.53 | 7,120.18 | 143.74 | 144.31 | -106.53 | -2,348.82 | -5,145.73 | 656.53 | 383.46 | 273.06 | 2.404 | | |
| 12,000.00 | 6,933.06 | 12,351.53 | 7,119.62 | 146.51 | 147.07 | -106.51 | -2,349.43 | -5,245.72 | 656.49 | 378.03 | 278.46 | 2.358 | | |
| 12,100.00 | 6,932.68 | 12,451.53 | 7,119.05 | 149.30 | 149.84 | -106.49 | -2,350.04 | -5,345.72 | 656.45 | 372.58 | 283.87 | 2.313 | | |
| 12,200.00 | 6,932.30 | 12,551.53 | 7,118.48 | 152.08 | 152.61 | -106.48 | -2,350.65 | -5,445.71 | 656.41 | 367.13 | 289.28 | 2.269 | | |
| 12,300.00 | 6,931.92 | 12,651.53 | 7,117.91 | 154.87 | 155.38 | -106.46 | -2,351.27 | -5,545.71 | 656.37 | 361.68 | 294.69 | 2.227 | | |
| 12,400.00 | 6,931.54 | 12,751.53 | 7,117.34 | 157.66 | 158.16 | -106.44 | -2,351.88 | -5,645.71 | 656.33 | 356.22 | 300.11 | 2.187 | | |
| 12,500.00 | 6,931.16 | 12,851.53 | 7,116.77 | 160.45 | 160.94 | -106.43 | -2,352.49 | -5,745.70 | 656.29 | 350.75 | 305.54 | 2.148 | | |
| 12,600.00 | 6,930.78 | 12,951.53 | 7,116.21 | 163.24 | 163.72 | -106.41 | -2,353.11 | -5,845.70 | 656.25 | 345.28 | 310.97 | 2.110 | | |
| 12,700.00 | 6,930.40 | 13,051.53 | 7,115.64 | 166.04 | 166.51 | -106.40 | -2,353.72 | -5,945.70 | 656.21 | 339.81 | 316.40 | 2.074 | | |
| 12,800.00 | 6,930.03 | 13,151.53 | 7,115.07 | 168.84 | 169.29 | -106.38 | -2,354.33 | -6,045.69 | 656.17 | 334.33 | 321.84 | 2.039 | | |
| 12,900.00 | 6,929.65 | 13,251.53 | 7,114.50 | 171.64 | 172.08 | -106.36 | -2,354.95 | -6,145.69 | 656.13 | 328.85 | 327.28 | 2.005 | | |
| 13,000.00 | 6,929.27 | 13,351.53 | 7,113.93 | 174.44 | 174.88 | -106.35 | -2,355.56 | -6,245.68 | 656.09 | 323.36 | 332.73 | 1.972 | | |
| 13,100.00 | 6,928.89 | 13,451.53 | 7,113.36 | 177.24 | 177.67 | -106.33 | -2,356.17 | -6,345.68 | 656.05 | 317.87 | 338.18 | 1.940 | | |
| 13,200.00 | 6,928.51 | 13,551.53 | 7,112.79 | 180.05 | 180.47 | -106.32 | -2,356.78 | -6,445.68 | 656.01 | 312.37 | 343.64 | 1.909 | | |
| 13,300.00 | 6,928.13 | 13,651.53 | 7,112.23 | 182.86 | 183.26 | -106.30 | -2,357.40 | -6,545.67 | 655.97 | 306.88 | 349.10 | 1.879 | | |
| 13,400.00 | 6,927.75 | 13,751.53 | 7,111.66 | 185.67 | 186.06 | -106.28 | -2,358.01 | -6,645.67 | 655.93 | 301.38 | 354.56 | 1.850 | | |
| 13,500.00 | 6,927.37 | 13,851.53 | 7,111.09 | 188.48 | 188.87 | -106.27 | -2,358.62 | -6,745.67 | 655.89 | 295.87 | 360.02 | 1.822 | | |
| 13,600.00 | 6,926.99 | 13,951.53 | 7,110.52 | 191.29 | 191.67 | -106.25 | -2,359.24 | -6,845.66 | 655.86 | 290.36 | 365.49 | 1.794 | | |
| 13,700.00 | 6,926.61 | 14,051.53 | 7,109.95 | 194.10 | 194.48 | -106.23 | -2,359.85 | -6,945.66 | 655.82 | 284.85 | 370.97 | 1.768 | | |
| 13,800.00 | 6,926.23 | 14,151.53 | 7,109.38 | 196.92 | 197.28 | -106.22 | -2,360.46 | -7,045.66 | 655.78 | 279.34 | 376.44 | 1.742 | | |
| 13,900.00 | 6,925.85 | 14,251.53 | 7,108.82 | 199.73 | 200.09 | -106.20 | -2,361.08 | -7,145.65 | 655.74 | 273.82 | 381.92 | 1.717 | | |
| 14,000.00 | 6,925.47 | 14,351.53 | 7,108.25 | 202.55 | 202.90 | -106.19 | -2,361.69 | -7,245.65 | 655.70 | 268.30 | 387.40 | 1.693 | | |
| 14,100.00 | 6,925.09 | 14,451.53 | 7,107.68 | 205.37 | 205.71 | -106.17 | -2,362.30 | -7,345.64 | 655.66 | 262.78 | 392.88 | 1.669 | | |
| 14,200.00 | 6,924.71 | 14,551.53 | 7,107.11 | 208.19 | 208.52 | -106.15 | -2,362.91 | -7,445.64 | 655.62 | 257.25 | 398.37 | 1.646 | | |
| 14,300.00 | 6,924.34 | 14,651.53 | 7,106.54 | 211.01 | 211.34 | -106.14 | -2,363.53 | -7,545.64 | 655.58 | 251.73 | 403.86 | 1.623 | | |
| 14,400.00 | 6,923.96 | 14,751.53 | 7,105.97 | 213.83 | 214.15 | -106.12 | -2,364.14 | -7,645.63 | 655.54 | 246.20 | 409.35 | 1.601 | | |
| 14,500.00 | 6,923.58 | 14,851.53 | 7,105.40 | 216.65 | 216.97 | -106.10 | -2,364.75 | -7,745.63 | 655.51 | 240.66 | 414.84 | 1.580 | | |
| 14,600.00 | 6,923.20 | 14,951.53 | 7,104.84 | 219.48 | 219.78 | -106.09 | -2,365.37 | -7,845.63 | 655.47 | 235.13 | 420.34 | 1.559 | | |
| 14,700.00 | 6,922.82 | 15,051.53 | 7,104.27 | 222.30 | 222.60 | -106.07 | -2,365.98 | -7,945.62 | 655.43 | 229.59 | 425.83 | 1.539 | | |
| 14,800.00 | 6,922.44 | 15,151.53 | 7,103.70 | 225.13 | 225.42 | -106.06 | -2,366.59 | -8,045.62 | 655.39 | 224.05 | 431.34 | 1.519 | | |
| 14,900.00 | 6,922.06 | 15,251.53 | 7,103.13 | 227.95 | 228.24 | -106.04 | -2,367.20 | -8,145.62 | 655.35 | 218.51 | 436.84 | 1.500 | | |
| 14,915.55 | 6,922.00 | 15,267.08 | 7,103.04 | 228.39 | 228.68 | -106.04 | -2,367.30 | -8,161.16 | 655.35 | 217.65 | 437.69 | 1.497 Level 3, SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 4C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 0.00 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 2.00 | 0.00 | 3.28 | 0.00 | 0.47 | 340.27 | 2.78 | 340.28 | | | | | |
| 100.00 | 100.00 | 102.00 | 100.00 | 3.28 | 0.18 | 0.47 | 340.27 | 2.78 | 340.28 | 336.81 | 3.47 | 98.091 | | |
| 200.00 | 200.00 | 202.00 | 200.00 | 3.34 | 0.62 | 0.47 | 340.27 | 2.78 | 340.28 | 336.32 | 3.96 | 85.927 | CC, ES | |
| 300.00 | 299.98 | 301.98 | 299.98 | 3.44 | 1.06 | 175.11 | 340.27 | 2.78 | 342.02 | 337.51 | 4.50 | 75.973 | | |
| 400.00 | 399.84 | 401.84 | 399.84 | 3.59 | 1.50 | 175.17 | 340.27 | 2.78 | 347.23 | 342.14 | 5.09 | 68.190 | | |
| 500.00 | 499.45 | 501.45 | 499.45 | 3.79 | 1.94 | 175.28 | 340.27 | 2.78 | 355.92 | 350.19 | 5.73 | 62.120 | | |
| 600.00 | 598.70 | 599.32 | 587.31 | 4.03 | 2.32 | 175.36 | 341.64 | 2.59 | 369.61 | 363.24 | 6.37 | 58.020 | | |
| 700.00 | 697.47 | 675.93 | 673.82 | 4.31 | 2.71 | 175.40 | 345.62 | 2.05 | 389.71 | 382.66 | 7.05 | 55.274 | | |
| 800.00 | 795.62 | 760.62 | 758.26 | 4.64 | 3.08 | 175.41 | 352.00 | 1.18 | 416.07 | 408.32 | 7.75 | 53.683 | | |
| 900.00 | 893.06 | 842.93 | 840.11 | 5.00 | 3.45 | 175.38 | 360.58 | 0.02 | 448.51 | 440.05 | 8.46 | 53.031 | | |
| 1,000.00 | 989.78 | 922.65 | 919.12 | 5.39 | 3.81 | 175.35 | 371.10 | -1.41 | 486.33 | 477.17 | 9.16 | 53.085 | | |
| 1,100.00 | 1,086.42 | 1,000.43 | 995.88 | 5.81 | 4.15 | 175.32 | 383.46 | -3.10 | 526.97 | 517.13 | 9.84 | 53.545 | | |
| 1,200.00 | 1,183.06 | 1,084.94 | 1,078.97 | 6.25 | 4.53 | 175.26 | 398.77 | -5.18 | 569.63 | 559.08 | 10.55 | 53.999 | | |
| 1,300.00 | 1,279.69 | 1,175.28 | 1,167.76 | 6.71 | 4.94 | 175.20 | 415.31 | -7.43 | 612.49 | 601.19 | 11.30 | 54.208 | | |
| 1,400.00 | 1,376.33 | 1,265.63 | 1,256.55 | 7.17 | 5.34 | 175.14 | 431.85 | -9.68 | 655.36 | 643.29 | 12.06 | 54.325 | | |
| 1,500.00 | 1,472.97 | 1,355.97 | 1,345.34 | 7.65 | 5.76 | 175.10 | 448.40 | -11.93 | 698.22 | 685.38 | 12.84 | 54.376 | | |
| 1,600.00 | 1,569.61 | 1,446.32 | 1,434.13 | 8.13 | 6.18 | 175.05 | 464.94 | -14.18 | 741.09 | 727.46 | 13.63 | 54.378 | | |
| 1,700.00 | 1,666.24 | 1,536.66 | 1,522.92 | 8.62 | 6.60 | 175.02 | 481.49 | -16.43 | 783.96 | 769.53 | 14.43 | 54.345 | | |
| 1,800.00 | 1,762.88 | 1,627.01 | 1,611.71 | 9.12 | 7.02 | 174.98 | 498.03 | -18.68 | 826.83 | 811.60 | 15.23 | 54.288 | | |
| 1,900.00 | 1,859.52 | 1,717.35 | 1,700.50 | 9.62 | 7.44 | 174.95 | 514.57 | -20.93 | 869.69 | 853.65 | 16.04 | 54.214 | | |
| 2,000.00 | 1,956.16 | 1,807.70 | 1,789.28 | 10.13 | 7.87 | 174.93 | 531.12 | -23.18 | 912.56 | 895.70 | 16.86 | 54.129 | | |
| 2,100.00 | 2,052.79 | 1,901.96 | 1,878.07 | 10.64 | 8.31 | 174.90 | 547.66 | -25.43 | 955.43 | 937.73 | 17.70 | 53.981 | | |
| 2,200.00 | 2,149.43 | 1,988.39 | 1,966.86 | 11.15 | 8.72 | 174.88 | 564.21 | -27.68 | 998.30 | 979.79 | 18.51 | 53.939 | | |
| 2,300.00 | 2,246.07 | 2,078.73 | 2,055.65 | 11.66 | 9.14 | 174.86 | 580.75 | -29.93 | 1,041.17 | 1,021.83 | 19.34 | 53.840 | | |
| 2,400.00 | 2,342.71 | 2,169.08 | 2,144.44 | 12.18 | 9.57 | 174.84 | 597.30 | -32.19 | 1,084.04 | 1,063.86 | 20.17 | 53.740 | | |
| 2,500.00 | 2,439.34 | 2,259.42 | 2,233.23 | 12.70 | 10.00 | 174.82 | 613.84 | -34.44 | 1,126.90 | 1,105.89 | 21.01 | 53.640 | | |
| 2,600.00 | 2,535.98 | 2,349.77 | 2,322.02 | 13.22 | 10.43 | 174.81 | 630.38 | -36.69 | 1,169.77 | 1,147.92 | 21.85 | 53.541 | | |
| 2,700.00 | 2,632.62 | 2,440.11 | 2,410.80 | 13.75 | 10.85 | 174.79 | 646.93 | -38.94 | 1,212.64 | 1,189.95 | 22.69 | 53.444 | | |
| 2,800.00 | 2,729.26 | 2,530.46 | 2,499.59 | 14.27 | 11.28 | 174.78 | 663.47 | -41.19 | 1,255.51 | 1,231.98 | 23.53 | 53.350 | | |
| 2,900.00 | 2,825.89 | 2,620.80 | 2,588.38 | 14.80 | 11.71 | 174.77 | 680.02 | -43.44 | 1,298.38 | 1,274.00 | 24.38 | 53.257 | | |
| 3,000.00 | 2,922.53 | 2,711.15 | 2,677.17 | 15.32 | 12.14 | 174.75 | 696.56 | -45.69 | 1,341.25 | 1,316.02 | 25.23 | 53.168 | | |
| 3,100.00 | 3,019.17 | 2,801.49 | 2,765.96 | 15.85 | 12.57 | 174.74 | 713.10 | -47.94 | 1,384.12 | 1,358.04 | 26.08 | 53.081 | | |
| 3,200.00 | 3,115.81 | 2,908.16 | 2,854.75 | 16.38 | 13.07 | 174.73 | 729.65 | -50.19 | 1,426.98 | 1,399.98 | 27.00 | 52.847 | | |
| 3,300.00 | 3,212.44 | 2,982.18 | 2,943.54 | 16.91 | 13.43 | 174.72 | 746.19 | -52.44 | 1,469.85 | 1,442.08 | 27.78 | 52.915 | | |
| 3,400.00 | 3,309.08 | 3,072.53 | 3,032.32 | 17.44 | 13.86 | 174.71 | 762.74 | -54.69 | 1,512.72 | 1,484.09 | 28.63 | 52.836 | | |
| 3,500.00 | 3,405.72 | 3,162.87 | 3,121.11 | 17.97 | 14.29 | 174.70 | 779.28 | -56.94 | 1,555.59 | 1,526.11 | 29.48 | 52.759 | | |
| 3,600.00 | 3,502.36 | 3,253.22 | 3,209.90 | 18.50 | 14.71 | 174.69 | 795.83 | -59.19 | 1,598.46 | 1,568.12 | 30.34 | 52.686 | | |
| 3,700.00 | 3,598.99 | 3,343.56 | 3,298.69 | 19.03 | 15.14 | 174.68 | 812.37 | -61.44 | 1,641.33 | 1,610.13 | 31.20 | 52.614 | | |
| 3,800.00 | 3,695.63 | 3,433.91 | 3,387.48 | 19.57 | 15.57 | 174.68 | 828.91 | -63.69 | 1,684.20 | 1,652.15 | 32.05 | 52.545 | | |
| 3,900.00 | 3,792.27 | 3,524.25 | 3,476.27 | 20.10 | 16.00 | 174.67 | 845.46 | -65.95 | 1,727.07 | 1,694.16 | 32.91 | 52.479 | | |
| 4,000.00 | 3,888.91 | 3,614.60 | 3,565.06 | 20.63 | 16.43 | 174.66 | 862.00 | -68.20 | 1,769.94 | 1,736.17 | 33.77 | 52.415 | | |
| 4,100.00 | 3,985.54 | 3,704.94 | 3,653.85 | 21.17 | 16.86 | 174.66 | 878.55 | -70.45 | 1,812.81 | 1,778.18 | 34.63 | 52.352 | | |
| 4,200.00 | 4,082.18 | 3,804.71 | 3,742.63 | 21.70 | 17.34 | 174.65 | 895.09 | -72.70 | 1,855.68 | 1,820.14 | 35.53 | 52.228 | | |
| 4,300.00 | 4,178.82 | 3,885.63 | 3,831.42 | 22.24 | 17.73 | 174.64 | 911.63 | -74.95 | 1,898.54 | 1,862.20 | 36.35 | 52.234 | | |
| 4,400.00 | 4,275.46 | 3,975.98 | 3,920.21 | 22.77 | 18.16 | 174.64 | 928.18 | -77.20 | 1,941.41 | 1,904.21 | 37.21 | 52.178 | | |
| 4,500.00 | 4,372.09 | 4,066.32 | 4,009.00 | 23.31 | 18.59 | 174.63 | 944.72 | -79.45 | 1,984.28 | 1,946.21 | 38.07 | 52.123 | | |
| 4,600.00 | 4,468.73 | 4,156.67 | 4,097.79 | 23.84 | 19.02 | 174.63 | 961.27 | -81.70 | 2,027.15 | 1,988.22 | 38.93 | 52.071 | | |
| 4,700.00 | 4,565.37 | 4,247.01 | 4,186.58 | 24.38 | 19.45 | 174.62 | 977.81 | -83.95 | 2,070.02 | 2,030.23 | 39.79 | 52.020 | | |
| 4,800.00 | 4,662.01 | 4,337.36 | 4,275.37 | 24.91 | 19.88 | 174.62 | 994.36 | -86.20 | 2,112.89 | 2,072.23 | 40.66 | 51.970 | | |
| 4,900.00 | 4,758.64 | 4,427.70 | 4,364.15 | 25.45 | 20.31 | 174.61 | 1,010.90 | -88.45 | 2,155.76 | 2,114.24 | 41.52 | 51.922 | | |
| 5,000.00 | 4,855.28 | 4,518.05 | 4,452.94 | 25.99 | 20.74 | 174.61 | 1,027.44 | -90.70 | 2,198.63 | 2,156.25 | 42.38 | 51.875 | | |
| 5,100.00 | 4,951.92 | 4,608.39 | 4,541.73 | 26.53 | 21.17 | 174.60 | 1,043.99 | -92.95 | 2,241.50 | 2,198.25 | 43.25 | 51.830 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 4C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 0.00 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,701.27 | 4,630.52 | 27.06 | 21.61 | 174.60 | 1,060.53 | -95.20 | 2,284.37 | 2,240.24 | 44.12 | 51.772 | | |
| 5,300.00 | 5,145.19 | 4,789.08 | 4,719.31 | 27.60 | 22.03 | 174.60 | 1,077.08 | -97.45 | 2,327.24 | 2,282.26 | 44.98 | 51.744 | | |
| 5,400.00 | 5,241.83 | 4,879.42 | 4,808.10 | 28.14 | 22.46 | 174.59 | 1,093.62 | -99.71 | 2,370.11 | 2,324.26 | 45.84 | 51.702 | | |
| 5,500.00 | 5,338.47 | 4,969.77 | 4,896.89 | 28.67 | 22.89 | 174.59 | 1,110.16 | -101.96 | 2,412.98 | 2,366.27 | 46.71 | 51.662 | | |
| 5,600.00 | 5,435.11 | 5,060.11 | 4,985.68 | 29.21 | 23.32 | 174.58 | 1,126.71 | -104.21 | 2,455.84 | 2,408.27 | 47.57 | 51.623 | | |
| 5,700.00 | 5,531.74 | 5,150.46 | 5,074.46 | 29.75 | 23.75 | 174.58 | 1,143.25 | -106.46 | 2,498.71 | 2,450.27 | 48.44 | 51.584 | | |
| 5,800.00 | 5,628.38 | 5,240.80 | 5,163.25 | 30.29 | 24.19 | 174.58 | 1,159.80 | -108.71 | 2,541.58 | 2,492.28 | 49.31 | 51.547 | | |
| 5,900.00 | 5,725.02 | 5,331.15 | 5,252.04 | 30.83 | 24.62 | 174.57 | 1,176.34 | -110.96 | 2,584.45 | 2,534.28 | 50.17 | 51.511 | | |
| 6,000.00 | 5,821.66 | 5,421.49 | 5,340.83 | 31.37 | 25.05 | 174.57 | 1,192.89 | -113.21 | 2,627.32 | 2,576.28 | 51.04 | 51.476 | | |
| 6,100.00 | 5,918.29 | 5,511.84 | 5,429.62 | 31.90 | 25.48 | 174.57 | 1,209.43 | -115.46 | 2,670.19 | 2,618.28 | 51.91 | 51.441 | | |
| 6,200.00 | 6,014.93 | 5,602.18 | 5,518.41 | 32.44 | 25.91 | 174.56 | 1,225.97 | -117.71 | 2,713.06 | 2,660.29 | 52.78 | 51.408 | | |
| 6,300.00 | 6,111.57 | 5,707.47 | 5,607.20 | 32.98 | 26.41 | 174.56 | 1,242.52 | -119.96 | 2,755.93 | 2,702.22 | 53.71 | 51.308 | | |
| 6,400.00 | 6,208.21 | 5,782.87 | 5,695.98 | 33.52 | 26.77 | 174.56 | 1,259.06 | -122.21 | 2,798.80 | 2,744.29 | 54.51 | 51.343 | | |
| 6,500.00 | 6,304.84 | 5,873.22 | 5,784.77 | 34.06 | 27.20 | 174.56 | 1,275.61 | -124.46 | 2,841.67 | 2,786.29 | 55.38 | 51.311 | | |
| 6,600.00 | 6,401.37 | 5,963.51 | 5,873.51 | 34.60 | 27.63 | 155.65 | 1,292.14 | -126.71 | 2,884.52 | 2,828.27 | 56.25 | 51.281 | | |
| 6,700.00 | 6,496.25 | 6,052.59 | 5,961.06 | 35.12 | 28.06 | 129.30 | 1,308.45 | -128.93 | 2,926.88 | 2,869.78 | 57.10 | 51.256 | | |
| 6,800.00 | 6,587.15 | 6,138.31 | 6,045.30 | 35.59 | 28.47 | 113.50 | 1,324.15 | -131.07 | 2,967.97 | 2,910.06 | 57.91 | 51.249 | | |
| 6,900.00 | 6,671.83 | 6,218.56 | 6,124.17 | 36.03 | 28.85 | 103.50 | 1,338.85 | -133.07 | 3,007.24 | 2,948.57 | 58.67 | 51.257 | | |
| 7,000.00 | 6,748.21 | 6,308.63 | 6,195.72 | 36.41 | 29.28 | 96.64 | 1,352.18 | -134.88 | 3,044.31 | 2,984.85 | 59.46 | 51.200 | | |
| 7,100.00 | 6,814.41 | 6,354.93 | 6,258.18 | 36.76 | 29.50 | 91.63 | 1,363.82 | -136.46 | 3,078.94 | 3,018.87 | 60.07 | 51.259 | | |
| 7,200.00 | 6,868.79 | 6,407.68 | 6,310.03 | 37.07 | 29.75 | 87.79 | 1,373.48 | -137.78 | 3,110.99 | 3,050.22 | 60.77 | 51.196 | | |
| 7,300.00 | 6,910.01 | 6,448.33 | 6,349.98 | 37.39 | 29.95 | 84.75 | 1,380.92 | -138.79 | 3,140.34 | 3,078.82 | 61.52 | 51.048 | | |
| 7,400.00 | 6,937.07 | 6,475.87 | 6,377.05 | 37.76 | 30.08 | 82.28 | 1,385.97 | -139.48 | 3,166.82 | 3,104.48 | 62.34 | 50.798 | | |
| 7,500.00 | 6,949.29 | 6,489.63 | 6,390.57 | 38.27 | 30.14 | 80.26 | 1,388.49 | -139.82 | 3,190.21 | 3,126.98 | 63.24 | 50.449 | | |
| 7,600.00 | 6,949.75 | 6,507.57 | 6,393.32 | 39.02 | 30.23 | 79.70 | 1,389.00 | -139.89 | 3,211.66 | 3,147.38 | 64.28 | 49.964 | | |
| 7,700.00 | 6,949.37 | 6,505.56 | 6,395.29 | 40.05 | 30.22 | 79.74 | 1,389.36 | -139.94 | 3,235.70 | 3,170.34 | 65.37 | 49.501 | | |
| 7,800.00 | 6,948.99 | 8,056.56 | 7,258.67 | 41.35 | 42.03 | 95.48 | 1,535.36 | -1,103.51 | 3,245.50 | 3,163.58 | 81.92 | 39.616 | | |
| 7,900.00 | 6,948.61 | 8,156.56 | 7,258.25 | 42.86 | 43.76 | 95.48 | 1,533.70 | -1,203.49 | 3,244.44 | 3,159.13 | 85.31 | 38.032 | | |
| 8,000.00 | 6,948.23 | 8,256.55 | 7,257.83 | 44.53 | 45.59 | 95.48 | 1,532.04 | -1,303.47 | 3,243.38 | 3,154.45 | 88.93 | 36.472 | | |
| 8,100.00 | 6,947.85 | 8,356.54 | 7,257.41 | 46.34 | 47.53 | 95.48 | 1,530.38 | -1,403.45 | 3,242.32 | 3,149.57 | 92.76 | 34.955 | | |
| 8,200.00 | 6,947.47 | 8,456.54 | 7,256.99 | 48.26 | 49.55 | 95.48 | 1,528.72 | -1,503.43 | 3,241.26 | 3,144.50 | 96.77 | 33.496 | | |
| 8,300.00 | 6,947.09 | 8,556.53 | 7,256.57 | 50.28 | 51.66 | 95.48 | 1,527.07 | -1,603.41 | 3,240.21 | 3,139.27 | 100.94 | 32.101 | | |
| 8,400.00 | 6,946.72 | 8,656.53 | 7,256.15 | 52.39 | 53.83 | 95.48 | 1,525.41 | -1,703.39 | 3,239.15 | 3,133.89 | 105.25 | 30.775 | | |
| 8,500.00 | 6,946.34 | 8,756.52 | 7,255.73 | 54.56 | 56.07 | 95.49 | 1,523.75 | -1,803.37 | 3,238.09 | 3,128.39 | 109.69 | 29.520 | | |
| 8,600.00 | 6,945.96 | 8,856.52 | 7,255.31 | 56.80 | 58.36 | 95.49 | 1,522.09 | -1,903.35 | 3,237.03 | 3,122.78 | 114.24 | 28.335 | | |
| 8,700.00 | 6,945.58 | 8,956.51 | 7,254.89 | 59.10 | 60.70 | 95.49 | 1,520.43 | -2,003.33 | 3,235.97 | 3,117.08 | 118.89 | 27.218 | | |
| 8,800.00 | 6,945.20 | 9,056.50 | 7,254.47 | 61.44 | 63.08 | 95.49 | 1,518.77 | -2,103.31 | 3,234.91 | 3,111.28 | 123.63 | 26.167 | | |
| 8,900.00 | 6,944.82 | 9,156.50 | 7,254.05 | 63.83 | 65.50 | 95.49 | 1,517.11 | -2,203.29 | 3,233.85 | 3,105.41 | 128.44 | 25.178 | | |
| 9,000.00 | 6,944.44 | 9,256.49 | 7,253.63 | 66.25 | 67.95 | 95.49 | 1,515.46 | -2,303.27 | 3,232.79 | 3,099.47 | 133.32 | 24.248 | | |
| 9,100.00 | 6,944.06 | 9,356.49 | 7,253.21 | 68.71 | 70.43 | 95.49 | 1,513.80 | -2,403.25 | 3,231.73 | 3,093.47 | 138.27 | 23.373 | | |
| 9,200.00 | 6,943.68 | 9,456.48 | 7,252.79 | 71.20 | 72.94 | 95.49 | 1,512.14 | -2,503.23 | 3,230.67 | 3,087.41 | 143.27 | 22.550 | | |
| 9,300.00 | 6,943.30 | 9,556.48 | 7,252.37 | 73.72 | 75.48 | 95.49 | 1,510.48 | -2,603.21 | 3,229.61 | 3,081.30 | 148.31 | 21.775 | | |
| 9,400.00 | 6,942.92 | 9,656.47 | 7,251.95 | 76.26 | 78.03 | 95.50 | 1,508.82 | -2,703.19 | 3,228.56 | 3,075.15 | 153.41 | 21.046 | | |
| 9,500.00 | 6,942.54 | 9,756.47 | 7,251.53 | 78.82 | 80.61 | 95.50 | 1,507.16 | -2,803.17 | 3,227.50 | 3,068.95 | 158.54 | 20.357 | | |
| 9,600.00 | 6,942.16 | 9,856.46 | 7,251.11 | 81.40 | 83.21 | 95.50 | 1,505.50 | -2,903.15 | 3,226.44 | 3,062.72 | 163.71 | 19.708 | | |
| 9,700.00 | 6,941.78 | 9,956.45 | 7,250.69 | 84.00 | 85.82 | 95.50 | 1,503.85 | -3,003.13 | 3,225.38 | 3,056.46 | 168.92 | 19.094 | | |
| 9,800.00 | 6,941.40 | 10,056.45 | 7,250.27 | 86.62 | 88.44 | 95.50 | 1,502.19 | -3,103.11 | 3,224.32 | 3,050.17 | 174.15 | 18.514 | | |
| 9,900.00 | 6,941.03 | 10,156.44 | 7,249.85 | 89.25 | 91.08 | 95.50 | 1,500.53 | -3,203.09 | 3,223.26 | 3,043.85 | 179.41 | 17.966 | | |
| 10,000.00 | 6,940.65 | 10,256.44 | 7,249.43 | 91.90 | 93.74 | 95.50 | 1,498.87 | -3,303.07 | 3,222.20 | 3,037.50 | 184.70 | 17.445 | | |
| 10,100.00 | 6,940.27 | 10,356.43 | 7,249.01 | 94.56 | 96.40 | 95.50 | 1,497.21 | -3,403.05 | 3,221.14 | 3,031.13 | 190.01 | 16.952 | | |
| 10,200.00 | 6,939.89 | 10,456.43 | 7,248.59 | 97.23 | 99.08 | 95.50 | 1,495.55 | -3,503.03 | 3,220.08 | 3,024.74 | 195.34 | 16.484 | | |
| 10,300.00 | 6,939.51 | 10,556.42 | 7,248.17 | 99.91 | 101.76 | 95.50 | 1,493.89 | -3,603.01 | 3,219.02 | 3,018.33 | 200.69 | 16.039 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTER STATE 4C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 0.00 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,656.41 | 7,247.75 | 102.60 | 104.46 | 95.51 | 1,492.24 | -3,702.99 | 3,217.96 | 3,011.90 | 206.06 | 15.616 | | |
| 10,500.00 | 6,938.75 | 10,756.41 | 7,247.33 | 105.30 | 107.16 | 95.51 | 1,490.58 | -3,802.96 | 3,216.91 | 3,005.45 | 211.45 | 15.214 | | |
| 10,600.00 | 6,938.37 | 10,856.40 | 7,246.90 | 108.00 | 109.87 | 95.51 | 1,488.92 | -3,902.94 | 3,215.85 | 2,998.99 | 216.85 | 14.830 | | |
| 10,700.00 | 6,937.99 | 10,956.40 | 7,246.48 | 110.72 | 112.59 | 95.51 | 1,487.26 | -4,002.92 | 3,214.79 | 2,992.52 | 222.27 | 14.464 | | |
| 10,800.00 | 6,937.61 | 11,056.39 | 7,246.06 | 113.44 | 115.31 | 95.51 | 1,485.60 | -4,102.90 | 3,213.73 | 2,986.03 | 227.70 | 14.114 | | |
| 10,900.00 | 6,937.23 | 11,156.39 | 7,245.64 | 116.17 | 118.04 | 95.51 | 1,483.94 | -4,202.88 | 3,212.67 | 2,979.53 | 233.14 | 13.780 | | |
| 11,000.00 | 6,936.85 | 11,256.38 | 7,245.22 | 118.90 | 120.78 | 95.51 | 1,482.28 | -4,302.86 | 3,211.61 | 2,973.02 | 238.59 | 13.461 | | |
| 11,100.00 | 6,936.47 | 11,356.38 | 7,244.80 | 121.64 | 123.52 | 95.51 | 1,480.63 | -4,402.84 | 3,210.55 | 2,966.50 | 244.05 | 13.155 | | |
| 11,200.00 | 6,936.09 | 11,456.37 | 7,244.38 | 124.39 | 126.27 | 95.51 | 1,478.97 | -4,502.82 | 3,209.49 | 2,959.96 | 249.53 | 12.862 | | |
| 11,300.00 | 6,935.71 | 11,556.36 | 7,243.96 | 127.14 | 129.02 | 95.52 | 1,477.31 | -4,602.80 | 3,208.43 | 2,953.42 | 255.01 | 12.582 | | |
| 11,400.00 | 6,935.34 | 11,656.36 | 7,243.54 | 129.90 | 131.77 | 95.52 | 1,475.65 | -4,702.78 | 3,207.37 | 2,946.87 | 260.50 | 12.312 | | |
| 11,500.00 | 6,934.96 | 11,756.35 | 7,243.12 | 132.66 | 134.53 | 95.52 | 1,473.99 | -4,802.76 | 3,206.31 | 2,940.31 | 266.00 | 12.054 | | |
| 11,600.00 | 6,934.58 | 11,856.35 | 7,242.70 | 135.42 | 137.30 | 95.52 | 1,472.33 | -4,902.74 | 3,205.26 | 2,933.74 | 271.51 | 11.805 | | |
| 11,700.00 | 6,934.20 | 11,956.34 | 7,242.28 | 138.19 | 140.06 | 95.52 | 1,470.68 | -5,002.72 | 3,204.20 | 2,927.17 | 277.03 | 11.566 | | |
| 11,800.00 | 6,933.82 | 12,056.34 | 7,241.86 | 140.96 | 142.83 | 95.52 | 1,469.02 | -5,102.70 | 3,203.14 | 2,920.59 | 282.55 | 11.337 | | |
| 11,900.00 | 6,933.44 | 12,156.33 | 7,241.44 | 143.74 | 145.61 | 95.52 | 1,467.36 | -5,202.68 | 3,202.08 | 2,914.00 | 288.08 | 11.115 | | |
| 12,000.00 | 6,933.06 | 12,256.32 | 7,241.02 | 146.51 | 148.38 | 95.52 | 1,465.70 | -5,302.66 | 3,201.02 | 2,907.41 | 293.61 | 10.902 | | |
| 12,100.00 | 6,932.68 | 12,356.32 | 7,240.60 | 149.30 | 151.16 | 95.52 | 1,464.04 | -5,402.64 | 3,199.96 | 2,900.81 | 299.15 | 10.697 | | |
| 12,200.00 | 6,932.30 | 12,456.31 | 7,240.18 | 152.08 | 153.95 | 95.53 | 1,462.38 | -5,502.62 | 3,198.90 | 2,894.20 | 304.70 | 10.499 | | |
| 12,300.00 | 6,931.92 | 12,556.31 | 7,239.76 | 154.87 | 156.73 | 95.53 | 1,460.72 | -5,602.60 | 3,197.84 | 2,887.59 | 310.25 | 10.307 | | |
| 12,400.00 | 6,931.54 | 12,656.30 | 7,239.34 | 157.66 | 159.52 | 95.53 | 1,459.07 | -5,702.58 | 3,196.78 | 2,880.98 | 315.80 | 10.123 | | |
| 12,500.00 | 6,931.16 | 12,756.30 | 7,238.92 | 160.45 | 162.31 | 95.53 | 1,457.41 | -5,802.56 | 3,195.72 | 2,874.36 | 321.36 | 9.944 | | |
| 12,600.00 | 6,930.78 | 12,856.29 | 7,238.50 | 163.24 | 165.10 | 95.53 | 1,455.75 | -5,902.54 | 3,194.66 | 2,867.74 | 326.93 | 9.772 | | |
| 12,700.00 | 6,930.40 | 12,956.29 | 7,238.08 | 166.04 | 167.90 | 95.53 | 1,454.09 | -6,002.52 | 3,193.61 | 2,861.11 | 332.50 | 9.605 | | |
| 12,800.00 | 6,930.03 | 13,056.28 | 7,237.66 | 168.84 | 170.69 | 95.53 | 1,452.43 | -6,102.50 | 3,192.55 | 2,854.48 | 338.07 | 9.443 | | |
| 12,900.00 | 6,929.65 | 13,156.27 | 7,237.24 | 171.64 | 173.49 | 95.53 | 1,450.77 | -6,202.48 | 3,191.49 | 2,847.84 | 343.65 | 9.287 | | |
| 13,000.00 | 6,929.27 | 13,256.27 | 7,236.82 | 174.44 | 176.29 | 95.53 | 1,449.11 | -6,302.46 | 3,190.43 | 2,841.20 | 349.23 | 9.136 | | |
| 13,100.00 | 6,928.89 | 13,356.26 | 7,236.40 | 177.24 | 179.09 | 95.54 | 1,447.46 | -6,402.44 | 3,189.37 | 2,834.56 | 354.81 | 8.989 | | |
| 13,200.00 | 6,928.51 | 13,456.26 | 7,235.98 | 180.05 | 181.90 | 95.54 | 1,445.80 | -6,502.42 | 3,188.31 | 2,827.91 | 360.40 | 8.847 | | |
| 13,300.00 | 6,928.13 | 13,556.25 | 7,235.56 | 182.86 | 184.70 | 95.54 | 1,444.14 | -6,602.40 | 3,187.25 | 2,821.26 | 365.99 | 8.709 | | |
| 13,400.00 | 6,927.75 | 13,656.25 | 7,235.14 | 185.67 | 187.51 | 95.54 | 1,442.48 | -6,702.38 | 3,186.19 | 2,814.61 | 371.58 | 8.575 | | |
| 13,500.00 | 6,927.37 | 13,756.24 | 7,234.72 | 188.48 | 190.32 | 95.54 | 1,440.82 | -6,802.36 | 3,185.13 | 2,807.96 | 377.18 | 8.445 | | |
| 13,600.00 | 6,926.99 | 13,856.23 | 7,234.30 | 191.29 | 193.13 | 95.54 | 1,439.16 | -6,902.34 | 3,184.07 | 2,801.30 | 382.77 | 8.318 | | |
| 13,700.00 | 6,926.61 | 13,956.23 | 7,233.88 | 194.10 | 195.94 | 95.54 | 1,437.50 | -7,002.32 | 3,183.01 | 2,794.64 | 388.38 | 8.196 | | |
| 13,800.00 | 6,926.23 | 14,056.22 | 7,233.46 | 196.92 | 198.75 | 95.54 | 1,435.85 | -7,102.30 | 3,181.96 | 2,787.98 | 393.98 | 8.076 | | |
| 13,900.00 | 6,925.85 | 14,156.22 | 7,233.04 | 199.73 | 201.56 | 95.54 | 1,434.19 | -7,202.28 | 3,180.90 | 2,781.31 | 399.59 | 7.960 | | |
| 14,000.00 | 6,925.47 | 14,256.21 | 7,232.61 | 202.55 | 204.38 | 95.55 | 1,432.53 | -7,302.26 | 3,179.84 | 2,774.64 | 405.19 | 7.848 | | |
| 14,100.00 | 6,925.09 | 14,356.21 | 7,232.19 | 205.37 | 207.19 | 95.55 | 1,430.87 | -7,402.24 | 3,178.78 | 2,767.98 | 410.80 | 7.738 | | |
| 14,200.00 | 6,924.71 | 14,456.20 | 7,231.77 | 208.19 | 210.01 | 95.55 | 1,429.21 | -7,502.22 | 3,177.72 | 2,761.30 | 416.42 | 7.631 | | |
| 14,300.00 | 6,924.34 | 14,556.20 | 7,231.35 | 211.01 | 212.83 | 95.55 | 1,427.55 | -7,602.19 | 3,176.66 | 2,754.63 | 422.03 | 7.527 | | |
| 14,400.00 | 6,923.96 | 14,656.19 | 7,230.93 | 213.83 | 215.65 | 95.55 | 1,425.89 | -7,702.17 | 3,175.60 | 2,747.96 | 427.65 | 7.426 | | |
| 14,500.00 | 6,923.58 | 14,756.18 | 7,230.51 | 216.65 | 218.47 | 95.55 | 1,424.24 | -7,802.15 | 3,174.54 | 2,741.28 | 433.26 | 7.327 | | |
| 14,600.00 | 6,923.20 | 14,856.18 | 7,230.09 | 219.48 | 221.29 | 95.55 | 1,422.58 | -7,902.13 | 3,173.48 | 2,734.60 | 438.88 | 7.231 | | |
| 14,700.00 | 6,922.82 | 14,956.17 | 7,229.67 | 222.30 | 224.11 | 95.55 | 1,420.92 | -8,002.11 | 3,172.42 | 2,727.92 | 444.51 | 7.137 | | |
| 14,800.00 | 6,922.44 | 15,056.17 | 7,229.25 | 225.13 | 226.93 | 95.55 | 1,419.26 | -8,102.09 | 3,171.37 | 2,721.24 | 450.13 | 7.045 | | |
| 14,893.62 | 6,922.08 | 15,116.21 | 7,229.00 | 227.77 | 228.63 | 95.56 | 1,418.26 | -8,162.13 | 3,170.55 | 2,716.11 | 454.44 | 6.977 | | |
| 14,900.00 | 6,922.06 | 15,116.21 | 7,229.00 | 227.95 | 228.63 | 95.56 | 1,418.26 | -8,162.13 | 3,170.56 | 2,715.94 | 454.62 | 6.974 | | |
| 14,915.55 | 6,922.00 | 15,116.21 | 7,229.00 | 228.39 | 228.63 | 95.56 | 1,418.26 | -8,162.13 | 3,170.63 | 2,715.60 | 455.03 | 6.968 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15M-303 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | 8.49 | 1,650.67 | 246.42 | 1,668.96 | | | | | |
| 100.00 | 100.00 | 110.43 | 110.43 | 3.28 | 3.29 | 8.49 | 1,650.31 | 246.48 | 1,668.65 | 1,662.07 | 6.57 | 253.832 | | |
| 200.00 | 200.00 | 216.61 | 216.61 | 3.34 | 3.34 | 8.50 | 1,649.39 | 246.56 | 1,667.80 | 1,661.12 | 6.68 | 249.759 | | |
| 230.77 | 230.77 | 248.66 | 248.65 | 3.36 | 3.37 | -176.88 | 1,649.06 | 246.52 | 1,667.64 | 1,660.91 | 6.73 | 247.668 | | |
| 300.00 | 299.98 | 319.91 | 319.90 | 3.44 | 3.45 | -176.88 | 1,648.25 | 246.47 | 1,668.44 | 1,661.54 | 6.89 | 241.987 | | |
| 400.00 | 399.84 | 411.15 | 411.14 | 3.59 | 3.60 | -176.89 | 1,647.38 | 246.30 | 1,672.70 | 1,665.51 | 7.19 | 232.612 | | |
| 500.00 | 499.45 | 506.07 | 506.05 | 3.79 | 3.79 | -176.90 | 1,646.95 | 245.89 | 1,680.89 | 1,673.31 | 7.58 | 221.766 | | |
| 600.00 | 598.70 | 614.08 | 614.06 | 4.03 | 4.05 | -176.92 | 1,646.32 | 245.52 | 1,692.44 | 1,684.36 | 8.08 | 209.527 | | |
| 700.00 | 697.47 | 708.40 | 708.38 | 4.31 | 4.30 | -176.95 | 1,645.71 | 244.90 | 1,707.33 | 1,698.72 | 8.61 | 198.325 | | |
| 800.00 | 795.62 | 806.01 | 805.98 | 4.64 | 4.58 | -177.00 | 1,645.30 | 243.85 | 1,725.82 | 1,716.62 | 9.20 | 187.549 | | |
| 900.00 | 893.06 | 908.50 | 908.46 | 5.00 | 4.91 | -177.05 | 1,644.61 | 242.69 | 1,747.47 | 1,737.61 | 9.86 | 177.245 | | |
| 1,000.00 | 989.78 | 993.03 | 992.98 | 5.39 | 5.19 | -177.11 | 1,644.21 | 241.55 | 1,772.19 | 1,761.70 | 10.49 | 168.882 | | |
| 1,100.00 | 1,086.42 | 1,065.46 | 1,065.39 | 5.81 | 5.43 | -177.21 | 1,644.85 | 239.66 | 1,798.36 | 1,787.26 | 11.10 | 162.068 | | |
| 1,200.00 | 1,183.06 | 1,141.35 | 1,141.18 | 6.25 | 5.69 | -177.35 | 1,646.63 | 236.42 | 1,825.72 | 1,813.99 | 11.73 | 155.674 | | |
| 1,300.00 | 1,279.69 | 1,211.26 | 1,210.91 | 6.71 | 5.94 | -177.52 | 1,649.29 | 232.28 | 1,854.27 | 1,841.92 | 12.35 | 150.108 | | |
| 1,400.00 | 1,376.33 | 1,285.98 | 1,285.30 | 7.17 | 6.21 | -177.75 | 1,653.36 | 226.53 | 1,884.16 | 1,871.15 | 13.01 | 144.813 | | |
| 1,500.00 | 1,472.97 | 1,365.11 | 1,363.86 | 7.65 | 6.51 | -178.04 | 1,658.51 | 218.62 | 1,914.87 | 1,901.16 | 13.70 | 139.744 | | |
| 1,600.00 | 1,569.61 | 1,438.00 | 1,436.04 | 8.13 | 6.79 | -178.35 | 1,664.14 | 210.18 | 1,946.59 | 1,932.21 | 14.38 | 135.370 | | |
| 1,700.00 | 1,666.24 | 1,522.77 | 1,519.85 | 8.62 | 7.14 | -178.71 | 1,671.43 | 199.67 | 1,979.12 | 1,963.99 | 15.13 | 130.822 | | |
| 1,800.00 | 1,762.88 | 1,615.63 | 1,611.59 | 9.12 | 7.53 | -179.11 | 1,679.68 | 187.91 | 2,011.99 | 1,996.06 | 15.93 | 126.273 | | |
| 1,900.00 | 1,859.52 | 1,736.95 | 1,731.50 | 9.62 | 8.06 | -179.61 | 1,689.71 | 172.45 | 2,044.39 | 2,027.48 | 16.91 | 120.912 | | |
| 2,000.00 | 1,956.16 | 1,831.65 | 1,825.19 | 10.13 | 8.49 | -179.97 | 1,696.94 | 160.77 | 2,076.28 | 2,058.53 | 17.76 | 116.935 | | |
| 2,100.00 | 2,052.79 | 1,951.54 | 1,943.91 | 10.64 | 9.04 | 179.59 | 1,705.01 | 146.11 | 2,107.38 | 2,088.62 | 18.76 | 112.363 | | |
| 2,200.00 | 2,149.43 | 2,044.61 | 2,036.16 | 11.15 | 9.47 | 179.27 | 1,710.64 | 135.12 | 2,137.96 | 2,118.35 | 19.61 | 109.005 | | |
| 2,300.00 | 2,246.07 | 2,122.53 | 2,113.35 | 11.66 | 9.83 | 179.01 | 1,715.80 | 125.87 | 2,169.15 | 2,148.76 | 20.39 | 106.386 | | |
| 2,400.00 | 2,342.71 | 2,200.03 | 2,190.06 | 12.18 | 10.20 | 178.75 | 1,721.55 | 116.43 | 2,201.12 | 2,179.95 | 21.17 | 103.993 | | |
| 2,500.00 | 2,439.34 | 2,304.94 | 2,293.90 | 12.70 | 10.70 | 178.41 | 1,729.46 | 103.79 | 2,233.26 | 2,211.15 | 22.11 | 100.991 | | |
| 2,600.00 | 2,535.98 | 2,379.14 | 2,367.36 | 13.22 | 11.06 | 178.18 | 1,735.25 | 95.07 | 2,265.72 | 2,242.85 | 22.87 | 99.050 | | |
| 2,700.00 | 2,632.62 | 2,480.17 | 2,467.40 | 13.75 | 11.55 | 177.88 | 1,743.36 | 83.55 | 2,298.47 | 2,274.67 | 23.80 | 96.557 | | |
| 2,800.00 | 2,729.26 | 2,559.87 | 2,546.34 | 14.27 | 11.93 | 177.66 | 1,749.83 | 74.68 | 2,331.36 | 2,306.76 | 24.60 | 94.767 | | |
| 2,900.00 | 2,825.89 | 2,669.69 | 2,655.10 | 14.80 | 12.47 | 177.36 | 1,758.84 | 62.40 | 2,364.39 | 2,338.79 | 25.59 | 92.380 | | |
| 3,000.00 | 2,922.53 | 2,767.70 | 2,752.18 | 15.32 | 12.95 | 177.10 | 1,766.35 | 51.22 | 2,396.93 | 2,370.41 | 26.52 | 90.394 | | |
| 3,100.00 | 3,019.17 | 2,854.64 | 2,838.24 | 15.85 | 13.38 | 176.86 | 1,773.09 | 40.84 | 2,429.57 | 2,402.20 | 27.37 | 88.760 | | |
| 3,200.00 | 3,115.81 | 2,941.45 | 2,924.10 | 16.38 | 13.82 | 176.62 | 1,780.09 | 30.13 | 2,462.53 | 2,434.30 | 28.23 | 87.229 | | |
| 3,300.00 | 3,212.44 | 3,058.70 | 3,040.12 | 16.91 | 14.41 | 176.31 | 1,789.25 | 15.85 | 2,495.34 | 2,466.04 | 29.30 | 85.175 | | |
| 3,400.00 | 3,309.08 | 3,141.46 | 3,122.06 | 17.44 | 14.82 | 176.10 | 1,795.47 | 6.07 | 2,527.89 | 2,497.76 | 30.13 | 83.902 | | |
| 3,500.00 | 3,405.72 | 3,232.50 | 3,212.14 | 17.97 | 15.28 | 175.87 | 1,802.54 | -5.03 | 2,560.71 | 2,529.69 | 31.02 | 82.546 | | |
| 3,600.00 | 3,502.36 | 3,375.63 | 3,353.91 | 18.50 | 16.00 | 175.53 | 1,812.15 | -22.25 | 2,592.49 | 2,560.22 | 32.27 | 80.338 | | |
| 3,700.00 | 3,598.99 | 3,472.86 | 3,450.34 | 19.03 | 16.48 | 175.32 | 1,817.81 | -33.29 | 2,623.56 | 2,590.36 | 33.20 | 79.019 | | |
| 3,800.00 | 3,695.63 | 3,555.15 | 3,532.06 | 19.57 | 16.89 | 175.17 | 1,822.67 | -41.55 | 2,654.75 | 2,620.73 | 34.03 | 78.015 | | |
| 3,900.00 | 3,792.27 | 3,622.73 | 3,599.16 | 20.10 | 17.22 | 175.05 | 1,827.24 | -48.24 | 2,686.78 | 2,652.03 | 34.75 | 77.313 | | |
| 4,000.00 | 3,888.91 | 3,700.65 | 3,676.46 | 20.63 | 17.60 | 174.91 | 1,833.14 | -56.00 | 2,719.58 | 2,684.04 | 35.54 | 76.513 | | |
| 4,100.00 | 3,985.54 | 3,802.57 | 3,777.58 | 21.17 | 18.10 | 174.74 | 1,841.11 | -66.03 | 2,752.64 | 2,716.13 | 36.50 | 75.408 | | |
| 4,200.00 | 4,082.18 | 3,871.68 | 3,846.15 | 21.70 | 18.45 | 174.63 | 1,846.60 | -72.68 | 2,785.86 | 2,748.63 | 37.23 | 74.829 | | |
| 4,300.00 | 4,178.82 | 3,951.12 | 3,924.92 | 22.24 | 18.84 | 174.51 | 1,853.68 | -80.11 | 2,819.94 | 2,781.92 | 38.03 | 74.154 | | |
| 4,400.00 | 4,275.46 | 4,039.76 | 4,012.75 | 22.77 | 19.29 | 174.36 | 1,861.66 | -89.09 | 2,854.17 | 2,815.28 | 38.90 | 73.379 | | |
| 4,500.00 | 4,372.09 | 4,126.40 | 4,099.39 | 23.31 | 19.77 | 174.21 | 1,869.64 | -98.16 | 2,888.44 | 2,848.54 | 39.81 | 72.611 | | |
| 4,600.00 | 4,468.73 | 4,213.04 | 4,186.03 | 23.84 | 20.27 | 174.06 | 1,877.62 | -107.41 | 2,922.71 | 2,881.79 | 40.76 | 71.850 | | |
| 4,700.00 | 4,565.37 | 4,300.00 | 4,273.00 | 24.38 | 20.77 | 173.91 | 1,885.60 | -116.72 | 2,956.98 | 2,915.06 | 41.74 | 71.097 | | |
| 4,800.00 | 4,662.01 | 4,387.00 | 4,360.00 | 24.91 | 21.27 | 173.76 | 1,893.58 | -126.09 | 2,991.25 | 2,948.33 | 42.75 | 70.350 | | |
| 4,900.00 | 4,758.64 | 4,474.00 | 4,447.00 | 25.45 | 21.77 | 173.61 | 1,901.56 | -135.42 | 3,025.52 | 2,981.60 | 43.79 | 69.607 | | |
| 5,000.00 | 4,855.28 | 4,561.00 | 4,534.00 | 25.99 | 22.27 | 173.46 | 1,909.54 | -144.74 | 3,059.79 | 3,015.87 | 44.85 | 68.869 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15M-303 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 9,947.00 | 7,192.57 | 26.53 | 70.87 | 174.37 | -1,154.96 | -165.78 | 2,241.37 | 2,206.28 | 35.09 | 63.879 | | |
| 5,200.00 | 5,048.56 | 9,956.87 | 7,192.65 | 27.06 | 71.06 | 174.36 | -1,164.83 | -165.91 | 2,144.87 | 2,109.40 | 35.48 | 60.459 | | |
| 5,300.00 | 5,145.19 | 9,975.05 | 7,192.85 | 27.60 | 71.41 | 174.32 | -1,183.01 | -166.21 | 2,048.51 | 2,012.63 | 35.88 | 57.098 | | |
| 5,400.00 | 5,241.83 | 9,993.86 | 7,193.13 | 28.14 | 71.78 | 174.28 | -1,201.82 | -166.57 | 1,952.25 | 1,915.96 | 36.29 | 53.792 | | |
| 5,500.00 | 5,338.47 | 10,019.66 | 7,193.63 | 28.67 | 72.28 | 174.22 | -1,227.60 | -167.10 | 1,856.11 | 1,819.41 | 36.70 | 50.574 | | |
| 5,600.00 | 5,435.11 | 10,057.40 | 7,194.12 | 29.21 | 73.02 | 174.12 | -1,265.33 | -167.80 | 1,759.77 | 1,722.71 | 37.06 | 47.485 | | |
| 5,700.00 | 5,531.74 | 10,090.25 | 7,194.52 | 29.75 | 73.66 | 174.01 | -1,298.17 | -168.47 | 1,663.45 | 1,626.02 | 37.43 | 44.443 | | |
| 5,800.00 | 5,628.38 | 10,120.59 | 7,194.68 | 30.29 | 74.26 | 173.89 | -1,328.51 | -169.09 | 1,566.93 | 1,529.12 | 37.81 | 41.447 | | |
| 5,900.00 | 5,725.02 | 10,154.72 | 7,194.89 | 30.83 | 74.93 | 173.75 | -1,362.63 | -169.69 | 1,470.45 | 1,432.30 | 38.15 | 38.549 | | |
| 6,000.00 | 5,821.66 | 10,206.81 | 7,194.34 | 31.37 | 75.95 | 173.50 | -1,414.71 | -170.52 | 1,373.48 | 1,335.18 | 38.30 | 35.861 | | |
| 6,100.00 | 5,918.29 | 10,227.71 | 7,193.98 | 31.90 | 76.37 | 173.37 | -1,435.60 | -170.87 | 1,276.39 | 1,237.68 | 38.71 | 32.971 | | |
| 6,200.00 | 6,014.93 | 10,252.41 | 7,193.58 | 32.44 | 76.85 | 173.19 | -1,460.30 | -171.33 | 1,179.34 | 1,140.25 | 39.09 | 30.168 | | |
| 6,300.00 | 6,111.57 | 10,277.81 | 7,193.13 | 32.98 | 77.36 | 172.94 | -1,485.69 | -171.91 | 1,082.25 | 1,042.79 | 39.46 | 27.425 | | |
| 6,400.00 | 6,208.21 | 10,302.97 | 7,192.66 | 33.52 | 77.85 | 172.61 | -1,510.84 | -172.59 | 985.14 | 945.31 | 39.83 | 24.731 | | |
| 6,500.00 | 6,304.84 | 10,327.90 | 7,192.15 | 34.06 | 78.35 | 172.20 | -1,535.74 | -173.31 | 888.00 | 847.79 | 40.21 | 22.085 | | |
| 6,600.00 | 6,401.37 | 10,352.61 | 7,191.61 | 34.60 | 78.84 | 174.72 | -1,560.44 | -174.06 | 790.87 | 750.29 | 40.58 | 19.490 | | |
| 6,700.00 | 6,496.25 | 10,375.28 | 7,191.12 | 35.12 | 79.29 | -178.96 | -1,583.10 | -174.78 | 695.07 | 654.04 | 41.03 | 16.942 | | |
| 6,800.00 | 6,587.15 | 10,397.98 | 7,190.66 | 35.59 | 79.74 | -175.59 | -1,605.78 | -175.53 | 604.12 | 562.01 | 42.11 | 14.345 | | |
| 6,900.00 | 6,671.83 | 10,421.53 | 7,190.19 | 36.03 | 80.20 | -173.75 | -1,629.31 | -176.36 | 523.37 | 477.64 | 45.73 | 11.444 | | |
| 7,000.00 | 6,748.21 | 10,442.23 | 7,189.77 | 36.41 | 80.62 | -172.88 | -1,649.99 | -177.11 | 460.86 | 405.88 | 54.98 | 8.382 | | |
| 7,100.00 | 6,814.41 | 10,461.29 | 7,189.40 | 36.76 | 81.00 | -172.29 | -1,669.03 | -177.78 | 426.77 | 356.23 | 70.55 | 6.049 | | |
| 7,143.92 | 6,839.83 | 10,469.23 | 7,189.24 | 36.89 | 81.15 | -172.05 | -1,676.97 | -178.07 | 423.09 | 344.73 | 78.36 | 5.400 CC | | |
| 7,200.00 | 6,868.79 | 10,478.69 | 7,189.06 | 37.07 | 81.34 | -171.78 | -1,686.42 | -178.42 | 429.09 | 341.17 | 87.92 | 4.880 ES | | |
| 7,300.00 | 6,910.01 | 10,493.20 | 7,188.79 | 37.39 | 81.63 | -171.44 | -1,700.91 | -178.97 | 467.50 | 366.22 | 101.27 | 4.616 SF | | |
| 7,400.00 | 6,937.07 | 10,504.55 | 7,188.58 | 37.76 | 81.86 | -171.34 | -1,712.25 | -179.42 | 533.71 | 424.59 | 109.12 | 4.891 | | |
| 7,500.00 | 6,949.29 | 10,512.55 | 7,188.45 | 38.27 | 82.02 | -171.76 | -1,720.25 | -179.75 | 617.73 | 504.63 | 113.10 | 5.462 | | |
| 7,600.00 | 6,949.75 | 10,517.74 | 7,188.37 | 39.02 | 82.12 | -171.39 | -1,725.43 | -179.97 | 710.67 | 595.59 | 115.08 | 6.175 | | |
| 7,700.00 | 6,949.37 | 10,521.39 | 7,188.31 | 40.05 | 82.19 | -170.52 | -1,729.07 | -180.12 | 805.55 | 689.19 | 116.36 | 6.923 | | |
| 7,800.00 | 6,948.99 | 10,524.79 | 7,188.26 | 41.35 | 82.26 | -169.72 | -1,732.47 | -180.25 | 901.52 | 784.25 | 117.27 | 7.687 | | |
| 7,900.00 | 6,948.61 | 10,528.03 | 7,188.22 | 42.86 | 82.33 | -168.96 | -1,735.71 | -180.38 | 998.26 | 880.32 | 117.94 | 8.464 | | |
| 8,000.00 | 6,948.23 | 10,531.11 | 7,188.19 | 44.53 | 82.39 | -168.24 | -1,738.79 | -180.50 | 1,095.58 | 977.12 | 118.46 | 9.249 | | |
| 8,100.00 | 6,947.85 | 10,534.06 | 7,188.15 | 46.34 | 82.45 | -167.55 | -1,741.73 | -180.61 | 1,193.33 | 1,074.46 | 118.86 | 10.039 | | |
| 8,200.00 | 6,947.47 | 10,536.87 | 7,188.13 | 48.26 | 82.50 | -166.90 | -1,744.54 | -180.71 | 1,291.41 | 1,172.22 | 119.19 | 10.835 | | |
| 8,300.00 | 6,947.09 | 10,539.56 | 7,188.10 | 50.28 | 82.56 | -166.28 | -1,747.23 | -180.80 | 1,389.76 | 1,270.29 | 119.47 | 11.633 | | |
| 8,400.00 | 6,946.72 | 10,542.13 | 7,188.08 | 52.39 | 82.61 | -165.69 | -1,749.80 | -180.89 | 1,488.32 | 1,368.62 | 119.70 | 12.434 | | |
| 8,500.00 | 6,946.34 | 10,544.60 | 7,188.06 | 54.56 | 82.66 | -165.13 | -1,752.27 | -180.97 | 1,587.06 | 1,467.16 | 119.90 | 13.237 | | |
| 8,600.00 | 6,945.96 | 10,549.00 | 7,188.04 | 56.80 | 82.74 | -164.14 | -1,756.67 | -181.11 | 1,685.94 | 1,565.81 | 120.13 | 14.035 | | |
| 8,700.00 | 6,945.58 | 10,549.00 | 7,188.04 | 59.10 | 82.74 | -164.14 | -1,756.67 | -181.11 | 1,784.93 | 1,664.71 | 120.22 | 14.847 | | |
| 8,800.00 | 6,945.20 | 10,552.04 | 7,188.02 | 61.44 | 82.80 | -163.46 | -1,759.70 | -181.21 | 1,884.03 | 1,763.65 | 120.39 | 15.650 | | |
| 8,900.00 | 6,944.82 | 10,554.72 | 7,188.01 | 63.83 | 82.86 | -162.86 | -1,762.39 | -181.29 | 1,983.22 | 1,862.69 | 120.53 | 16.454 | | |
| 9,000.00 | 6,944.44 | 10,557.34 | 7,188.00 | 66.25 | 82.91 | -162.28 | -1,765.00 | -181.37 | 2,082.48 | 1,961.81 | 120.67 | 17.258 | | |
| 9,100.00 | 6,944.06 | 10,559.90 | 7,187.99 | 68.71 | 82.96 | -161.72 | -1,767.56 | -181.44 | 2,181.80 | 2,061.00 | 120.80 | 18.062 | | |
| 9,200.00 | 6,943.68 | 10,562.40 | 7,187.99 | 71.20 | 83.01 | -161.17 | -1,770.06 | -181.52 | 2,281.18 | 2,160.26 | 120.92 | 18.866 | | |
| 9,300.00 | 6,943.30 | 10,564.84 | 7,187.98 | 73.72 | 83.06 | -160.64 | -1,772.50 | -181.59 | 2,380.60 | 2,259.57 | 121.03 | 19.669 | | |
| 9,400.00 | 6,942.92 | 10,567.23 | 7,187.98 | 76.26 | 83.11 | -160.12 | -1,774.89 | -181.66 | 2,480.07 | 2,358.93 | 121.14 | 20.472 | | |
| 9,500.00 | 6,942.54 | 10,569.57 | 7,187.98 | 78.82 | 83.16 | -159.62 | -1,777.22 | -181.72 | 2,579.58 | 2,458.32 | 121.25 | 21.275 | | |
| 9,600.00 | 6,942.16 | 10,571.85 | 7,187.98 | 81.40 | 83.20 | -159.14 | -1,779.51 | -181.79 | 2,679.12 | 2,557.76 | 121.36 | 22.077 | | |
| 9,700.00 | 6,941.78 | 10,574.08 | 7,187.98 | 84.00 | 83.25 | -158.67 | -1,781.74 | -181.85 | 2,778.69 | 2,657.23 | 121.46 | 22.878 | | |
| 9,800.00 | 6,941.40 | 10,576.27 | 7,187.98 | 86.62 | 83.29 | -158.21 | -1,783.92 | -181.91 | 2,878.28 | 2,756.73 | 121.56 | 23.679 | | |
| 9,900.00 | 6,941.03 | 10,581.00 | 7,187.98 | 89.25 | 83.38 | -157.22 | -1,788.66 | -182.03 | 2,977.91 | 2,856.18 | 121.72 | 24.464 | | |
| 10,000.00 | 6,940.65 | 10,581.00 | 7,187.98 | 91.90 | 83.38 | -157.22 | -1,788.66 | -182.03 | 3,077.55 | 2,955.79 | 121.76 | 25.275 | | |
| 10,100.00 | 6,940.27 | 10,600.85 | 7,188.01 | 94.56 | 83.78 | -153.25 | -1,808.50 | -182.61 | 3,177.21 | 3,054.86 | 122.35 | 25.969 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15M-303 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,200.00 | 6,939.89 | 10,200.00 | 7,188.00 | 97.23 | 75.76 | -153.20 | -1,808.77 | -182.65 | 3,276.84 | 3,162.46 | 114.38 | 28.650 | | |
| 10,300.00 | 6,939.51 | 10,300.00 | 7,188.00 | 99.91 | 77.76 | -152.50 | -1,812.42 | -182.76 | 3,376.52 | 3,260.08 | 116.44 | 28.998 | | |
| 10,400.00 | 6,939.13 | 10,625.72 | 7,188.02 | 102.60 | 84.28 | -148.64 | -1,833.35 | -183.46 | 3,476.20 | 3,353.05 | 123.15 | 28.227 | | |
| 10,500.00 | 6,938.75 | 10,630.66 | 7,188.04 | 105.30 | 84.38 | -147.78 | -1,838.29 | -183.64 | 3,575.89 | 3,452.57 | 123.33 | 28.995 | | |
| 10,600.00 | 6,938.37 | 10,635.67 | 7,188.05 | 108.00 | 84.48 | -146.92 | -1,843.30 | -183.82 | 3,675.59 | 3,552.09 | 123.51 | 29.760 | | |
| 10,700.00 | 6,937.99 | 10,640.74 | 7,188.08 | 110.72 | 84.58 | -146.06 | -1,848.37 | -184.00 | 3,775.30 | 3,651.62 | 123.69 | 30.523 | | |
| 10,800.00 | 6,937.61 | 10,645.89 | 7,188.10 | 113.44 | 84.68 | -145.22 | -1,853.51 | -184.19 | 3,875.03 | 3,751.15 | 123.87 | 31.283 | | |
| 10,900.00 | 6,937.23 | 10,900.00 | 7,188.10 | 116.17 | 89.78 | -145.03 | -1,854.63 | -184.23 | 3,974.76 | 3,845.75 | 129.01 | 30.811 | | |
| 11,000.00 | 6,936.85 | 10,649.58 | 7,188.12 | 118.90 | 84.76 | -144.62 | -1,857.20 | -184.32 | 4,074.50 | 3,950.44 | 124.06 | 32.844 | | |
| 11,100.00 | 6,936.47 | 10,651.85 | 7,188.12 | 121.64 | 84.80 | -144.25 | -1,859.46 | -184.40 | 4,174.25 | 4,050.09 | 124.16 | 33.620 | | |
| 11,200.00 | 6,936.09 | 10,654.06 | 7,188.13 | 124.39 | 84.85 | -143.90 | -1,861.67 | -184.48 | 4,274.01 | 4,149.75 | 124.26 | 34.395 | | |
| 11,300.00 | 6,935.71 | 10,656.22 | 7,188.13 | 127.14 | 84.89 | -143.56 | -1,863.83 | -184.55 | 4,373.79 | 4,249.42 | 124.37 | 35.168 | | |
| 11,400.00 | 6,935.34 | 10,658.33 | 7,188.13 | 129.90 | 84.93 | -143.23 | -1,865.94 | -184.62 | 4,473.56 | 4,349.10 | 124.47 | 35.941 | | |
| 11,500.00 | 6,934.96 | 10,660.40 | 7,188.13 | 132.66 | 84.98 | -142.91 | -1,868.01 | -184.69 | 4,573.35 | 4,448.78 | 124.57 | 36.713 | | |
| 11,600.00 | 6,934.58 | 10,662.42 | 7,188.13 | 135.42 | 85.02 | -142.60 | -1,870.02 | -184.76 | 4,673.15 | 4,548.47 | 124.67 | 37.484 | | |
| 11,700.00 | 6,934.20 | 10,664.39 | 7,188.13 | 138.19 | 85.06 | -142.30 | -1,872.00 | -184.82 | 4,772.95 | 4,648.18 | 124.77 | 38.253 | | |
| 11,800.00 | 6,933.82 | 10,666.32 | 7,188.13 | 140.96 | 85.09 | -142.01 | -1,873.92 | -184.88 | 4,872.76 | 4,747.88 | 124.87 | 39.022 | | |
| 11,900.00 | 6,933.44 | 10,668.21 | 7,188.12 | 143.74 | 85.13 | -141.72 | -1,875.81 | -184.94 | 4,972.57 | 4,847.60 | 124.97 | 39.790 | | |
| 12,000.00 | 6,933.06 | 10,676.00 | 7,188.09 | 146.51 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,072.40 | 4,947.16 | 125.24 | 40.501 | | |
| 12,100.00 | 6,932.68 | 10,676.00 | 7,188.09 | 149.30 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,172.22 | 5,046.93 | 125.29 | 41.283 | | |
| 12,200.00 | 6,932.30 | 10,676.00 | 7,188.09 | 152.08 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,272.05 | 5,146.71 | 125.33 | 42.064 | | |
| 12,300.00 | 6,931.92 | 10,676.00 | 7,188.09 | 154.87 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,371.88 | 5,246.50 | 125.38 | 42.844 | | |
| 12,400.00 | 6,931.54 | 10,676.00 | 7,188.09 | 157.66 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,471.72 | 5,346.29 | 125.43 | 43.624 | | |
| 12,500.00 | 6,931.16 | 10,676.00 | 7,188.09 | 160.45 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,571.57 | 5,446.09 | 125.48 | 44.402 | | |
| 12,600.00 | 6,930.78 | 10,676.00 | 7,188.09 | 163.24 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,671.42 | 5,545.89 | 125.53 | 45.180 | | |
| 12,700.00 | 6,930.40 | 10,676.00 | 7,188.09 | 166.04 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,771.28 | 5,645.70 | 125.58 | 45.957 | | |
| 12,800.00 | 6,930.03 | 10,676.00 | 7,188.09 | 168.84 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,871.14 | 5,745.51 | 125.63 | 46.733 | | |
| 12,900.00 | 6,929.65 | 10,676.00 | 7,188.09 | 171.64 | 85.29 | -140.57 | -1,883.60 | -185.18 | 5,971.01 | 5,845.33 | 125.68 | 47.508 | | |
| 13,000.00 | 6,929.27 | 10,685.15 | 7,188.03 | 174.44 | 85.47 | -139.27 | -1,892.75 | -185.44 | 6,070.86 | 5,944.86 | 126.00 | 48.181 | | |
| 13,100.00 | 6,928.89 | 10,686.42 | 7,188.02 | 177.24 | 85.50 | -139.09 | -1,894.02 | -185.47 | 6,170.73 | 6,044.64 | 126.09 | 48.938 | | |
| 13,200.00 | 6,928.51 | 10,687.66 | 7,188.01 | 180.05 | 85.52 | -138.91 | -1,895.26 | -185.51 | 6,270.61 | 6,144.43 | 126.18 | 49.695 | | |
| 13,300.00 | 6,928.13 | 10,688.88 | 7,188.00 | 182.86 | 85.55 | -138.74 | -1,896.48 | -185.54 | 6,370.49 | 6,244.21 | 126.27 | 50.450 | | |
| 13,400.00 | 6,927.75 | 10,690.08 | 7,187.99 | 185.67 | 85.57 | -138.58 | -1,897.67 | -185.57 | 6,470.37 | 6,344.00 | 126.36 | 51.205 | | |
| 13,500.00 | 6,927.37 | 10,691.25 | 7,187.98 | 188.48 | 85.60 | -138.42 | -1,898.84 | -185.60 | 6,570.25 | 6,443.80 | 126.45 | 51.958 | | |
| 13,600.00 | 6,926.99 | 10,692.40 | 7,187.97 | 191.29 | 85.62 | -138.26 | -1,899.99 | -185.63 | 6,670.14 | 6,543.59 | 126.54 | 52.710 | | |
| 13,700.00 | 6,926.61 | 10,693.52 | 7,187.96 | 194.10 | 85.64 | -138.11 | -1,901.12 | -185.66 | 6,770.03 | 6,643.39 | 126.64 | 53.461 | | |
| 13,800.00 | 6,926.23 | 10,694.63 | 7,187.95 | 196.92 | 85.66 | -137.96 | -1,902.22 | -185.68 | 6,869.92 | 6,743.19 | 126.73 | 54.211 | | |
| 13,900.00 | 6,925.85 | 10,695.71 | 7,187.94 | 199.73 | 85.69 | -137.81 | -1,903.30 | -185.71 | 6,969.81 | 6,842.99 | 126.82 | 54.959 | | |
| 14,000.00 | 6,925.47 | 10,696.77 | 7,187.92 | 202.55 | 85.71 | -137.67 | -1,904.36 | -185.74 | 7,069.71 | 6,942.80 | 126.91 | 55.707 | | |
| 14,100.00 | 6,925.09 | 10,697.81 | 7,187.91 | 205.37 | 85.73 | -137.53 | -1,905.40 | -185.76 | 7,169.61 | 7,042.61 | 127.00 | 56.454 | | |
| 14,200.00 | 6,924.71 | 10,708.00 | 7,187.78 | 208.19 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,269.53 | 7,142.17 | 127.36 | 57.079 | | |
| 14,300.00 | 6,924.34 | 10,708.00 | 7,187.78 | 211.01 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,369.43 | 7,242.01 | 127.42 | 57.835 | | |
| 14,400.00 | 6,923.96 | 10,708.00 | 7,187.78 | 213.83 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,469.33 | 7,341.85 | 127.48 | 58.590 | | |
| 14,500.00 | 6,923.58 | 10,708.00 | 7,187.78 | 216.65 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,569.24 | 7,441.69 | 127.55 | 59.344 | | |
| 14,600.00 | 6,923.20 | 10,708.00 | 7,187.78 | 219.48 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,669.14 | 7,541.53 | 127.61 | 60.097 | | |
| 14,700.00 | 6,922.82 | 10,708.00 | 7,187.78 | 222.30 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,769.06 | 7,641.38 | 127.68 | 60.849 | | |
| 14,800.00 | 6,922.44 | 10,708.00 | 7,187.78 | 225.13 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,868.97 | 7,741.22 | 127.74 | 61.600 | | |
| 14,900.00 | 6,922.06 | 10,708.00 | 7,187.78 | 227.95 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,968.88 | 7,841.07 | 127.81 | 62.349 | | |
| 14,915.55 | 6,922.00 | 10,708.00 | 7,187.78 | 228.39 | 85.93 | -136.20 | -1,915.59 | -185.99 | 7,984.42 | 7,856.60 | 127.82 | 62.465 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15M-423(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | 9.54 | 1,652.13 | 277.57 | 1,675.28 | | | | | |
| 100.00 | 100.00 | 104.02 | 104.02 | 3.28 | 3.29 | 9.54 | 1,651.97 | 277.77 | 1,675.16 | 1,668.59 | 6.57 | 254.868 | | |
| 200.00 | 200.00 | 212.62 | 212.61 | 3.34 | 3.34 | 9.57 | 1,651.39 | 278.28 | 1,674.72 | 1,668.05 | 6.67 | 250.928 | | |
| 227.06 | 227.06 | 242.83 | 242.83 | 3.36 | 3.36 | -175.81 | 1,651.11 | 278.40 | 1,674.62 | 1,667.89 | 6.72 | 249.048 | | |
| 300.00 | 299.98 | 316.16 | 316.16 | 3.44 | 3.45 | -175.82 | 1,650.46 | 278.08 | 1,675.55 | 1,668.66 | 6.89 | 243.306 | | |
| 400.00 | 399.84 | 420.16 | 420.14 | 3.59 | 3.61 | -175.85 | 1,649.49 | 277.13 | 1,679.69 | 1,672.49 | 7.20 | 233.275 | | |
| 500.00 | 499.45 | 523.42 | 523.39 | 3.79 | 3.82 | -175.86 | 1,648.07 | 277.13 | 1,687.03 | 1,679.42 | 7.61 | 221.664 | | |
| 600.00 | 598.70 | 615.52 | 615.49 | 4.03 | 4.04 | -175.86 | 1,646.94 | 277.36 | 1,698.02 | 1,689.95 | 8.07 | 210.304 | | |
| 700.00 | 697.47 | 718.14 | 718.10 | 4.31 | 4.32 | -175.85 | 1,645.74 | 277.87 | 1,712.57 | 1,703.94 | 8.63 | 198.443 | | |
| 800.00 | 795.62 | 820.27 | 820.22 | 4.64 | 4.63 | -175.84 | 1,644.19 | 278.50 | 1,730.22 | 1,720.98 | 9.24 | 187.196 | | |
| 900.00 | 893.06 | 913.72 | 913.65 | 5.00 | 4.92 | -175.83 | 1,642.85 | 279.21 | 1,751.41 | 1,741.53 | 9.88 | 177.355 | | |
| 1,000.00 | 989.78 | 1,004.08 | 1,004.00 | 5.39 | 5.23 | -175.83 | 1,641.70 | 280.32 | 1,775.69 | 1,765.16 | 10.53 | 168.592 | | |
| 1,100.00 | 1,086.42 | 1,091.33 | 1,091.23 | 5.81 | 5.53 | -175.85 | 1,641.14 | 281.21 | 1,800.89 | 1,789.69 | 11.19 | 160.870 | | |
| 1,200.00 | 1,183.06 | 1,186.49 | 1,186.39 | 6.25 | 5.86 | -175.88 | 1,640.83 | 281.89 | 1,826.34 | 1,814.43 | 11.91 | 153.338 | | |
| 1,300.00 | 1,279.69 | 1,284.86 | 1,284.76 | 6.71 | 6.22 | -175.92 | 1,640.50 | 282.63 | 1,851.79 | 1,839.13 | 12.66 | 146.244 | | |
| 1,400.00 | 1,376.33 | 1,380.40 | 1,380.30 | 7.17 | 6.58 | -175.95 | 1,640.09 | 283.18 | 1,877.13 | 1,863.70 | 13.42 | 139.856 | | |
| 1,500.00 | 1,472.97 | 1,470.41 | 1,470.31 | 7.65 | 6.92 | -175.99 | 1,640.02 | 283.77 | 1,902.80 | 1,888.63 | 14.17 | 134.278 | | |
| 1,600.00 | 1,569.61 | 1,566.83 | 1,566.73 | 8.13 | 7.29 | -176.02 | 1,640.04 | 284.45 | 1,928.58 | 1,913.63 | 14.96 | 128.938 | | |
| 1,700.00 | 1,666.24 | 1,663.60 | 1,663.49 | 8.62 | 7.66 | -176.05 | 1,640.08 | 285.23 | 1,954.41 | 1,938.65 | 15.76 | 124.025 | | |
| 1,800.00 | 1,762.88 | 1,766.46 | 1,766.35 | 9.12 | 8.07 | -176.08 | 1,640.00 | 285.87 | 1,980.09 | 1,963.49 | 16.60 | 119.288 | | |
| 1,900.00 | 1,859.52 | 1,861.25 | 1,861.13 | 9.62 | 8.44 | -176.11 | 1,639.61 | 286.50 | 2,005.46 | 1,988.05 | 17.41 | 115.206 | | |
| 2,000.00 | 1,956.16 | 1,941.28 | 1,941.17 | 10.13 | 8.75 | -176.16 | 1,639.92 | 286.19 | 2,031.43 | 2,013.29 | 18.14 | 111.981 | | |
| 2,100.00 | 2,052.79 | 2,018.82 | 2,018.69 | 10.64 | 9.04 | -176.24 | 1,641.02 | 285.06 | 2,058.23 | 2,039.37 | 18.86 | 109.153 | | |
| 2,200.00 | 2,149.43 | 2,089.46 | 2,089.29 | 11.15 | 9.31 | -176.33 | 1,642.89 | 283.49 | 2,086.08 | 2,066.54 | 19.54 | 106.755 | | |
| 2,300.00 | 2,246.07 | 2,156.53 | 2,156.28 | 11.66 | 9.56 | -176.42 | 1,645.58 | 281.66 | 2,115.16 | 2,094.95 | 20.21 | 104.674 | | |
| 2,400.00 | 2,342.71 | 2,226.03 | 2,225.64 | 12.18 | 9.83 | -176.52 | 1,649.36 | 279.63 | 2,145.55 | 2,124.66 | 20.88 | 102.734 | | |
| 2,500.00 | 2,439.34 | 2,304.14 | 2,303.57 | 12.70 | 10.14 | -176.64 | 1,654.30 | 277.47 | 2,176.83 | 2,155.22 | 21.61 | 100.739 | | |
| 2,600.00 | 2,535.98 | 2,381.75 | 2,380.95 | 13.22 | 10.45 | -176.75 | 1,659.81 | 275.42 | 2,208.85 | 2,186.52 | 22.33 | 98.911 | | |
| 2,700.00 | 2,632.62 | 2,464.07 | 2,462.98 | 13.75 | 10.78 | -176.87 | 1,666.24 | 273.00 | 2,241.52 | 2,218.44 | 23.08 | 97.106 | | |
| 2,800.00 | 2,729.26 | 2,542.10 | 2,540.68 | 14.27 | 11.10 | -177.00 | 1,672.87 | 270.22 | 2,274.76 | 2,250.95 | 23.81 | 95.529 | | |
| 2,900.00 | 2,825.89 | 2,619.13 | 2,617.34 | 14.80 | 11.42 | -177.13 | 1,680.00 | 267.49 | 2,308.73 | 2,284.19 | 24.54 | 94.095 | | |
| 3,000.00 | 2,922.53 | 2,695.47 | 2,693.24 | 15.32 | 11.73 | -177.25 | 1,687.62 | 264.68 | 2,343.37 | 2,318.11 | 25.26 | 92.784 | | |
| 3,100.00 | 3,019.17 | 2,766.61 | 2,763.90 | 15.85 | 12.03 | -177.38 | 1,695.39 | 261.73 | 2,378.84 | 2,352.89 | 25.94 | 91.693 | | |
| 3,200.00 | 3,115.81 | 2,862.28 | 2,858.83 | 16.38 | 12.44 | -177.56 | 1,706.33 | 257.28 | 2,414.75 | 2,387.96 | 26.79 | 90.135 | | |
| 3,300.00 | 3,212.44 | 2,978.24 | 2,973.97 | 16.91 | 12.94 | -177.77 | 1,718.93 | 251.65 | 2,450.11 | 2,422.33 | 27.77 | 88.216 | | |
| 3,400.00 | 3,309.08 | 3,072.84 | 3,067.91 | 17.44 | 13.36 | -177.95 | 1,728.86 | 246.51 | 2,485.09 | 2,456.47 | 28.62 | 86.820 | | |
| 3,500.00 | 3,405.72 | 3,175.73 | 3,170.07 | 17.97 | 13.81 | -178.15 | 1,739.52 | 240.55 | 2,519.93 | 2,490.40 | 29.53 | 85.330 | | |
| 3,600.00 | 3,502.36 | 3,279.89 | 3,273.59 | 18.50 | 14.27 | -178.33 | 1,749.65 | 235.03 | 2,554.23 | 2,523.78 | 30.45 | 83.880 | | |
| 3,700.00 | 3,598.99 | 3,363.77 | 3,356.97 | 19.03 | 14.64 | -178.46 | 1,757.84 | 231.14 | 2,588.67 | 2,557.43 | 31.24 | 82.869 | | |
| 3,800.00 | 3,695.63 | 3,447.44 | 3,440.13 | 19.57 | 15.02 | -178.59 | 1,766.33 | 227.30 | 2,623.49 | 2,591.47 | 32.03 | 81.920 | | |
| 3,900.00 | 3,792.27 | 3,536.14 | 3,528.25 | 20.10 | 15.42 | -178.71 | 1,775.56 | 223.36 | 2,658.58 | 2,625.74 | 32.85 | 80.938 | | |
| 4,000.00 | 3,888.91 | 3,633.74 | 3,625.22 | 20.63 | 15.86 | -178.85 | 1,785.73 | 219.04 | 2,693.70 | 2,659.97 | 33.73 | 79.856 | | |
| 4,100.00 | 3,985.54 | 3,734.39 | 3,725.22 | 21.17 | 16.32 | -179.00 | 1,796.07 | 214.03 | 2,728.63 | 2,693.99 | 34.64 | 78.769 | | |
| 4,200.00 | 4,082.18 | 3,831.12 | 3,821.33 | 21.70 | 16.76 | -179.14 | 1,805.75 | 208.96 | 2,763.31 | 2,727.78 | 35.53 | 77.784 | | |
| 4,300.00 | 4,178.82 | 3,899.88 | 3,889.59 | 22.24 | 17.08 | -179.25 | 1,813.00 | 205.00 | 2,798.45 | 2,762.23 | 36.22 | 77.272 | | |
| 4,400.00 | 4,275.46 | 3,983.39 | 3,972.40 | 22.77 | 17.47 | -179.40 | 1,822.41 | 199.65 | 2,834.23 | 2,797.22 | 37.01 | 76.579 | | |
| 4,500.00 | 4,372.09 | 4,062.22 | 4,050.51 | 23.31 | 17.84 | -179.53 | 1,831.56 | 194.45 | 2,870.33 | 2,832.56 | 37.77 | 75.990 | | |
| 4,600.00 | 4,468.73 | 4,149.46 | 4,137.52 | 23.84 | 18.19 | -179.63 | -1,003.55 | 126.89 | 2,776.29 | 2,742.11 | 38.18 | 75.129 | | |
| 4,700.00 | 4,565.37 | 4,236.37 | 4,224.34 | 24.38 | 18.58 | -179.71 | -1,024.30 | 129.47 | 2,680.48 | 2,645.84 | 38.64 | 74.385 | | |
| 4,800.00 | 4,662.01 | 4,323.25 | 4,311.22 | 24.91 | 18.98 | -179.78 | -1,044.02 | 132.00 | 2,584.79 | 2,549.67 | 39.12 | 73.600 | | |
| 4,900.00 | 4,758.64 | 4,410.10 | 4,398.07 | 25.45 | 19.37 | -179.84 | -1,066.77 | 134.98 | 2,489.23 | 2,453.59 | 39.64 | 72.845 | | |
| 5,000.00 | 4,855.28 | 4,496.99 | 4,484.96 | 25.99 | 19.76 | -179.89 | -1,109.80 | 140.56 | 2,393.60 | 2,357.35 | 40.12 | 72.120 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15M-423(PR_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 5,100.00 | 4,951.92 | 9,997.43 | 7,235.87 | 26.53 | 70.29 | -158.71 | -1,130.46 | 143.33 | 2,298.06 | 2,261.23 | 36.83 | 62.404 | |
| 5,200.00 | 5,048.56 | 10,013.61 | 7,235.86 | 27.06 | 70.61 | -157.94 | -1,146.48 | 145.55 | 2,202.71 | 2,165.29 | 37.42 | 58.859 | |
| 5,300.00 | 5,145.19 | 10,064.40 | 7,235.69 | 27.60 | 71.61 | -155.35 | -1,196.81 | 152.41 | 2,107.45 | 2,069.29 | 38.16 | 55.224 | |
| 5,400.00 | 5,241.83 | 10,085.03 | 7,235.49 | 28.14 | 72.02 | -154.20 | -1,217.26 | 155.15 | 2,012.17 | 1,973.31 | 38.86 | 51.777 | |
| 5,500.00 | 5,338.47 | 10,138.69 | 7,234.59 | 28.67 | 73.09 | -150.96 | -1,270.47 | 161.92 | 1,916.82 | 1,877.12 | 39.70 | 48.280 | |
| 5,600.00 | 5,435.11 | 10,167.13 | 7,233.99 | 29.21 | 73.66 | -149.10 | -1,298.76 | 164.87 | 1,821.54 | 1,781.01 | 40.53 | 44.943 | |
| 5,700.00 | 5,531.74 | 10,183.00 | 7,233.64 | 29.75 | 73.98 | -148.01 | -1,314.55 | 166.39 | 1,726.44 | 1,685.03 | 41.41 | 41.692 | |
| 5,800.00 | 5,628.38 | 10,197.91 | 7,233.37 | 30.29 | 74.28 | -146.95 | -1,329.38 | 167.85 | 1,631.72 | 1,589.33 | 42.39 | 38.496 | |
| 5,900.00 | 5,725.02 | 10,214.00 | 7,233.26 | 30.83 | 74.60 | -145.75 | -1,345.39 | 169.53 | 1,537.53 | 1,494.04 | 43.49 | 35.356 | |
| 6,000.00 | 5,821.66 | 10,251.08 | 7,232.91 | 31.37 | 75.34 | -142.80 | -1,382.29 | 173.09 | 1,443.65 | 1,398.90 | 44.75 | 32.261 | |
| 6,100.00 | 5,918.29 | 10,265.98 | 7,232.76 | 31.90 | 75.64 | -141.55 | -1,397.14 | 174.37 | 1,350.14 | 1,303.98 | 46.15 | 29.253 | |
| 6,200.00 | 6,014.93 | 10,286.39 | 7,232.73 | 32.44 | 76.05 | -139.76 | -1,417.47 | 176.04 | 1,257.31 | 1,209.54 | 47.77 | 26.319 | |
| 6,300.00 | 6,111.57 | 10,348.63 | 7,232.48 | 32.98 | 77.30 | -133.94 | -1,479.66 | 177.98 | 1,164.71 | 1,115.17 | 49.55 | 23.508 | |
| 6,400.00 | 6,208.21 | 10,362.72 | 7,232.39 | 33.52 | 77.58 | -132.52 | -1,493.75 | 177.96 | 1,072.58 | 1,020.89 | 51.69 | 20.751 | |
| 6,500.00 | 6,304.84 | 10,381.68 | 7,232.43 | 34.06 | 77.95 | -130.51 | -1,512.71 | 178.09 | 981.60 | 927.35 | 54.24 | 18.096 | |
| 6,600.00 | 6,401.37 | 10,410.30 | 7,232.49 | 34.60 | 78.53 | -139.64 | -1,541.33 | 178.27 | 892.72 | 835.25 | 57.47 | 15.534 | |
| 6,700.00 | 6,496.25 | 10,439.82 | 7,232.41 | 35.12 | 79.12 | -154.29 | -1,570.84 | 178.46 | 812.77 | 750.25 | 62.51 | 13.001 | |
| 6,800.00 | 6,587.15 | 10,465.73 | 7,232.25 | 35.59 | 79.64 | -161.99 | -1,596.76 | 178.57 | 747.76 | 677.89 | 69.87 | 10.702 | |
| 6,900.00 | 6,671.83 | 10,491.24 | 7,232.03 | 36.03 | 80.15 | -165.82 | -1,622.27 | 178.58 | 703.80 | 624.50 | 79.30 | 8.875 | |
| 7,000.00 | 6,748.21 | 10,510.06 | 7,231.80 | 36.41 | 80.52 | -168.24 | -1,641.09 | 178.58 | 686.32 | 596.73 | 89.59 | 7.661 | |
| 7,010.02 | 6,755.33 | 10,511.55 | 7,231.79 | 36.45 | 80.55 | -168.45 | -1,642.58 | 178.58 | 686.17 | 595.58 | 90.59 | 7.574 CC, ES | |
| 7,100.00 | 6,814.41 | 10,523.65 | 7,231.64 | 36.76 | 80.80 | -170.03 | -1,654.68 | 178.66 | 698.08 | 599.14 | 98.94 | 7.055 | |
| 7,200.00 | 6,868.79 | 10,539.72 | 7,231.44 | 37.07 | 81.12 | -171.00 | -1,670.74 | 178.81 | 737.60 | 631.43 | 106.17 | 6.947 SF | |
| 7,300.00 | 6,910.01 | 10,565.60 | 7,231.06 | 37.39 | 81.64 | -170.59 | -1,696.62 | 178.70 | 799.86 | 688.66 | 111.20 | 7.193 | |
| 7,400.00 | 6,937.07 | 10,573.94 | 7,230.93 | 37.76 | 81.81 | -171.69 | -1,704.95 | 178.59 | 878.91 | 764.83 | 114.08 | 7.705 | |
| 7,500.00 | 6,949.29 | 10,579.88 | 7,230.84 | 38.27 | 81.93 | -173.67 | -1,710.89 | 178.50 | 969.13 | 853.47 | 115.65 | 8.379 | |
| 7,600.00 | 6,949.75 | 10,582.60 | 7,230.80 | 39.02 | 81.98 | -174.62 | -1,713.62 | 178.46 | 1,065.04 | 948.57 | 116.47 | 9.144 | |
| 7,700.00 | 6,949.37 | 10,585.18 | 7,230.77 | 40.05 | 82.03 | -174.09 | -1,716.20 | 178.42 | 1,161.85 | 1,044.77 | 117.09 | 9.923 | |
| 7,800.00 | 6,948.99 | 10,587.87 | 7,230.73 | 41.35 | 82.09 | -173.54 | -1,718.88 | 178.38 | 1,259.16 | 1,141.58 | 117.58 | 10.709 | |
| 7,900.00 | 6,948.61 | 10,590.67 | 7,230.69 | 42.86 | 82.14 | -172.97 | -1,721.68 | 178.33 | 1,356.86 | 1,238.87 | 117.99 | 11.500 | |
| 8,000.00 | 6,948.23 | 10,593.58 | 7,230.65 | 44.53 | 82.20 | -172.38 | -1,724.59 | 178.28 | 1,454.86 | 1,336.53 | 118.33 | 12.295 | |
| 8,100.00 | 6,947.85 | 10,596.61 | 7,230.60 | 46.34 | 82.26 | -171.76 | -1,727.62 | 178.23 | 1,553.12 | 1,434.48 | 118.64 | 13.092 | |
| 8,200.00 | 6,947.47 | 10,599.78 | 7,230.56 | 48.26 | 82.33 | -171.12 | -1,730.79 | 178.17 | 1,651.58 | 1,532.67 | 118.90 | 13.890 | |
| 8,300.00 | 6,947.09 | 8,300.00 | 7,230.60 | 50.28 | 36.24 | -171.75 | -1,727.67 | 178.23 | 1,750.22 | 1,676.72 | 73.50 | 23.812 | |
| 8,400.00 | 6,946.72 | 10,595.00 | 7,230.63 | 52.39 | 82.23 | -172.09 | -1,726.01 | 178.26 | 1,849.00 | 1,729.90 | 119.10 | 15.524 | |
| 8,500.00 | 6,946.34 | 10,595.00 | 7,230.63 | 54.56 | 82.23 | -172.09 | -1,726.01 | 178.26 | 1,947.91 | 1,828.69 | 119.23 | 16.338 | |
| 8,600.00 | 6,945.96 | 10,595.00 | 7,230.63 | 56.80 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,046.93 | 1,927.59 | 119.34 | 17.153 | |
| 8,700.00 | 6,945.58 | 10,595.00 | 7,230.63 | 59.10 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,146.03 | 2,026.60 | 119.43 | 17.969 | |
| 8,800.00 | 6,945.20 | 10,595.00 | 7,230.63 | 61.44 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,245.22 | 2,125.70 | 119.52 | 18.785 | |
| 8,900.00 | 6,944.82 | 10,595.00 | 7,230.63 | 63.83 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,344.47 | 2,224.87 | 119.60 | 19.603 | |
| 9,000.00 | 6,944.44 | 10,595.00 | 7,230.63 | 66.25 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,443.79 | 2,324.12 | 119.67 | 20.421 | |
| 9,100.00 | 6,944.06 | 10,595.00 | 7,230.63 | 68.71 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,543.16 | 2,423.42 | 119.74 | 21.239 | |
| 9,200.00 | 6,943.68 | 10,595.00 | 7,230.63 | 71.20 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,642.57 | 2,522.77 | 119.80 | 22.058 | |
| 9,300.00 | 6,943.30 | 10,595.00 | 7,230.63 | 73.72 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,742.03 | 2,622.17 | 119.86 | 22.877 | |
| 9,400.00 | 6,942.92 | 10,595.00 | 7,230.63 | 76.26 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,841.53 | 2,721.61 | 119.92 | 23.696 | |
| 9,500.00 | 6,942.54 | 10,595.00 | 7,230.63 | 78.82 | 82.23 | -172.09 | -1,726.01 | 178.26 | 2,941.06 | 2,821.09 | 119.97 | 24.515 | |
| 9,600.00 | 6,942.16 | 10,595.00 | 7,230.63 | 81.40 | 82.23 | -172.09 | -1,726.01 | 178.26 | 3,040.62 | 2,920.60 | 120.02 | 25.334 | |
| 9,700.00 | 6,941.78 | 10,595.00 | 7,230.63 | 84.00 | 82.23 | -172.09 | -1,726.01 | 178.26 | 3,140.21 | 3,020.14 | 120.07 | 26.153 | |
| 9,800.00 | 6,941.40 | 10,595.00 | 7,230.63 | 86.62 | 82.23 | -172.09 | -1,726.01 | 178.26 | 3,239.83 | 3,119.71 | 120.12 | 26.971 | |
| 9,900.00 | 6,941.03 | 10,595.00 | 7,230.63 | 89.25 | 82.23 | -172.09 | -1,726.01 | 178.26 | 3,339.46 | 3,219.30 | 120.17 | 27.790 | |
| 10,000.00 | 6,940.65 | 10,595.00 | 7,230.63 | 91.90 | 82.23 | -172.09 | -1,726.01 | 178.26 | 3,439.12 | 3,318.91 | 120.22 | 28.608 | |
| 10,100.00 | 6,940.27 | 10,606.55 | 7,230.49 | 94.56 | 82.46 | -169.76 | -1,737.56 | 178.12 | 3,538.72 | 3,418.18 | 120.55 | 29.355 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15M-423(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,200.00 | 6,939.89 | 10,606.86 | 7,230.48 | 97.23 | 82.47 | -169.69 | -1,737.87 | 178.11 | 3,638.41 | 3,517.81 | 120.60 | 30.169 | | |
| 10,300.00 | 6,939.51 | 10,607.17 | 7,230.48 | 99.91 | 82.47 | -169.63 | -1,738.18 | 178.11 | 3,738.12 | 3,617.47 | 120.65 | 30.982 | | |
| 10,400.00 | 6,939.13 | 10,607.45 | 7,230.48 | 102.60 | 82.48 | -169.57 | -1,738.47 | 178.11 | 3,837.85 | 3,717.14 | 120.71 | 31.795 | | |
| 10,500.00 | 6,938.75 | 10,607.73 | 7,230.48 | 105.30 | 82.49 | -169.52 | -1,738.74 | 178.11 | 3,937.58 | 3,816.82 | 120.76 | 32.607 | | |
| 10,600.00 | 6,938.37 | 10,608.00 | 7,230.47 | 108.00 | 82.49 | -169.46 | -1,739.01 | 178.11 | 4,037.33 | 3,916.52 | 120.81 | 33.418 | | |
| 10,700.00 | 6,937.99 | 10,608.26 | 7,230.47 | 110.72 | 82.50 | -169.41 | -1,739.27 | 178.10 | 4,137.10 | 4,016.23 | 120.86 | 34.229 | | |
| 10,800.00 | 6,937.61 | 10,608.51 | 7,230.47 | 113.44 | 82.50 | -169.36 | -1,739.52 | 178.10 | 4,236.87 | 4,115.95 | 120.92 | 35.040 | | |
| 10,900.00 | 6,937.23 | 10,608.75 | 7,230.47 | 116.17 | 82.51 | -169.31 | -1,739.76 | 178.10 | 4,336.65 | 4,215.69 | 120.97 | 35.850 | | |
| 11,000.00 | 6,936.85 | 10,608.98 | 7,230.46 | 118.90 | 82.51 | -169.27 | -1,739.99 | 178.10 | 4,436.45 | 4,315.43 | 121.02 | 36.659 | | |
| 11,100.00 | 6,936.47 | 10,609.20 | 7,230.46 | 121.64 | 82.52 | -169.22 | -1,740.21 | 178.10 | 4,536.25 | 4,415.18 | 121.07 | 37.468 | | |
| 11,200.00 | 6,936.09 | 10,609.42 | 7,230.46 | 124.39 | 82.52 | -169.18 | -1,740.43 | 178.10 | 4,636.06 | 4,514.94 | 121.12 | 38.275 | | |
| 11,300.00 | 6,935.71 | 10,609.63 | 7,230.46 | 127.14 | 82.52 | -169.14 | -1,740.64 | 178.10 | 4,735.88 | 4,614.70 | 121.18 | 39.083 | | |
| 11,400.00 | 6,935.34 | 10,609.83 | 7,230.46 | 129.90 | 82.53 | -169.10 | -1,740.84 | 178.10 | 4,835.71 | 4,714.48 | 121.23 | 39.889 | | |
| 11,500.00 | 6,934.96 | 10,610.02 | 7,230.45 | 132.66 | 82.53 | -169.06 | -1,741.03 | 178.10 | 4,935.54 | 4,814.26 | 121.28 | 40.695 | | |
| 11,600.00 | 6,934.58 | 9,929.00 | 7,235.97 | 135.42 | 68.94 | 114.31 | -1,062.61 | 134.43 | 5,034.86 | 4,927.23 | 107.63 | 46.781 | | |
| 11,700.00 | 6,934.20 | 9,919.41 | 7,235.92 | 138.19 | 68.75 | 113.99 | -1,053.10 | 133.19 | 5,133.93 | 5,026.37 | 107.56 | 47.731 | | |
| 11,800.00 | 6,933.82 | 9,911.61 | 7,235.89 | 140.96 | 68.60 | 113.73 | -1,045.36 | 132.18 | 5,233.02 | 5,125.50 | 107.52 | 48.670 | | |
| 11,900.00 | 6,933.44 | 9,903.91 | 7,235.87 | 143.74 | 68.45 | 113.48 | -1,037.73 | 131.19 | 5,332.12 | 5,224.64 | 107.49 | 49.608 | | |
| 12,000.00 | 6,933.06 | 9,896.00 | 7,235.85 | 146.51 | 68.30 | 113.23 | -1,029.88 | 130.18 | 5,431.24 | 5,323.79 | 107.45 | 50.548 | | |
| 12,100.00 | 6,932.68 | 9,896.00 | 7,235.85 | 149.30 | 68.30 | 113.23 | -1,029.88 | 130.18 | 5,530.38 | 5,422.86 | 107.52 | 51.434 | | |
| 12,200.00 | 6,932.30 | 9,885.61 | 7,235.84 | 152.08 | 68.09 | 112.91 | -1,019.57 | 128.87 | 5,629.54 | 5,522.08 | 107.45 | 52.390 | | |
| 12,300.00 | 6,931.92 | 9,880.45 | 7,235.83 | 154.87 | 67.99 | 112.75 | -1,014.46 | 128.23 | 5,728.71 | 5,621.25 | 107.46 | 53.311 | | |
| 12,400.00 | 6,931.54 | 9,875.40 | 7,235.83 | 157.66 | 67.89 | 112.60 | -1,009.44 | 127.61 | 5,827.91 | 5,720.44 | 107.47 | 54.231 | | |
| 12,500.00 | 6,931.16 | 9,865.00 | 7,235.82 | 160.45 | 67.69 | 112.29 | -999.12 | 126.35 | 5,927.12 | 5,819.72 | 107.40 | 55.187 | | |
| 12,600.00 | 6,930.78 | 9,865.00 | 7,235.82 | 163.24 | 67.69 | 112.29 | -999.12 | 126.35 | 6,026.34 | 5,918.87 | 107.48 | 56.071 | | |
| 12,700.00 | 6,930.40 | 9,865.00 | 7,235.82 | 166.04 | 67.69 | 112.29 | -999.12 | 126.35 | 6,125.59 | 6,018.04 | 107.55 | 56.955 | | |
| 12,800.00 | 6,930.03 | 9,865.00 | 7,235.82 | 168.84 | 67.69 | 112.29 | -999.12 | 126.35 | 6,224.86 | 6,117.23 | 107.63 | 57.838 | | |
| 12,900.00 | 6,929.65 | 9,865.00 | 7,235.82 | 171.64 | 67.69 | 112.29 | -999.12 | 126.35 | 6,324.15 | 6,216.45 | 107.70 | 58.720 | | |
| 13,000.00 | 6,929.27 | 9,865.00 | 7,235.82 | 174.44 | 67.69 | 112.29 | -999.12 | 126.35 | 6,423.47 | 6,315.69 | 107.78 | 59.601 | | |
| 13,100.00 | 6,928.89 | 9,865.00 | 7,235.82 | 177.24 | 67.69 | 112.29 | -999.12 | 126.35 | 6,522.81 | 6,414.96 | 107.85 | 60.480 | | |
| 13,200.00 | 6,928.51 | 9,865.00 | 7,235.82 | 180.05 | 67.69 | 112.29 | -999.12 | 126.35 | 6,622.16 | 6,514.24 | 107.92 | 61.359 | | |
| 13,300.00 | 6,928.13 | 9,865.00 | 7,235.82 | 182.86 | 67.69 | 112.29 | -999.12 | 126.35 | 6,721.54 | 6,613.54 | 108.00 | 62.237 | | |
| 13,400.00 | 6,927.75 | 9,850.61 | 7,235.84 | 185.67 | 67.41 | 111.88 | -984.82 | 124.70 | 6,820.84 | 6,712.95 | 107.89 | 63.220 | | |
| 13,500.00 | 6,927.37 | 9,848.98 | 7,235.84 | 188.48 | 67.38 | 111.84 | -983.20 | 124.52 | 6,920.23 | 6,812.28 | 107.95 | 64.108 | | |
| 13,600.00 | 6,926.99 | 9,847.38 | 7,235.85 | 191.29 | 67.35 | 111.79 | -981.62 | 124.35 | 7,019.63 | 6,911.63 | 108.00 | 64.996 | | |
| 13,700.00 | 6,926.61 | 9,833.00 | 7,235.91 | 194.10 | 67.07 | 111.41 | -967.31 | 122.89 | 7,119.12 | 7,011.23 | 107.90 | 65.979 | | |
| 13,800.00 | 6,926.23 | 9,833.00 | 7,235.91 | 196.92 | 67.07 | 111.41 | -967.31 | 122.89 | 7,218.54 | 7,110.56 | 107.98 | 66.853 | | |
| 13,900.00 | 6,925.85 | 9,833.00 | 7,235.91 | 199.73 | 67.07 | 111.41 | -967.31 | 122.89 | 7,317.97 | 7,209.92 | 108.05 | 67.726 | | |
| 14,000.00 | 6,925.47 | 9,833.00 | 7,235.91 | 202.55 | 67.07 | 111.41 | -967.31 | 122.89 | 7,417.42 | 7,309.29 | 108.13 | 68.598 | | |
| 14,100.00 | 6,925.09 | 9,833.00 | 7,235.91 | 205.37 | 67.07 | 111.41 | -967.31 | 122.89 | 7,516.88 | 7,408.67 | 108.21 | 69.469 | | |
| 14,200.00 | 6,924.71 | 9,833.00 | 7,235.91 | 208.19 | 67.07 | 111.41 | -967.31 | 122.89 | 7,616.36 | 7,508.07 | 108.28 | 70.338 | | |
| 14,300.00 | 6,924.34 | 9,833.00 | 7,235.91 | 211.01 | 67.07 | 111.41 | -967.31 | 122.89 | 7,715.84 | 7,607.48 | 108.36 | 71.206 | | |
| 14,400.00 | 6,923.96 | 9,833.00 | 7,235.91 | 213.83 | 67.07 | 111.41 | -967.31 | 122.89 | 7,815.35 | 7,706.91 | 108.44 | 72.073 | | |
| 14,500.00 | 6,923.58 | 9,833.00 | 7,235.91 | 216.65 | 67.07 | 111.41 | -967.31 | 122.89 | 7,914.86 | 7,806.35 | 108.51 | 72.938 | | |
| 14,600.00 | 6,923.20 | 9,837.28 | 7,235.88 | 219.48 | 67.15 | 111.52 | -971.57 | 123.30 | 8,014.39 | 7,905.74 | 108.64 | 73.767 | | |
| 14,700.00 | 6,922.82 | 9,820.09 | 7,235.96 | 222.30 | 66.82 | 111.07 | -954.46 | 121.65 | 8,113.92 | 8,005.40 | 108.52 | 74.769 | | |
| 14,800.00 | 6,922.44 | 9,802.55 | 7,235.99 | 225.13 | 66.48 | 110.62 | -937.00 | 119.95 | 8,213.45 | 8,105.05 | 108.40 | 75.773 | | |
| 14,900.00 | 6,922.06 | 9,800.00 | 7,235.99 | 227.95 | 66.43 | 110.56 | -934.46 | 119.70 | 8,312.97 | 8,204.53 | 108.45 | 76.655 | | |
| 14,915.55 | 6,922.00 | 9,800.00 | 7,235.99 | 228.39 | 66.43 | 110.56 | -934.46 | 119.70 | 8,328.45 | 8,219.99 | 108.46 | 76.789 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15R-243(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | 10.49 | 1,647.76 | 305.10 | 1,675.76 | | | | | |
| 100.00 | 100.00 | 78.25 | 78.25 | 3.28 | 3.29 | 10.51 | 1,648.16 | 305.71 | 1,676.41 | 1,669.84 | 6.57 | 255.162 | | |
| 200.00 | 200.00 | 160.83 | 160.79 | 3.34 | 3.31 | 10.57 | 1,649.44 | 307.66 | 1,678.34 | 1,671.70 | 6.64 | 252.645 | | |
| 300.00 | 299.98 | 280.63 | 280.53 | 3.44 | 3.41 | -174.70 | 1,651.07 | 311.28 | 1,682.01 | 1,675.16 | 6.85 | 245.644 | | |
| 400.00 | 399.84 | 373.52 | 373.37 | 3.59 | 3.54 | -174.62 | 1,651.34 | 314.04 | 1,688.09 | 1,680.96 | 7.13 | 236.680 | | |
| 500.00 | 499.45 | 465.47 | 465.29 | 3.79 | 3.71 | -174.61 | 1,653.39 | 314.93 | 1,699.08 | 1,691.58 | 7.50 | 226.510 | | |
| 600.00 | 598.70 | 591.38 | 591.20 | 4.03 | 3.99 | -174.64 | 1,654.68 | 314.89 | 1,712.15 | 1,704.13 | 8.02 | 213.456 | | |
| 700.00 | 697.47 | 679.36 | 679.17 | 4.31 | 4.22 | -174.64 | 1,655.20 | 315.21 | 1,728.38 | 1,719.85 | 8.53 | 202.645 | | |
| 800.00 | 795.62 | 767.80 | 767.61 | 4.64 | 4.47 | -174.64 | 1,656.29 | 315.91 | 1,748.71 | 1,739.62 | 9.09 | 192.361 | | |
| 900.00 | 893.06 | 876.81 | 876.60 | 5.00 | 4.81 | -174.65 | 1,657.68 | 316.73 | 1,772.47 | 1,762.71 | 9.76 | 181.578 | | |
| 1,000.00 | 989.78 | 971.34 | 971.12 | 5.39 | 5.12 | -174.69 | 1,658.55 | 317.29 | 1,798.72 | 1,788.29 | 10.43 | 172.503 | | |
| 1,100.00 | 1,086.42 | 1,053.79 | 1,053.56 | 5.81 | 5.40 | -174.75 | 1,659.66 | 317.72 | 1,825.70 | 1,814.64 | 11.07 | 164.949 | | |
| 1,200.00 | 1,183.06 | 1,147.79 | 1,147.55 | 6.25 | 5.73 | -174.82 | 1,661.37 | 318.24 | 1,853.14 | 1,841.36 | 11.78 | 157.366 | | |
| 1,300.00 | 1,279.69 | 1,256.07 | 1,255.81 | 6.71 | 6.12 | -174.91 | 1,663.18 | 318.07 | 1,880.32 | 1,867.76 | 12.56 | 149.706 | | |
| 1,400.00 | 1,376.33 | 1,347.13 | 1,346.86 | 7.17 | 6.46 | -175.00 | 1,664.62 | 317.39 | 1,907.32 | 1,894.02 | 13.29 | 143.483 | | |
| 1,500.00 | 1,472.97 | 1,447.55 | 1,447.26 | 7.65 | 6.83 | -175.11 | 1,666.24 | 316.53 | 1,934.33 | 1,920.25 | 14.08 | 137.373 | | |
| 1,600.00 | 1,569.61 | 1,518.32 | 1,518.01 | 8.13 | 7.11 | -175.15 | 1,667.64 | 316.91 | 1,961.91 | 1,947.15 | 14.75 | 132.966 | | |
| 1,700.00 | 1,666.24 | 1,587.94 | 1,587.58 | 8.62 | 7.38 | -175.15 | 1,669.61 | 318.82 | 1,990.69 | 1,975.26 | 15.43 | 129.014 | | |
| 1,800.00 | 1,762.88 | 1,660.93 | 1,660.44 | 9.12 | 7.67 | -175.11 | 1,672.43 | 322.19 | 2,020.72 | 2,004.60 | 16.13 | 125.314 | | |
| 1,900.00 | 1,859.52 | 1,739.67 | 1,738.93 | 9.62 | 7.99 | -175.03 | 1,675.84 | 327.39 | 2,051.56 | 2,034.70 | 16.85 | 121.730 | | |
| 2,000.00 | 1,956.16 | 1,807.78 | 1,806.72 | 10.13 | 8.27 | -174.93 | 1,679.34 | 332.94 | 2,083.43 | 2,065.90 | 17.53 | 118.839 | | |
| 2,100.00 | 2,052.79 | 1,873.98 | 1,872.52 | 10.64 | 8.55 | -174.83 | 1,683.52 | 338.91 | 2,116.55 | 2,098.35 | 18.20 | 116.288 | | |
| 2,200.00 | 2,149.43 | 1,946.23 | 1,944.26 | 11.15 | 8.86 | -174.72 | 1,689.04 | 345.49 | 2,150.89 | 2,131.99 | 18.90 | 113.780 | | |
| 2,300.00 | 2,246.07 | 2,031.05 | 2,028.41 | 11.66 | 9.23 | -174.59 | 1,695.93 | 353.54 | 2,185.80 | 2,166.12 | 19.68 | 111.061 | | |
| 2,400.00 | 2,342.71 | 2,114.92 | 2,111.66 | 12.18 | 9.59 | -174.50 | 1,703.33 | 360.50 | 2,221.13 | 2,200.68 | 20.46 | 108.580 | | |
| 2,500.00 | 2,439.34 | 2,210.37 | 2,206.40 | 12.70 | 10.02 | -174.39 | 1,711.89 | 368.43 | 2,256.63 | 2,235.32 | 21.30 | 105.924 | | |
| 2,600.00 | 2,535.98 | 2,317.10 | 2,312.24 | 13.22 | 10.50 | -174.24 | 1,720.92 | 378.71 | 2,291.91 | 2,269.68 | 22.23 | 103.105 | | |
| 2,700.00 | 2,632.62 | 2,435.59 | 2,429.88 | 13.75 | 11.04 | -174.07 | 1,729.55 | 390.02 | 2,326.02 | 2,302.79 | 23.23 | 100.123 | | |
| 2,800.00 | 2,729.26 | 2,520.62 | 2,514.33 | 14.27 | 11.43 | -173.96 | 1,735.73 | 397.67 | 2,360.09 | 2,336.05 | 24.03 | 98.197 | | |
| 2,900.00 | 2,825.89 | 2,599.95 | 2,593.09 | 14.80 | 11.79 | -173.87 | 1,741.86 | 404.98 | 2,394.63 | 2,369.83 | 24.80 | 96.545 | | |
| 3,000.00 | 2,922.53 | 2,673.60 | 2,666.14 | 15.32 | 12.14 | -173.77 | 1,748.04 | 412.07 | 2,429.88 | 2,404.34 | 25.54 | 95.152 | | |
| 3,100.00 | 3,019.17 | 2,788.86 | 2,780.38 | 15.85 | 12.68 | -173.61 | 1,757.69 | 423.85 | 2,465.25 | 2,438.71 | 26.54 | 92.875 | | |
| 3,200.00 | 3,115.81 | 2,924.10 | 2,914.49 | 16.38 | 13.32 | -173.39 | 1,766.36 | 439.03 | 2,498.88 | 2,471.19 | 27.69 | 90.259 | | |
| 3,300.00 | 3,212.44 | 3,025.22 | 3,014.91 | 16.91 | 13.80 | -173.25 | 1,772.44 | 449.17 | 2,532.04 | 2,503.44 | 28.61 | 88.510 | | |
| 3,400.00 | 3,309.08 | 3,111.93 | 3,101.14 | 17.44 | 14.20 | -173.17 | 1,777.84 | 456.51 | 2,565.10 | 2,535.67 | 29.44 | 87.140 | | |
| 3,500.00 | 3,405.72 | 3,189.21 | 3,177.90 | 17.97 | 14.57 | -173.08 | 1,782.92 | 463.87 | 2,598.70 | 2,568.49 | 30.21 | 86.034 | | |
| 3,600.00 | 3,502.36 | 3,287.31 | 3,275.28 | 18.50 | 15.03 | -172.96 | 1,789.86 | 473.57 | 2,632.85 | 2,601.74 | 31.11 | 84.622 | | |
| 3,700.00 | 3,598.99 | 3,399.85 | 3,387.19 | 19.03 | 15.56 | -172.87 | 1,797.04 | 482.98 | 2,666.00 | 2,633.88 | 32.11 | 83.015 | | |
| 3,800.00 | 3,695.63 | 3,488.58 | 3,475.41 | 19.57 | 15.98 | -172.79 | 1,802.71 | 490.55 | 2,699.24 | 2,666.28 | 32.96 | 81.893 | | |
| 3,900.00 | 3,792.27 | 3,574.04 | 3,560.35 | 20.10 | 16.39 | -172.71 | 1,808.27 | 498.22 | 2,732.69 | 2,698.90 | 33.79 | 80.882 | | |
| 4,000.00 | 3,888.91 | 3,661.94 | 3,647.69 | 20.63 | 16.80 | -172.64 | 1,814.39 | 505.92 | 2,766.51 | 2,731.88 | 34.63 | 79.889 | | |
| 4,100.00 | 3,985.54 | 3,762.79 | 3,747.85 | 21.17 | 17.29 | -172.54 | 1,821.11 | 515.64 | 2,800.25 | 2,764.69 | 35.56 | 78.739 | | |
| 4,200.00 | 4,082.18 | 3,845.01 | 3,829.46 | 21.70 | 17.69 | -172.44 | 1,826.37 | 524.09 | 2,833.92 | 2,797.54 | 36.37 | 77.910 | | |
| 4,300.00 | 4,178.82 | 3,912.00 | 3,895.82 | 22.24 | 18.02 | -172.35 | 1,831.17 | 531.91 | 2,868.51 | 2,831.43 | 37.08 | 77.362 | | |
| 4,400.00 | 4,275.46 | 3,984.93 | 3,967.95 | 22.77 | 18.38 | -172.24 | 1,836.84 | 541.10 | 2,903.90 | 2,866.07 | 37.83 | 76.767 | | |
| 4,500.00 | 4,372.09 | 4,073.13 | 4,055.82 | 23.31 | 18.74 | -172.12 | 1,842.57 | 550.62 | 2,939.31 | 2,901.43 | 38.59 | 76.153 | | |
| 4,600.00 | 4,468.73 | 4,169.20 | 4,151.93 | 23.84 | 19.19 | -172.00 | 1,848.36 | 560.22 | 2,975.82 | 2,937.08 | 39.37 | 75.522 | | |
| 4,700.00 | 4,565.37 | 4,264.97 | 4,247.22 | 24.38 | 19.66 | -171.87 | 1,854.20 | 570.00 | 3,012.43 | 2,972.69 | 40.17 | 74.885 | | |
| 4,800.00 | 4,662.01 | 4,361.06 | 4,342.66 | 24.91 | 20.17 | -171.72 | 1,860.09 | 580.00 | 3,049.14 | 3,009.40 | 40.99 | 74.242 | | |
| 4,900.00 | 4,758.64 | 4,457.86 | 4,438.91 | 25.45 | 20.72 | -171.57 | 1,866.02 | 590.22 | 3,086.05 | 3,045.31 | 41.83 | 73.594 | | |
| 5,000.00 | 4,855.28 | 4,554.83 | 4,535.55 | 25.99 | 21.31 | -171.40 | 1,872.00 | 600.62 | 3,123.16 | 3,081.42 | 42.69 | 72.941 | | |
| 5,100.00 | 4,951.92 | 4,652.41 | 4,632.66 | 26.53 | 21.94 | -171.22 | 1,878.13 | 611.31 | 3,160.47 | 3,117.73 | 43.57 | 72.283 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15R-243(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 10,010.96 | 7,119.56 | 27.06 | 72.42 | -124.71 | -1,261.27 | 646.94 | 2,206.88 | 2,159.64 | 47.24 | 46.718 | | |
| 5,300.00 | 5,145.19 | 10,041.22 | 7,118.89 | 27.60 | 73.01 | -123.14 | -1,291.49 | 645.60 | 2,116.38 | 2,067.69 | 48.69 | 43.465 | | |
| 5,400.00 | 5,241.83 | 10,069.40 | 7,118.25 | 28.14 | 73.56 | -121.64 | -1,319.63 | 644.18 | 2,026.44 | 1,976.19 | 50.26 | 40.322 | | |
| 5,500.00 | 5,338.47 | 10,065.00 | 7,118.35 | 28.67 | 73.47 | -121.87 | -1,315.24 | 644.41 | 1,937.38 | 1,885.53 | 51.85 | 37.367 | | |
| 5,600.00 | 5,435.11 | 10,081.47 | 7,118.14 | 29.21 | 73.79 | -120.98 | -1,331.68 | 643.57 | 1,849.20 | 1,795.53 | 53.67 | 34.452 | | |
| 5,700.00 | 5,531.74 | 10,096.00 | 7,118.22 | 29.75 | 74.07 | -120.18 | -1,346.20 | 642.85 | 1,762.27 | 1,706.59 | 55.68 | 31.652 | | |
| 5,800.00 | 5,628.38 | 10,103.51 | 7,118.32 | 30.29 | 74.22 | -119.77 | -1,353.70 | 642.48 | 1,676.57 | 1,618.71 | 57.87 | 28.973 | | |
| 5,900.00 | 5,725.02 | 10,125.45 | 7,118.67 | 30.83 | 74.65 | -118.53 | -1,375.61 | 641.46 | 1,592.25 | 1,531.93 | 60.33 | 26.394 | | |
| 6,000.00 | 5,821.66 | 10,154.06 | 7,119.15 | 31.37 | 75.21 | -116.88 | -1,404.18 | 640.16 | 1,509.40 | 1,446.34 | 63.06 | 23.934 | | |
| 6,100.00 | 5,918.29 | 10,188.58 | 7,119.68 | 31.90 | 75.88 | -114.84 | -1,438.66 | 638.50 | 1,428.15 | 1,362.04 | 66.11 | 21.603 | | |
| 6,200.00 | 6,014.93 | 10,218.52 | 7,120.09 | 32.44 | 76.47 | -113.02 | -1,468.56 | 636.89 | 1,348.75 | 1,279.29 | 69.46 | 19.418 | | |
| 6,300.00 | 6,111.57 | 10,243.60 | 7,120.43 | 32.98 | 76.96 | -111.46 | -1,493.60 | 635.54 | 1,271.67 | 1,198.52 | 73.16 | 17.383 | | |
| 6,400.00 | 6,208.21 | 10,271.75 | 7,120.76 | 33.52 | 77.51 | -109.67 | -1,521.71 | 634.15 | 1,197.42 | 1,120.17 | 77.26 | 15.500 | | |
| 6,500.00 | 6,304.84 | 10,303.31 | 7,120.98 | 34.06 | 78.13 | -107.62 | -1,553.24 | 632.60 | 1,126.43 | 1,044.66 | 81.77 | 13.775 | | |
| 6,600.00 | 6,401.37 | 10,333.19 | 7,121.08 | 34.60 | 78.72 | -121.69 | -1,583.07 | 631.04 | 1,061.04 | 974.27 | 86.77 | 12.228 | | |
| 6,700.00 | 6,496.25 | 10,371.61 | 7,120.99 | 35.12 | 79.48 | -141.14 | -1,621.44 | 628.97 | 1,012.45 | 919.86 | 92.59 | 10.935 | | |
| 6,800.00 | 6,587.15 | 10,401.60 | 7,120.53 | 35.59 | 80.07 | -151.57 | -1,651.37 | 627.19 | 985.59 | 886.85 | 98.74 | 9.982 | | |
| 6,858.90 | 6,637.92 | 10,415.21 | 7,120.24 | 35.85 | 80.34 | -155.35 | -1,664.95 | 626.42 | 981.21 | 878.99 | 102.23 | 9.598 CC | | |
| 6,900.00 | 6,671.83 | 10,423.53 | 7,120.04 | 36.03 | 80.50 | -157.34 | -1,673.26 | 625.97 | 983.36 | 878.85 | 104.51 | 9.409 ES | | |
| 7,000.00 | 6,748.21 | 10,442.47 | 7,119.57 | 36.41 | 80.88 | -160.62 | -1,692.17 | 625.00 | 1,006.11 | 896.79 | 109.32 | 9.203 SF | | |
| 7,100.00 | 6,814.41 | 10,468.68 | 7,118.83 | 36.76 | 81.40 | -161.87 | -1,718.34 | 623.65 | 1,051.72 | 938.71 | 113.01 | 9.307 | | |
| 7,200.00 | 6,868.79 | 10,494.10 | 7,118.03 | 37.07 | 81.90 | -161.90 | -1,743.70 | 622.19 | 1,116.38 | 1,000.79 | 115.59 | 9.658 | | |
| 7,300.00 | 6,910.01 | 10,512.47 | 7,117.43 | 37.39 | 82.27 | -161.16 | -1,762.02 | 621.04 | 1,195.68 | 1,078.45 | 117.24 | 10.199 | | |
| 7,400.00 | 6,937.07 | 10,521.29 | 7,117.12 | 37.76 | 82.44 | -159.60 | -1,770.82 | 620.50 | 1,285.39 | 1,167.22 | 118.17 | 10.877 | | |
| 7,500.00 | 6,949.29 | 10,527.52 | 7,116.91 | 38.27 | 82.56 | -154.43 | -1,777.04 | 620.14 | 1,381.58 | 1,262.90 | 118.68 | 11.641 | | |
| 7,600.00 | 6,949.75 | 10,531.74 | 7,116.76 | 39.02 | 82.65 | -149.17 | -1,781.24 | 619.90 | 1,480.59 | 1,361.65 | 118.93 | 12.449 | | |
| 7,700.00 | 6,949.37 | 10,535.63 | 7,116.62 | 40.05 | 82.73 | -148.14 | -1,785.13 | 619.69 | 1,579.82 | 1,460.67 | 119.15 | 13.259 | | |
| 7,800.00 | 6,948.99 | 10,535.00 | 7,115.73 | 41.35 | 83.19 | -142.29 | -1,808.91 | 618.20 | 1,679.02 | 1,544.53 | 120.44 | 14.764 | | |
| 7,900.00 | 6,948.61 | 10,534.93 | 7,114.38 | 42.86 | 83.90 | -134.95 | -1,844.24 | 615.59 | 1,778.22 | 1,657.78 | 120.85 | 15.535 | | |
| 8,000.00 | 6,948.23 | 10,534.08 | 7,113.80 | 44.53 | 84.20 | -132.26 | -1,859.33 | 614.35 | 1,877.43 | 1,756.57 | 121.45 | 16.276 | | |
| 8,100.00 | 6,947.85 | 10,533.52 | 7,112.87 | 46.34 | 84.70 | -128.27 | -1,884.66 | 612.11 | 1,976.62 | 1,855.17 | 121.68 | 17.059 | | |
| 8,200.00 | 6,947.47 | 10,532.99 | 7,112.69 | 48.26 | 84.81 | -127.51 | -1,890.02 | 611.62 | 2,075.81 | 1,954.13 | 121.92 | 17.840 | | |
| 8,300.00 | 6,947.09 | 10,532.50 | 7,112.50 | 50.28 | 84.92 | -126.74 | -1,895.58 | 611.12 | 2,175.06 | 2,053.14 | 122.14 | 18.620 | | |
| 8,400.00 | 6,946.72 | 10,531.99 | 7,112.32 | 52.39 | 85.02 | -126.02 | -1,900.94 | 610.65 | 2,274.35 | 2,152.20 | 122.36 | 19.399 | | |
| 8,500.00 | 6,946.34 | 10,531.46 | 7,112.15 | 54.56 | 85.13 | -125.35 | -1,906.10 | 610.20 | 2,373.67 | 2,251.31 | 122.67 | 20.160 | | |
| 8,600.00 | 6,945.96 | 10,530.91 | 7,111.83 | 56.80 | 85.32 | -124.12 | -1,916.00 | 609.37 | 2,473.05 | 2,350.38 | 122.77 | 20.953 | | |
| 8,700.00 | 6,945.58 | 10,530.36 | 7,111.83 | 59.10 | 85.32 | -124.12 | -1,916.00 | 609.37 | 2,572.43 | 2,449.66 | 122.87 | 21.745 | | |
| 8,800.00 | 6,945.20 | 10,529.81 | 7,111.58 | 61.44 | 85.49 | -123.15 | -1,924.27 | 608.70 | 2,671.86 | 2,548.99 | 123.14 | 22.505 | | |
| 8,900.00 | 6,944.82 | 10,529.33 | 7,111.46 | 63.83 | 85.57 | -122.70 | -1,928.23 | 608.39 | 2,771.31 | 2,648.17 | 123.32 | 23.280 | | |
| 9,000.00 | 6,944.44 | 10,528.84 | 7,111.35 | 66.25 | 85.64 | -122.28 | -1,932.06 | 608.10 | 2,870.79 | 2,747.47 | 123.49 | 24.053 | | |
| 9,100.00 | 6,944.06 | 10,528.35 | 7,111.25 | 68.71 | 85.72 | -121.88 | -1,935.76 | 607.82 | 2,970.29 | 2,846.81 | 123.65 | 24.826 | | |
| 9,200.00 | 6,943.68 | 10,527.86 | 7,111.16 | 71.20 | 85.79 | -121.50 | -1,939.33 | 607.56 | 3,069.82 | 2,946.16 | 123.82 | 25.598 | | |
| 9,300.00 | 6,943.30 | 10,527.37 | 7,111.04 | 73.72 | 85.86 | -120.63 | -1,947.89 | 606.94 | 3,169.36 | 3,045.55 | 124.09 | 26.343 | | |
| 9,400.00 | 6,942.92 | 10,526.88 | 7,110.94 | 76.26 | 86.90 | -116.53 | -1,995.15 | 603.22 | 3,368.50 | 3,243.22 | 125.28 | 26.888 | | |
| 9,500.00 | 6,942.54 | 10,526.39 | 7,110.84 | 78.82 | 86.90 | -115.87 | -2,003.96 | 602.44 | 3,467.95 | 3,365.50 | 126.40 | 28.223 | | |
| 9,600.00 | 6,942.16 | 10,525.90 | 7,110.74 | 81.40 | 87.69 | -113.81 | -2,034.60 | 599.69 | 3,567.38 | 3,440.98 | 126.76 | 28.926 | | |
| 9,700.00 | 6,941.78 | 10,525.41 | 7,110.64 | 84.00 | 88.17 | -112.38 | -2,059.05 | 597.45 | 3,666.80 | 3,540.04 | 127.02 | 29.651 | | |
| 9,800.00 | 6,941.40 | 10,524.92 | 7,110.54 | 86.62 | 88.30 | -112.03 | -2,065.48 | 596.86 | 3,766.23 | 3,639.22 | 127.27 | 30.375 | | |
| 9,900.00 | 6,941.03 | 10,524.43 | 7,110.44 | 89.25 | 88.48 | -111.57 | -2,074.41 | 596.06 | 3,865.68 | 3,738.41 | 127.52 | 31.095 | | |
| 10,000.00 | 6,940.65 | 10,523.94 | 7,110.34 | 91.90 | 88.48 | -111.57 | -2,074.41 | 596.06 | 3,965.13 | 3,837.62 | 127.83 | 31.797 | | |
| 10,100.00 | 6,940.27 | 10,523.45 | 7,110.24 | 94.56 | 88.48 | -111.57 | -2,074.41 | 596.06 | 4,064.60 | 3,936.78 | 128.09 | 32.500 | | |
| 10,200.00 | 6,939.89 | 10,522.96 | 7,110.14 | 97.23 | 88.48 | -111.57 | -2,074.41 | 596.06 | 4,164.07 | 4,036.25 | 128.35 | 33.203 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15R-243(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 10,831.55 | 7,109.13 | 99.91 | 88.59 | -111.29 | -2,079.93 | 595.57 | 4,164.08 | 4,036.03 | 128.05 | 32.518 | | |
| 10,400.00 | 6,939.13 | 10,841.03 | 7,109.12 | 102.60 | 88.78 | -110.84 | -2,089.38 | 594.73 | 4,263.56 | 4,135.18 | 128.38 | 33.210 | | |
| 10,500.00 | 6,938.75 | 10,850.52 | 7,109.10 | 105.30 | 88.97 | -110.40 | -2,098.83 | 593.88 | 4,363.05 | 4,234.33 | 128.71 | 33.897 | | |
| 10,600.00 | 6,938.37 | 10,868.50 | 7,109.07 | 108.00 | 89.32 | -109.62 | -2,116.74 | 592.27 | 4,462.53 | 4,333.26 | 129.27 | 34.521 | | |
| 10,700.00 | 6,937.99 | 10,700.00 | 7,109.03 | 110.72 | 85.98 | -109.08 | -2,129.75 | 591.06 | 4,561.98 | 4,435.91 | 126.06 | 36.188 | | |
| 10,800.00 | 6,937.61 | 10,897.41 | 7,108.97 | 113.44 | 89.90 | -108.47 | -2,145.52 | 589.59 | 4,661.43 | 4,531.22 | 130.21 | 35.798 | | |
| 10,900.00 | 6,937.23 | 10,903.02 | 7,108.95 | 116.17 | 90.01 | -108.26 | -2,151.11 | 589.08 | 4,760.90 | 4,630.44 | 130.45 | 36.496 | | |
| 11,000.00 | 6,936.85 | 10,908.52 | 7,108.92 | 118.90 | 90.12 | -108.06 | -2,156.59 | 588.57 | 4,860.37 | 4,729.68 | 130.69 | 37.191 | | |
| 11,100.00 | 6,936.47 | 10,913.93 | 7,108.88 | 121.64 | 90.23 | -107.86 | -2,161.98 | 588.08 | 4,959.85 | 4,828.93 | 130.92 | 37.885 | | |
| 11,200.00 | 6,936.09 | 10,921.00 | 7,108.84 | 124.39 | 90.37 | -107.61 | -2,169.02 | 587.45 | 5,059.35 | 4,928.15 | 131.20 | 38.563 | | |
| 11,300.00 | 6,935.71 | 10,924.96 | 7,108.81 | 127.14 | 90.45 | -107.48 | -2,172.96 | 587.10 | 5,158.85 | 5,027.46 | 131.39 | 39.263 | | |
| 11,400.00 | 6,935.34 | 10,930.86 | 7,108.78 | 129.90 | 90.57 | -107.28 | -2,178.84 | 586.58 | 5,258.36 | 5,126.72 | 131.64 | 39.946 | | |
| 11,500.00 | 6,934.96 | 10,936.67 | 7,108.75 | 132.66 | 90.68 | -107.09 | -2,184.63 | 586.07 | 5,357.88 | 5,225.99 | 131.88 | 40.626 | | |
| 11,600.00 | 6,934.58 | 10,942.41 | 7,108.73 | 135.42 | 90.80 | -106.90 | -2,190.35 | 585.57 | 5,457.41 | 5,325.28 | 132.13 | 41.304 | | |
| 11,700.00 | 6,934.20 | 10,948.07 | 7,108.71 | 138.19 | 90.91 | -106.73 | -2,195.99 | 585.08 | 5,556.94 | 5,424.57 | 132.37 | 41.980 | | |
| 11,800.00 | 6,933.82 | 10,953.00 | 7,108.70 | 140.96 | 91.01 | -106.58 | -2,200.89 | 584.66 | 5,656.48 | 5,523.89 | 132.59 | 42.661 | | |
| 11,900.00 | 6,933.44 | 10,959.03 | 7,108.70 | 143.74 | 91.13 | -106.39 | -2,206.91 | 584.15 | 5,756.03 | 5,623.18 | 132.85 | 43.328 | | |
| 12,000.00 | 6,933.06 | 10,964.35 | 7,108.70 | 146.51 | 91.23 | -106.24 | -2,212.21 | 583.70 | 5,855.59 | 5,722.50 | 133.08 | 44.000 | | |
| 12,100.00 | 6,932.68 | 10,969.60 | 7,108.72 | 149.30 | 91.34 | -106.09 | -2,217.44 | 583.26 | 5,955.15 | 5,821.83 | 133.31 | 44.670 | | |
| 12,200.00 | 6,932.30 | 10,974.79 | 7,108.75 | 152.08 | 91.44 | -105.95 | -2,222.60 | 582.83 | 6,054.72 | 5,921.17 | 133.55 | 45.338 | | |
| 12,300.00 | 6,931.92 | 10,979.90 | 7,108.79 | 154.87 | 91.55 | -105.81 | -2,227.70 | 582.40 | 6,154.30 | 6,020.52 | 133.78 | 46.004 | | |
| 12,400.00 | 6,931.54 | 10,985.00 | 7,108.84 | 157.66 | 91.65 | -105.67 | -2,232.78 | 581.99 | 6,253.88 | 6,119.87 | 134.01 | 46.668 | | |
| 12,500.00 | 6,931.16 | 10,985.00 | 7,108.84 | 160.45 | 91.65 | -105.67 | -2,232.78 | 581.99 | 6,353.47 | 6,219.38 | 134.09 | 47.383 | | |
| 12,600.00 | 6,930.78 | 10,985.00 | 7,108.84 | 163.24 | 91.65 | -105.67 | -2,232.78 | 581.99 | 6,453.07 | 6,318.91 | 134.17 | 48.098 | | |
| 12,700.00 | 6,930.40 | 10,985.00 | 7,108.84 | 166.04 | 91.65 | -105.67 | -2,232.78 | 581.99 | 6,552.69 | 6,418.45 | 134.24 | 48.812 | | |
| 12,800.00 | 6,930.03 | 10,997.09 | 7,109.00 | 168.84 | 91.89 | -105.37 | -2,244.83 | 581.02 | 6,652.29 | 6,517.60 | 134.69 | 49.391 | | |
| 12,900.00 | 6,929.65 | 10,999.97 | 7,109.05 | 171.64 | 91.95 | -105.30 | -2,247.71 | 580.79 | 6,751.91 | 6,617.06 | 134.85 | 50.069 | | |
| 13,000.00 | 6,929.27 | 11,002.81 | 7,109.10 | 174.44 | 92.01 | -105.23 | -2,250.53 | 580.57 | 6,851.54 | 6,716.52 | 135.02 | 50.746 | | |
| 13,100.00 | 6,928.89 | 11,005.59 | 7,109.16 | 177.24 | 92.06 | -105.17 | -2,253.30 | 580.36 | 6,951.18 | 6,816.00 | 135.18 | 51.422 | | |
| 13,200.00 | 6,928.51 | 11,017.00 | 7,109.42 | 180.05 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,050.84 | 6,915.23 | 135.60 | 51.996 | | |
| 13,300.00 | 6,928.13 | 11,017.00 | 7,109.42 | 182.86 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,150.48 | 7,014.80 | 135.68 | 52.700 | | |
| 13,400.00 | 6,927.75 | 11,017.00 | 7,109.42 | 185.67 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,250.13 | 7,114.37 | 135.76 | 53.403 | | |
| 13,500.00 | 6,927.37 | 11,017.00 | 7,109.42 | 188.48 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,349.79 | 7,213.95 | 135.84 | 54.106 | | |
| 13,600.00 | 6,926.99 | 11,017.00 | 7,109.42 | 191.29 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,449.47 | 7,313.55 | 135.92 | 54.808 | | |
| 13,700.00 | 6,926.61 | 11,017.00 | 7,109.42 | 194.10 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,549.14 | 7,413.15 | 136.00 | 55.509 | | |
| 13,800.00 | 6,926.23 | 11,017.00 | 7,109.42 | 196.92 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,648.83 | 7,512.76 | 136.08 | 56.209 | | |
| 13,900.00 | 6,925.85 | 11,017.00 | 7,109.42 | 199.73 | 92.29 | -104.91 | -2,264.68 | 579.50 | 7,748.53 | 7,612.37 | 136.16 | 56.909 | | |
| 14,000.00 | 6,925.47 | 11,028.32 | 7,109.75 | 202.55 | 92.52 | -104.66 | -2,275.96 | 578.69 | 7,848.21 | 7,711.62 | 136.59 | 57.460 | | |
| 14,100.00 | 6,925.09 | 11,030.61 | 7,109.82 | 205.37 | 92.57 | -104.62 | -2,278.25 | 578.53 | 7,947.91 | 7,811.17 | 136.74 | 58.126 | | |
| 14,200.00 | 6,924.71 | 11,032.86 | 7,109.89 | 208.19 | 92.61 | -104.57 | -2,280.50 | 578.38 | 8,047.61 | 7,910.72 | 136.89 | 58.790 | | |
| 14,300.00 | 6,924.34 | 11,035.08 | 7,109.96 | 211.01 | 92.66 | -104.52 | -2,282.71 | 578.23 | 8,147.32 | 8,010.28 | 137.04 | 59.454 | | |
| 14,400.00 | 6,923.96 | 11,037.26 | 7,110.04 | 213.83 | 92.70 | -104.48 | -2,284.88 | 578.08 | 8,247.04 | 8,109.85 | 137.18 | 60.117 | | |
| 14,500.00 | 6,923.58 | 11,048.00 | 7,110.43 | 216.65 | 92.92 | -104.27 | -2,295.59 | 577.37 | 8,346.77 | 8,209.17 | 137.60 | 60.659 | | |
| 14,600.00 | 6,923.20 | 11,048.00 | 7,110.43 | 219.48 | 92.92 | -104.27 | -2,295.59 | 577.37 | 8,446.49 | 8,308.81 | 137.68 | 61.348 | | |
| 14,700.00 | 6,922.82 | 11,048.00 | 7,110.43 | 222.30 | 92.92 | -104.27 | -2,295.59 | 577.37 | 8,546.21 | 8,408.45 | 137.76 | 62.036 | | |
| 14,800.00 | 6,922.44 | 11,048.00 | 7,110.43 | 225.13 | 92.92 | -104.27 | -2,295.59 | 577.37 | 8,645.94 | 8,508.10 | 137.84 | 62.723 | | |
| 14,900.00 | 6,922.06 | 11,048.00 | 7,110.43 | 227.95 | 92.92 | -104.27 | -2,295.59 | 577.37 | 8,745.68 | 8,607.76 | 137.92 | 63.410 | | |
| 14,915.55 | 6,922.00 | 11,048.00 | 7,110.43 | 228.39 | 92.92 | -104.27 | -2,295.59 | 577.37 | 8,761.19 | 8,623.26 | 137.94 | 63.516 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15R-403(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 13.14 | 3.14 | 3.28 | 3.28 | 45.88 | 1,644.16 | 1,695.70 | 2,361.92 | | | | | |
| 100.00 | 100.00 | 144.51 | 134.51 | 3.28 | 3.30 | 45.86 | 1,644.06 | 1,694.34 | 2,361.12 | 2,354.54 | 6.58 | 358.944 | | |
| 200.00 | 200.00 | 256.75 | 246.70 | 3.34 | 3.37 | 45.81 | 1,644.31 | 1,691.40 | 2,359.40 | 2,352.69 | 6.71 | 351.667 | | |
| 277.39 | 277.38 | 343.66 | 333.54 | 3.41 | 3.48 | -139.67 | 1,645.06 | 1,688.02 | 2,358.51 | 2,351.61 | 6.89 | 342.154 | | |
| 300.00 | 299.98 | 358.33 | 348.20 | 3.44 | 3.50 | -139.69 | 1,645.27 | 1,687.41 | 2,358.57 | 2,351.63 | 6.94 | 339.750 | | |
| 400.00 | 399.84 | 445.43 | 435.19 | 3.59 | 3.66 | -139.83 | 1,647.00 | 1,683.65 | 2,360.87 | 2,353.62 | 7.25 | 325.856 | | |
| 500.00 | 499.45 | 543.03 | 532.66 | 3.79 | 3.87 | -140.01 | 1,649.45 | 1,679.21 | 2,366.07 | 2,358.41 | 7.66 | 309.061 | | |
| 600.00 | 598.70 | 637.35 | 626.82 | 4.03 | 4.11 | -140.22 | 1,652.49 | 1,674.48 | 2,374.17 | 2,366.03 | 8.14 | 291.720 | | |
| 700.00 | 697.47 | 729.34 | 718.61 | 4.31 | 4.38 | -140.44 | 1,655.99 | 1,669.55 | 2,385.20 | 2,376.52 | 8.68 | 274.704 | | |
| 800.00 | 795.62 | 824.14 | 813.17 | 4.64 | 4.68 | -140.70 | 1,660.26 | 1,664.24 | 2,399.35 | 2,390.05 | 9.29 | 258.144 | | |
| 900.00 | 893.06 | 921.03 | 909.79 | 5.00 | 5.00 | -140.99 | 1,664.52 | 1,658.60 | 2,416.12 | 2,406.15 | 9.96 | 242.464 | | |
| 1,000.00 | 989.78 | 1,001.06 | 989.62 | 5.39 | 5.29 | -141.32 | 1,668.34 | 1,654.17 | 2,435.79 | 2,425.17 | 10.62 | 229.390 | | |
| 1,100.00 | 1,086.42 | 1,253.55 | 1,239.38 | 5.81 | 6.32 | -143.09 | 1,687.79 | 1,624.19 | 2,455.14 | 2,443.09 | 12.04 | 203.869 | | |
| 1,200.00 | 1,183.06 | 1,368.23 | 1,351.91 | 6.25 | 6.87 | -143.98 | 1,696.03 | 1,603.69 | 2,469.52 | 2,456.53 | 12.98 | 190.225 | | |
| 1,300.00 | 1,279.69 | 1,461.32 | 1,443.16 | 6.71 | 7.33 | -144.70 | 1,702.58 | 1,586.54 | 2,483.88 | 2,470.03 | 13.85 | 179.329 | | |
| 1,400.00 | 1,376.33 | 1,400.00 | 1,569.95 | 7.17 | 7.01 | -145.69 | 1,711.39 | 1,562.40 | 2,498.48 | 2,484.50 | 13.98 | 178.744 | | |
| 1,500.00 | 1,472.97 | 1,752.24 | 1,728.13 | 7.65 | 8.85 | -146.88 | 1,718.14 | 1,530.35 | 2,510.50 | 2,494.30 | 16.20 | 154.985 | | |
| 1,600.00 | 1,569.61 | 1,846.58 | 1,820.56 | 8.13 | 9.36 | -147.55 | 1,720.63 | 1,511.62 | 2,522.05 | 2,504.92 | 17.13 | 147.216 | | |
| 1,700.00 | 1,666.24 | 1,916.00 | 1,888.74 | 8.62 | 9.73 | -148.02 | 1,722.64 | 1,498.73 | 2,534.86 | 2,516.92 | 17.94 | 141.278 | | |
| 1,800.00 | 1,762.88 | 1,975.96 | 1,947.78 | 9.12 | 10.04 | -148.42 | 1,724.65 | 1,488.39 | 2,549.10 | 2,530.40 | 18.70 | 136.306 | | |
| 1,900.00 | 1,859.52 | 2,038.64 | 2,009.58 | 9.62 | 10.37 | -148.82 | 1,727.00 | 1,478.27 | 2,564.70 | 2,545.23 | 19.47 | 131.701 | | |
| 2,000.00 | 1,956.16 | 2,106.00 | 2,076.11 | 10.13 | 10.72 | -149.25 | 1,730.26 | 1,468.22 | 2,582.00 | 2,561.73 | 20.27 | 127.387 | | |
| 2,100.00 | 2,052.79 | 2,175.12 | 2,144.38 | 10.64 | 11.08 | -149.68 | 1,734.23 | 1,458.24 | 2,600.55 | 2,579.48 | 21.08 | 123.394 | | |
| 2,200.00 | 2,149.43 | 2,253.91 | 2,222.16 | 11.15 | 11.49 | -150.18 | 1,739.27 | 1,446.64 | 2,619.85 | 2,597.91 | 21.94 | 119.410 | | |
| 2,300.00 | 2,246.07 | 2,329.77 | 2,296.98 | 11.66 | 11.89 | -150.66 | 1,744.80 | 1,435.43 | 2,640.08 | 2,617.29 | 22.79 | 115.831 | | |
| 2,400.00 | 2,342.71 | 2,412.93 | 2,378.95 | 12.18 | 12.33 | -151.20 | 1,751.51 | 1,423.13 | 2,661.22 | 2,637.53 | 23.69 | 112.333 | | |
| 2,500.00 | 2,439.34 | 2,514.11 | 2,478.85 | 12.70 | 12.87 | -151.81 | 1,758.96 | 1,408.90 | 2,682.47 | 2,657.78 | 24.69 | 108.640 | | |
| 2,600.00 | 2,535.98 | 2,597.60 | 2,561.38 | 13.22 | 13.30 | -152.30 | 1,764.93 | 1,397.81 | 2,704.21 | 2,678.63 | 25.58 | 105.709 | | |
| 2,700.00 | 2,632.62 | 2,697.20 | 2,659.93 | 13.75 | 13.81 | -152.86 | 1,771.78 | 1,385.11 | 2,726.26 | 2,699.70 | 26.56 | 102.631 | | |
| 2,800.00 | 2,729.26 | 2,817.23 | 2,778.64 | 14.27 | 14.44 | -153.53 | 1,779.75 | 1,369.31 | 2,748.20 | 2,720.53 | 27.67 | 99.307 | | |
| 2,900.00 | 2,825.89 | 2,951.48 | 2,910.89 | 14.80 | 15.17 | -154.33 | 1,788.57 | 1,347.97 | 2,768.92 | 2,740.02 | 28.90 | 95.813 | | |
| 3,000.00 | 2,922.53 | 3,046.86 | 3,004.70 | 15.32 | 15.70 | -154.91 | 1,794.67 | 1,331.83 | 2,789.31 | 2,759.42 | 29.90 | 93.294 | | |
| 3,100.00 | 3,019.17 | 3,148.11 | 3,104.45 | 15.85 | 16.26 | -155.49 | 1,800.53 | 1,315.52 | 2,809.87 | 2,778.94 | 30.93 | 90.857 | | |
| 3,200.00 | 3,115.81 | 3,236.41 | 3,191.44 | 16.38 | 16.75 | -155.99 | 1,805.62 | 1,301.24 | 2,830.64 | 2,798.76 | 31.88 | 88.802 | | |
| 3,300.00 | 3,212.44 | 3,336.28 | 3,290.04 | 16.91 | 17.29 | -156.52 | 1,810.79 | 1,286.25 | 2,851.69 | 2,818.81 | 32.88 | 86.723 | | |
| 3,400.00 | 3,309.08 | 3,466.92 | 3,419.40 | 17.44 | 17.96 | -157.15 | 1,814.99 | 1,268.52 | 2,871.86 | 2,837.81 | 34.05 | 84.352 | | |
| 3,500.00 | 3,405.72 | 3,539.25 | 3,491.12 | 17.97 | 18.32 | -157.47 | 1,817.03 | 1,259.34 | 2,892.36 | 2,857.50 | 34.86 | 82.959 | | |
| 3,600.00 | 3,502.36 | 3,605.96 | 3,557.27 | 18.50 | 18.66 | -157.78 | 1,819.47 | 1,251.10 | 2,913.89 | 2,878.24 | 35.65 | 81.745 | | |
| 3,700.00 | 3,598.99 | 3,674.68 | 3,625.36 | 19.03 | 19.01 | -158.09 | 1,822.82 | 1,242.41 | 2,936.48 | 2,900.04 | 36.44 | 80.583 | | |
| 3,800.00 | 3,695.63 | 3,750.04 | 3,699.92 | 19.57 | 19.41 | -158.45 | 1,827.36 | 1,232.55 | 2,960.03 | 2,922.75 | 37.28 | 79.399 | | |
| 3,900.00 | 3,792.27 | 3,839.31 | 3,788.00 | 20.10 | 19.89 | -158.90 | 1,833.77 | 1,219.51 | 2,984.12 | 2,945.90 | 38.22 | 78.069 | | |
| 4,000.00 | 3,888.91 | 3,944.33 | 3,891.33 | 20.63 | 20.48 | -159.46 | 1,841.99 | 1,202.60 | 3,008.38 | 2,969.08 | 39.29 | 76.562 | | |
| 4,100.00 | 3,985.54 | 4,077.29 | 4,021.98 | 21.17 | 21.25 | -160.16 | 1,851.69 | 1,179.89 | 3,032.02 | 2,991.45 | 40.57 | 74.740 | | |
| 4,200.00 | 4,082.18 | 4,215.97 | 4,158.11 | 21.70 | 22.05 | -160.90 | 1,860.24 | 1,154.88 | 3,054.56 | 3,012.67 | 41.88 | 72.934 | | |
| 4,300.00 | 4,178.82 | 4,292.63 | 4,233.50 | 22.24 | 22.48 | -161.28 | 1,864.48 | 1,141.65 | 3,077.03 | 3,034.28 | 42.76 | 71.966 | | |
| 4,400.00 | 4,275.46 | 4,378.07 | 4,317.74 | 22.77 | 22.96 | -161.68 | 1,868.92 | 1,128.07 | 3,099.97 | 3,056.28 | 43.69 | 70.948 | | |
| 4,500.00 | 4,372.09 | 9,915.00 | 7,231.96 | 23.31 | 68.88 | -127.79 | -1,013.59 | 973.17 | 3,052.77 | 3,004.35 | 48.41 | 63.055 | | |
| 4,600.00 | 4,468.73 | 9,920.25 | 7,231.99 | 23.84 | 68.98 | -127.60 | -1,018.83 | 973.15 | 2,963.34 | 2,913.94 | 49.40 | 59.990 | | |
| 4,700.00 | 4,565.37 | 9,935.73 | 7,232.14 | 24.38 | 69.27 | -127.06 | -1,034.32 | 973.03 | 2,874.49 | 2,823.95 | 50.54 | 56.875 | | |
| 4,800.00 | 4,662.01 | 9,954.57 | 7,232.41 | 24.91 | 69.63 | -126.40 | -1,053.16 | 972.85 | 2,786.25 | 2,734.46 | 51.78 | 53.805 | | |
| 4,900.00 | 4,758.64 | 9,980.21 | 7,232.82 | 25.45 | 70.12 | -125.48 | -1,078.78 | 972.61 | 2,698.59 | 2,645.42 | 53.17 | 50.756 | | |
| 5,000.00 | 4,855.28 | 9,999.12 | 7,233.11 | 25.99 | 70.48 | -124.79 | -1,097.70 | 972.52 | 2,611.59 | 2,557.02 | 54.57 | 47.857 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15R-403(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 10,017.86 | 7,233.41 | 26.53 | 70.84 | -124.09 | -1,116.43 | 972.57 | 2,525.34 | 2,469.28 | 56.06 | 45.045 | | |
| 5,200.00 | 5,048.56 | 10,036.11 | 7,233.75 | 27.06 | 71.19 | -123.40 | -1,134.68 | 972.66 | 2,439.95 | 2,382.30 | 57.64 | 42.328 | | |
| 5,300.00 | 5,145.19 | 10,058.04 | 7,234.21 | 27.60 | 71.62 | -122.56 | -1,156.60 | 972.82 | 2,355.47 | 2,296.10 | 59.37 | 39.675 | | |
| 5,400.00 | 5,241.83 | 10,085.70 | 7,234.83 | 28.14 | 72.15 | -121.49 | -1,184.25 | 973.05 | 2,271.96 | 2,210.69 | 61.27 | 37.079 | | |
| 5,500.00 | 5,338.47 | 10,116.65 | 7,235.49 | 28.67 | 72.75 | -120.26 | -1,215.20 | 973.25 | 2,189.43 | 2,126.09 | 63.34 | 34.565 | | |
| 5,600.00 | 5,435.11 | 10,141.63 | 7,236.01 | 29.21 | 73.23 | -119.25 | -1,240.17 | 973.44 | 2,108.07 | 2,042.59 | 65.48 | 32.196 | | |
| 5,700.00 | 5,531.74 | 10,168.46 | 7,236.55 | 29.75 | 73.75 | -118.15 | -1,267.00 | 973.73 | 2,028.01 | 1,960.23 | 67.78 | 29.920 | | |
| 5,800.00 | 5,628.38 | 10,199.38 | 7,237.09 | 30.29 | 74.35 | -116.86 | -1,297.90 | 974.13 | 1,949.40 | 1,879.10 | 70.30 | 27.729 | | |
| 5,900.00 | 5,725.02 | 10,227.23 | 7,237.51 | 30.83 | 74.89 | -115.67 | -1,325.75 | 974.54 | 1,872.40 | 1,799.45 | 72.95 | 25.667 | | |
| 6,000.00 | 5,821.66 | 10,253.02 | 7,237.87 | 31.37 | 75.40 | -114.56 | -1,351.53 | 974.96 | 1,797.26 | 1,721.51 | 75.75 | 23.727 | | |
| 6,100.00 | 5,918.29 | 6,100.00 | 7,238.40 | 31.90 | 75.90 | -111.72 | -1,415.76 | 975.41 | 1,723.95 | 1,695.03 | 28.92 | 59.609 | | |
| 6,200.00 | 6,014.93 | 10,364.70 | 7,238.38 | 32.44 | 77.58 | -109.58 | -1,463.20 | 974.80 | 1,652.47 | 1,569.65 | 82.83 | 19.951 | | |
| 6,300.00 | 6,111.57 | 10,391.94 | 7,238.29 | 32.98 | 78.11 | -108.34 | -1,490.44 | 974.35 | 1,583.59 | 1,497.36 | 86.23 | 18.366 | | |
| 6,400.00 | 6,208.21 | 10,422.56 | 7,238.12 | 33.52 | 78.72 | -106.92 | -1,521.05 | 973.79 | 1,517.69 | 1,427.83 | 89.86 | 16.890 | | |
| 6,500.00 | 6,304.84 | 10,455.13 | 7,237.87 | 34.06 | 79.36 | -105.39 | -1,553.61 | 973.07 | 1,455.13 | 1,361.44 | 93.69 | 15.532 | | |
| 6,600.00 | 6,401.37 | 10,482.29 | 7,237.59 | 34.60 | 79.89 | -120.36 | -1,580.77 | 972.41 | 1,398.23 | 1,300.63 | 97.59 | 14.327 | | |
| 6,700.00 | 6,496.25 | 10,511.33 | 7,237.21 | 35.12 | 80.46 | -141.08 | -1,609.79 | 971.67 | 1,358.31 | 1,256.49 | 101.83 | 13.339 | | |
| 6,800.00 | 6,587.15 | 10,537.83 | 7,236.82 | 35.59 | 80.99 | -152.19 | -1,636.28 | 970.93 | 1,339.40 | 1,233.38 | 106.02 | 12.633 | | |
| 6,834.41 | 6,617.11 | 10,546.39 | 7,236.68 | 35.74 | 81.16 | -154.67 | -1,644.83 | 970.69 | 1,338.06 | 1,230.66 | 107.40 | 12.459 CC, ES | | |
| 6,900.00 | 6,671.83 | 10,561.63 | 7,236.41 | 36.03 | 81.46 | -158.25 | -1,660.07 | 970.27 | 1,342.93 | 1,233.09 | 109.84 | 12.226 | | |
| 7,000.00 | 6,748.21 | 10,583.39 | 7,236.00 | 36.41 | 81.89 | -161.76 | -1,681.81 | 969.66 | 1,368.74 | 1,255.70 | 113.05 | 12.108 SF | | |
| 7,100.00 | 6,814.41 | 10,604.70 | 7,235.56 | 36.76 | 82.31 | -163.77 | -1,703.12 | 969.06 | 1,415.08 | 1,299.50 | 115.58 | 12.244 | | |
| 7,200.00 | 6,868.79 | 10,623.05 | 7,235.15 | 37.07 | 82.67 | -164.92 | -1,721.45 | 968.51 | 1,479.02 | 1,361.61 | 117.41 | 12.597 | | |
| 7,300.00 | 6,910.01 | 10,638.11 | 7,234.78 | 37.39 | 82.97 | -165.49 | -1,736.50 | 968.05 | 1,557.04 | 1,438.38 | 118.66 | 13.122 | | |
| 7,400.00 | 6,937.07 | 10,649.60 | 7,234.48 | 37.76 | 83.20 | -165.61 | -1,747.98 | 967.69 | 1,645.45 | 1,525.99 | 119.46 | 13.774 | | |
| 7,500.00 | 6,949.29 | 10,656.10 | 7,234.30 | 38.27 | 83.33 | -165.42 | -1,754.48 | 967.49 | 1,740.73 | 1,620.85 | 119.88 | 14.520 | | |
| 7,600.00 | 6,949.75 | 10,660.17 | 7,234.19 | 39.02 | 83.41 | -164.74 | -1,758.54 | 967.36 | 1,839.28 | 1,719.17 | 120.11 | 15.314 | | |
| 7,700.00 | 6,949.37 | 10,664.03 | 7,234.08 | 40.05 | 83.49 | -163.99 | -1,762.40 | 967.24 | 1,938.11 | 1,817.80 | 120.30 | 16.111 | | |
| 7,800.00 | 6,948.99 | 10,667.89 | 7,233.97 | 41.35 | 83.57 | -163.25 | -1,766.26 | 967.12 | 2,037.04 | 1,916.56 | 120.48 | 16.908 | | |
| 7,900.00 | 6,948.61 | 10,671.75 | 7,233.86 | 42.86 | 83.64 | -162.52 | -1,770.11 | 967.00 | 2,136.07 | 2,015.42 | 120.65 | 17.705 | | |
| 8,000.00 | 6,948.23 | 10,675.62 | 7,233.75 | 44.53 | 83.72 | -161.79 | -1,773.97 | 966.88 | 2,235.18 | 2,114.36 | 120.81 | 18.501 | | |
| 8,100.00 | 6,947.85 | 10,681.18 | 7,233.58 | 46.34 | 83.83 | -160.75 | -1,779.53 | 966.70 | 2,334.35 | 2,213.34 | 121.01 | 19.290 | | |
| 8,200.00 | 6,947.47 | 10,688.01 | 7,233.37 | 48.26 | 83.97 | -159.48 | -1,786.35 | 966.48 | 2,433.59 | 2,312.35 | 121.24 | 20.073 | | |
| 8,300.00 | 6,947.09 | 10,695.25 | 7,233.14 | 50.28 | 84.11 | -158.17 | -1,793.59 | 966.24 | 2,532.87 | 2,411.40 | 121.47 | 20.852 | | |
| 8,400.00 | 6,946.72 | 10,702.95 | 7,232.88 | 52.39 | 84.26 | -156.79 | -1,801.27 | 965.97 | 2,632.20 | 2,510.49 | 121.71 | 21.626 | | |
| 8,500.00 | 6,946.34 | 10,711.14 | 7,232.60 | 54.56 | 84.43 | -155.35 | -1,809.45 | 965.67 | 2,731.56 | 2,609.60 | 121.97 | 22.396 | | |
| 8,600.00 | 6,945.96 | 10,716.84 | 7,232.40 | 56.80 | 84.54 | -154.36 | -1,815.15 | 965.46 | 2,830.96 | 2,708.81 | 122.15 | 23.175 | | |
| 8,700.00 | 6,945.58 | 10,723.32 | 7,232.17 | 59.10 | 84.67 | -153.26 | -1,821.62 | 965.21 | 2,930.39 | 2,808.03 | 122.36 | 23.949 | | |
| 8,800.00 | 6,945.20 | 10,730.02 | 7,231.94 | 61.44 | 84.80 | -152.14 | -1,828.31 | 964.96 | 3,029.85 | 2,907.28 | 122.57 | 24.719 | | |
| 8,900.00 | 6,944.82 | 10,736.96 | 7,231.70 | 63.83 | 84.94 | -151.01 | -1,835.24 | 964.68 | 3,129.33 | 3,006.54 | 122.79 | 25.485 | | |
| 9,000.00 | 6,944.44 | 10,744.14 | 7,231.44 | 66.25 | 85.08 | -149.86 | -1,842.41 | 964.39 | 3,228.83 | 3,105.82 | 123.01 | 26.248 | | |
| 9,100.00 | 6,944.06 | 9,100.00 | 7,231.54 | 68.71 | 85.28 | -150.28 | -1,839.74 | 964.51 | 3,328.37 | 3,238.01 | 90.36 | 36.835 | | |
| 9,200.00 | 6,943.68 | 10,740.00 | 7,231.59 | 71.20 | 85.00 | -150.52 | -1,838.28 | 964.56 | 3,427.93 | 3,304.95 | 122.98 | 27.874 | | |
| 9,300.00 | 6,943.30 | 10,740.00 | 7,231.59 | 73.72 | 85.00 | -150.52 | -1,838.28 | 964.56 | 3,527.52 | 3,404.50 | 123.02 | 28.675 | | |
| 9,400.00 | 6,942.92 | 10,740.00 | 7,231.59 | 76.26 | 85.00 | -150.52 | -1,838.28 | 964.56 | 3,627.13 | 3,504.08 | 123.05 | 29.477 | | |
| 9,500.00 | 6,942.54 | 10,740.00 | 7,231.59 | 78.82 | 85.00 | -150.52 | -1,838.28 | 964.56 | 3,726.76 | 3,603.67 | 123.09 | 30.278 | | |
| 9,600.00 | 6,942.16 | 10,740.00 | 7,231.59 | 81.40 | 85.00 | -150.52 | -1,838.28 | 964.56 | 3,826.41 | 3,703.29 | 123.12 | 31.078 | | |
| 9,700.00 | 6,941.78 | 10,740.00 | 7,231.59 | 84.00 | 85.00 | -150.52 | -1,838.28 | 964.56 | 3,926.08 | 3,802.92 | 123.16 | 31.879 | | |
| 9,800.00 | 6,941.40 | 10,751.14 | 7,231.23 | 86.62 | 85.22 | -148.76 | -1,849.41 | 964.15 | 4,025.71 | 3,902.22 | 123.49 | 32.601 | | |
| 9,900.00 | 6,941.03 | 10,752.23 | 7,231.20 | 89.25 | 85.24 | -148.59 | -1,850.50 | 964.12 | 4,125.39 | 4,001.84 | 123.55 | 33.390 | | |
| 10,000.00 | 6,940.65 | 10,753.29 | 7,231.17 | 91.90 | 85.27 | -148.43 | -1,851.55 | 964.08 | 4,225.10 | 4,101.48 | 123.61 | 34.180 | | |
| 10,100.00 | 6,940.27 | 10,754.31 | 7,231.14 | 94.56 | 85.29 | -148.27 | -1,852.58 | 964.05 | 4,324.81 | 4,201.13 | 123.68 | 34.968 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS RESOURCES 15R-403(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 146-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,200.00 | 6,939.89 | 10,755.31 | 7,231.11 | 97.23 | 85.31 | -148.12 | -1,853.56 | 964.02 | 4,424.54 | 4,300.80 | 123.74 | 35.756 | | |
| 10,300.00 | 6,939.51 | 10,756.26 | 7,231.09 | 99.91 | 85.32 | -147.97 | -1,854.52 | 963.99 | 4,524.28 | 4,400.47 | 123.80 | 36.544 | | |
| 10,400.00 | 6,939.13 | 10,757.20 | 7,231.06 | 102.60 | 85.34 | -147.83 | -1,855.45 | 963.96 | 4,624.02 | 4,500.16 | 123.87 | 37.331 | | |
| 10,500.00 | 6,938.75 | 10,758.10 | 7,231.04 | 105.30 | 85.36 | -147.69 | -1,856.35 | 963.93 | 4,723.78 | 4,599.85 | 123.93 | 38.117 | | |
| 10,600.00 | 6,938.37 | 10,758.97 | 7,231.02 | 108.00 | 85.38 | -147.56 | -1,857.23 | 963.91 | 4,823.55 | 4,699.56 | 123.99 | 38.902 | | |
| 10,700.00 | 6,937.99 | 10,759.82 | 7,230.99 | 110.72 | 85.40 | -147.43 | -1,858.08 | 963.89 | 4,923.33 | 4,799.28 | 124.05 | 39.687 | | |
| 10,800.00 | 6,937.61 | 10,772.00 | 7,230.72 | 113.44 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,023.17 | 4,898.75 | 124.42 | 40.372 | | |
| 10,900.00 | 6,937.23 | 10,772.00 | 7,230.72 | 116.17 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,122.95 | 4,998.49 | 124.46 | 41.161 | | |
| 11,000.00 | 6,936.85 | 10,772.00 | 7,230.72 | 118.90 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,222.75 | 5,098.24 | 124.50 | 41.949 | | |
| 11,100.00 | 6,936.47 | 10,772.00 | 7,230.72 | 121.64 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,322.55 | 5,198.00 | 124.54 | 42.736 | | |
| 11,200.00 | 6,936.09 | 10,772.00 | 7,230.72 | 124.39 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,422.36 | 5,297.77 | 124.59 | 43.523 | | |
| 11,300.00 | 6,935.71 | 10,772.00 | 7,230.72 | 127.14 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,522.17 | 5,397.54 | 124.63 | 44.308 | | |
| 11,400.00 | 6,935.34 | 10,772.00 | 7,230.72 | 129.90 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,621.99 | 5,497.32 | 124.67 | 45.094 | | |
| 11,500.00 | 6,934.96 | 10,772.00 | 7,230.72 | 132.66 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,721.82 | 5,597.10 | 124.72 | 45.878 | | |
| 11,600.00 | 6,934.58 | 10,772.00 | 7,230.72 | 135.42 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,821.66 | 5,696.89 | 124.76 | 46.662 | | |
| 11,700.00 | 6,934.20 | 10,772.00 | 7,230.72 | 138.19 | 85.64 | -145.64 | -1,870.25 | 963.59 | 5,921.50 | 5,796.69 | 124.81 | 47.445 | | |
| 11,800.00 | 6,933.82 | 10,772.00 | 7,230.72 | 140.96 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,021.34 | 5,896.49 | 124.86 | 48.227 | | |
| 11,900.00 | 6,933.44 | 10,772.00 | 7,230.72 | 143.74 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,121.19 | 5,996.29 | 124.90 | 49.008 | | |
| 12,000.00 | 6,933.06 | 10,772.00 | 7,230.72 | 146.51 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,221.05 | 6,096.10 | 124.95 | 49.788 | | |
| 12,100.00 | 6,932.68 | 10,772.00 | 7,230.72 | 149.30 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,320.91 | 6,195.91 | 125.00 | 50.568 | | |
| 12,200.00 | 6,932.30 | 10,772.00 | 7,230.72 | 152.08 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,420.77 | 6,295.72 | 125.05 | 51.347 | | |
| 12,300.00 | 6,931.92 | 10,772.00 | 7,230.72 | 154.87 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,520.64 | 6,395.54 | 125.10 | 52.125 | | |
| 12,400.00 | 6,931.54 | 10,772.00 | 7,230.72 | 157.66 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,620.51 | 6,495.36 | 125.15 | 52.902 | | |
| 12,500.00 | 6,931.16 | 10,772.00 | 7,230.72 | 160.45 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,720.39 | 6,595.19 | 125.20 | 53.678 | | |
| 12,600.00 | 6,930.78 | 10,772.00 | 7,230.72 | 163.24 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,820.27 | 6,695.02 | 125.25 | 54.453 | | |
| 12,700.00 | 6,930.40 | 10,772.00 | 7,230.72 | 166.04 | 85.64 | -145.64 | -1,870.25 | 963.59 | 6,920.15 | 6,794.85 | 125.30 | 55.227 | | |
| 12,800.00 | 6,930.03 | 10,772.00 | 7,230.72 | 168.84 | 85.64 | -145.64 | -1,870.25 | 963.59 | 7,020.04 | 6,894.68 | 125.36 | 56.000 | | |
| 12,900.00 | 6,929.65 | 10,772.00 | 7,230.72 | 171.64 | 85.64 | -145.64 | -1,870.25 | 963.59 | 7,119.93 | 6,994.52 | 125.41 | 56.772 | | |
| 13,000.00 | 6,929.27 | 10,772.00 | 7,230.72 | 174.44 | 85.64 | -145.64 | -1,870.25 | 963.59 | 7,219.82 | 7,094.35 | 125.47 | 57.544 | | |
| 13,100.00 | 6,928.89 | 10,772.00 | 7,230.72 | 177.24 | 85.64 | -145.64 | -1,870.25 | 963.59 | 7,319.72 | 7,194.19 | 125.52 | 58.314 | | |
| 13,200.00 | 6,928.51 | 10,772.00 | 7,230.72 | 180.05 | 85.64 | -145.64 | -1,870.25 | 963.59 | 7,419.61 | 7,294.04 | 125.58 | 59.083 | | |
| 13,300.00 | 6,928.13 | 10,772.00 | 7,230.72 | 182.86 | 85.64 | -145.64 | -1,870.25 | 963.59 | 7,519.52 | 7,393.88 | 125.64 | 59.852 | | |
| 13,400.00 | 6,927.75 | 10,772.00 | 7,230.72 | 185.67 | 85.64 | -145.64 | -1,870.25 | 963.59 | 7,619.42 | 7,493.72 | 125.69 | 60.619 | | |
| 13,500.00 | 6,927.37 | 10,781.36 | 7,230.55 | 188.48 | 85.83 | -144.31 | -1,879.61 | 963.40 | 7,719.31 | 7,593.30 | 126.01 | 61.259 | | |
| 13,600.00 | 6,926.99 | 10,782.26 | 7,230.54 | 191.29 | 85.84 | -144.18 | -1,880.51 | 963.38 | 7,819.22 | 7,693.12 | 126.09 | 62.011 | | |
| 13,700.00 | 6,926.61 | 10,783.15 | 7,230.52 | 194.10 | 85.86 | -144.06 | -1,881.40 | 963.37 | 7,919.12 | 7,792.94 | 126.18 | 62.761 | | |
| 13,800.00 | 6,926.23 | 10,784.03 | 7,230.50 | 196.92 | 85.88 | -143.94 | -1,882.27 | 963.35 | 8,019.03 | 7,892.77 | 126.26 | 63.510 | | |
| 13,900.00 | 6,925.85 | 10,784.89 | 7,230.49 | 199.73 | 85.90 | -143.82 | -1,883.13 | 963.34 | 8,118.94 | 7,992.59 | 126.35 | 64.258 | | |
| 14,000.00 | 6,925.47 | 10,785.74 | 7,230.48 | 202.55 | 85.91 | -143.70 | -1,883.98 | 963.32 | 8,218.86 | 8,092.42 | 126.44 | 65.004 | | |
| 14,100.00 | 6,925.09 | 10,786.57 | 7,230.46 | 205.37 | 85.93 | -143.59 | -1,884.82 | 963.31 | 8,318.77 | 8,192.25 | 126.52 | 65.750 | | |
| 14,200.00 | 6,924.71 | 10,787.40 | 7,230.45 | 208.19 | 85.95 | -143.47 | -1,885.64 | 963.29 | 8,418.69 | 8,292.08 | 126.61 | 66.494 | | |
| 14,300.00 | 6,924.34 | 10,788.21 | 7,230.43 | 211.01 | 85.96 | -143.36 | -1,886.45 | 963.28 | 8,518.61 | 8,391.91 | 126.70 | 67.237 | | |
| 14,400.00 | 6,923.96 | 10,789.00 | 7,230.42 | 213.83 | 85.98 | -143.25 | -1,887.25 | 963.26 | 8,618.53 | 8,491.75 | 126.78 | 67.979 | | |
| 14,500.00 | 6,923.58 | 10,789.79 | 7,230.41 | 216.65 | 85.99 | -143.15 | -1,888.03 | 963.25 | 8,718.45 | 8,591.58 | 126.87 | 68.719 | | |
| 14,600.00 | 6,923.20 | 10,790.57 | 7,230.40 | 219.48 | 86.01 | -143.04 | -1,888.81 | 963.24 | 8,818.38 | 8,691.42 | 126.96 | 69.459 | | |
| 14,700.00 | 6,922.82 | 10,791.33 | 7,230.38 | 222.30 | 86.03 | -142.94 | -1,889.57 | 963.22 | 8,918.30 | 8,791.25 | 127.05 | 70.197 | | |
| 14,800.00 | 6,922.44 | 10,792.08 | 7,230.37 | 225.13 | 86.04 | -142.84 | -1,890.32 | 963.21 | 9,018.23 | 8,891.09 | 127.14 | 70.934 | | |
| 14,900.00 | 6,922.06 | 10,792.82 | 7,230.36 | 227.95 | 86.06 | -142.74 | -1,891.07 | 963.20 | 9,118.16 | 8,990.93 | 127.23 | 71.669 | | |
| 14,915.55 | 6,922.00 | 10,792.94 | 7,230.36 | 228.39 | 86.06 | -142.72 | -1,891.18 | 963.20 | 9,133.69 | 9,006.46 | 127.24 | 71.784 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 12N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | 0.40 | 40.08 | 0.28 | 40.08 | | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 3.28 | 3.28 | 0.40 | 40.08 | 0.28 | 40.08 | 33.51 | 6.57 | 6.101 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 3.34 | 3.34 | 0.40 | 40.08 | 0.28 | 40.08 | 33.40 | 6.67 | 6.005 | | |
| 300.00 | 299.98 | 301.41 | 301.39 | 3.44 | 3.44 | 174.93 | 38.30 | 0.05 | 40.06 | 33.17 | 6.89 | 5.813 | | |
| 400.00 | 399.84 | 402.81 | 402.64 | 3.59 | 3.60 | 174.65 | 32.96 | -0.64 | 40.01 | 32.79 | 7.22 | 5.541 | | |
| 500.00 | 499.45 | 504.22 | 503.64 | 3.79 | 3.80 | 174.20 | 24.07 | -1.79 | 39.92 | 32.27 | 7.65 | 5.216 | | |
| 600.00 | 598.70 | 605.61 | 604.26 | 4.03 | 4.05 | 173.56 | 11.65 | -3.39 | 39.80 | 31.63 | 8.17 | 4.870 | | |
| 700.00 | 697.47 | 707.00 | 704.36 | 4.31 | 4.34 | 172.73 | -4.30 | -5.45 | 39.66 | 30.89 | 8.77 | 4.524 | | |
| 723.16 | 720.26 | 730.48 | 727.45 | 4.39 | 4.41 | 172.51 | -8.49 | -5.99 | 39.62 | 30.71 | 8.91 | 4.446 CC | | |
| 800.00 | 795.62 | 807.27 | 802.95 | 4.64 | 4.66 | 172.00 | -22.44 | -7.79 | 40.60 | 31.23 | 9.37 | 4.331 | | |
| 900.00 | 893.06 | 907.17 | 901.16 | 5.00 | 5.01 | 171.96 | -40.58 | -10.13 | 44.93 | 34.90 | 10.03 | 4.480 | | |
| 1,000.00 | 989.78 | 1,006.90 | 999.21 | 5.39 | 5.39 | 172.38 | -58.69 | -12.46 | 52.19 | 41.46 | 10.73 | 4.863 | | |
| 1,100.00 | 1,086.42 | 1,106.61 | 1,097.23 | 5.81 | 5.78 | 172.75 | -76.80 | -14.80 | 59.81 | 48.34 | 11.47 | 5.214 | | |
| 1,200.00 | 1,183.06 | 1,206.32 | 1,195.25 | 6.25 | 6.19 | 173.03 | -94.90 | -17.13 | 67.42 | 55.18 | 12.24 | 5.509 | | |
| 1,300.00 | 1,279.69 | 1,306.03 | 1,293.28 | 6.71 | 6.61 | 173.26 | -113.01 | -19.47 | 75.04 | 62.01 | 13.03 | 5.758 | | |
| 1,400.00 | 1,376.33 | 1,405.74 | 1,391.30 | 7.17 | 7.03 | 173.44 | -131.11 | -21.80 | 82.66 | 68.81 | 13.85 | 5.970 | | |
| 1,500.00 | 1,472.97 | 1,505.45 | 1,489.32 | 7.65 | 7.47 | 173.60 | -149.22 | -24.14 | 90.27 | 75.60 | 14.68 | 6.151 | | |
| 1,600.00 | 1,569.61 | 1,605.16 | 1,587.35 | 8.13 | 7.91 | 173.73 | -167.33 | -26.47 | 97.89 | 82.37 | 15.52 | 6.307 | | |
| 1,700.00 | 1,666.24 | 1,704.87 | 1,685.37 | 8.62 | 8.36 | 173.84 | -185.43 | -28.81 | 105.51 | 89.13 | 16.38 | 6.441 | | |
| 1,800.00 | 1,762.88 | 1,804.58 | 1,783.39 | 9.12 | 8.82 | 173.93 | -203.54 | -31.15 | 113.13 | 95.88 | 17.25 | 6.559 | | |
| 1,900.00 | 1,859.52 | 1,904.29 | 1,881.42 | 9.62 | 9.28 | 174.02 | -221.64 | -33.48 | 120.75 | 102.63 | 18.13 | 6.662 | | |
| 2,000.00 | 1,956.16 | 2,004.00 | 1,979.44 | 10.13 | 9.74 | 174.09 | -239.75 | -35.82 | 128.37 | 109.36 | 19.01 | 6.753 | | |
| 2,100.00 | 2,052.79 | 2,103.71 | 2,077.47 | 10.64 | 10.20 | 174.16 | -257.86 | -38.15 | 135.99 | 116.09 | 19.90 | 6.833 | | |
| 2,200.00 | 2,149.43 | 2,203.41 | 2,175.49 | 11.15 | 10.67 | 174.22 | -275.96 | -40.49 | 143.61 | 122.81 | 20.80 | 6.904 | | |
| 2,300.00 | 2,246.07 | 2,303.12 | 2,273.51 | 11.66 | 11.14 | 174.27 | -294.07 | -42.82 | 151.23 | 129.53 | 21.70 | 6.968 | | |
| 2,400.00 | 2,342.71 | 2,402.83 | 2,371.54 | 12.18 | 11.61 | 174.32 | -312.17 | -45.16 | 158.85 | 136.24 | 22.61 | 7.026 | | |
| 2,500.00 | 2,439.34 | 2,502.54 | 2,469.56 | 12.70 | 12.08 | 174.36 | -330.28 | -47.49 | 166.48 | 142.95 | 23.52 | 7.078 | | |
| 2,600.00 | 2,535.98 | 2,602.25 | 2,567.58 | 13.22 | 12.56 | 174.40 | -348.39 | -49.83 | 174.10 | 149.66 | 24.44 | 7.125 | | |
| 2,700.00 | 2,632.62 | 2,701.96 | 2,665.61 | 13.75 | 13.03 | 174.44 | -366.49 | -52.17 | 181.72 | 156.36 | 25.35 | 7.167 | | |
| 2,800.00 | 2,729.26 | 2,801.67 | 2,763.63 | 14.27 | 13.51 | 174.47 | -384.60 | -54.50 | 189.34 | 163.06 | 26.27 | 7.206 | | |
| 2,900.00 | 2,825.89 | 2,901.38 | 2,861.65 | 14.80 | 13.99 | 174.50 | -402.70 | -56.84 | 196.96 | 169.76 | 27.20 | 7.242 | | |
| 3,000.00 | 2,922.53 | 3,001.09 | 2,959.68 | 15.32 | 14.47 | 174.53 | -420.81 | -59.17 | 204.58 | 176.46 | 28.12 | 7.275 | | |
| 3,100.00 | 3,019.17 | 3,100.80 | 3,057.70 | 15.85 | 14.95 | 174.56 | -438.92 | -61.51 | 212.20 | 183.15 | 29.05 | 7.305 | | |
| 3,200.00 | 3,115.81 | 3,200.51 | 3,155.72 | 16.38 | 15.43 | 174.58 | -457.02 | -63.84 | 219.82 | 189.84 | 29.98 | 7.333 | | |
| 3,300.00 | 3,212.44 | 3,300.21 | 3,253.75 | 16.91 | 15.92 | 174.60 | -475.13 | -66.18 | 227.44 | 196.53 | 30.91 | 7.358 | | |
| 3,400.00 | 3,309.08 | 3,399.92 | 3,351.77 | 17.44 | 16.40 | 174.63 | -493.24 | -68.51 | 235.07 | 203.22 | 31.84 | 7.382 | | |
| 3,500.00 | 3,405.72 | 3,500.37 | 3,449.80 | 17.97 | 16.89 | 174.65 | -511.34 | -70.85 | 242.69 | 209.91 | 32.78 | 7.403 | | |
| 3,600.00 | 3,502.36 | 3,600.66 | 3,547.82 | 18.50 | 17.37 | 174.66 | -529.45 | -73.18 | 250.31 | 216.59 | 33.72 | 7.424 | | |
| 3,700.00 | 3,598.99 | 3,700.95 | 3,645.84 | 19.03 | 17.86 | 174.68 | -547.55 | -75.52 | 257.93 | 223.27 | 34.66 | 7.442 | | |
| 3,800.00 | 3,695.63 | 3,801.24 | 3,743.87 | 19.57 | 18.35 | 174.70 | -565.66 | -77.86 | 265.55 | 229.95 | 35.60 | 7.460 | | |
| 3,900.00 | 3,792.27 | 3,901.53 | 3,841.89 | 20.10 | 18.84 | 174.71 | -583.77 | -80.19 | 273.17 | 236.63 | 36.54 | 7.476 | | |
| 4,000.00 | 3,888.91 | 4,001.82 | 3,939.91 | 20.63 | 19.33 | 174.73 | -601.87 | -82.53 | 280.79 | 243.31 | 37.48 | 7.492 | | |
| 4,100.00 | 3,985.54 | 4,102.11 | 4,037.94 | 21.17 | 19.82 | 174.74 | -619.98 | -84.86 | 288.42 | 249.99 | 38.42 | 7.506 | | |
| 4,200.00 | 4,082.18 | 4,197.60 | 4,135.96 | 21.70 | 20.28 | 174.76 | -638.08 | -87.20 | 296.04 | 256.69 | 39.35 | 7.524 | | |
| 4,300.00 | 4,178.82 | 4,302.69 | 4,233.98 | 22.24 | 20.80 | 174.77 | -656.19 | -89.53 | 303.66 | 263.35 | 40.31 | 7.533 | | |
| 4,400.00 | 4,275.46 | 4,397.01 | 4,332.01 | 22.77 | 21.26 | 174.78 | -674.30 | -91.87 | 311.28 | 270.05 | 41.23 | 7.550 | | |
| 4,500.00 | 4,372.09 | 4,503.28 | 4,430.03 | 23.31 | 21.78 | 174.79 | -692.40 | -94.20 | 318.90 | 276.70 | 42.20 | 7.556 | | |
| 4,600.00 | 4,468.73 | 4,603.57 | 4,528.05 | 23.84 | 22.27 | 174.80 | -710.51 | -96.54 | 326.52 | 283.37 | 43.15 | 7.567 | | |
| 4,700.00 | 4,565.37 | 4,703.86 | 4,626.08 | 24.38 | 22.76 | 174.82 | -728.61 | -98.88 | 334.15 | 290.05 | 44.10 | 7.577 | | |
| 4,800.00 | 4,662.01 | 4,795.85 | 4,724.10 | 24.91 | 23.21 | 174.83 | -746.72 | -101.21 | 341.77 | 296.76 | 45.01 | 7.593 | | |
| 4,900.00 | 4,758.64 | 4,895.56 | 4,822.13 | 25.45 | 23.70 | 174.83 | -764.83 | -103.55 | 349.39 | 303.44 | 45.95 | 7.603 | | |
| 5,000.00 | 4,855.28 | 5,004.73 | 4,920.15 | 25.99 | 24.24 | 174.84 | -782.93 | -105.88 | 357.01 | 310.07 | 46.94 | 7.605 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 12N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 5,105.02 | 5,018.17 | 26.53 | 24.73 | 174.85 | -801.04 | -108.22 | 364.63 | 316.74 | 47.89 | 7.614 | | |
| 5,200.00 | 5,048.56 | 5,205.31 | 5,116.20 | 27.06 | 25.22 | 174.86 | -819.14 | -110.55 | 372.25 | 323.41 | 48.84 | 7.622 | | |
| 5,300.00 | 5,145.19 | 5,305.60 | 5,214.22 | 27.60 | 25.71 | 174.87 | -837.25 | -112.89 | 379.88 | 330.08 | 49.79 | 7.629 | | |
| 5,400.00 | 5,241.83 | 5,405.89 | 5,312.24 | 28.14 | 26.21 | 174.88 | -855.36 | -115.22 | 387.50 | 336.75 | 50.74 | 7.636 | | |
| 5,500.00 | 5,338.47 | 5,493.82 | 5,410.27 | 28.67 | 26.64 | 174.88 | -873.46 | -117.56 | 395.12 | 343.48 | 51.64 | 7.652 | | |
| 5,600.00 | 5,435.11 | 5,606.48 | 5,508.29 | 29.21 | 27.19 | 174.89 | -891.57 | -119.89 | 402.74 | 350.10 | 52.64 | 7.650 | | |
| 5,700.00 | 5,531.74 | 5,706.77 | 5,606.31 | 29.75 | 27.69 | 174.90 | -909.68 | -122.23 | 410.36 | 356.77 | 53.60 | 7.657 | | |
| 5,800.00 | 5,628.38 | 5,807.06 | 5,704.34 | 30.29 | 28.18 | 174.91 | -927.78 | -124.57 | 417.98 | 363.44 | 54.55 | 7.663 | | |
| 5,900.00 | 5,725.02 | 5,907.35 | 5,802.36 | 30.83 | 28.67 | 174.91 | -945.89 | -126.90 | 425.61 | 370.11 | 55.50 | 7.669 | | |
| 6,000.00 | 5,821.66 | 6,007.64 | 5,900.39 | 31.37 | 29.17 | 174.92 | -963.99 | -129.24 | 433.23 | 376.78 | 56.45 | 7.674 | | |
| 6,100.00 | 5,918.29 | 6,107.93 | 5,998.41 | 31.90 | 29.66 | 174.92 | -982.10 | -131.57 | 440.85 | 383.44 | 57.41 | 7.680 | | |
| 6,200.00 | 6,014.93 | 6,208.22 | 6,096.43 | 32.44 | 30.15 | 174.93 | -1,000.21 | -133.91 | 448.47 | 390.11 | 58.36 | 7.685 | | |
| 6,300.00 | 6,111.57 | 6,308.51 | 6,194.46 | 32.98 | 30.65 | 174.94 | -1,018.31 | -136.24 | 456.09 | 396.78 | 59.31 | 7.690 | | |
| 6,400.00 | 6,208.21 | 6,391.20 | 6,292.48 | 33.52 | 31.06 | 174.94 | -1,036.42 | -138.58 | 463.71 | 403.53 | 60.18 | 7.705 | | |
| 6,500.00 | 6,304.84 | 6,509.09 | 6,390.50 | 34.06 | 31.64 | 174.95 | -1,054.52 | -140.91 | 471.34 | 410.12 | 61.22 | 7.699 | | |
| 6,600.00 | 6,401.37 | 6,590.55 | 6,488.47 | 34.60 | 32.04 | 158.15 | -1,072.62 | -143.25 | 478.98 | 416.90 | 62.08 | 7.715 | | |
| 6,700.00 | 6,496.25 | 6,691.29 | 6,587.35 | 35.12 | 32.53 | 136.57 | -1,090.93 | -148.24 | 486.84 | 423.83 | 63.01 | 7.726 | | |
| 6,800.00 | 6,587.15 | 6,795.41 | 6,687.61 | 35.59 | 33.03 | 125.21 | -1,109.75 | -168.53 | 494.70 | 430.75 | 63.95 | 7.736 | | |
| 6,900.00 | 6,671.83 | 6,902.25 | 6,785.65 | 36.03 | 33.50 | 119.13 | -1,128.45 | -206.31 | 502.24 | 437.39 | 64.85 | 7.745 | | |
| 7,000.00 | 6,748.21 | 7,011.82 | 6,878.23 | 36.41 | 33.94 | 115.71 | -1,146.44 | -261.81 | 509.19 | 443.47 | 65.72 | 7.748 | | |
| 7,100.00 | 6,814.41 | 7,123.97 | 6,961.83 | 36.76 | 34.34 | 113.71 | -1,163.06 | -334.48 | 515.25 | 448.63 | 66.62 | 7.734 | | |
| 7,200.00 | 6,868.79 | 7,238.44 | 7,032.84 | 37.07 | 34.73 | 112.52 | -1,177.62 | -422.87 | 520.14 | 452.48 | 67.66 | 7.688 | | |
| 7,300.00 | 6,910.01 | 7,354.77 | 7,087.85 | 37.39 | 35.14 | 111.81 | -1,189.46 | -524.50 | 523.62 | 454.64 | 68.99 | 7.590 | | |
| 7,400.00 | 6,937.07 | 7,472.39 | 7,124.04 | 37.76 | 35.74 | 111.41 | -1,197.99 | -635.91 | 525.51 | 454.74 | 70.76 | 7.426 | | |
| 7,500.00 | 6,949.29 | 7,590.60 | 7,139.49 | 38.27 | 36.68 | 111.22 | -1,202.79 | -752.84 | 525.69 | 452.66 | 73.03 | 7.198 | | |
| 7,600.00 | 6,949.75 | 7,704.87 | 7,139.59 | 39.02 | 37.92 | 111.21 | -1,204.56 | -857.34 | 524.74 | 449.14 | 75.59 | 6.942 | | |
| 7,700.00 | 6,949.37 | 7,804.88 | 7,139.05 | 40.05 | 39.24 | 111.23 | -1,206.13 | -957.32 | 523.77 | 445.51 | 78.26 | 6.693 | | |
| 7,800.00 | 6,948.99 | 7,904.88 | 7,138.51 | 41.35 | 40.74 | 111.26 | -1,207.70 | -1,057.30 | 522.81 | 441.62 | 81.19 | 6.439 | | |
| 7,900.00 | 6,948.61 | 8,004.89 | 7,137.96 | 42.86 | 42.40 | 111.28 | -1,209.27 | -1,157.28 | 521.84 | 437.49 | 84.36 | 6.186 | | |
| 8,000.00 | 6,948.23 | 8,104.89 | 7,137.42 | 44.53 | 44.19 | 111.30 | -1,210.84 | -1,257.26 | 520.88 | 433.14 | 87.74 | 5.937 | | |
| 8,100.00 | 6,947.85 | 8,204.90 | 7,136.88 | 46.34 | 46.08 | 111.32 | -1,212.41 | -1,357.25 | 519.91 | 428.60 | 91.31 | 5.694 | | |
| 8,200.00 | 6,947.47 | 8,304.90 | 7,136.34 | 48.26 | 48.08 | 111.35 | -1,213.98 | -1,457.23 | 518.95 | 423.90 | 95.05 | 5.460 | | |
| 8,300.00 | 6,947.09 | 8,404.91 | 7,135.80 | 50.28 | 50.16 | 111.37 | -1,215.55 | -1,557.21 | 517.99 | 419.05 | 98.93 | 5.236 | | |
| 8,400.00 | 6,946.72 | 8,504.91 | 7,135.25 | 52.39 | 52.32 | 111.39 | -1,217.12 | -1,657.19 | 517.02 | 414.07 | 102.95 | 5.022 | | |
| 8,500.00 | 6,946.34 | 8,604.92 | 7,134.71 | 54.56 | 54.54 | 111.41 | -1,218.69 | -1,757.17 | 516.06 | 408.98 | 107.08 | 4.819 | | |
| 8,600.00 | 6,945.96 | 8,704.92 | 7,134.17 | 56.80 | 56.82 | 111.44 | -1,220.26 | -1,857.15 | 515.09 | 403.78 | 111.32 | 4.627 | | |
| 8,700.00 | 6,945.58 | 8,795.07 | 7,133.63 | 59.10 | 58.92 | 111.46 | -1,221.83 | -1,957.13 | 514.13 | 398.70 | 115.43 | 4.454 | | |
| 8,800.00 | 6,945.20 | 8,904.93 | 7,133.09 | 61.44 | 61.52 | 111.48 | -1,223.40 | -2,057.12 | 513.17 | 393.11 | 120.05 | 4.274 | | |
| 8,900.00 | 6,944.82 | 9,004.94 | 7,132.54 | 63.83 | 63.94 | 111.50 | -1,224.97 | -2,157.10 | 512.20 | 387.67 | 124.54 | 4.113 | | |
| 9,000.00 | 6,944.44 | 9,104.94 | 7,132.00 | 66.25 | 66.39 | 111.53 | -1,226.54 | -2,257.08 | 511.24 | 382.16 | 129.08 | 3.961 | | |
| 9,100.00 | 6,944.06 | 9,204.95 | 7,131.46 | 68.71 | 68.87 | 111.55 | -1,228.11 | -2,357.06 | 510.28 | 376.59 | 133.68 | 3.817 | | |
| 9,200.00 | 6,943.68 | 9,295.05 | 7,130.92 | 71.20 | 71.13 | 111.57 | -1,229.68 | -2,457.04 | 509.31 | 371.21 | 138.11 | 3.688 | | |
| 9,300.00 | 6,943.30 | 9,404.96 | 7,130.38 | 73.72 | 73.91 | 111.60 | -1,231.25 | -2,557.02 | 508.35 | 365.31 | 143.04 | 3.554 | | |
| 9,400.00 | 6,942.92 | 9,495.04 | 7,129.83 | 76.26 | 76.22 | 111.62 | -1,232.82 | -2,657.00 | 507.39 | 359.84 | 147.55 | 3.439 | | |
| 9,500.00 | 6,942.54 | 9,604.97 | 7,129.29 | 78.82 | 79.05 | 111.64 | -1,234.39 | -2,756.98 | 506.42 | 353.86 | 152.57 | 3.319 | | |
| 9,600.00 | 6,942.16 | 9,704.97 | 7,128.75 | 81.40 | 81.65 | 111.67 | -1,235.96 | -2,856.97 | 505.46 | 348.08 | 157.38 | 3.212 | | |
| 9,700.00 | 6,941.78 | 9,804.98 | 7,128.21 | 84.00 | 84.26 | 111.69 | -1,237.53 | -2,956.95 | 504.50 | 342.27 | 162.23 | 3.110 | | |
| 9,800.00 | 6,941.40 | 9,904.98 | 7,127.67 | 86.62 | 86.89 | 111.71 | -1,239.10 | -3,056.93 | 503.54 | 336.43 | 167.11 | 3.013 | | |
| 9,900.00 | 6,941.03 | 10,004.99 | 7,127.12 | 89.25 | 89.53 | 111.74 | -1,240.67 | -3,156.91 | 502.57 | 330.57 | 172.01 | 2.922 | | |
| 10,000.00 | 6,940.65 | 10,104.99 | 7,126.58 | 91.90 | 92.18 | 111.76 | -1,242.24 | -3,256.89 | 501.61 | 324.68 | 176.93 | 2.835 | | |
| 10,100.00 | 6,940.27 | 10,205.00 | 7,126.04 | 94.56 | 94.85 | 111.78 | -1,243.81 | -3,356.87 | 500.65 | 318.77 | 181.88 | 2.753 | | |
| 10,200.00 | 6,939.89 | 10,305.00 | 7,125.50 | 97.23 | 97.53 | 111.81 | -1,245.38 | -3,456.85 | 499.69 | 312.84 | 186.84 | 2.674 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 12N-16C-M - OH - PLAN #1 | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-----------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,300.00 | 6,939.51 | 10,405.01 | 7,124.96 | 99.91 | 100.22 | 111.83 | -1,246.95 | -3,556.84 | 498.72 | 306.90 | 191.83 | 2.600 | |
| 10,400.00 | 6,939.13 | 10,494.99 | 7,124.41 | 102.60 | 102.64 | 111.86 | -1,248.52 | -3,656.82 | 497.76 | 301.19 | 196.57 | 2.532 | |
| 10,500.00 | 6,938.75 | 10,605.02 | 7,123.87 | 105.30 | 105.62 | 111.88 | -1,250.09 | -3,756.80 | 496.80 | 294.96 | 201.84 | 2.461 | |
| 10,600.00 | 6,938.37 | 10,705.02 | 7,123.33 | 108.00 | 108.33 | 111.91 | -1,251.66 | -3,856.78 | 495.84 | 288.97 | 206.87 | 2.397 | |
| 10,700.00 | 6,937.99 | 10,794.98 | 7,122.79 | 110.72 | 110.78 | 111.93 | -1,253.23 | -3,956.76 | 494.88 | 283.22 | 211.65 | 2.338 | |
| 10,800.00 | 6,937.61 | 10,905.03 | 7,122.25 | 113.44 | 113.78 | 111.95 | -1,254.79 | -4,056.74 | 493.91 | 276.95 | 216.96 | 2.277 | |
| 10,900.00 | 6,937.23 | 11,005.03 | 7,121.71 | 116.17 | 116.51 | 111.98 | -1,256.36 | -4,156.72 | 492.95 | 270.93 | 222.02 | 2.220 | |
| 11,000.00 | 6,936.85 | 11,105.04 | 7,121.16 | 118.90 | 119.25 | 112.00 | -1,257.93 | -4,256.71 | 491.99 | 264.89 | 227.10 | 2.166 | |
| 11,100.00 | 6,936.47 | 11,205.04 | 7,120.62 | 121.64 | 121.99 | 112.03 | -1,259.50 | -4,356.69 | 491.03 | 258.85 | 232.18 | 2.115 | |
| 11,200.00 | 6,936.09 | 11,305.05 | 7,120.08 | 124.39 | 124.74 | 112.05 | -1,261.07 | -4,456.67 | 490.07 | 252.80 | 237.27 | 2.065 | |
| 11,300.00 | 6,935.71 | 11,405.05 | 7,119.54 | 127.14 | 127.50 | 112.08 | -1,262.64 | -4,556.65 | 489.11 | 246.74 | 242.37 | 2.018 | |
| 11,400.00 | 6,935.34 | 11,505.06 | 7,119.00 | 129.90 | 130.25 | 112.10 | -1,264.21 | -4,656.63 | 488.14 | 240.67 | 247.47 | 1.973 | |
| 11,500.00 | 6,934.96 | 11,605.06 | 7,118.45 | 132.66 | 133.02 | 112.13 | -1,265.78 | -4,756.61 | 487.18 | 234.60 | 252.58 | 1.929 | |
| 11,600.00 | 6,934.58 | 11,705.07 | 7,117.91 | 135.42 | 135.78 | 112.16 | -1,267.35 | -4,856.59 | 486.22 | 228.52 | 257.70 | 1.887 | |
| 11,700.00 | 6,934.20 | 11,805.07 | 7,117.37 | 138.19 | 138.55 | 112.18 | -1,268.92 | -4,956.57 | 485.26 | 222.44 | 262.82 | 1.846 | |
| 11,800.00 | 6,933.82 | 11,905.08 | 7,116.83 | 140.96 | 141.33 | 112.21 | -1,270.49 | -5,056.56 | 484.30 | 216.35 | 267.95 | 1.807 | |
| 11,900.00 | 6,933.44 | 11,994.92 | 7,116.29 | 143.74 | 143.82 | 112.23 | -1,272.06 | -5,156.54 | 483.34 | 210.52 | 272.82 | 1.772 | |
| 12,000.00 | 6,933.06 | 12,094.91 | 7,115.74 | 146.51 | 146.60 | 112.26 | -1,273.63 | -5,256.52 | 482.38 | 204.42 | 277.96 | 1.735 | |
| 12,100.00 | 6,932.68 | 12,205.09 | 7,115.20 | 149.30 | 149.66 | 112.28 | -1,275.20 | -5,356.50 | 481.42 | 198.06 | 283.36 | 1.699 | |
| 12,200.00 | 6,932.30 | 12,305.10 | 7,114.66 | 152.08 | 152.45 | 112.31 | -1,276.77 | -5,456.48 | 480.46 | 191.95 | 288.51 | 1.665 | |
| 12,300.00 | 6,931.92 | 12,394.90 | 7,114.12 | 154.87 | 154.95 | 112.34 | -1,278.34 | -5,556.46 | 479.50 | 186.11 | 293.39 | 1.634 | |
| 12,400.00 | 6,931.54 | 12,505.11 | 7,113.58 | 157.66 | 158.03 | 112.36 | -1,279.91 | -5,656.44 | 478.54 | 179.73 | 298.80 | 1.602 | |
| 12,500.00 | 6,931.16 | 12,605.11 | 7,113.03 | 160.45 | 160.82 | 112.39 | -1,281.48 | -5,756.43 | 477.58 | 173.62 | 303.96 | 1.571 | |
| 12,600.00 | 6,930.78 | 12,705.12 | 7,112.49 | 163.24 | 163.61 | 112.41 | -1,283.05 | -5,856.41 | 476.62 | 167.50 | 309.11 | 1.542 | |
| 12,700.00 | 6,930.40 | 12,805.12 | 7,111.95 | 166.04 | 166.41 | 112.44 | -1,284.62 | -5,956.39 | 475.66 | 161.39 | 314.27 | 1.514 | |
| 12,800.00 | 6,930.03 | 12,894.87 | 7,111.41 | 168.84 | 168.92 | 112.47 | -1,286.19 | -6,056.37 | 474.70 | 155.53 | 319.16 | 1.487 Level 3 | |
| 12,900.00 | 6,929.65 | 13,005.13 | 7,110.87 | 171.64 | 172.01 | 112.49 | -1,287.76 | -6,156.35 | 473.74 | 149.14 | 324.59 | 1.459 Level 3 | |
| 13,000.00 | 6,929.27 | 13,105.14 | 7,110.32 | 174.44 | 174.81 | 112.52 | -1,289.33 | -6,256.33 | 472.78 | 143.02 | 329.76 | 1.434 Level 3 | |
| 13,100.00 | 6,928.89 | 13,205.14 | 7,109.78 | 177.24 | 177.62 | 112.55 | -1,290.90 | -6,356.31 | 471.82 | 136.90 | 334.92 | 1.409 Level 3 | |
| 13,200.00 | 6,928.51 | 13,305.15 | 7,109.24 | 180.05 | 180.42 | 112.58 | -1,292.47 | -6,456.30 | 470.86 | 130.77 | 340.09 | 1.385 Level 3 | |
| 13,300.00 | 6,928.13 | 13,405.15 | 7,108.70 | 182.86 | 183.23 | 112.60 | -1,294.04 | -6,556.28 | 469.90 | 124.64 | 345.25 | 1.361 Level 3 | |
| 13,400.00 | 6,927.75 | 13,505.16 | 7,108.16 | 185.67 | 186.04 | 112.63 | -1,295.61 | -6,656.26 | 468.94 | 118.52 | 350.42 | 1.338 Level 3 | |
| 13,500.00 | 6,927.37 | 13,605.16 | 7,107.61 | 188.48 | 188.85 | 112.66 | -1,297.18 | -6,756.24 | 467.98 | 112.39 | 355.59 | 1.316 Level 3 | |
| 13,600.00 | 6,926.99 | 13,694.84 | 7,107.07 | 191.29 | 191.37 | 112.68 | -1,298.75 | -6,856.22 | 467.02 | 106.53 | 360.49 | 1.296 Level 3 | |
| 13,700.00 | 6,926.61 | 13,805.17 | 7,106.53 | 194.10 | 194.47 | 112.71 | -1,300.32 | -6,956.20 | 466.06 | 100.13 | 365.93 | 1.274 Level 3 | |
| 13,800.00 | 6,926.23 | 13,905.18 | 7,105.99 | 196.92 | 197.28 | 112.74 | -1,301.89 | -7,056.18 | 465.10 | 94.00 | 371.10 | 1.253 Level 3 | |
| 13,900.00 | 6,925.85 | 14,005.18 | 7,105.45 | 199.73 | 200.10 | 112.77 | -1,303.46 | -7,156.16 | 464.14 | 87.87 | 376.27 | 1.234 Level 2 | |
| 14,000.00 | 6,925.47 | 14,105.18 | 7,104.91 | 202.55 | 202.92 | 112.80 | -1,305.03 | -7,256.15 | 463.19 | 81.74 | 381.44 | 1.214 Level 2 | |
| 14,100.00 | 6,925.09 | 14,205.19 | 7,104.36 | 205.37 | 205.73 | 112.82 | -1,306.60 | -7,356.13 | 462.23 | 75.61 | 386.61 | 1.196 Level 2 | |
| 14,200.00 | 6,924.71 | 14,294.81 | 7,103.82 | 208.19 | 208.26 | 112.85 | -1,308.17 | -7,456.11 | 461.27 | 69.76 | 391.51 | 1.178 Level 2 | |
| 14,300.00 | 6,924.34 | 14,405.20 | 7,103.28 | 211.01 | 211.37 | 112.88 | -1,309.74 | -7,556.09 | 460.31 | 63.36 | 396.95 | 1.160 Level 2 | |
| 14,400.00 | 6,923.96 | 14,505.20 | 7,102.74 | 213.83 | 214.19 | 112.91 | -1,311.31 | -7,656.07 | 459.35 | 57.23 | 402.12 | 1.142 Level 2 | |
| 14,500.00 | 6,923.58 | 14,605.21 | 7,102.20 | 216.65 | 217.01 | 112.94 | -1,312.88 | -7,756.05 | 458.39 | 51.10 | 407.29 | 1.125 Level 2 | |
| 14,600.00 | 6,923.20 | 14,705.21 | 7,101.65 | 219.48 | 219.83 | 112.97 | -1,314.45 | -7,856.03 | 457.44 | 44.97 | 412.46 | 1.109 Level 2 | |
| 14,700.00 | 6,922.82 | 14,805.22 | 7,101.11 | 222.30 | 222.66 | 112.99 | -1,316.02 | -7,956.02 | 456.48 | 38.85 | 417.63 | 1.093 Level 2 | |
| 14,800.00 | 6,922.44 | 14,905.22 | 7,100.57 | 225.13 | 225.48 | 113.02 | -1,317.59 | -8,056.00 | 455.52 | 32.72 | 422.80 | 1.077 Level 2 | |
| 14,900.00 | 6,922.06 | 14,994.77 | 7,100.03 | 227.95 | 228.01 | 113.05 | -1,319.16 | -8,155.98 | 454.56 | 26.87 | 427.69 | 1.063 Level 2 | |
| 14,914.72 | 6,922.00 | 15,009.50 | 7,099.95 | 228.37 | 228.43 | 113.06 | -1,319.39 | -8,170.70 | 454.42 | 25.97 | 428.45 | 1.061 Level 2, ES, SF | |
| 14,915.55 | 6,922.00 | 15,000.73 | 7,100.00 | 228.39 | 228.18 | 113.05 | -1,319.26 | -8,161.93 | 454.52 | 26.53 | 427.99 | 1.062 Level 2 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 13N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | -179.52 | -99.82 | -0.83 | 99.82 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | -179.52 | -99.82 | -0.83 | 99.82 | 93.25 | 6.57 | 15.194 | | |
| 200.00 | 200.00 | 199.00 | 200.00 | 3.34 | 3.34 | -179.52 | -99.82 | -0.83 | 99.82 | 93.15 | 6.67 | 14.958 | | |
| 300.00 | 299.98 | 295.67 | 296.65 | 3.44 | 3.43 | -4.94 | -101.41 | -0.93 | 99.73 | 92.85 | 6.88 | 14.488 | | |
| 400.00 | 399.84 | 392.31 | 393.17 | 3.59 | 3.58 | -5.04 | -106.26 | -1.22 | 99.53 | 92.33 | 7.20 | 13.825 | | |
| 500.00 | 499.45 | 488.97 | 489.48 | 3.79 | 3.77 | -5.22 | -114.35 | -1.70 | 99.23 | 91.61 | 7.62 | 13.030 | | |
| 600.00 | 598.70 | 585.63 | 585.46 | 4.03 | 4.00 | -5.47 | -125.69 | -2.38 | 98.82 | 90.70 | 8.12 | 12.177 | | |
| 700.00 | 697.47 | 682.31 | 681.03 | 4.31 | 4.26 | -5.79 | -140.25 | -3.24 | 98.30 | 89.62 | 8.69 | 11.318 | | |
| 800.00 | 795.62 | 779.00 | 776.07 | 4.64 | 4.57 | -6.19 | -158.02 | -4.30 | 97.69 | 88.37 | 9.32 | 10.487 | | |
| 900.00 | 893.06 | 875.72 | 870.47 | 5.00 | 4.91 | -6.67 | -179.00 | -5.55 | 96.97 | 86.98 | 9.99 | 9.708 | | |
| 971.17 | 962.01 | 944.57 | 937.21 | 5.28 | 5.17 | -7.02 | -195.86 | -6.56 | 96.89 | 86.39 | 10.50 | 9.229 | | |
| 1,000.00 | 989.78 | 972.46 | 964.13 | 5.39 | 5.28 | -7.18 | -203.15 | -6.99 | 96.69 | 85.98 | 10.71 | 9.028 CC, ES | | |
| 1,100.00 | 1,086.42 | 1,069.13 | 1,056.86 | 5.81 | 5.69 | -7.54 | -230.42 | -8.62 | 99.42 | 87.96 | 11.46 | 8.676 | | |
| 1,200.00 | 1,183.06 | 1,165.52 | 1,148.35 | 6.25 | 6.13 | -7.69 | -260.70 | -10.42 | 105.51 | 93.27 | 12.23 | 8.626 | | |
| 1,300.00 | 1,279.69 | 1,261.41 | 1,238.29 | 6.71 | 6.60 | -7.66 | -293.86 | -12.40 | 114.92 | 101.90 | 13.02 | 8.828 | | |
| 1,400.00 | 1,376.33 | 1,357.33 | 1,327.13 | 7.17 | 7.09 | -7.49 | -329.97 | -14.55 | 127.58 | 113.77 | 13.82 | 9.234 | | |
| 1,500.00 | 1,472.97 | 1,456.38 | 1,418.43 | 7.65 | 7.63 | -7.30 | -368.28 | -16.83 | 141.36 | 126.70 | 14.66 | 9.642 | | |
| 1,600.00 | 1,569.61 | 1,555.42 | 1,509.74 | 8.13 | 8.18 | -7.14 | -406.60 | -19.11 | 155.14 | 139.61 | 15.53 | 9.990 | | |
| 1,700.00 | 1,666.24 | 1,654.47 | 1,601.04 | 8.62 | 8.75 | -7.01 | -444.91 | -21.40 | 168.92 | 152.51 | 16.42 | 10.289 | | |
| 1,800.00 | 1,762.88 | 1,753.51 | 1,692.35 | 9.12 | 9.32 | -6.90 | -483.22 | -23.68 | 182.71 | 165.39 | 17.32 | 10.548 | | |
| 1,900.00 | 1,859.52 | 1,852.56 | 1,783.66 | 9.62 | 9.90 | -6.81 | -521.54 | -25.96 | 196.49 | 178.25 | 18.24 | 10.772 | | |
| 2,000.00 | 1,956.16 | 1,951.60 | 1,874.96 | 10.13 | 10.49 | -6.72 | -559.85 | -28.24 | 210.27 | 191.10 | 19.17 | 10.969 | | |
| 2,100.00 | 2,052.79 | 2,050.65 | 1,966.27 | 10.64 | 11.09 | -6.65 | -598.17 | -30.53 | 224.06 | 203.95 | 20.11 | 11.141 | | |
| 2,200.00 | 2,149.43 | 2,149.69 | 2,057.57 | 11.15 | 11.69 | -6.59 | -636.48 | -32.81 | 237.84 | 216.78 | 21.06 | 11.293 | | |
| 2,300.00 | 2,246.07 | 2,248.74 | 2,148.88 | 11.66 | 12.29 | -6.53 | -674.79 | -35.09 | 251.63 | 229.61 | 22.02 | 11.428 | | |
| 2,400.00 | 2,342.71 | 2,347.78 | 2,240.19 | 12.18 | 12.90 | -6.48 | -713.11 | -37.38 | 265.41 | 242.43 | 22.98 | 11.548 | | |
| 2,500.00 | 2,439.34 | 2,446.83 | 2,331.49 | 12.70 | 13.51 | -6.43 | -751.42 | -39.66 | 279.20 | 255.24 | 23.95 | 11.655 | | |
| 2,600.00 | 2,535.98 | 2,545.87 | 2,422.80 | 13.22 | 14.12 | -6.39 | -789.73 | -41.94 | 292.98 | 268.05 | 24.93 | 11.752 | | |
| 2,700.00 | 2,632.62 | 2,644.92 | 2,514.10 | 13.75 | 14.74 | -6.35 | -828.05 | -44.22 | 306.77 | 280.86 | 25.91 | 11.839 | | |
| 2,800.00 | 2,729.26 | 2,743.96 | 2,605.41 | 14.27 | 15.36 | -6.32 | -866.36 | -46.51 | 320.55 | 293.66 | 26.90 | 11.918 | | |
| 2,900.00 | 2,825.89 | 2,843.01 | 2,696.72 | 14.80 | 15.98 | -6.29 | -904.67 | -48.79 | 334.34 | 306.45 | 27.88 | 11.990 | | |
| 3,000.00 | 2,922.53 | 2,942.05 | 2,788.02 | 15.32 | 16.60 | -6.26 | -942.99 | -51.07 | 348.12 | 319.25 | 28.88 | 12.056 | | |
| 3,100.00 | 3,019.17 | 3,041.10 | 2,879.33 | 15.85 | 17.22 | -6.23 | -981.30 | -53.36 | 361.91 | 332.04 | 29.87 | 12.116 | | |
| 3,200.00 | 3,115.81 | 3,140.14 | 2,970.63 | 16.38 | 17.85 | -6.21 | -1,019.62 | -55.64 | 375.69 | 344.83 | 30.87 | 12.171 | | |
| 3,300.00 | 3,212.44 | 3,239.19 | 3,061.94 | 16.91 | 18.47 | -6.18 | -1,057.93 | -57.92 | 389.48 | 357.61 | 31.87 | 12.221 | | |
| 3,400.00 | 3,309.08 | 3,338.23 | 3,153.25 | 17.44 | 19.10 | -6.16 | -1,096.24 | -60.20 | 403.26 | 370.39 | 32.87 | 12.268 | | |
| 3,500.00 | 3,405.72 | 3,437.28 | 3,244.55 | 17.97 | 19.72 | -6.14 | -1,134.56 | -62.49 | 417.05 | 383.18 | 33.88 | 12.311 | | |
| 3,600.00 | 3,502.36 | 3,536.32 | 3,335.86 | 18.50 | 20.35 | -6.12 | -1,172.87 | -64.77 | 430.84 | 395.95 | 34.88 | 12.351 | | |
| 3,700.00 | 3,598.99 | 3,635.37 | 3,427.16 | 19.03 | 20.98 | -6.10 | -1,211.18 | -67.05 | 444.62 | 408.73 | 35.89 | 12.389 | | |
| 3,800.00 | 3,695.63 | 3,734.41 | 3,518.47 | 19.57 | 21.61 | -6.09 | -1,249.50 | -69.34 | 458.41 | 421.51 | 36.90 | 12.423 | | |
| 3,900.00 | 3,792.27 | 3,833.46 | 3,609.78 | 20.10 | 22.24 | -6.07 | -1,287.81 | -71.62 | 472.19 | 434.28 | 37.91 | 12.456 | | |
| 4,000.00 | 3,888.91 | 3,932.50 | 3,701.08 | 20.63 | 22.87 | -6.06 | -1,326.13 | -73.90 | 485.98 | 447.06 | 38.92 | 12.486 | | |
| 4,100.00 | 3,985.54 | 4,031.55 | 3,792.39 | 21.17 | 23.50 | -6.04 | -1,364.44 | -76.18 | 499.77 | 459.83 | 39.94 | 12.514 | | |
| 4,200.00 | 4,082.18 | 4,130.59 | 3,883.69 | 21.70 | 24.14 | -6.03 | -1,402.75 | -78.47 | 513.55 | 472.60 | 40.95 | 12.541 | | |
| 4,300.00 | 4,178.82 | 4,229.64 | 3,975.00 | 22.24 | 24.77 | -6.02 | -1,441.07 | -80.75 | 527.34 | 485.37 | 41.97 | 12.565 | | |
| 4,400.00 | 4,275.46 | 4,328.68 | 4,066.31 | 22.77 | 25.40 | -6.01 | -1,479.38 | -83.03 | 541.12 | 498.14 | 42.98 | 12.589 | | |
| 4,500.00 | 4,372.09 | 4,427.73 | 4,157.61 | 23.31 | 26.03 | -5.99 | -1,517.69 | -85.32 | 554.91 | 510.91 | 44.00 | 12.611 | | |
| 4,600.00 | 4,468.73 | 4,526.77 | 4,248.92 | 23.84 | 26.67 | -5.98 | -1,556.01 | -87.60 | 568.70 | 523.68 | 45.02 | 12.632 | | |
| 4,700.00 | 4,565.37 | 4,625.82 | 4,340.22 | 24.38 | 27.30 | -5.97 | -1,594.32 | -89.88 | 582.48 | 536.44 | 46.04 | 12.652 | | |
| 4,800.00 | 4,662.01 | 4,724.86 | 4,431.53 | 24.91 | 27.94 | -5.96 | -1,632.64 | -92.16 | 596.27 | 549.21 | 47.06 | 12.670 | | |
| 4,900.00 | 4,758.64 | 4,823.91 | 4,522.84 | 25.45 | 28.57 | -5.95 | -1,670.95 | -94.45 | 610.06 | 561.97 | 48.08 | 12.688 | | |
| 5,000.00 | 4,855.28 | 4,922.95 | 4,614.14 | 25.99 | 29.21 | -5.95 | -1,709.26 | -96.73 | 623.84 | 574.74 | 49.10 | 12.705 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 13N-16B-M - OH - PLAN #1 | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 5,100.00 | 4,951.92 | 5,022.00 | 4,705.45 | 26.53 | 29.84 | -5.94 | -1,747.58 | -99.01 | 637.63 | 587.50 | 50.12 | 12.721 | |
| 5,200.00 | 5,048.56 | 5,121.04 | 4,796.75 | 27.06 | 30.48 | -5.93 | -1,785.89 | -101.30 | 651.41 | 600.27 | 51.15 | 12.736 | |
| 5,300.00 | 5,145.19 | 5,220.09 | 4,888.06 | 27.60 | 31.11 | -5.92 | -1,824.20 | -103.58 | 665.20 | 613.03 | 52.17 | 12.750 | |
| 5,400.00 | 5,241.83 | 5,319.13 | 4,979.37 | 28.14 | 31.75 | -5.91 | -1,862.52 | -105.86 | 678.99 | 625.79 | 53.19 | 12.764 | |
| 5,500.00 | 5,338.47 | 5,418.18 | 5,070.67 | 28.67 | 32.38 | -5.91 | -1,900.83 | -108.14 | 692.77 | 638.55 | 54.22 | 12.777 | |
| 5,600.00 | 5,435.11 | 5,517.22 | 5,161.98 | 29.21 | 33.02 | -5.90 | -1,939.15 | -110.43 | 706.56 | 651.32 | 55.24 | 12.790 | |
| 5,700.00 | 5,531.74 | 5,616.27 | 5,253.28 | 29.75 | 33.66 | -5.89 | -1,977.46 | -112.71 | 720.35 | 664.08 | 56.27 | 12.802 | |
| 5,800.00 | 5,628.38 | 5,715.31 | 5,344.59 | 30.29 | 34.29 | -5.89 | -2,015.77 | -114.99 | 734.13 | 676.84 | 57.29 | 12.813 | |
| 5,900.00 | 5,725.02 | 5,814.36 | 5,435.90 | 30.83 | 34.93 | -5.88 | -2,054.09 | -117.28 | 747.92 | 689.60 | 58.32 | 12.824 | |
| 6,000.00 | 5,821.66 | 5,913.41 | 5,527.20 | 31.37 | 35.57 | -5.87 | -2,092.40 | -119.56 | 761.70 | 702.36 | 59.35 | 12.835 | |
| 6,100.00 | 5,918.29 | 6,012.45 | 5,618.51 | 31.90 | 36.21 | -5.87 | -2,130.71 | -121.84 | 775.49 | 715.12 | 60.37 | 12.845 | |
| 6,200.00 | 6,014.93 | 6,111.50 | 5,709.81 | 32.44 | 36.84 | -5.86 | -2,169.03 | -124.12 | 789.28 | 727.88 | 61.40 | 12.854 | |
| 6,300.00 | 6,111.57 | 6,210.54 | 5,801.12 | 32.98 | 37.48 | -5.86 | -2,207.34 | -126.41 | 803.06 | 740.64 | 62.43 | 12.864 | |
| 6,400.00 | 6,208.21 | 6,309.59 | 5,892.42 | 33.52 | 38.12 | -5.85 | -2,245.66 | -128.69 | 816.85 | 753.39 | 63.46 | 12.873 | |
| 6,500.00 | 6,304.84 | 6,408.63 | 5,983.73 | 34.06 | 38.76 | -5.85 | -2,283.97 | -130.97 | 830.64 | 766.15 | 64.48 | 12.881 | |
| 6,600.00 | 6,401.37 | 6,507.62 | 6,074.98 | 34.60 | 39.39 | -22.03 | -2,322.26 | -133.25 | 844.43 | 778.91 | 65.52 | 12.889 | |
| 6,700.00 | 6,496.25 | 6,605.28 | 6,165.01 | 35.12 | 40.02 | -44.32 | -2,360.04 | -135.50 | 858.28 | 791.71 | 66.57 | 12.893 | |
| 6,800.00 | 6,587.15 | 6,699.25 | 6,251.64 | 35.59 | 40.63 | -57.35 | -2,396.39 | -137.67 | 872.70 | 805.05 | 67.65 | 12.900 | |
| 6,900.00 | 6,671.83 | 6,787.22 | 6,332.74 | 36.03 | 41.19 | -65.53 | -2,430.42 | -139.70 | 888.84 | 820.08 | 68.77 | 12.925 | |
| 7,000.00 | 6,748.21 | 6,867.02 | 6,406.30 | 36.41 | 41.71 | -71.03 | -2,461.29 | -141.54 | 908.27 | 838.31 | 69.97 | 12.981 | |
| 7,100.00 | 6,814.41 | 6,936.69 | 6,470.53 | 36.76 | 42.16 | -74.62 | -2,488.24 | -143.14 | 932.65 | 861.37 | 71.29 | 13.083 | |
| 7,200.00 | 6,868.79 | 7,021.38 | 6,548.48 | 37.07 | 42.70 | -77.75 | -2,520.97 | -147.45 | 963.01 | 889.98 | 73.03 | 13.187 | |
| 7,300.00 | 6,910.01 | 7,157.49 | 6,670.77 | 37.39 | 43.52 | -82.14 | -2,572.47 | -176.56 | 997.02 | 921.97 | 75.06 | 13.284 | |
| 7,400.00 | 6,937.07 | 7,400.00 | 6,818.31 | 37.76 | 44.71 | -87.02 | -2,634.94 | -257.20 | 1,031.02 | 954.52 | 76.50 | 13.477 | |
| 7,500.00 | 6,949.29 | 7,755.66 | 7,042.82 | 38.27 | 45.81 | -95.49 | -2,731.49 | -587.10 | 1,055.28 | 981.78 | 73.50 | 14.357 | |
| 7,600.00 | 6,949.75 | 8,014.36 | 7,069.81 | 39.02 | 46.46 | -96.52 | -2,744.66 | -842.70 | 1,057.84 | 982.84 | 75.00 | 14.105 | |
| 7,700.00 | 6,949.37 | 8,114.36 | 7,069.51 | 40.05 | 46.84 | -96.52 | -2,745.26 | -942.70 | 1,057.85 | 980.29 | 77.55 | 13.640 | |
| 7,800.00 | 6,948.99 | 8,214.36 | 7,069.22 | 41.35 | 47.39 | -96.53 | -2,745.85 | -1,042.70 | 1,057.86 | 977.43 | 80.43 | 13.153 | |
| 7,900.00 | 6,948.61 | 8,314.36 | 7,068.92 | 42.86 | 48.16 | -96.53 | -2,746.45 | -1,142.70 | 1,057.86 | 974.27 | 83.59 | 12.655 | |
| 8,000.00 | 6,948.23 | 8,414.36 | 7,068.62 | 44.53 | 49.19 | -96.53 | -2,747.05 | -1,242.69 | 1,057.87 | 970.86 | 87.01 | 12.158 | |
| 8,100.00 | 6,947.85 | 8,514.36 | 7,068.32 | 46.34 | 50.47 | -96.54 | -2,747.65 | -1,342.69 | 1,057.88 | 967.23 | 90.66 | 11.669 | |
| 8,200.00 | 6,947.47 | 8,614.36 | 7,068.03 | 48.26 | 51.99 | -96.54 | -2,748.25 | -1,442.69 | 1,057.89 | 963.39 | 94.50 | 11.194 | |
| 8,300.00 | 6,947.09 | 8,714.36 | 7,067.73 | 50.28 | 53.68 | -96.55 | -2,748.84 | -1,542.69 | 1,057.90 | 959.37 | 98.53 | 10.737 | |
| 8,400.00 | 6,946.72 | 8,814.36 | 7,067.43 | 52.39 | 55.51 | -96.55 | -2,749.44 | -1,642.68 | 1,057.91 | 955.20 | 102.71 | 10.300 | |
| 8,500.00 | 6,946.34 | 8,914.36 | 7,067.13 | 54.56 | 57.47 | -96.56 | -2,750.04 | -1,742.68 | 1,057.92 | 950.89 | 107.03 | 9.884 | |
| 8,600.00 | 6,945.96 | 9,014.36 | 7,066.84 | 56.80 | 59.51 | -96.56 | -2,750.64 | -1,842.68 | 1,057.93 | 946.45 | 111.47 | 9.490 | |
| 8,700.00 | 6,945.58 | 9,114.36 | 7,066.54 | 59.10 | 61.64 | -96.57 | -2,751.23 | -1,942.68 | 1,057.93 | 941.91 | 116.03 | 9.118 | |
| 8,800.00 | 6,945.20 | 9,214.36 | 7,066.24 | 61.44 | 63.83 | -96.57 | -2,751.83 | -2,042.68 | 1,057.94 | 937.27 | 120.67 | 8.767 | |
| 8,900.00 | 6,944.82 | 9,314.36 | 7,065.94 | 63.83 | 66.09 | -96.57 | -2,752.43 | -2,142.67 | 1,057.95 | 932.55 | 125.40 | 8.436 | |
| 9,000.00 | 6,944.44 | 9,414.36 | 7,065.65 | 66.25 | 68.39 | -96.58 | -2,753.03 | -2,242.67 | 1,057.96 | 927.75 | 130.21 | 8.125 | |
| 9,100.00 | 6,944.06 | 9,514.36 | 7,065.35 | 68.71 | 70.74 | -96.58 | -2,753.63 | -2,342.67 | 1,057.97 | 922.88 | 135.09 | 7.832 | |
| 9,200.00 | 6,943.68 | 9,614.36 | 7,065.05 | 71.20 | 73.13 | -96.59 | -2,754.22 | -2,442.67 | 1,057.98 | 917.95 | 140.03 | 7.556 | |
| 9,300.00 | 6,943.30 | 9,714.36 | 7,064.75 | 73.72 | 75.55 | -96.59 | -2,754.82 | -2,542.66 | 1,057.99 | 912.97 | 145.02 | 7.296 | |
| 9,400.00 | 6,942.92 | 9,814.36 | 7,064.46 | 76.26 | 78.01 | -96.60 | -2,755.42 | -2,642.66 | 1,057.99 | 907.93 | 150.06 | 7.051 | |
| 9,500.00 | 6,942.54 | 9,914.36 | 7,064.16 | 78.82 | 80.49 | -96.60 | -2,756.02 | -2,742.66 | 1,058.00 | 902.86 | 155.14 | 6.819 | |
| 9,600.00 | 6,942.16 | 10,014.36 | 7,063.86 | 81.40 | 83.00 | -96.61 | -2,756.62 | -2,842.66 | 1,058.01 | 897.74 | 160.27 | 6.601 | |
| 9,700.00 | 6,941.78 | 10,114.36 | 7,063.56 | 84.00 | 85.53 | -96.61 | -2,757.21 | -2,942.66 | 1,058.02 | 892.59 | 165.43 | 6.396 | |
| 9,800.00 | 6,941.40 | 10,214.36 | 7,063.26 | 86.62 | 88.08 | -96.61 | -2,757.81 | -3,042.65 | 1,058.03 | 887.40 | 170.63 | 6.201 | |
| 9,900.00 | 6,941.03 | 10,314.36 | 7,062.97 | 89.25 | 90.66 | -96.62 | -2,758.41 | -3,142.65 | 1,058.04 | 882.19 | 175.85 | 6.017 | |
| 10,000.00 | 6,940.65 | 10,414.36 | 7,062.67 | 91.90 | 93.25 | -96.62 | -2,759.01 | -3,242.65 | 1,058.05 | 876.94 | 181.10 | 5.842 | |
| 10,100.00 | 6,940.27 | 10,514.36 | 7,062.37 | 94.56 | 95.85 | -96.63 | -2,759.61 | -3,342.65 | 1,058.06 | 871.67 | 186.38 | 5.677 | |
| 10,200.00 | 6,939.89 | 10,614.36 | 7,062.07 | 97.23 | 98.47 | -96.63 | -2,760.20 | -3,442.64 | 1,058.06 | 866.38 | 191.68 | 5.520 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 13N-16B-M - OH - PLAN #1 | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,300.00 | 6,939.51 | 10,714.36 | 7,061.78 | 99.91 | 101.10 | -96.64 | -2,760.80 | -3,542.64 | 1,058.07 | 861.07 | 197.00 | 5.371 | |
| 10,400.00 | 6,939.13 | 10,814.36 | 7,061.48 | 102.60 | 103.75 | -96.64 | -2,761.40 | -3,642.64 | 1,058.08 | 855.73 | 202.35 | 5.229 | |
| 10,500.00 | 6,938.75 | 10,914.36 | 7,061.18 | 105.30 | 106.40 | -96.64 | -2,762.00 | -3,742.64 | 1,058.09 | 850.38 | 207.71 | 5.094 | |
| 10,600.00 | 6,938.37 | 11,014.36 | 7,060.88 | 108.00 | 109.07 | -96.65 | -2,762.60 | -3,842.63 | 1,058.10 | 845.02 | 213.08 | 4.966 | |
| 10,700.00 | 6,937.99 | 11,114.36 | 7,060.59 | 110.72 | 111.75 | -96.65 | -2,763.19 | -3,942.63 | 1,058.11 | 839.63 | 218.47 | 4.843 | |
| 10,800.00 | 6,937.61 | 11,214.36 | 7,060.29 | 113.44 | 114.43 | -96.66 | -2,763.79 | -4,042.63 | 1,058.12 | 834.24 | 223.88 | 4.726 | |
| 10,900.00 | 6,937.23 | 11,314.36 | 7,059.99 | 116.17 | 117.13 | -96.66 | -2,764.39 | -4,142.63 | 1,058.12 | 828.83 | 229.30 | 4.615 | |
| 11,000.00 | 6,936.85 | 11,414.36 | 7,059.69 | 118.90 | 119.83 | -96.67 | -2,764.99 | -4,242.63 | 1,058.13 | 823.40 | 234.73 | 4.508 | |
| 11,100.00 | 6,936.47 | 11,514.36 | 7,059.40 | 121.64 | 122.54 | -96.67 | -2,765.58 | -4,342.62 | 1,058.14 | 817.97 | 240.17 | 4.406 | |
| 11,200.00 | 6,936.09 | 11,614.36 | 7,059.10 | 124.39 | 125.25 | -96.68 | -2,766.18 | -4,442.62 | 1,058.15 | 812.52 | 245.63 | 4.308 | |
| 11,300.00 | 6,935.71 | 11,714.36 | 7,058.80 | 127.14 | 127.97 | -96.68 | -2,766.78 | -4,542.62 | 1,058.16 | 807.07 | 251.09 | 4.214 | |
| 11,400.00 | 6,935.34 | 11,814.36 | 7,058.50 | 129.90 | 130.70 | -96.68 | -2,767.38 | -4,642.62 | 1,058.17 | 801.60 | 256.57 | 4.124 | |
| 11,500.00 | 6,934.96 | 11,914.36 | 7,058.21 | 132.66 | 133.43 | -96.69 | -2,767.98 | -4,742.61 | 1,058.18 | 796.13 | 262.05 | 4.038 | |
| 11,600.00 | 6,934.58 | 12,014.36 | 7,057.91 | 135.42 | 136.17 | -96.69 | -2,768.57 | -4,842.61 | 1,058.19 | 790.65 | 267.54 | 3.955 | |
| 11,700.00 | 6,934.20 | 12,114.36 | 7,057.61 | 138.19 | 138.92 | -96.70 | -2,769.17 | -4,942.61 | 1,058.20 | 785.16 | 273.04 | 3.876 | |
| 11,800.00 | 6,933.82 | 12,214.36 | 7,057.31 | 140.96 | 141.67 | -96.70 | -2,769.77 | -5,042.61 | 1,058.20 | 779.66 | 278.54 | 3.799 | |
| 11,900.00 | 6,933.44 | 12,314.36 | 7,057.02 | 143.74 | 144.42 | -96.71 | -2,770.37 | -5,142.61 | 1,058.21 | 774.16 | 284.05 | 3.725 | |
| 12,000.00 | 6,933.06 | 12,414.36 | 7,056.72 | 146.51 | 147.17 | -96.71 | -2,770.97 | -5,242.60 | 1,058.22 | 768.65 | 289.57 | 3.654 | |
| 12,100.00 | 6,932.68 | 12,514.36 | 7,056.42 | 149.30 | 149.93 | -96.72 | -2,771.56 | -5,342.60 | 1,058.23 | 763.13 | 295.10 | 3.586 | |
| 12,200.00 | 6,932.30 | 12,614.36 | 7,056.12 | 152.08 | 152.70 | -96.72 | -2,772.16 | -5,442.60 | 1,058.24 | 757.61 | 300.63 | 3.520 | |
| 12,300.00 | 6,931.92 | 12,714.36 | 7,055.82 | 154.87 | 155.47 | -96.72 | -2,772.76 | -5,542.60 | 1,058.25 | 752.08 | 306.17 | 3.456 | |
| 12,400.00 | 6,931.54 | 12,814.36 | 7,055.53 | 157.66 | 158.24 | -96.73 | -2,773.36 | -5,642.59 | 1,058.26 | 746.55 | 311.71 | 3.395 | |
| 12,500.00 | 6,931.16 | 12,914.36 | 7,055.23 | 160.45 | 161.01 | -96.73 | -2,773.96 | -5,742.59 | 1,058.27 | 741.01 | 317.25 | 3.336 | |
| 12,600.00 | 6,930.78 | 13,014.36 | 7,054.93 | 163.24 | 163.79 | -96.74 | -2,774.55 | -5,842.59 | 1,058.27 | 735.47 | 322.80 | 3.278 | |
| 12,700.00 | 6,930.40 | 13,114.36 | 7,054.63 | 166.04 | 166.57 | -96.74 | -2,775.15 | -5,942.59 | 1,058.28 | 729.92 | 328.36 | 3.223 | |
| 12,800.00 | 6,930.03 | 13,214.36 | 7,054.34 | 168.84 | 169.35 | -96.75 | -2,775.75 | -6,042.59 | 1,058.29 | 724.37 | 333.92 | 3.169 | |
| 12,900.00 | 6,929.65 | 13,314.36 | 7,054.04 | 171.64 | 172.13 | -96.75 | -2,776.35 | -6,142.58 | 1,058.30 | 718.82 | 339.48 | 3.117 | |
| 13,000.00 | 6,929.27 | 13,414.36 | 7,053.74 | 174.44 | 174.92 | -96.75 | -2,776.95 | -6,242.58 | 1,058.31 | 713.26 | 345.05 | 3.067 | |
| 13,100.00 | 6,928.89 | 13,514.36 | 7,053.44 | 177.24 | 177.71 | -96.76 | -2,777.54 | -6,342.58 | 1,058.32 | 707.70 | 350.62 | 3.018 | |
| 13,200.00 | 6,928.51 | 13,614.36 | 7,053.15 | 180.05 | 180.50 | -96.76 | -2,778.14 | -6,442.58 | 1,058.33 | 702.14 | 356.19 | 2.971 | |
| 13,300.00 | 6,928.13 | 13,714.36 | 7,052.85 | 182.86 | 183.30 | -96.77 | -2,778.74 | -6,542.57 | 1,058.34 | 696.57 | 361.77 | 2.925 | |
| 13,400.00 | 6,927.75 | 13,814.36 | 7,052.55 | 185.67 | 186.09 | -96.77 | -2,779.34 | -6,642.57 | 1,058.35 | 691.00 | 367.35 | 2.881 | |
| 13,500.00 | 6,927.37 | 13,914.36 | 7,052.25 | 188.48 | 188.89 | -96.78 | -2,779.94 | -6,742.57 | 1,058.35 | 685.42 | 372.93 | 2.838 | |
| 13,600.00 | 6,926.99 | 14,014.36 | 7,051.96 | 191.29 | 191.69 | -96.78 | -2,780.53 | -6,842.57 | 1,058.36 | 679.84 | 378.52 | 2.796 | |
| 13,700.00 | 6,926.61 | 14,114.36 | 7,051.66 | 194.10 | 194.49 | -96.79 | -2,781.13 | -6,942.56 | 1,058.37 | 674.27 | 384.11 | 2.755 | |
| 13,800.00 | 6,926.23 | 14,214.36 | 7,051.36 | 196.92 | 197.29 | -96.79 | -2,781.73 | -7,042.56 | 1,058.38 | 668.68 | 389.70 | 2.716 | |
| 13,900.00 | 6,925.85 | 14,314.36 | 7,051.06 | 199.73 | 200.10 | -96.79 | -2,782.33 | -7,142.56 | 1,058.39 | 663.10 | 395.29 | 2.677 | |
| 14,000.00 | 6,925.47 | 14,414.36 | 7,050.77 | 202.55 | 202.91 | -96.80 | -2,782.92 | -7,242.56 | 1,058.40 | 657.51 | 400.89 | 2.640 | |
| 14,100.00 | 6,925.09 | 14,514.36 | 7,050.47 | 205.37 | 205.71 | -96.80 | -2,783.52 | -7,342.56 | 1,058.41 | 651.92 | 406.49 | 2.604 | |
| 14,200.00 | 6,924.71 | 14,614.36 | 7,050.17 | 208.19 | 208.52 | -96.81 | -2,784.12 | -7,442.55 | 1,058.42 | 646.33 | 412.09 | 2.568 | |
| 14,300.00 | 6,924.34 | 14,714.36 | 7,049.87 | 211.01 | 211.33 | -96.81 | -2,784.72 | -7,542.55 | 1,058.43 | 640.74 | 417.69 | 2.534 | |
| 14,400.00 | 6,923.96 | 14,814.36 | 7,049.58 | 213.83 | 214.14 | -96.82 | -2,785.32 | -7,642.55 | 1,058.44 | 635.14 | 423.29 | 2.500 | |
| 14,500.00 | 6,923.58 | 14,914.36 | 7,049.28 | 216.65 | 216.96 | -96.82 | -2,785.91 | -7,742.55 | 1,058.44 | 629.54 | 428.90 | 2.468 | |
| 14,600.00 | 6,923.20 | 15,014.36 | 7,048.98 | 219.48 | 219.77 | -96.82 | -2,786.51 | -7,842.54 | 1,058.45 | 623.95 | 434.51 | 2.436 | |
| 14,700.00 | 6,922.82 | 15,114.36 | 7,048.68 | 222.30 | 222.59 | -96.83 | -2,787.11 | -7,942.54 | 1,058.46 | 618.34 | 440.12 | 2.405 | |
| 14,800.00 | 6,922.44 | 15,214.36 | 7,048.39 | 225.13 | 225.40 | -96.83 | -2,787.71 | -8,042.54 | 1,058.47 | 612.74 | 445.73 | 2.375 | |
| 14,900.00 | 6,922.06 | 15,314.36 | 7,048.09 | 227.95 | 228.22 | -96.84 | -2,788.31 | -8,142.54 | 1,058.48 | 607.14 | 451.34 | 2.345 | |
| 14,915.55 | 6,922.00 | 15,329.91 | 7,048.04 | 228.39 | 228.66 | -96.84 | -2,788.40 | -8,158.09 | 1,058.48 | 606.27 | 452.21 | 2.341 SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 31N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.49 | 260.12 | 2.23 | 260.13 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.49 | 260.12 | 2.23 | 260.13 | 253.56 | 6.57 | 39.596 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.49 | 260.12 | 2.23 | 260.13 | 253.46 | 6.67 | 38.972 | CC, ES | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.14 | 260.12 | 2.23 | 261.87 | 254.98 | 6.89 | 38.028 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.22 | 260.12 | 2.23 | 267.09 | 259.89 | 7.20 | 37.110 | | |
| 500.00 | 499.45 | 500.45 | 499.45 | 3.79 | 3.81 | 175.36 | 260.12 | 2.23 | 275.77 | 268.17 | 7.60 | 36.288 | | |
| 600.00 | 598.70 | 591.57 | 590.55 | 4.03 | 4.02 | 175.38 | 261.42 | 1.55 | 289.32 | 281.26 | 8.07 | 35.866 | | |
| 700.00 | 697.47 | 684.20 | 683.09 | 4.31 | 4.27 | 175.19 | 265.21 | -0.41 | 308.90 | 300.30 | 8.60 | 35.923 | | |
| 800.00 | 795.62 | 781.38 | 780.13 | 4.64 | 4.56 | 175.00 | 269.76 | -2.77 | 332.46 | 323.27 | 9.19 | 36.185 | | |
| 900.00 | 893.06 | 877.68 | 876.29 | 5.00 | 4.86 | 174.87 | 274.27 | -5.10 | 359.39 | 349.57 | 9.82 | 36.596 | | |
| 1,000.00 | 989.78 | 973.15 | 971.63 | 5.39 | 5.18 | 174.82 | 278.74 | -7.42 | 389.15 | 378.67 | 10.49 | 37.105 | | |
| 1,100.00 | 1,086.42 | 1,068.51 | 1,066.86 | 5.81 | 5.51 | 174.80 | 283.20 | -9.73 | 419.25 | 408.08 | 11.17 | 37.521 | | |
| 1,200.00 | 1,183.06 | 1,163.87 | 1,162.09 | 6.25 | 5.85 | 174.78 | 287.67 | -12.04 | 449.35 | 437.46 | 11.89 | 37.800 | | |
| 1,300.00 | 1,279.69 | 1,259.23 | 1,257.32 | 6.71 | 6.20 | 174.77 | 292.13 | -14.35 | 479.45 | 466.83 | 12.62 | 37.979 | | |
| 1,400.00 | 1,376.33 | 1,354.60 | 1,352.55 | 7.17 | 6.56 | 174.76 | 296.60 | -16.67 | 509.55 | 496.17 | 13.38 | 38.084 | | |
| 1,500.00 | 1,472.97 | 1,449.96 | 1,447.78 | 7.65 | 6.93 | 174.75 | 301.06 | -18.98 | 539.65 | 525.50 | 14.15 | 38.134 | | |
| 1,600.00 | 1,569.61 | 1,545.32 | 1,543.01 | 8.13 | 7.30 | 174.74 | 305.53 | -21.29 | 569.74 | 554.81 | 14.94 | 38.144 | | |
| 1,700.00 | 1,666.24 | 1,640.69 | 1,638.24 | 8.62 | 7.68 | 174.73 | 309.99 | -23.60 | 599.84 | 584.11 | 15.73 | 38.126 | | |
| 1,800.00 | 1,762.88 | 1,736.05 | 1,733.47 | 9.12 | 8.06 | 174.72 | 314.46 | -25.92 | 629.94 | 613.40 | 16.54 | 38.086 | | |
| 1,900.00 | 1,859.52 | 1,831.41 | 1,828.70 | 9.62 | 8.45 | 174.71 | 318.92 | -28.23 | 660.04 | 642.69 | 17.36 | 38.032 | | |
| 2,000.00 | 1,956.16 | 1,926.77 | 1,923.93 | 10.13 | 8.84 | 174.71 | 323.39 | -30.54 | 690.14 | 671.96 | 18.18 | 37.967 | | |
| 2,100.00 | 2,052.79 | 2,022.14 | 2,019.16 | 10.64 | 9.23 | 174.70 | 327.85 | -32.85 | 720.24 | 701.23 | 19.01 | 37.895 | | |
| 2,200.00 | 2,149.43 | 2,117.50 | 2,114.39 | 11.15 | 9.63 | 174.69 | 332.32 | -35.16 | 750.34 | 730.50 | 19.84 | 37.818 | | |
| 2,300.00 | 2,246.07 | 2,212.86 | 2,209.62 | 11.66 | 10.02 | 174.69 | 336.78 | -37.48 | 780.43 | 759.75 | 20.68 | 37.739 | | |
| 2,400.00 | 2,342.71 | 2,308.23 | 2,304.85 | 12.18 | 10.42 | 174.68 | 341.25 | -39.79 | 810.53 | 789.01 | 21.52 | 37.658 | | |
| 2,500.00 | 2,439.34 | 2,403.59 | 2,400.08 | 12.70 | 10.82 | 174.68 | 345.71 | -42.10 | 840.63 | 818.26 | 22.37 | 37.577 | | |
| 2,600.00 | 2,535.98 | 2,501.05 | 2,495.31 | 13.22 | 11.23 | 174.68 | 350.18 | -44.41 | 870.73 | 847.50 | 23.23 | 37.482 | | |
| 2,700.00 | 2,632.62 | 2,605.69 | 2,599.54 | 13.75 | 11.67 | 174.67 | 354.64 | -46.73 | 900.83 | 876.70 | 24.12 | 37.342 | | |
| 2,800.00 | 2,729.26 | 2,699.68 | 2,685.77 | 14.27 | 12.03 | 174.67 | 359.11 | -49.04 | 930.93 | 905.99 | 24.93 | 37.339 | | |
| 2,900.00 | 2,825.89 | 2,785.04 | 2,781.00 | 14.80 | 12.43 | 174.66 | 363.57 | -51.35 | 961.03 | 935.23 | 25.79 | 37.262 | | |
| 3,000.00 | 2,922.53 | 2,880.40 | 2,876.23 | 15.32 | 12.84 | 174.66 | 368.04 | -53.66 | 991.12 | 964.47 | 26.65 | 37.187 | | |
| 3,100.00 | 3,019.17 | 2,975.77 | 2,971.46 | 15.85 | 13.25 | 174.66 | 372.50 | -55.98 | 1,021.22 | 993.71 | 27.52 | 37.114 | | |
| 3,200.00 | 3,115.81 | 3,071.13 | 3,066.69 | 16.38 | 13.66 | 174.66 | 376.97 | -58.29 | 1,051.32 | 1,022.94 | 28.38 | 37.044 | | |
| 3,300.00 | 3,212.44 | 3,166.49 | 3,161.92 | 16.91 | 14.06 | 174.65 | 381.43 | -60.60 | 1,081.42 | 1,052.17 | 29.25 | 36.975 | | |
| 3,400.00 | 3,309.08 | 3,261.85 | 3,257.15 | 17.44 | 14.47 | 174.65 | 385.90 | -62.91 | 1,111.52 | 1,081.40 | 30.12 | 36.908 | | |
| 3,500.00 | 3,405.72 | 3,357.22 | 3,352.38 | 17.97 | 14.88 | 174.65 | 390.36 | -65.23 | 1,141.62 | 1,110.63 | 30.99 | 36.844 | | |
| 3,600.00 | 3,502.36 | 3,452.58 | 3,447.61 | 18.50 | 15.30 | 174.65 | 394.83 | -67.54 | 1,171.72 | 1,139.86 | 31.86 | 36.781 | | |
| 3,700.00 | 3,598.99 | 3,547.94 | 3,542.84 | 19.03 | 15.71 | 174.64 | 399.29 | -69.85 | 1,201.81 | 1,169.09 | 32.73 | 36.720 | | |
| 3,800.00 | 3,695.63 | 3,643.31 | 3,638.07 | 19.57 | 16.12 | 174.64 | 403.76 | -72.16 | 1,231.91 | 1,198.31 | 33.60 | 36.662 | | |
| 3,900.00 | 3,792.27 | 3,738.67 | 3,733.30 | 20.10 | 16.53 | 174.64 | 408.22 | -74.48 | 1,262.01 | 1,227.53 | 34.48 | 36.605 | | |
| 4,000.00 | 3,888.91 | 3,834.03 | 3,828.53 | 20.63 | 16.94 | 174.64 | 412.69 | -76.79 | 1,292.11 | 1,256.76 | 35.35 | 36.550 | | |
| 4,100.00 | 3,985.54 | 3,929.39 | 3,923.76 | 21.17 | 17.36 | 174.64 | 417.16 | -79.10 | 1,322.21 | 1,285.98 | 36.23 | 36.497 | | |
| 4,200.00 | 4,082.18 | 4,024.76 | 4,018.99 | 21.70 | 17.77 | 174.63 | 421.62 | -81.41 | 1,352.31 | 1,315.20 | 37.10 | 36.446 | | |
| 4,300.00 | 4,178.82 | 4,120.12 | 4,114.22 | 22.24 | 18.18 | 174.63 | 426.09 | -83.72 | 1,382.41 | 1,344.42 | 37.98 | 36.396 | | |
| 4,400.00 | 4,275.46 | 4,215.48 | 4,209.45 | 22.77 | 18.60 | 174.63 | 430.55 | -86.04 | 1,412.50 | 1,373.64 | 38.86 | 36.348 | | |
| 4,500.00 | 4,372.09 | 4,310.85 | 4,304.68 | 23.31 | 19.01 | 174.63 | 435.02 | -88.35 | 1,442.60 | 1,402.86 | 39.74 | 36.301 | | |
| 4,600.00 | 4,468.73 | 4,406.21 | 4,399.91 | 23.84 | 19.43 | 174.63 | 439.48 | -90.66 | 1,472.70 | 1,432.08 | 40.62 | 36.256 | | |
| 4,700.00 | 4,565.37 | 4,501.57 | 4,495.14 | 24.38 | 19.84 | 174.63 | 443.95 | -92.97 | 1,502.80 | 1,461.30 | 41.50 | 36.212 | | |
| 4,800.00 | 4,662.01 | 4,603.07 | 4,590.38 | 24.91 | 20.28 | 174.63 | 448.41 | -95.29 | 1,532.90 | 1,490.49 | 42.41 | 36.147 | | |
| 4,900.00 | 4,758.64 | 4,707.70 | 4,685.61 | 25.45 | 20.74 | 174.62 | 452.88 | -97.60 | 1,563.00 | 1,519.67 | 43.33 | 36.072 | | |
| 5,000.00 | 4,855.28 | 4,787.66 | 4,780.84 | 25.99 | 21.09 | 174.62 | 457.34 | -99.91 | 1,593.10 | 1,548.95 | 44.14 | 36.088 | | |
| 5,100.00 | 4,951.92 | 4,883.02 | 4,876.07 | 26.53 | 21.50 | 174.62 | 461.81 | -102.22 | 1,623.19 | 1,578.17 | 45.03 | 36.049 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 31N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,978.39 | 4,971.30 | 27.06 | 21.92 | 174.62 | 466.27 | -104.54 | 1,653.29 | 1,607.38 | 45.91 | 36.012 | | |
| 5,300.00 | 5,145.19 | 5,073.75 | 5,066.53 | 27.60 | 22.34 | 174.62 | 470.74 | -106.85 | 1,683.39 | 1,636.60 | 46.79 | 35.975 | | |
| 5,400.00 | 5,241.83 | 5,169.11 | 5,161.76 | 28.14 | 22.75 | 174.62 | 475.20 | -109.16 | 1,713.49 | 1,665.81 | 47.68 | 35.940 | | |
| 5,500.00 | 5,338.47 | 5,264.47 | 5,256.99 | 28.67 | 23.17 | 174.62 | 479.67 | -111.47 | 1,743.59 | 1,695.03 | 48.56 | 35.905 | | |
| 5,600.00 | 5,435.11 | 5,359.84 | 5,352.22 | 29.21 | 23.59 | 174.62 | 484.13 | -113.79 | 1,773.69 | 1,724.24 | 49.45 | 35.871 | | |
| 5,700.00 | 5,531.74 | 5,455.20 | 5,447.45 | 29.75 | 24.00 | 174.62 | 488.60 | -116.10 | 1,803.79 | 1,753.45 | 50.33 | 35.839 | | |
| 5,800.00 | 5,628.38 | 5,550.56 | 5,542.68 | 30.29 | 24.42 | 174.61 | 493.06 | -118.41 | 1,833.88 | 1,782.67 | 51.22 | 35.807 | | |
| 5,900.00 | 5,725.02 | 5,645.93 | 5,637.91 | 30.83 | 24.84 | 174.61 | 497.53 | -120.72 | 1,863.98 | 1,811.88 | 52.10 | 35.776 | | |
| 6,000.00 | 5,821.66 | 5,741.29 | 5,733.14 | 31.37 | 25.25 | 174.61 | 501.99 | -123.04 | 1,894.08 | 1,841.09 | 52.99 | 35.746 | | |
| 6,100.00 | 5,918.29 | 5,836.65 | 5,828.37 | 31.90 | 25.67 | 174.61 | 506.46 | -125.35 | 1,924.18 | 1,870.31 | 53.87 | 35.717 | | |
| 6,200.00 | 6,014.93 | 5,932.01 | 5,923.60 | 32.44 | 26.09 | 174.61 | 510.92 | -127.66 | 1,954.28 | 1,899.52 | 54.76 | 35.688 | | |
| 6,300.00 | 6,111.57 | 6,027.38 | 6,018.83 | 32.98 | 26.51 | 174.61 | 515.39 | -129.97 | 1,984.38 | 1,928.73 | 55.65 | 35.660 | | |
| 6,400.00 | 6,208.21 | 6,122.74 | 6,114.06 | 33.52 | 26.92 | 174.61 | 519.85 | -132.29 | 2,014.48 | 1,957.94 | 56.53 | 35.633 | | |
| 6,500.00 | 6,304.84 | 6,218.10 | 6,209.29 | 34.06 | 27.34 | 174.61 | 524.32 | -134.60 | 2,044.57 | 1,987.15 | 57.42 | 35.607 | | |
| 6,600.00 | 6,401.37 | 6,313.41 | 6,304.46 | 34.60 | 27.76 | 156.48 | 528.78 | -136.91 | 2,074.66 | 2,016.35 | 58.31 | 35.581 | | |
| 6,700.00 | 6,496.25 | 6,407.42 | 6,398.34 | 35.12 | 28.17 | 131.63 | 533.18 | -139.19 | 2,104.47 | 2,045.29 | 59.18 | 35.561 | | |
| 6,800.00 | 6,587.15 | 6,504.07 | 6,494.73 | 35.59 | 28.60 | 117.32 | 537.68 | -143.95 | 2,133.55 | 2,073.49 | 60.06 | 35.522 | | |
| 6,900.00 | 6,671.83 | 6,609.64 | 6,598.09 | 36.03 | 29.06 | 108.63 | 542.41 | -164.32 | 2,161.16 | 2,100.14 | 61.02 | 35.418 | | |
| 7,000.00 | 6,748.21 | 6,722.68 | 6,703.39 | 36.41 | 29.56 | 102.92 | 547.09 | -204.73 | 2,186.55 | 2,124.51 | 62.05 | 35.241 | | |
| 7,100.00 | 6,814.41 | 6,844.36 | 6,806.84 | 36.76 | 30.13 | 99.02 | 551.53 | -268.28 | 2,209.00 | 2,145.81 | 63.19 | 34.959 | | |
| 7,200.00 | 6,868.79 | 6,975.34 | 6,902.54 | 37.07 | 30.81 | 96.33 | 555.44 | -357.30 | 2,227.77 | 2,163.23 | 64.54 | 34.517 | | |
| 7,300.00 | 6,910.01 | 7,115.33 | 6,982.41 | 37.39 | 31.74 | 94.52 | 558.43 | -471.88 | 2,242.18 | 2,175.93 | 66.25 | 33.842 | | |
| 7,400.00 | 6,937.07 | 7,262.52 | 7,037.35 | 37.76 | 33.03 | 93.40 | 560.10 | -608.07 | 2,251.64 | 2,183.16 | 68.48 | 32.879 | | |
| 7,500.00 | 6,949.29 | 7,413.52 | 7,059.79 | 38.27 | 34.72 | 92.85 | 560.16 | -757.03 | 2,255.73 | 2,184.48 | 71.25 | 31.658 | | |
| 7,600.00 | 6,949.75 | 7,524.00 | 7,058.61 | 39.02 | 36.18 | 92.77 | 559.36 | -867.49 | 2,255.74 | 2,181.84 | 73.90 | 30.523 | | |
| 7,700.00 | 6,949.37 | 7,623.99 | 7,056.86 | 40.05 | 37.67 | 92.73 | 558.61 | -967.47 | 2,255.52 | 2,178.77 | 76.75 | 29.389 | | |
| 7,800.00 | 6,948.99 | 7,723.98 | 7,055.11 | 41.35 | 39.30 | 92.70 | 557.86 | -1,067.44 | 2,255.30 | 2,175.40 | 79.90 | 28.228 | | |
| 7,900.00 | 6,948.61 | 7,823.97 | 7,053.36 | 42.86 | 41.08 | 92.66 | 557.11 | -1,167.41 | 2,255.08 | 2,171.76 | 83.32 | 27.065 | | |
| 8,000.00 | 6,948.23 | 7,923.96 | 7,051.61 | 44.53 | 42.97 | 92.63 | 556.35 | -1,267.38 | 2,254.87 | 2,167.88 | 86.98 | 25.923 | | |
| 8,100.00 | 6,947.85 | 8,023.96 | 7,049.86 | 46.34 | 44.96 | 92.59 | 555.60 | -1,367.36 | 2,254.65 | 2,163.79 | 90.86 | 24.815 | | |
| 8,200.00 | 6,947.47 | 8,123.95 | 7,048.11 | 48.26 | 47.04 | 92.56 | 554.85 | -1,467.33 | 2,254.44 | 2,159.52 | 94.92 | 23.752 | | |
| 8,300.00 | 6,947.09 | 8,223.94 | 7,046.36 | 50.28 | 49.20 | 92.52 | 554.09 | -1,567.30 | 2,254.22 | 2,155.08 | 99.14 | 22.738 | | |
| 8,400.00 | 6,946.72 | 8,323.93 | 7,044.61 | 52.39 | 51.43 | 92.49 | 553.34 | -1,667.27 | 2,254.01 | 2,150.50 | 103.51 | 21.777 | | |
| 8,500.00 | 6,946.34 | 8,423.92 | 7,042.86 | 54.56 | 53.72 | 92.46 | 552.59 | -1,767.25 | 2,253.79 | 2,145.80 | 108.00 | 20.869 | | |
| 8,600.00 | 6,945.96 | 8,523.91 | 7,041.11 | 56.80 | 56.06 | 92.42 | 551.84 | -1,867.22 | 2,253.58 | 2,140.98 | 112.60 | 20.014 | | |
| 8,700.00 | 6,945.58 | 8,623.90 | 7,039.36 | 59.10 | 58.44 | 92.39 | 551.08 | -1,967.19 | 2,253.37 | 2,136.07 | 117.30 | 19.211 | | |
| 8,800.00 | 6,945.20 | 8,723.89 | 7,037.61 | 61.44 | 60.87 | 92.35 | 550.33 | -2,067.16 | 2,253.16 | 2,131.07 | 122.08 | 18.456 | | |
| 8,900.00 | 6,944.82 | 8,823.88 | 7,035.87 | 63.83 | 63.33 | 92.32 | 549.58 | -2,167.14 | 2,252.95 | 2,126.00 | 126.95 | 17.747 | | |
| 9,000.00 | 6,944.44 | 8,923.87 | 7,034.12 | 66.25 | 65.83 | 92.28 | 548.83 | -2,267.11 | 2,252.74 | 2,120.86 | 131.88 | 17.082 | | |
| 9,100.00 | 6,944.06 | 9,023.86 | 7,032.37 | 68.71 | 68.35 | 92.25 | 548.07 | -2,367.08 | 2,252.53 | 2,115.66 | 136.87 | 16.457 | | |
| 9,200.00 | 6,943.68 | 9,123.85 | 7,030.62 | 71.20 | 70.90 | 92.21 | 547.32 | -2,467.05 | 2,252.32 | 2,110.41 | 141.92 | 15.871 | | |
| 9,300.00 | 6,943.30 | 9,223.84 | 7,028.87 | 73.72 | 73.47 | 92.18 | 546.57 | -2,567.02 | 2,252.12 | 2,105.11 | 147.01 | 15.319 | | |
| 9,400.00 | 6,942.92 | 9,323.83 | 7,027.12 | 76.26 | 76.06 | 92.14 | 545.82 | -2,667.00 | 2,251.91 | 2,099.76 | 152.15 | 14.800 | | |
| 9,500.00 | 6,942.54 | 9,423.82 | 7,025.37 | 78.82 | 78.67 | 92.11 | 545.06 | -2,766.97 | 2,251.71 | 2,094.38 | 157.33 | 14.312 | | |
| 9,600.00 | 6,942.16 | 9,523.81 | 7,023.62 | 81.40 | 81.30 | 92.07 | 544.31 | -2,866.94 | 2,251.50 | 2,088.96 | 162.55 | 13.852 | | |
| 9,700.00 | 6,941.78 | 9,623.80 | 7,021.87 | 84.00 | 83.94 | 92.04 | 543.56 | -2,966.91 | 2,251.30 | 2,083.51 | 167.79 | 13.417 | | |
| 9,800.00 | 6,941.40 | 9,723.79 | 7,020.12 | 86.62 | 86.60 | 92.00 | 542.81 | -3,066.89 | 2,251.10 | 2,078.03 | 173.07 | 13.007 | | |
| 9,900.00 | 6,941.03 | 9,823.78 | 7,018.37 | 89.25 | 89.26 | 91.97 | 542.05 | -3,166.86 | 2,250.90 | 2,072.52 | 178.37 | 12.619 | | |
| 10,000.00 | 6,940.65 | 9,923.77 | 7,016.62 | 91.90 | 91.94 | 91.93 | 541.30 | -3,266.83 | 2,250.70 | 2,066.99 | 183.70 | 12.252 | | |
| 10,100.00 | 6,940.27 | 10,023.77 | 7,014.87 | 94.56 | 94.63 | 91.90 | 540.55 | -3,366.80 | 2,250.50 | 2,061.44 | 189.05 | 11.904 | | |
| 10,200.00 | 6,939.89 | 10,123.76 | 7,013.12 | 97.23 | 97.33 | 91.87 | 539.80 | -3,466.78 | 2,250.30 | 2,055.87 | 194.43 | 11.574 | | |
| 10,300.00 | 6,939.51 | 10,223.75 | 7,011.37 | 99.91 | 100.04 | 91.83 | 539.04 | -3,566.75 | 2,250.10 | 2,050.28 | 199.82 | 11.261 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 31N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,323.74 | 7,009.62 | 102.60 | 102.76 | 91.80 | 538.29 | -3,666.72 | 2,249.90 | 2,044.67 | 205.23 | 10.963 | | |
| 10,500.00 | 6,938.75 | 10,423.73 | 7,007.88 | 105.30 | 105.48 | 91.76 | 537.54 | -3,766.69 | 2,249.71 | 2,039.05 | 210.65 | 10.680 | | |
| 10,600.00 | 6,938.37 | 10,523.72 | 7,006.13 | 108.00 | 108.21 | 91.73 | 536.79 | -3,866.67 | 2,249.51 | 2,033.42 | 216.09 | 10.410 | | |
| 10,700.00 | 6,937.99 | 10,623.71 | 7,004.38 | 110.72 | 110.95 | 91.69 | 536.03 | -3,966.64 | 2,249.31 | 2,027.77 | 221.55 | 10.153 | | |
| 10,800.00 | 6,937.61 | 10,723.70 | 7,002.63 | 113.44 | 113.69 | 91.66 | 535.28 | -4,066.61 | 2,249.12 | 2,022.11 | 227.02 | 9.907 | | |
| 10,900.00 | 6,937.23 | 10,823.69 | 7,000.88 | 116.17 | 116.44 | 91.62 | 534.53 | -4,166.58 | 2,248.93 | 2,016.43 | 232.49 | 9.673 | | |
| 11,000.00 | 6,936.85 | 10,923.68 | 6,999.13 | 118.90 | 119.20 | 91.59 | 533.78 | -4,266.55 | 2,248.73 | 2,010.75 | 237.99 | 9.449 | | |
| 11,100.00 | 6,936.47 | 11,023.67 | 6,997.38 | 121.64 | 121.95 | 91.55 | 533.02 | -4,366.53 | 2,248.54 | 2,005.06 | 243.49 | 9.235 | | |
| 11,200.00 | 6,936.09 | 11,123.66 | 6,995.63 | 124.39 | 124.72 | 91.52 | 532.27 | -4,466.50 | 2,248.35 | 1,999.36 | 249.00 | 9.030 | | |
| 11,300.00 | 6,935.71 | 11,223.65 | 6,993.88 | 127.14 | 127.48 | 91.48 | 531.52 | -4,566.47 | 2,248.16 | 1,993.65 | 254.52 | 8.833 | | |
| 11,400.00 | 6,935.34 | 11,323.64 | 6,992.13 | 129.90 | 130.26 | 91.45 | 530.77 | -4,666.44 | 2,247.97 | 1,987.93 | 260.04 | 8.645 | | |
| 11,500.00 | 6,934.96 | 11,423.63 | 6,990.38 | 132.66 | 133.03 | 91.41 | 530.01 | -4,766.42 | 2,247.79 | 1,982.20 | 265.58 | 8.464 | | |
| 11,600.00 | 6,934.58 | 11,523.62 | 6,988.63 | 135.42 | 135.81 | 91.38 | 529.26 | -4,866.39 | 2,247.60 | 1,976.47 | 271.13 | 8.290 | | |
| 11,700.00 | 6,934.20 | 11,623.61 | 6,986.88 | 138.19 | 138.59 | 91.34 | 528.51 | -4,966.36 | 2,247.41 | 1,970.73 | 276.68 | 8.123 | | |
| 11,800.00 | 6,933.82 | 11,723.60 | 6,985.13 | 140.96 | 141.37 | 91.31 | 527.76 | -5,066.33 | 2,247.23 | 1,964.99 | 282.23 | 7.962 | | |
| 11,900.00 | 6,933.44 | 11,823.59 | 6,983.38 | 143.74 | 144.16 | 91.27 | 527.00 | -5,166.31 | 2,247.04 | 1,959.24 | 287.80 | 7.808 | | |
| 12,000.00 | 6,933.06 | 11,923.58 | 6,981.63 | 146.51 | 146.95 | 91.24 | 526.25 | -5,266.28 | 2,246.86 | 1,953.49 | 293.37 | 7.659 | | |
| 12,100.00 | 6,932.68 | 12,023.58 | 6,979.89 | 149.30 | 149.74 | 91.20 | 525.50 | -5,366.25 | 2,246.67 | 1,947.73 | 298.94 | 7.515 | | |
| 12,200.00 | 6,932.30 | 12,123.57 | 6,978.14 | 152.08 | 152.54 | 91.17 | 524.75 | -5,466.22 | 2,246.49 | 1,941.97 | 304.52 | 7.377 | | |
| 12,300.00 | 6,931.92 | 12,223.56 | 6,976.39 | 154.87 | 155.34 | 91.13 | 523.99 | -5,566.20 | 2,246.31 | 1,936.20 | 310.11 | 7.244 | | |
| 12,400.00 | 6,931.54 | 12,323.55 | 6,974.64 | 157.66 | 158.14 | 91.10 | 523.24 | -5,666.17 | 2,246.13 | 1,930.43 | 315.70 | 7.115 | | |
| 12,500.00 | 6,931.16 | 12,423.54 | 6,972.89 | 160.45 | 160.94 | 91.06 | 522.49 | -5,766.14 | 2,245.95 | 1,924.65 | 321.29 | 6.990 | | |
| 12,600.00 | 6,930.78 | 12,523.53 | 6,971.14 | 163.24 | 163.74 | 91.03 | 521.73 | -5,866.11 | 2,245.77 | 1,918.88 | 326.89 | 6.870 | | |
| 12,700.00 | 6,930.40 | 12,623.52 | 6,969.39 | 166.04 | 166.55 | 91.00 | 520.98 | -5,966.09 | 2,245.59 | 1,913.09 | 332.50 | 6.754 | | |
| 12,800.00 | 6,930.03 | 12,723.51 | 6,967.64 | 168.84 | 169.35 | 90.96 | 520.23 | -6,066.06 | 2,245.41 | 1,907.31 | 338.10 | 6.641 | | |
| 12,900.00 | 6,929.65 | 12,823.50 | 6,965.89 | 171.64 | 172.16 | 90.93 | 519.48 | -6,166.03 | 2,245.24 | 1,901.52 | 343.71 | 6.532 | | |
| 13,000.00 | 6,929.27 | 12,923.49 | 6,964.14 | 174.44 | 174.97 | 90.89 | 518.72 | -6,266.00 | 2,245.06 | 1,895.73 | 349.33 | 6.427 | | |
| 13,100.00 | 6,928.89 | 13,023.48 | 6,962.39 | 177.24 | 177.78 | 90.86 | 517.97 | -6,365.97 | 2,244.89 | 1,889.94 | 354.95 | 6.325 | | |
| 13,200.00 | 6,928.51 | 13,123.47 | 6,960.64 | 180.05 | 180.60 | 90.82 | 517.22 | -6,465.95 | 2,244.71 | 1,884.15 | 360.57 | 6.226 | | |
| 13,300.00 | 6,928.13 | 13,223.46 | 6,958.89 | 182.86 | 183.41 | 90.79 | 516.47 | -6,565.92 | 2,244.54 | 1,878.35 | 366.19 | 6.129 | | |
| 13,400.00 | 6,927.75 | 13,323.45 | 6,957.14 | 185.67 | 186.23 | 90.75 | 515.71 | -6,665.89 | 2,244.37 | 1,872.55 | 371.82 | 6.036 | | |
| 13,500.00 | 6,927.37 | 13,423.44 | 6,955.39 | 188.48 | 189.05 | 90.72 | 514.96 | -6,765.86 | 2,244.19 | 1,866.75 | 377.44 | 5.946 | | |
| 13,600.00 | 6,926.99 | 13,523.43 | 6,953.64 | 191.29 | 191.86 | 90.68 | 514.21 | -6,865.84 | 2,244.02 | 1,860.95 | 383.08 | 5.858 | | |
| 13,700.00 | 6,926.61 | 13,623.42 | 6,951.90 | 194.10 | 194.68 | 90.65 | 513.46 | -6,965.81 | 2,243.85 | 1,855.14 | 388.71 | 5.773 | | |
| 13,800.00 | 6,926.23 | 13,723.41 | 6,950.15 | 196.92 | 197.50 | 90.61 | 512.70 | -7,065.78 | 2,243.68 | 1,849.34 | 394.35 | 5.690 | | |
| 13,900.00 | 6,925.85 | 13,823.40 | 6,948.40 | 199.73 | 200.33 | 90.58 | 511.95 | -7,165.75 | 2,243.52 | 1,843.53 | 399.98 | 5.609 | | |
| 14,000.00 | 6,925.47 | 13,923.39 | 6,946.65 | 202.55 | 203.15 | 90.54 | 511.20 | -7,265.73 | 2,243.35 | 1,837.72 | 405.62 | 5.531 | | |
| 14,100.00 | 6,925.09 | 14,023.39 | 6,944.90 | 205.37 | 205.97 | 90.51 | 510.45 | -7,365.70 | 2,243.18 | 1,831.92 | 411.27 | 5.454 | | |
| 14,200.00 | 6,924.71 | 14,123.38 | 6,943.15 | 208.19 | 208.80 | 90.47 | 509.69 | -7,465.67 | 2,243.02 | 1,826.10 | 416.91 | 5.380 | | |
| 14,300.00 | 6,924.34 | 14,223.37 | 6,941.40 | 211.01 | 211.62 | 90.44 | 508.94 | -7,565.64 | 2,242.85 | 1,820.29 | 422.56 | 5.308 | | |
| 14,400.00 | 6,923.96 | 14,323.36 | 6,939.65 | 213.83 | 214.45 | 90.40 | 508.19 | -7,665.62 | 2,242.69 | 1,814.48 | 428.21 | 5.237 | | |
| 14,500.00 | 6,923.58 | 14,423.35 | 6,937.90 | 216.65 | 217.28 | 90.37 | 507.44 | -7,765.59 | 2,242.52 | 1,808.67 | 433.86 | 5.169 | | |
| 14,600.00 | 6,923.20 | 14,523.34 | 6,936.15 | 219.48 | 220.10 | 90.33 | 506.68 | -7,865.56 | 2,242.36 | 1,802.85 | 439.51 | 5.102 | | |
| 14,700.00 | 6,922.82 | 14,623.33 | 6,934.40 | 222.30 | 222.93 | 90.30 | 505.93 | -7,965.53 | 2,242.20 | 1,797.04 | 445.16 | 5.037 | | |
| 14,800.00 | 6,922.44 | 14,723.32 | 6,932.65 | 225.13 | 225.76 | 90.26 | 505.18 | -8,065.50 | 2,242.04 | 1,791.22 | 450.82 | 4.973 | | |
| 14,898.02 | 6,922.07 | 14,817.75 | 6,931.00 | 227.90 | 228.43 | 90.23 | 504.47 | -8,159.92 | 2,241.89 | 1,785.64 | 456.25 | 4.914 | | |
| 14,900.00 | 6,922.06 | 14,817.75 | 6,931.00 | 227.95 | 228.43 | 90.23 | 504.47 | -8,159.92 | 2,241.89 | 1,785.59 | 456.30 | 4.913 | | |
| 14,915.55 | 6,922.00 | 14,817.75 | 6,931.00 | 228.39 | 228.43 | 90.23 | 504.47 | -8,159.92 | 2,241.95 | 1,785.26 | 456.69 | 4.909 SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | 0.53 | 60.11 | 0.56 | 60.12 | | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 3.28 | 3.28 | 0.53 | 60.11 | 0.56 | 60.12 | 53.55 | 6.57 | 9.151 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 3.34 | 3.34 | 0.53 | 60.11 | 0.56 | 60.12 | 53.44 | 6.67 | 9.008 | | |
| 300.00 | 299.98 | 302.12 | 302.10 | 3.44 | 3.44 | 175.07 | 58.31 | 0.30 | 60.09 | 53.20 | 6.89 | 8.717 | | |
| 400.00 | 399.84 | 404.25 | 404.07 | 3.59 | 3.60 | 174.82 | 52.91 | -0.46 | 60.01 | 52.78 | 7.22 | 8.307 | | |
| 500.00 | 499.45 | 506.36 | 505.78 | 3.79 | 3.81 | 174.40 | 43.91 | -1.73 | 59.87 | 52.21 | 7.66 | 7.817 | | |
| 600.00 | 598.70 | 608.47 | 607.08 | 4.03 | 4.08 | 173.81 | 31.33 | -3.51 | 59.69 | 51.50 | 8.18 | 7.294 | | |
| 670.12 | 668.01 | 680.05 | 677.81 | 4.23 | 4.31 | 173.30 | 20.38 | -5.06 | 59.53 | 50.93 | 8.59 | 6.927 CC, ES | | |
| 700.00 | 697.47 | 709.77 | 707.12 | 4.31 | 4.41 | 173.10 | 15.57 | -5.74 | 59.71 | 50.95 | 8.76 | 6.817 | | |
| 800.00 | 795.62 | 809.72 | 805.72 | 4.64 | 4.78 | 172.70 | -0.67 | -8.03 | 62.52 | 53.16 | 9.36 | 6.680 | | |
| 900.00 | 893.06 | 909.52 | 904.17 | 5.00 | 5.19 | 172.72 | -16.88 | -10.32 | 68.79 | 58.77 | 10.02 | 6.866 | | |
| 1,000.00 | 989.78 | 1,009.09 | 1,002.40 | 5.39 | 5.62 | 173.01 | -33.05 | -12.60 | 77.99 | 67.27 | 10.72 | 7.273 | | |
| 1,100.00 | 1,086.42 | 1,108.64 | 1,100.59 | 5.81 | 6.07 | 173.27 | -49.21 | -14.89 | 87.55 | 76.09 | 11.46 | 7.639 | | |
| 1,200.00 | 1,183.06 | 1,208.18 | 1,198.78 | 6.25 | 6.54 | 173.49 | -65.38 | -17.17 | 97.10 | 84.88 | 12.23 | 7.942 | | |
| 1,300.00 | 1,279.69 | 1,307.72 | 1,296.98 | 6.71 | 7.02 | 173.66 | -81.55 | -19.46 | 106.66 | 93.64 | 13.02 | 8.194 | | |
| 1,400.00 | 1,376.33 | 1,407.26 | 1,395.17 | 7.17 | 7.51 | 173.81 | -97.71 | -21.74 | 116.22 | 102.39 | 13.83 | 8.404 | | |
| 1,500.00 | 1,472.97 | 1,506.80 | 1,493.36 | 7.65 | 8.01 | 173.93 | -113.88 | -24.02 | 125.78 | 111.12 | 14.66 | 8.582 | | |
| 1,600.00 | 1,569.61 | 1,606.34 | 1,591.56 | 8.13 | 8.52 | 174.04 | -130.05 | -26.31 | 135.34 | 119.84 | 15.50 | 8.732 | | |
| 1,700.00 | 1,666.24 | 1,705.89 | 1,689.75 | 8.62 | 9.03 | 174.13 | -146.22 | -28.59 | 144.89 | 128.54 | 16.35 | 8.861 | | |
| 1,800.00 | 1,762.88 | 1,805.43 | 1,787.95 | 9.12 | 9.55 | 174.21 | -162.38 | -30.88 | 154.45 | 137.24 | 17.22 | 8.971 | | |
| 1,900.00 | 1,859.52 | 1,904.97 | 1,886.14 | 9.62 | 10.07 | 174.28 | -178.55 | -33.16 | 164.01 | 145.92 | 18.09 | 9.066 | | |
| 2,000.00 | 1,956.16 | 2,004.51 | 1,984.33 | 10.13 | 10.60 | 174.34 | -194.72 | -35.44 | 173.57 | 154.60 | 18.97 | 9.149 | | |
| 2,100.00 | 2,052.79 | 2,104.05 | 2,082.53 | 10.64 | 11.13 | 174.40 | -210.88 | -37.73 | 183.14 | 163.28 | 19.86 | 9.222 | | |
| 2,200.00 | 2,149.43 | 2,203.60 | 2,180.72 | 11.15 | 11.66 | 174.45 | -227.05 | -40.01 | 192.70 | 171.94 | 20.75 | 9.286 | | |
| 2,300.00 | 2,246.07 | 2,303.14 | 2,278.91 | 11.66 | 12.20 | 174.50 | -243.22 | -42.30 | 202.26 | 180.61 | 21.65 | 9.342 | | |
| 2,400.00 | 2,342.71 | 2,402.68 | 2,377.11 | 12.18 | 12.73 | 174.54 | -259.38 | -44.58 | 211.82 | 189.26 | 22.55 | 9.392 | | |
| 2,500.00 | 2,439.34 | 2,502.22 | 2,475.30 | 12.70 | 13.27 | 174.58 | -275.55 | -46.86 | 221.38 | 197.92 | 23.46 | 9.437 | | |
| 2,600.00 | 2,535.98 | 2,601.76 | 2,573.49 | 13.22 | 13.81 | 174.62 | -291.72 | -49.15 | 230.94 | 206.57 | 24.37 | 9.477 | | |
| 2,700.00 | 2,632.62 | 2,701.30 | 2,671.69 | 13.75 | 14.35 | 174.65 | -307.88 | -51.43 | 240.50 | 215.22 | 25.28 | 9.513 | | |
| 2,800.00 | 2,729.26 | 2,800.85 | 2,769.88 | 14.27 | 14.90 | 174.68 | -324.05 | -53.71 | 250.06 | 223.86 | 26.20 | 9.546 | | |
| 2,900.00 | 2,825.89 | 2,900.39 | 2,868.07 | 14.80 | 15.44 | 174.71 | -340.22 | -56.00 | 259.62 | 232.51 | 27.11 | 9.575 | | |
| 3,000.00 | 2,922.53 | 3,000.07 | 2,966.27 | 15.32 | 15.99 | 174.73 | -356.38 | -58.28 | 269.18 | 241.15 | 28.04 | 9.601 | | |
| 3,100.00 | 3,019.17 | 3,100.53 | 3,064.46 | 15.85 | 16.54 | 174.76 | -372.55 | -60.57 | 278.74 | 249.78 | 28.96 | 9.624 | | |
| 3,200.00 | 3,115.81 | 3,200.99 | 3,162.66 | 16.38 | 17.09 | 174.78 | -388.72 | -62.85 | 288.31 | 258.42 | 29.89 | 9.645 | | |
| 3,300.00 | 3,212.44 | 3,301.44 | 3,260.85 | 16.91 | 17.64 | 174.80 | -404.88 | -65.13 | 297.87 | 267.05 | 30.82 | 9.665 | | |
| 3,400.00 | 3,309.08 | 3,401.90 | 3,359.04 | 17.44 | 18.19 | 174.82 | -421.05 | -67.42 | 307.43 | 275.68 | 31.75 | 9.682 | | |
| 3,500.00 | 3,405.72 | 3,497.64 | 3,457.24 | 17.97 | 18.72 | 174.84 | -437.22 | -69.70 | 316.99 | 284.33 | 32.66 | 9.705 | | |
| 3,600.00 | 3,502.36 | 3,602.82 | 3,555.43 | 18.50 | 19.30 | 174.86 | -453.38 | -71.99 | 326.55 | 292.93 | 33.62 | 9.713 | | |
| 3,700.00 | 3,598.99 | 3,703.28 | 3,653.62 | 19.03 | 19.86 | 174.87 | -469.55 | -74.27 | 336.11 | 301.56 | 34.55 | 9.727 | | |
| 3,800.00 | 3,695.63 | 3,796.26 | 3,751.82 | 19.57 | 20.37 | 174.89 | -485.72 | -76.55 | 345.67 | 310.22 | 35.46 | 9.749 | | |
| 3,900.00 | 3,792.27 | 3,904.19 | 3,850.01 | 20.10 | 20.97 | 174.90 | -501.89 | -78.84 | 355.24 | 318.81 | 36.43 | 9.752 | | |
| 4,000.00 | 3,888.91 | 3,995.35 | 3,948.20 | 20.63 | 21.47 | 174.92 | -518.05 | -81.12 | 364.80 | 327.47 | 37.32 | 9.774 | | |
| 4,100.00 | 3,985.54 | 4,105.11 | 4,046.40 | 21.17 | 22.08 | 174.93 | -534.22 | -83.41 | 374.36 | 336.05 | 38.31 | 9.773 | | |
| 4,200.00 | 4,082.18 | 4,205.57 | 4,144.59 | 21.70 | 22.64 | 174.94 | -550.39 | -85.69 | 383.92 | 344.67 | 39.25 | 9.782 | | |
| 4,300.00 | 4,178.82 | 4,306.03 | 4,242.79 | 22.24 | 23.20 | 174.95 | -566.55 | -87.97 | 393.48 | 353.30 | 40.19 | 9.791 | | |
| 4,400.00 | 4,275.46 | 4,393.52 | 4,340.98 | 22.77 | 23.68 | 174.97 | -582.72 | -90.26 | 403.04 | 361.97 | 41.07 | 9.814 | | |
| 4,500.00 | 4,372.09 | 4,506.94 | 4,439.17 | 23.31 | 24.31 | 174.98 | -598.89 | -92.54 | 412.61 | 370.54 | 42.07 | 9.807 | | |
| 4,600.00 | 4,468.73 | 4,592.60 | 4,537.37 | 23.84 | 24.79 | 174.99 | -615.05 | -94.83 | 422.17 | 379.22 | 42.95 | 9.830 | | |
| 4,700.00 | 4,565.37 | 4,692.14 | 4,635.56 | 24.38 | 25.34 | 175.00 | -631.22 | -97.11 | 431.73 | 387.84 | 43.89 | 9.838 | | |
| 4,800.00 | 4,662.01 | 4,808.32 | 4,733.75 | 24.91 | 25.99 | 175.01 | -647.39 | -99.39 | 441.29 | 396.39 | 44.90 | 9.828 | | |
| 4,900.00 | 4,758.64 | 4,891.22 | 4,831.95 | 25.45 | 26.45 | 175.01 | -663.55 | -101.68 | 450.85 | 405.09 | 45.77 | 9.851 | | |
| 5,000.00 | 4,855.28 | 5,009.23 | 4,930.14 | 25.99 | 27.11 | 175.02 | -679.72 | -103.96 | 460.41 | 413.62 | 46.79 | 9.840 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 5,109.69 | 5,028.33 | 26.53 | 27.66 | 175.03 | -695.89 | -106.24 | 469.98 | 422.24 | 47.74 | 9.845 | | |
| 5,200.00 | 5,048.56 | 5,189.85 | 5,126.53 | 27.06 | 28.11 | 175.04 | -712.05 | -108.53 | 479.54 | 430.95 | 48.59 | 9.869 | | |
| 5,300.00 | 5,145.19 | 5,289.39 | 5,224.72 | 27.60 | 28.67 | 175.05 | -728.22 | -110.81 | 489.10 | 439.57 | 49.53 | 9.875 | | |
| 5,400.00 | 5,241.83 | 5,388.93 | 5,322.92 | 28.14 | 29.22 | 175.06 | -744.39 | -113.10 | 498.66 | 448.19 | 50.47 | 9.880 | | |
| 5,500.00 | 5,338.47 | 5,488.48 | 5,421.11 | 28.67 | 29.77 | 175.06 | -760.55 | -115.38 | 508.22 | 456.81 | 51.42 | 9.885 | | |
| 5,600.00 | 5,435.11 | 5,588.02 | 5,519.30 | 29.21 | 30.33 | 175.07 | -776.72 | -117.66 | 517.79 | 465.43 | 52.36 | 9.889 | | |
| 5,700.00 | 5,531.74 | 5,687.56 | 5,617.50 | 29.75 | 30.88 | 175.08 | -792.89 | -119.95 | 527.35 | 474.05 | 53.30 | 9.894 | | |
| 5,800.00 | 5,628.38 | 5,787.10 | 5,715.69 | 30.29 | 31.44 | 175.08 | -809.05 | -122.23 | 536.91 | 482.66 | 54.24 | 9.898 | | |
| 5,900.00 | 5,725.02 | 5,886.64 | 5,813.88 | 30.83 | 32.00 | 175.09 | -825.22 | -124.52 | 546.47 | 491.28 | 55.19 | 9.902 | | |
| 6,000.00 | 5,821.66 | 5,986.18 | 5,912.08 | 31.37 | 32.55 | 175.09 | -841.39 | -126.80 | 556.03 | 499.90 | 56.13 | 9.906 | | |
| 6,100.00 | 5,918.29 | 6,085.73 | 6,010.27 | 31.90 | 33.11 | 175.10 | -857.56 | -129.08 | 565.59 | 508.52 | 57.08 | 9.909 | | |
| 6,200.00 | 6,014.93 | 6,185.27 | 6,108.46 | 32.44 | 33.66 | 175.11 | -873.72 | -131.37 | 575.16 | 517.13 | 58.02 | 9.913 | | |
| 6,300.00 | 6,111.57 | 6,284.81 | 6,206.66 | 32.98 | 34.22 | 175.11 | -889.89 | -133.65 | 584.72 | 525.75 | 58.97 | 9.916 | | |
| 6,400.00 | 6,208.21 | 6,384.35 | 6,304.85 | 33.52 | 34.77 | 175.12 | -906.06 | -135.94 | 594.28 | 534.37 | 59.91 | 9.919 | | |
| 6,500.00 | 6,304.84 | 6,483.89 | 6,403.05 | 34.06 | 35.33 | 175.12 | -922.22 | -138.22 | 603.84 | 542.98 | 60.86 | 9.922 | | |
| 6,600.00 | 6,401.37 | 6,583.37 | 6,501.18 | 34.60 | 35.88 | 158.17 | -938.38 | -140.50 | 613.43 | 551.63 | 61.79 | 9.927 | | |
| 6,700.00 | 6,496.25 | 6,681.49 | 6,597.97 | 35.12 | 36.43 | 136.25 | -954.32 | -142.75 | 623.32 | 560.64 | 62.68 | 9.945 | | |
| 6,800.00 | 6,587.15 | 6,781.66 | 6,696.59 | 35.59 | 37.00 | 125.44 | -970.57 | -148.33 | 634.18 | 570.62 | 63.56 | 9.978 | | |
| 6,900.00 | 6,671.83 | 6,888.90 | 6,799.97 | 36.03 | 37.60 | 120.06 | -987.73 | -170.54 | 645.69 | 581.21 | 64.49 | 10.013 | | |
| 7,000.00 | 6,748.21 | 7,002.38 | 6,903.67 | 36.41 | 38.23 | 117.35 | -1,005.07 | -212.81 | 657.31 | 591.93 | 65.38 | 10.053 | | |
| 7,100.00 | 6,814.41 | 7,122.60 | 7,003.60 | 36.76 | 38.89 | 116.04 | -1,021.94 | -277.15 | 668.44 | 602.19 | 66.24 | 10.091 | | |
| 7,200.00 | 6,868.79 | 7,249.72 | 7,094.28 | 37.07 | 39.60 | 115.49 | -1,037.44 | -364.58 | 678.37 | 611.20 | 67.16 | 10.100 | | |
| 7,300.00 | 6,910.01 | 7,383.28 | 7,169.09 | 37.39 | 40.43 | 115.32 | -1,050.48 | -474.16 | 686.38 | 617.93 | 68.46 | 10.027 | | |
| 7,400.00 | 6,937.07 | 7,522.03 | 7,221.18 | 37.76 | 41.49 | 115.29 | -1,059.91 | -602.12 | 691.83 | 621.32 | 70.51 | 9.812 | | |
| 7,500.00 | 6,949.29 | 7,663.90 | 7,244.91 | 38.27 | 42.90 | 115.26 | -1,064.75 | -741.60 | 694.23 | 620.62 | 73.61 | 9.431 | | |
| 7,600.00 | 6,949.75 | 7,776.19 | 7,245.63 | 39.02 | 44.31 | 115.22 | -1,065.62 | -853.86 | 694.27 | 617.57 | 76.71 | 9.051 | | |
| 7,700.00 | 6,949.37 | 7,876.19 | 7,245.10 | 40.05 | 45.82 | 115.21 | -1,066.20 | -953.86 | 694.22 | 614.45 | 79.77 | 8.703 | | |
| 7,800.00 | 6,948.99 | 7,976.19 | 7,244.57 | 41.35 | 47.55 | 115.20 | -1,066.79 | -1,053.86 | 694.17 | 611.07 | 83.10 | 8.353 | | |
| 7,900.00 | 6,948.61 | 8,076.19 | 7,244.04 | 42.86 | 49.48 | 115.19 | -1,067.37 | -1,153.85 | 694.12 | 607.44 | 86.68 | 8.008 | | |
| 8,000.00 | 6,948.23 | 8,176.19 | 7,243.51 | 44.53 | 51.58 | 115.18 | -1,067.96 | -1,253.85 | 694.07 | 603.60 | 90.47 | 7.672 | | |
| 8,100.00 | 6,947.85 | 8,276.19 | 7,242.98 | 46.34 | 53.83 | 115.17 | -1,068.54 | -1,353.85 | 694.02 | 599.58 | 94.44 | 7.348 | | |
| 8,200.00 | 6,947.47 | 8,376.19 | 7,242.45 | 48.26 | 56.21 | 115.15 | -1,069.13 | -1,453.84 | 693.97 | 595.39 | 98.58 | 7.039 | | |
| 8,300.00 | 6,947.09 | 8,476.19 | 7,241.93 | 50.28 | 58.68 | 115.14 | -1,069.71 | -1,553.84 | 693.92 | 591.05 | 102.87 | 6.746 | | |
| 8,400.00 | 6,946.72 | 8,576.19 | 7,241.40 | 52.39 | 61.26 | 115.13 | -1,070.29 | -1,653.84 | 693.87 | 586.59 | 107.28 | 6.468 | | |
| 8,500.00 | 6,946.34 | 8,676.19 | 7,240.87 | 54.56 | 63.90 | 115.12 | -1,070.88 | -1,753.84 | 693.82 | 582.01 | 111.81 | 6.205 | | |
| 8,600.00 | 6,945.96 | 8,776.19 | 7,240.34 | 56.80 | 66.62 | 115.11 | -1,071.46 | -1,853.83 | 693.77 | 577.33 | 116.44 | 5.958 | | |
| 8,700.00 | 6,945.58 | 8,876.19 | 7,239.81 | 59.10 | 69.39 | 115.10 | -1,072.05 | -1,953.83 | 693.72 | 572.57 | 121.15 | 5.726 | | |
| 8,800.00 | 6,945.20 | 8,976.19 | 7,239.28 | 61.44 | 72.22 | 115.08 | -1,072.63 | -2,053.83 | 693.67 | 567.72 | 125.94 | 5.508 | | |
| 8,900.00 | 6,944.82 | 9,076.19 | 7,238.75 | 63.83 | 75.09 | 115.07 | -1,073.22 | -2,153.82 | 693.62 | 562.81 | 130.81 | 5.303 | | |
| 9,000.00 | 6,944.44 | 9,176.19 | 7,238.22 | 66.25 | 78.00 | 115.06 | -1,073.80 | -2,253.82 | 693.57 | 557.83 | 135.74 | 5.110 | | |
| 9,100.00 | 6,944.06 | 9,276.19 | 7,237.70 | 68.71 | 80.94 | 115.05 | -1,074.39 | -2,353.82 | 693.52 | 552.80 | 140.72 | 4.928 | | |
| 9,200.00 | 6,943.68 | 9,376.19 | 7,237.17 | 71.20 | 83.91 | 115.04 | -1,074.97 | -2,453.81 | 693.47 | 547.71 | 145.75 | 4.758 | | |
| 9,300.00 | 6,943.30 | 9,476.19 | 7,236.64 | 73.72 | 86.91 | 115.03 | -1,075.55 | -2,553.81 | 693.42 | 542.58 | 150.84 | 4.597 | | |
| 9,400.00 | 6,942.92 | 9,576.19 | 7,236.11 | 76.26 | 89.94 | 115.01 | -1,076.14 | -2,653.81 | 693.37 | 537.41 | 155.96 | 4.446 | | |
| 9,500.00 | 6,942.54 | 9,676.19 | 7,235.58 | 78.82 | 92.99 | 115.00 | -1,076.72 | -2,753.80 | 693.32 | 532.20 | 161.12 | 4.303 | | |
| 9,600.00 | 6,942.16 | 9,776.19 | 7,235.05 | 81.40 | 96.06 | 114.99 | -1,077.31 | -2,853.80 | 693.27 | 526.95 | 166.31 | 4.168 | | |
| 9,700.00 | 6,941.78 | 9,876.19 | 7,234.52 | 84.00 | 99.14 | 114.98 | -1,077.89 | -2,953.80 | 693.22 | 521.68 | 171.54 | 4.041 | | |
| 9,800.00 | 6,941.40 | 9,976.19 | 7,233.99 | 86.62 | 102.24 | 114.97 | -1,078.48 | -3,053.79 | 693.17 | 516.37 | 176.79 | 3.921 | | |
| 9,900.00 | 6,941.03 | 10,076.19 | 7,233.47 | 89.25 | 105.36 | 114.96 | -1,079.06 | -3,153.79 | 693.12 | 511.04 | 182.07 | 3.807 | | |
| 10,000.00 | 6,940.65 | 10,176.19 | 7,232.94 | 91.90 | 108.49 | 114.94 | -1,079.64 | -3,253.79 | 693.07 | 505.69 | 187.38 | 3.699 | | |
| 10,100.00 | 6,940.27 | 10,276.19 | 7,232.41 | 94.56 | 111.63 | 114.93 | -1,080.23 | -3,353.78 | 693.02 | 500.31 | 192.70 | 3.596 | | |
| 10,200.00 | 6,939.89 | 10,376.19 | 7,231.88 | 97.23 | 114.78 | 114.92 | -1,080.81 | -3,453.78 | 692.97 | 494.92 | 198.05 | 3.499 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32C-16-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 10,476.19 | 7,231.35 | 99.91 | 117.94 | 114.91 | -1,081.40 | -3,553.78 | 692.92 | 489.50 | 203.42 | 3.406 | | |
| 10,400.00 | 6,939.13 | 10,576.19 | 7,230.82 | 102.60 | 121.12 | 114.90 | -1,081.98 | -3,653.77 | 692.87 | 484.07 | 208.80 | 3.318 | | |
| 10,500.00 | 6,938.75 | 10,676.19 | 7,230.29 | 105.30 | 124.30 | 114.89 | -1,082.57 | -3,753.77 | 692.82 | 478.62 | 214.20 | 3.234 | | |
| 10,600.00 | 6,938.37 | 10,776.18 | 7,229.76 | 108.00 | 127.49 | 114.87 | -1,083.15 | -3,853.77 | 692.77 | 473.15 | 219.61 | 3.154 | | |
| 10,700.00 | 6,937.99 | 10,876.18 | 7,229.24 | 110.72 | 130.68 | 114.86 | -1,083.74 | -3,953.76 | 692.72 | 467.67 | 225.04 | 3.078 | | |
| 10,800.00 | 6,937.61 | 10,976.18 | 7,228.71 | 113.44 | 133.88 | 114.85 | -1,084.32 | -4,053.76 | 692.67 | 462.18 | 230.49 | 3.005 | | |
| 10,900.00 | 6,937.23 | 11,076.18 | 7,228.18 | 116.17 | 137.09 | 114.84 | -1,084.90 | -4,153.76 | 692.62 | 456.67 | 235.94 | 2.936 | | |
| 11,000.00 | 6,936.85 | 11,176.18 | 7,227.65 | 118.90 | 140.31 | 114.83 | -1,085.49 | -4,253.75 | 692.57 | 451.16 | 241.41 | 2.869 | | |
| 11,100.00 | 6,936.47 | 11,276.18 | 7,227.12 | 121.64 | 143.53 | 114.82 | -1,086.07 | -4,353.75 | 692.52 | 445.63 | 246.89 | 2.805 | | |
| 11,200.00 | 6,936.09 | 11,376.18 | 7,226.59 | 124.39 | 146.76 | 114.80 | -1,086.66 | -4,453.75 | 692.47 | 440.09 | 252.37 | 2.744 | | |
| 11,300.00 | 6,935.71 | 11,476.18 | 7,226.06 | 127.14 | 149.99 | 114.79 | -1,087.24 | -4,553.75 | 692.42 | 434.55 | 257.87 | 2.685 | | |
| 11,400.00 | 6,935.34 | 11,576.18 | 7,225.54 | 129.90 | 153.22 | 114.78 | -1,087.83 | -4,653.74 | 692.37 | 428.99 | 263.38 | 2.629 | | |
| 11,500.00 | 6,934.96 | 11,676.18 | 7,225.01 | 132.66 | 156.46 | 114.77 | -1,088.41 | -4,753.74 | 692.32 | 423.42 | 268.89 | 2.575 | | |
| 11,600.00 | 6,934.58 | 11,776.18 | 7,224.48 | 135.42 | 159.70 | 114.76 | -1,088.99 | -4,853.74 | 692.27 | 417.85 | 274.42 | 2.523 | | |
| 11,700.00 | 6,934.20 | 11,876.18 | 7,223.95 | 138.19 | 162.95 | 114.75 | -1,089.58 | -4,953.73 | 692.22 | 412.27 | 279.95 | 2.473 | | |
| 11,800.00 | 6,933.82 | 11,976.18 | 7,223.42 | 140.96 | 166.20 | 114.73 | -1,090.16 | -5,053.73 | 692.17 | 406.68 | 285.49 | 2.425 | | |
| 11,900.00 | 6,933.44 | 12,076.18 | 7,222.89 | 143.74 | 169.45 | 114.72 | -1,090.75 | -5,153.73 | 692.12 | 401.09 | 291.03 | 2.378 | | |
| 12,000.00 | 6,933.06 | 12,176.18 | 7,222.36 | 146.51 | 172.71 | 114.71 | -1,091.33 | -5,253.72 | 692.07 | 395.48 | 296.59 | 2.333 | | |
| 12,100.00 | 6,932.68 | 12,276.18 | 7,221.83 | 149.30 | 175.97 | 114.70 | -1,091.92 | -5,353.72 | 692.02 | 389.88 | 302.14 | 2.290 | | |
| 12,200.00 | 6,932.30 | 12,376.18 | 7,221.31 | 152.08 | 179.23 | 114.69 | -1,092.50 | -5,453.72 | 691.97 | 384.26 | 307.71 | 2.249 | | |
| 12,300.00 | 6,931.92 | 12,476.18 | 7,220.78 | 154.87 | 182.50 | 114.68 | -1,093.08 | -5,553.71 | 691.92 | 378.64 | 313.28 | 2.209 | | |
| 12,400.00 | 6,931.54 | 12,576.18 | 7,220.25 | 157.66 | 185.77 | 114.66 | -1,093.67 | -5,653.71 | 691.87 | 373.02 | 318.86 | 2.170 | | |
| 12,500.00 | 6,931.16 | 12,676.18 | 7,219.72 | 160.45 | 189.04 | 114.65 | -1,094.25 | -5,753.71 | 691.82 | 367.39 | 324.44 | 2.132 | | |
| 12,600.00 | 6,930.78 | 12,776.18 | 7,219.19 | 163.24 | 192.31 | 114.64 | -1,094.84 | -5,853.70 | 691.77 | 361.75 | 330.02 | 2.096 | | |
| 12,700.00 | 6,930.40 | 12,876.18 | 7,218.66 | 166.04 | 195.58 | 114.63 | -1,095.42 | -5,953.70 | 691.72 | 356.11 | 335.61 | 2.061 | | |
| 12,800.00 | 6,930.03 | 12,976.18 | 7,218.13 | 168.84 | 198.86 | 114.62 | -1,096.01 | -6,053.70 | 691.68 | 350.46 | 341.21 | 2.027 | | |
| 12,900.00 | 6,929.65 | 13,076.18 | 7,217.60 | 171.64 | 202.14 | 114.60 | -1,096.59 | -6,153.69 | 691.63 | 344.81 | 346.81 | 1.994 | | |
| 13,000.00 | 6,929.27 | 13,176.18 | 7,217.08 | 174.44 | 205.42 | 114.59 | -1,097.18 | -6,253.69 | 691.58 | 339.16 | 352.42 | 1.962 | | |
| 13,100.00 | 6,928.89 | 13,276.18 | 7,216.55 | 177.24 | 208.70 | 114.58 | -1,097.76 | -6,353.69 | 691.53 | 333.50 | 358.02 | 1.932 | | |
| 13,200.00 | 6,928.51 | 13,376.18 | 7,216.02 | 180.05 | 211.98 | 114.57 | -1,098.34 | -6,453.68 | 691.48 | 327.84 | 363.64 | 1.902 | | |
| 13,300.00 | 6,928.13 | 13,476.18 | 7,215.49 | 182.86 | 215.27 | 114.56 | -1,098.93 | -6,553.68 | 691.43 | 322.17 | 369.25 | 1.872 | | |
| 13,400.00 | 6,927.75 | 13,576.18 | 7,214.96 | 185.67 | 218.55 | 114.55 | -1,099.51 | -6,653.68 | 691.38 | 316.50 | 374.88 | 1.844 | | |
| 13,500.00 | 6,927.37 | 13,676.18 | 7,214.43 | 188.48 | 221.84 | 114.53 | -1,100.10 | -6,753.67 | 691.33 | 310.83 | 380.50 | 1.817 | | |
| 13,600.00 | 6,926.99 | 13,776.18 | 7,213.90 | 191.29 | 225.13 | 114.52 | -1,100.68 | -6,853.67 | 691.28 | 305.15 | 386.13 | 1.790 | | |
| 13,700.00 | 6,926.61 | 13,876.18 | 7,213.37 | 194.10 | 228.42 | 114.51 | -1,101.27 | -6,953.67 | 691.23 | 299.47 | 391.76 | 1.764 | | |
| 13,800.00 | 6,926.23 | 13,976.18 | 7,212.85 | 196.92 | 231.71 | 114.50 | -1,101.85 | -7,053.66 | 691.18 | 293.79 | 397.39 | 1.739 | | |
| 13,900.00 | 6,925.85 | 14,076.18 | 7,212.32 | 199.73 | 235.00 | 114.49 | -1,102.43 | -7,153.66 | 691.14 | 288.10 | 403.03 | 1.715 | | |
| 14,000.00 | 6,925.47 | 14,176.18 | 7,211.79 | 202.55 | 238.30 | 114.48 | -1,103.02 | -7,253.66 | 691.09 | 282.41 | 408.67 | 1.691 | | |
| 14,100.00 | 6,925.09 | 14,276.18 | 7,211.26 | 205.37 | 241.59 | 114.46 | -1,103.60 | -7,353.66 | 691.04 | 276.72 | 414.32 | 1.668 | | |
| 14,200.00 | 6,924.71 | 14,376.18 | 7,210.73 | 208.19 | 244.89 | 114.45 | -1,104.19 | -7,453.65 | 690.99 | 271.03 | 419.96 | 1.645 | | |
| 14,300.00 | 6,924.34 | 14,476.18 | 7,210.20 | 211.01 | 248.18 | 114.44 | -1,104.77 | -7,553.65 | 690.94 | 265.33 | 425.61 | 1.623 | | |
| 14,400.00 | 6,923.96 | 14,576.18 | 7,209.67 | 213.83 | 251.48 | 114.43 | -1,105.36 | -7,653.65 | 690.89 | 259.63 | 431.26 | 1.602 | | |
| 14,500.00 | 6,923.58 | 14,676.18 | 7,209.15 | 216.65 | 254.78 | 114.42 | -1,105.94 | -7,753.64 | 690.84 | 253.92 | 436.92 | 1.581 | | |
| 14,600.00 | 6,923.20 | 14,776.18 | 7,208.62 | 219.48 | 258.08 | 114.40 | -1,106.53 | -7,853.64 | 690.79 | 248.22 | 442.58 | 1.561 | | |
| 14,700.00 | 6,922.82 | 14,876.18 | 7,208.09 | 222.30 | 261.38 | 114.39 | -1,107.11 | -7,953.64 | 690.74 | 242.51 | 448.24 | 1.541 | | |
| 14,800.00 | 6,922.44 | 14,976.18 | 7,207.56 | 225.13 | 264.68 | 114.38 | -1,107.69 | -8,053.63 | 690.70 | 236.80 | 453.90 | 1.522 | | |
| 14,900.00 | 6,922.06 | 15,076.18 | 7,207.03 | 227.95 | 267.99 | 114.37 | -1,108.28 | -8,153.63 | 690.65 | 231.08 | 459.56 | 1.503 | | |
| 14,909.84 | 6,922.02 | 15,086.02 | 7,206.98 | 228.23 | 268.31 | 114.37 | -1,108.34 | -8,163.47 | 690.64 | 230.52 | 460.12 | 1.501 SF | | |
| 14,915.55 | 6,922.00 | 15,081.89 | 7,207.00 | 228.39 | 268.17 | 114.37 | -1,108.31 | -8,159.34 | 690.71 | 230.87 | 459.84 | 1.502 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32C-16-M2 - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.44 | 179.97 | 1.39 | 179.98 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.44 | 179.97 | 1.39 | 179.98 | 173.41 | 6.57 | 27.395 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.44 | 179.97 | 1.39 | 179.98 | 173.30 | 6.67 | 26.963 | CC, ES | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.11 | 179.97 | 1.39 | 181.71 | 174.83 | 6.89 | 26.388 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.23 | 179.97 | 1.39 | 186.93 | 179.73 | 7.20 | 25.973 | | |
| 500.00 | 499.45 | 500.48 | 499.48 | 3.79 | 3.81 | 175.43 | 179.97 | 1.39 | 195.62 | 188.02 | 7.60 | 25.741 | | |
| 600.00 | 598.70 | 607.08 | 606.05 | 4.03 | 4.05 | 175.54 | 178.07 | 0.77 | 205.99 | 197.90 | 8.09 | 25.464 | | |
| 700.00 | 697.47 | 714.08 | 712.88 | 4.31 | 4.33 | 175.40 | 172.37 | -1.10 | 216.28 | 207.62 | 8.65 | 24.994 | | |
| 800.00 | 795.62 | 814.18 | 812.68 | 4.64 | 4.61 | 175.18 | 164.93 | -3.54 | 227.91 | 218.66 | 9.25 | 24.647 | | |
| 900.00 | 893.06 | 913.03 | 911.22 | 5.00 | 4.91 | 175.04 | 157.56 | -5.96 | 242.97 | 233.08 | 9.89 | 24.573 | | |
| 1,000.00 | 989.78 | 1,011.40 | 1,009.29 | 5.39 | 5.24 | 174.99 | 150.23 | -8.37 | 260.95 | 250.38 | 10.57 | 24.689 | | |
| 1,100.00 | 1,086.42 | 1,109.71 | 1,107.29 | 5.81 | 5.58 | 174.96 | 142.90 | -10.77 | 279.27 | 267.99 | 11.28 | 24.763 | | |
| 1,200.00 | 1,183.06 | 1,208.02 | 1,205.30 | 6.25 | 5.93 | 174.93 | 135.57 | -13.18 | 297.59 | 285.58 | 12.02 | 24.768 | | |
| 1,300.00 | 1,279.69 | 1,306.33 | 1,303.30 | 6.71 | 6.30 | 174.91 | 128.24 | -15.58 | 315.91 | 303.14 | 12.78 | 24.726 | | |
| 1,400.00 | 1,376.33 | 1,404.63 | 1,401.31 | 7.17 | 6.67 | 174.89 | 120.91 | -17.99 | 334.23 | 320.68 | 13.56 | 24.652 | | |
| 1,500.00 | 1,472.97 | 1,502.94 | 1,499.31 | 7.65 | 7.06 | 174.88 | 113.58 | -20.39 | 352.56 | 338.20 | 14.36 | 24.558 | | |
| 1,600.00 | 1,569.61 | 1,601.25 | 1,597.31 | 8.13 | 7.45 | 174.86 | 106.25 | -22.80 | 370.88 | 355.71 | 15.17 | 24.450 | | |
| 1,700.00 | 1,666.24 | 1,700.45 | 1,695.32 | 8.62 | 7.85 | 174.85 | 98.92 | -25.20 | 389.20 | 373.20 | 16.00 | 24.331 | | |
| 1,800.00 | 1,762.88 | 1,797.86 | 1,793.32 | 9.12 | 8.24 | 174.83 | 91.60 | -27.60 | 407.52 | 390.70 | 16.83 | 24.218 | | |
| 1,900.00 | 1,859.52 | 1,903.83 | 1,891.33 | 9.62 | 8.68 | 174.82 | 84.27 | -30.01 | 425.85 | 408.14 | 17.70 | 24.057 | | |
| 2,000.00 | 1,956.16 | 2,005.52 | 1,989.33 | 10.13 | 9.10 | 174.81 | 76.94 | -32.41 | 444.17 | 425.60 | 18.57 | 23.923 | | |
| 2,100.00 | 2,052.79 | 2,107.22 | 2,087.33 | 10.64 | 9.53 | 174.80 | 69.61 | -34.82 | 462.49 | 443.05 | 19.44 | 23.793 | | |
| 2,200.00 | 2,149.43 | 2,208.91 | 2,185.34 | 11.15 | 9.96 | 174.79 | 62.28 | -37.22 | 480.81 | 460.50 | 20.32 | 23.667 | | |
| 2,300.00 | 2,246.07 | 2,289.40 | 2,283.34 | 11.66 | 10.30 | 174.78 | 54.95 | -39.63 | 499.13 | 478.03 | 21.11 | 23.645 | | |
| 2,400.00 | 2,342.71 | 2,387.70 | 2,381.35 | 12.18 | 10.72 | 174.78 | 47.62 | -42.03 | 517.46 | 495.48 | 21.98 | 23.541 | | |
| 2,500.00 | 2,439.34 | 2,486.01 | 2,479.35 | 12.70 | 11.14 | 174.77 | 40.29 | -44.44 | 535.78 | 512.92 | 22.86 | 23.440 | | |
| 2,600.00 | 2,535.98 | 2,584.32 | 2,577.35 | 13.22 | 11.57 | 174.76 | 32.96 | -46.84 | 554.10 | 530.36 | 23.74 | 23.343 | | |
| 2,700.00 | 2,632.62 | 2,682.63 | 2,675.36 | 13.75 | 11.99 | 174.76 | 25.63 | -49.25 | 572.42 | 547.80 | 24.62 | 23.250 | | |
| 2,800.00 | 2,729.26 | 2,780.93 | 2,773.36 | 14.27 | 12.42 | 174.75 | 18.30 | -51.65 | 590.75 | 565.24 | 25.51 | 23.161 | | |
| 2,900.00 | 2,825.89 | 2,879.24 | 2,871.37 | 14.80 | 12.84 | 174.74 | 10.98 | -54.05 | 609.07 | 582.67 | 26.39 | 23.076 | | |
| 3,000.00 | 2,922.53 | 2,977.55 | 2,969.37 | 15.32 | 13.27 | 174.74 | 3.65 | -56.46 | 627.39 | 600.11 | 27.28 | 22.994 | | |
| 3,100.00 | 3,019.17 | 3,075.85 | 3,067.37 | 15.85 | 13.70 | 174.73 | -3.68 | -58.86 | 645.71 | 617.54 | 28.18 | 22.916 | | |
| 3,200.00 | 3,115.81 | 3,174.16 | 3,165.38 | 16.38 | 14.13 | 174.73 | -11.01 | -61.27 | 664.04 | 634.96 | 29.07 | 22.842 | | |
| 3,300.00 | 3,212.44 | 3,272.47 | 3,263.38 | 16.91 | 14.56 | 174.72 | -18.34 | -63.67 | 682.36 | 652.39 | 29.97 | 22.770 | | |
| 3,400.00 | 3,309.08 | 3,370.77 | 3,361.39 | 17.44 | 14.99 | 174.72 | -25.67 | -66.08 | 700.68 | 669.82 | 30.86 | 22.702 | | |
| 3,500.00 | 3,405.72 | 3,469.08 | 3,459.39 | 17.97 | 15.43 | 174.72 | -33.00 | -68.48 | 719.00 | 687.24 | 31.76 | 22.636 | | |
| 3,600.00 | 3,502.36 | 3,567.39 | 3,557.39 | 18.50 | 15.86 | 174.71 | -40.33 | -70.89 | 737.33 | 704.66 | 32.66 | 22.573 | | |
| 3,700.00 | 3,598.99 | 3,665.70 | 3,655.40 | 19.03 | 16.29 | 174.71 | -47.66 | -73.29 | 755.65 | 722.08 | 33.57 | 22.513 | | |
| 3,800.00 | 3,695.63 | 3,764.00 | 3,753.40 | 19.57 | 16.73 | 174.71 | -54.99 | -75.70 | 773.97 | 739.50 | 34.47 | 22.455 | | |
| 3,900.00 | 3,792.27 | 3,862.31 | 3,851.41 | 20.10 | 17.16 | 174.70 | -62.32 | -78.10 | 792.29 | 756.92 | 35.37 | 22.399 | | |
| 4,000.00 | 3,888.91 | 3,960.62 | 3,949.41 | 20.63 | 17.60 | 174.70 | -69.64 | -80.50 | 810.61 | 774.34 | 36.28 | 22.346 | | |
| 4,100.00 | 3,985.54 | 4,058.92 | 4,047.42 | 21.17 | 18.03 | 174.70 | -76.97 | -82.91 | 828.94 | 791.76 | 37.18 | 22.294 | | |
| 4,200.00 | 4,082.18 | 4,157.23 | 4,145.42 | 21.70 | 18.47 | 174.69 | -84.30 | -85.31 | 847.26 | 809.17 | 38.09 | 22.245 | | |
| 4,300.00 | 4,178.82 | 4,255.54 | 4,243.42 | 22.24 | 18.91 | 174.69 | -91.63 | -87.72 | 865.58 | 826.59 | 38.99 | 22.197 | | |
| 4,400.00 | 4,275.46 | 4,353.85 | 4,341.43 | 22.77 | 19.34 | 174.69 | -98.96 | -90.12 | 883.90 | 844.00 | 39.90 | 22.152 | | |
| 4,500.00 | 4,372.09 | 4,452.15 | 4,439.43 | 23.31 | 19.78 | 174.69 | -106.29 | -92.53 | 902.23 | 861.42 | 40.81 | 22.108 | | |
| 4,600.00 | 4,468.73 | 4,550.46 | 4,537.44 | 23.84 | 20.22 | 174.68 | -113.62 | -94.93 | 920.55 | 878.83 | 41.72 | 22.065 | | |
| 4,700.00 | 4,565.37 | 4,648.77 | 4,635.44 | 24.38 | 20.66 | 174.68 | -120.95 | -97.34 | 938.87 | 896.24 | 42.63 | 22.024 | | |
| 4,800.00 | 4,662.01 | 4,747.07 | 4,733.44 | 24.91 | 21.09 | 174.68 | -128.28 | -99.74 | 957.19 | 913.65 | 43.54 | 21.985 | | |
| 4,900.00 | 4,758.64 | 4,845.38 | 4,831.45 | 25.45 | 21.53 | 174.68 | -135.61 | -102.15 | 975.52 | 931.07 | 44.45 | 21.946 | | |
| 5,000.00 | 4,855.28 | 4,943.69 | 4,929.45 | 25.99 | 21.97 | 174.67 | -142.93 | -104.55 | 993.84 | 948.48 | 45.36 | 21.910 | | |
| 5,100.00 | 4,951.92 | 5,042.00 | 5,027.46 | 26.53 | 22.41 | 174.67 | -150.26 | -106.96 | 1,012.16 | 965.89 | 46.27 | 21.874 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32C-16-M2 - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,140.30 | 5,125.46 | 27.06 | 22.85 | 174.67 | -157.59 | -109.36 | 1,030.48 | 983.30 | 47.18 | 21.839 | | |
| 5,300.00 | 5,145.19 | 5,238.61 | 5,223.46 | 27.60 | 23.29 | 174.67 | -164.92 | -111.76 | 1,048.81 | 1,000.71 | 48.10 | 21.806 | | |
| 5,400.00 | 5,241.83 | 5,336.92 | 5,321.47 | 28.14 | 23.73 | 174.67 | -172.25 | -114.17 | 1,067.13 | 1,018.12 | 49.01 | 21.774 | | |
| 5,500.00 | 5,338.47 | 5,435.22 | 5,419.47 | 28.67 | 24.17 | 174.66 | -179.58 | -116.57 | 1,085.45 | 1,035.53 | 49.92 | 21.743 | | |
| 5,600.00 | 5,435.11 | 5,533.53 | 5,517.48 | 29.21 | 24.61 | 174.66 | -186.91 | -118.98 | 1,103.77 | 1,052.94 | 50.84 | 21.712 | | |
| 5,700.00 | 5,531.74 | 5,631.84 | 5,615.48 | 29.75 | 25.05 | 174.66 | -194.24 | -121.38 | 1,122.10 | 1,070.35 | 51.75 | 21.683 | | |
| 5,800.00 | 5,628.38 | 5,730.15 | 5,713.48 | 30.29 | 25.49 | 174.66 | -201.57 | -123.79 | 1,140.42 | 1,087.75 | 52.66 | 21.654 | | |
| 5,900.00 | 5,725.02 | 5,828.45 | 5,811.49 | 30.83 | 25.93 | 174.66 | -208.90 | -126.19 | 1,158.74 | 1,105.16 | 53.58 | 21.627 | | |
| 6,000.00 | 5,821.66 | 5,926.76 | 5,909.49 | 31.37 | 26.37 | 174.66 | -216.23 | -128.60 | 1,177.06 | 1,122.57 | 54.49 | 21.600 | | |
| 6,100.00 | 5,918.29 | 6,025.07 | 6,007.50 | 31.90 | 26.81 | 174.66 | -223.55 | -131.00 | 1,195.39 | 1,139.98 | 55.41 | 21.574 | | |
| 6,200.00 | 6,014.93 | 6,123.37 | 6,105.50 | 32.44 | 27.25 | 174.65 | -230.88 | -133.41 | 1,213.71 | 1,157.38 | 56.32 | 21.549 | | |
| 6,300.00 | 6,111.57 | 6,221.68 | 6,203.50 | 32.98 | 27.69 | 174.65 | -238.21 | -135.81 | 1,232.03 | 1,174.79 | 57.24 | 21.524 | | |
| 6,400.00 | 6,208.21 | 6,319.99 | 6,301.51 | 33.52 | 28.13 | 174.65 | -245.54 | -138.21 | 1,250.35 | 1,192.20 | 58.16 | 21.500 | | |
| 6,500.00 | 6,304.84 | 6,418.30 | 6,399.51 | 34.06 | 28.57 | 174.65 | -252.87 | -140.62 | 1,268.68 | 1,209.60 | 59.07 | 21.477 | | |
| 6,600.00 | 6,401.37 | 6,516.54 | 6,497.46 | 34.60 | 29.01 | 157.16 | -260.20 | -143.02 | 1,287.00 | 1,227.01 | 59.99 | 21.455 | | |
| 6,700.00 | 6,496.25 | 6,613.46 | 6,594.08 | 35.12 | 29.45 | 133.71 | -267.42 | -145.39 | 1,305.25 | 1,244.37 | 60.88 | 21.439 | | |
| 6,800.00 | 6,587.15 | 6,713.42 | 6,693.49 | 35.59 | 29.89 | 120.88 | -274.89 | -151.78 | 1,323.40 | 1,261.61 | 61.79 | 21.418 | | |
| 6,900.00 | 6,671.83 | 6,820.35 | 6,797.41 | 36.03 | 30.36 | 113.53 | -282.83 | -175.06 | 1,340.92 | 1,278.19 | 62.73 | 21.375 | | |
| 7,000.00 | 6,748.21 | 6,933.53 | 6,901.53 | 36.41 | 30.83 | 109.02 | -290.94 | -218.31 | 1,357.30 | 1,293.59 | 63.71 | 21.304 | | |
| 7,100.00 | 6,814.41 | 7,053.56 | 7,001.73 | 36.76 | 31.30 | 106.13 | -298.95 | -283.57 | 1,371.97 | 1,307.22 | 64.76 | 21.187 | | |
| 7,200.00 | 6,868.79 | 7,180.61 | 7,092.50 | 37.07 | 31.80 | 104.27 | -306.43 | -371.86 | 1,384.38 | 1,318.41 | 65.97 | 20.986 | | |
| 7,300.00 | 6,910.01 | 7,314.21 | 7,167.11 | 37.39 | 32.50 | 103.08 | -312.89 | -482.20 | 1,393.98 | 1,326.48 | 67.50 | 20.652 | | |
| 7,400.00 | 6,937.07 | 7,453.01 | 7,218.56 | 37.76 | 33.59 | 102.38 | -317.77 | -610.72 | 1,400.28 | 1,330.76 | 69.52 | 20.142 | | |
| 7,500.00 | 6,949.29 | 7,594.76 | 7,241.21 | 38.27 | 35.08 | 102.05 | -320.60 | -750.33 | 1,402.96 | 1,330.85 | 72.11 | 19.455 | | |
| 7,600.00 | 6,949.75 | 7,704.96 | 7,241.70 | 39.02 | 36.46 | 102.01 | -321.53 | -860.51 | 1,402.91 | 1,328.21 | 74.70 | 18.782 | | |
| 7,700.00 | 6,949.37 | 7,804.96 | 7,241.31 | 40.05 | 37.89 | 102.01 | -322.31 | -960.51 | 1,402.73 | 1,325.26 | 77.47 | 18.107 | | |
| 7,800.00 | 6,948.99 | 7,904.96 | 7,240.91 | 41.35 | 39.49 | 102.01 | -323.09 | -1,060.50 | 1,402.54 | 1,322.01 | 80.53 | 17.416 | | |
| 7,900.00 | 6,948.61 | 8,004.96 | 7,240.52 | 42.86 | 41.22 | 102.01 | -323.87 | -1,160.50 | 1,402.36 | 1,318.50 | 83.86 | 16.722 | | |
| 8,000.00 | 6,948.23 | 8,104.96 | 7,240.13 | 44.53 | 43.07 | 102.02 | -324.66 | -1,260.50 | 1,402.18 | 1,314.76 | 87.42 | 16.039 | | |
| 8,100.00 | 6,947.85 | 8,204.96 | 7,239.73 | 46.34 | 45.03 | 102.02 | -325.44 | -1,360.49 | 1,402.00 | 1,310.81 | 91.19 | 15.374 | | |
| 8,200.00 | 6,947.47 | 8,304.96 | 7,239.34 | 48.26 | 47.08 | 102.02 | -326.22 | -1,460.49 | 1,401.81 | 1,306.68 | 95.14 | 14.735 | | |
| 8,300.00 | 6,947.09 | 8,404.96 | 7,238.95 | 50.28 | 49.21 | 102.02 | -327.00 | -1,560.48 | 1,401.63 | 1,302.39 | 99.24 | 14.123 | | |
| 8,400.00 | 6,946.72 | 8,504.96 | 7,238.55 | 52.39 | 51.41 | 102.02 | -327.78 | -1,660.48 | 1,401.45 | 1,297.96 | 103.49 | 13.542 | | |
| 8,500.00 | 6,946.34 | 8,604.96 | 7,238.16 | 54.56 | 53.67 | 102.02 | -328.57 | -1,760.48 | 1,401.27 | 1,293.41 | 107.86 | 12.991 | | |
| 8,600.00 | 6,945.96 | 8,704.96 | 7,237.77 | 56.80 | 55.99 | 102.02 | -329.35 | -1,860.47 | 1,401.08 | 1,288.74 | 112.34 | 12.472 | | |
| 8,700.00 | 6,945.58 | 8,804.96 | 7,237.37 | 59.10 | 58.35 | 102.02 | -330.13 | -1,960.47 | 1,400.90 | 1,283.98 | 116.92 | 11.982 | | |
| 8,800.00 | 6,945.20 | 8,904.96 | 7,236.98 | 61.44 | 60.76 | 102.02 | -330.91 | -2,060.46 | 1,400.72 | 1,279.14 | 121.58 | 11.521 | | |
| 8,900.00 | 6,944.82 | 9,004.96 | 7,236.59 | 63.83 | 63.21 | 102.02 | -331.70 | -2,160.46 | 1,400.54 | 1,274.22 | 126.32 | 11.087 | | |
| 9,000.00 | 6,944.44 | 9,104.96 | 7,236.20 | 66.25 | 65.69 | 102.03 | -332.48 | -2,260.46 | 1,400.35 | 1,269.23 | 131.13 | 10.679 | | |
| 9,100.00 | 6,944.06 | 9,204.96 | 7,235.80 | 68.71 | 68.20 | 102.03 | -333.26 | -2,360.45 | 1,400.17 | 1,264.18 | 135.99 | 10.296 | | |
| 9,200.00 | 6,943.68 | 9,304.96 | 7,235.41 | 71.20 | 70.73 | 102.03 | -334.04 | -2,460.45 | 1,399.99 | 1,259.07 | 140.92 | 9.935 | | |
| 9,300.00 | 6,943.30 | 9,404.96 | 7,235.02 | 73.72 | 73.29 | 102.03 | -334.82 | -2,560.44 | 1,399.81 | 1,253.92 | 145.89 | 9.595 | | |
| 9,400.00 | 6,942.92 | 9,504.96 | 7,234.62 | 76.26 | 75.87 | 102.03 | -335.61 | -2,660.44 | 1,399.63 | 1,248.72 | 150.90 | 9.275 | | |
| 9,500.00 | 6,942.54 | 9,604.96 | 7,234.23 | 78.82 | 78.47 | 102.03 | -336.39 | -2,760.44 | 1,399.44 | 1,243.48 | 155.96 | 8.973 | | |
| 9,600.00 | 6,942.16 | 9,704.96 | 7,233.84 | 81.40 | 81.09 | 102.03 | -337.17 | -2,860.43 | 1,399.26 | 1,238.21 | 161.05 | 8.688 | | |
| 9,700.00 | 6,941.78 | 9,804.96 | 7,233.44 | 84.00 | 83.72 | 102.03 | -337.95 | -2,960.43 | 1,399.08 | 1,232.90 | 166.17 | 8.419 | | |
| 9,800.00 | 6,941.40 | 9,904.96 | 7,233.05 | 86.62 | 86.37 | 102.03 | -338.74 | -3,060.42 | 1,398.90 | 1,227.57 | 171.33 | 8.165 | | |
| 9,900.00 | 6,941.03 | 10,004.96 | 7,232.66 | 89.25 | 89.03 | 102.03 | -339.52 | -3,160.42 | 1,398.71 | 1,222.20 | 176.51 | 7.924 | | |
| 10,000.00 | 6,940.65 | 10,104.96 | 7,232.26 | 91.90 | 91.70 | 102.04 | -340.30 | -3,260.42 | 1,398.53 | 1,216.81 | 181.72 | 7.696 | | |
| 10,100.00 | 6,940.27 | 10,204.96 | 7,231.87 | 94.56 | 94.39 | 102.04 | -341.08 | -3,360.41 | 1,398.35 | 1,211.40 | 186.94 | 7.480 | | |
| 10,200.00 | 6,939.89 | 10,304.96 | 7,231.48 | 97.23 | 97.08 | 102.04 | -341.86 | -3,460.41 | 1,398.17 | 1,205.97 | 192.19 | 7.275 | | |
| 10,300.00 | 6,939.51 | 10,404.96 | 7,231.08 | 99.91 | 99.78 | 102.04 | -342.65 | -3,560.40 | 1,397.98 | 1,200.52 | 197.46 | 7.080 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32C-16-M2 - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,504.96 | 7,230.69 | 102.60 | 102.49 | 102.04 | -343.43 | -3,660.40 | 1,397.80 | 1,195.05 | 202.75 | 6.894 | | |
| 10,500.00 | 6,938.75 | 10,604.96 | 7,230.30 | 105.30 | 105.21 | 102.04 | -344.21 | -3,760.40 | 1,397.62 | 1,189.56 | 208.05 | 6.718 | | |
| 10,600.00 | 6,938.37 | 10,704.96 | 7,229.90 | 108.00 | 107.94 | 102.04 | -344.99 | -3,860.39 | 1,397.44 | 1,184.06 | 213.37 | 6.549 | | |
| 10,700.00 | 6,937.99 | 10,804.96 | 7,229.51 | 110.72 | 110.67 | 102.04 | -345.78 | -3,960.39 | 1,397.25 | 1,178.55 | 218.71 | 6.389 | | |
| 10,800.00 | 6,937.61 | 10,904.96 | 7,229.12 | 113.44 | 113.41 | 102.04 | -346.56 | -4,060.38 | 1,397.07 | 1,173.02 | 224.05 | 6.235 | | |
| 10,900.00 | 6,937.23 | 11,004.96 | 7,228.72 | 116.17 | 116.15 | 102.04 | -347.34 | -4,160.38 | 1,396.89 | 1,167.48 | 229.41 | 6.089 | | |
| 11,000.00 | 6,936.85 | 11,104.96 | 7,228.33 | 118.90 | 118.90 | 102.05 | -348.12 | -4,260.38 | 1,396.71 | 1,161.93 | 234.78 | 5.949 | | |
| 11,100.00 | 6,936.47 | 11,204.96 | 7,227.94 | 121.64 | 121.66 | 102.05 | -348.90 | -4,360.37 | 1,396.52 | 1,156.36 | 240.16 | 5.815 | | |
| 11,200.00 | 6,936.09 | 11,304.96 | 7,227.54 | 124.39 | 124.42 | 102.05 | -349.69 | -4,460.37 | 1,396.34 | 1,150.79 | 245.55 | 5.687 | | |
| 11,300.00 | 6,935.71 | 11,404.96 | 7,227.15 | 127.14 | 127.18 | 102.05 | -350.47 | -4,560.36 | 1,396.16 | 1,145.21 | 250.95 | 5.564 | | |
| 11,400.00 | 6,935.34 | 11,504.96 | 7,226.76 | 129.90 | 129.95 | 102.05 | -351.25 | -4,660.36 | 1,395.98 | 1,139.62 | 256.36 | 5.445 | | |
| 11,500.00 | 6,934.96 | 11,604.96 | 7,226.36 | 132.66 | 132.72 | 102.05 | -352.03 | -4,760.36 | 1,395.79 | 1,134.02 | 261.77 | 5.332 | | |
| 11,600.00 | 6,934.58 | 11,704.96 | 7,225.97 | 135.42 | 135.50 | 102.05 | -352.82 | -4,860.35 | 1,395.61 | 1,128.42 | 267.19 | 5.223 | | |
| 11,700.00 | 6,934.20 | 11,804.96 | 7,225.58 | 138.19 | 138.28 | 102.05 | -353.60 | -4,960.35 | 1,395.43 | 1,122.80 | 272.63 | 5.118 | | |
| 11,800.00 | 6,933.82 | 11,904.96 | 7,225.18 | 140.96 | 141.06 | 102.05 | -354.38 | -5,060.34 | 1,395.25 | 1,117.18 | 278.06 | 5.018 | | |
| 11,900.00 | 6,933.44 | 12,004.96 | 7,224.79 | 143.74 | 143.84 | 102.06 | -355.16 | -5,160.34 | 1,395.06 | 1,111.56 | 283.51 | 4.921 | | |
| 12,000.00 | 6,933.06 | 12,104.96 | 7,224.40 | 146.51 | 146.63 | 102.06 | -355.94 | -5,260.34 | 1,394.88 | 1,105.93 | 288.96 | 4.827 | | |
| 12,100.00 | 6,932.68 | 12,204.96 | 7,224.00 | 149.30 | 149.42 | 102.06 | -356.73 | -5,360.33 | 1,394.70 | 1,100.29 | 294.41 | 4.737 | | |
| 12,200.00 | 6,932.30 | 12,304.96 | 7,223.61 | 152.08 | 152.21 | 102.06 | -357.51 | -5,460.33 | 1,394.52 | 1,094.64 | 299.87 | 4.650 | | |
| 12,300.00 | 6,931.92 | 12,404.96 | 7,223.22 | 154.87 | 155.01 | 102.06 | -358.29 | -5,560.32 | 1,394.33 | 1,089.00 | 305.34 | 4.567 | | |
| 12,400.00 | 6,931.54 | 12,504.96 | 7,222.82 | 157.66 | 157.81 | 102.06 | -359.07 | -5,660.32 | 1,394.15 | 1,083.34 | 310.81 | 4.486 | | |
| 12,500.00 | 6,931.16 | 12,604.96 | 7,222.43 | 160.45 | 160.61 | 102.06 | -359.86 | -5,760.32 | 1,393.97 | 1,077.69 | 316.28 | 4.407 | | |
| 12,600.00 | 6,930.78 | 12,704.96 | 7,222.04 | 163.24 | 163.41 | 102.06 | -360.64 | -5,860.31 | 1,393.79 | 1,072.02 | 321.76 | 4.332 | | |
| 12,700.00 | 6,930.40 | 12,804.96 | 7,221.64 | 166.04 | 166.21 | 102.06 | -361.42 | -5,960.31 | 1,393.60 | 1,066.36 | 327.25 | 4.259 | | |
| 12,800.00 | 6,930.03 | 12,904.96 | 7,221.25 | 168.84 | 169.02 | 102.06 | -362.20 | -6,060.30 | 1,393.42 | 1,060.69 | 332.73 | 4.188 | | |
| 12,900.00 | 6,929.65 | 13,004.96 | 7,220.86 | 171.64 | 171.82 | 102.07 | -362.98 | -6,160.30 | 1,393.24 | 1,055.02 | 338.22 | 4.119 | | |
| 13,000.00 | 6,929.27 | 13,104.96 | 7,220.46 | 174.44 | 174.63 | 102.07 | -363.77 | -6,260.30 | 1,393.06 | 1,049.34 | 343.72 | 4.053 | | |
| 13,100.00 | 6,928.89 | 13,204.96 | 7,220.07 | 177.24 | 177.44 | 102.07 | -364.55 | -6,360.29 | 1,392.87 | 1,043.66 | 349.22 | 3.989 | | |
| 13,200.00 | 6,928.51 | 13,304.96 | 7,219.68 | 180.05 | 180.26 | 102.07 | -365.33 | -6,460.29 | 1,392.69 | 1,037.98 | 354.72 | 3.926 | | |
| 13,300.00 | 6,928.13 | 13,404.96 | 7,219.28 | 182.86 | 183.07 | 102.07 | -366.11 | -6,560.28 | 1,392.51 | 1,032.29 | 360.22 | 3.866 | | |
| 13,400.00 | 6,927.75 | 13,504.96 | 7,218.89 | 185.67 | 185.88 | 102.07 | -366.90 | -6,660.28 | 1,392.33 | 1,026.60 | 365.73 | 3.807 | | |
| 13,500.00 | 6,927.37 | 13,604.96 | 7,218.50 | 188.48 | 188.70 | 102.07 | -367.68 | -6,760.28 | 1,392.14 | 1,020.91 | 371.24 | 3.750 | | |
| 13,600.00 | 6,926.99 | 13,704.96 | 7,218.10 | 191.29 | 191.52 | 102.07 | -368.46 | -6,860.27 | 1,391.96 | 1,015.21 | 376.75 | 3.695 | | |
| 13,700.00 | 6,926.61 | 13,804.96 | 7,217.71 | 194.10 | 194.34 | 102.07 | -369.24 | -6,960.27 | 1,391.78 | 1,009.52 | 382.26 | 3.641 | | |
| 13,800.00 | 6,926.23 | 13,904.96 | 7,217.32 | 196.92 | 197.16 | 102.07 | -370.02 | -7,060.26 | 1,391.60 | 1,003.82 | 387.78 | 3.589 | | |
| 13,900.00 | 6,925.85 | 14,004.96 | 7,216.92 | 199.73 | 199.98 | 102.08 | -370.81 | -7,160.26 | 1,391.41 | 998.11 | 393.30 | 3.538 | | |
| 14,000.00 | 6,925.47 | 14,104.96 | 7,216.53 | 202.55 | 202.80 | 102.08 | -371.59 | -7,260.26 | 1,391.23 | 992.41 | 398.82 | 3.488 | | |
| 14,100.00 | 6,925.09 | 14,204.96 | 7,216.14 | 205.37 | 205.62 | 102.08 | -372.37 | -7,360.25 | 1,391.05 | 986.70 | 404.35 | 3.440 | | |
| 14,200.00 | 6,924.71 | 14,304.96 | 7,215.74 | 208.19 | 208.44 | 102.08 | -373.15 | -7,460.25 | 1,390.87 | 981.00 | 409.87 | 3.393 | | |
| 14,300.00 | 6,924.34 | 14,404.96 | 7,215.35 | 211.01 | 211.27 | 102.08 | -373.94 | -7,560.24 | 1,390.69 | 975.29 | 415.40 | 3.348 | | |
| 14,400.00 | 6,923.96 | 14,504.96 | 7,214.96 | 213.83 | 214.10 | 102.08 | -374.72 | -7,660.24 | 1,390.50 | 969.57 | 420.93 | 3.303 | | |
| 14,500.00 | 6,923.58 | 14,604.96 | 7,214.56 | 216.65 | 216.92 | 102.08 | -375.50 | -7,760.24 | 1,390.32 | 963.86 | 426.46 | 3.260 | | |
| 14,600.00 | 6,923.20 | 14,704.96 | 7,214.17 | 219.48 | 219.75 | 102.08 | -376.28 | -7,860.23 | 1,390.14 | 958.14 | 431.99 | 3.218 | | |
| 14,700.00 | 6,922.82 | 14,804.96 | 7,213.78 | 222.30 | 222.58 | 102.08 | -377.06 | -7,960.23 | 1,389.96 | 952.43 | 437.53 | 3.177 | | |
| 14,800.00 | 6,922.44 | 14,904.96 | 7,213.38 | 225.13 | 225.41 | 102.08 | -377.85 | -8,060.22 | 1,389.77 | 946.71 | 443.07 | 3.137 | | |
| 14,900.00 | 6,922.06 | 15,004.96 | 7,212.99 | 227.95 | 228.24 | 102.09 | -378.63 | -8,160.22 | 1,389.59 | 940.99 | 448.60 | 3.098 | | |
| 14,906.97 | 6,922.03 | 15,011.92 | 7,212.96 | 228.15 | 228.43 | 102.09 | -378.68 | -8,167.19 | 1,389.58 | 940.59 | 448.99 | 3.095 SF | | |
| 14,915.55 | 6,922.00 | 15,002.44 | 7,213.00 | 228.39 | 228.16 | 102.09 | -378.61 | -8,157.71 | 1,389.68 | 940.85 | 448.83 | 3.096 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | 0.40 | 80.15 | 0.56 | 80.15 | | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 3.28 | 3.28 | 0.40 | 80.15 | 0.56 | 80.15 | 73.58 | 6.57 | 12.201 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 3.34 | 3.34 | 0.40 | 80.15 | 0.56 | 80.15 | 73.48 | 6.67 | 12.010 | CC, ES | |
| 300.00 | 299.98 | 299.98 | 299.98 | 3.44 | 3.44 | 175.12 | 80.15 | 0.56 | 81.89 | 75.01 | 6.88 | 11.894 | | |
| 400.00 | 399.84 | 402.88 | 402.86 | 3.59 | 3.60 | 175.22 | 78.33 | 0.24 | 85.34 | 78.14 | 7.20 | 11.852 | | |
| 500.00 | 499.45 | 505.92 | 505.74 | 3.79 | 3.80 | 175.12 | 72.86 | -0.71 | 88.71 | 81.10 | 7.62 | 11.647 | | |
| 600.00 | 598.70 | 609.07 | 608.47 | 4.03 | 4.04 | 174.85 | 63.74 | -2.29 | 92.02 | 83.89 | 8.13 | 11.325 | | |
| 700.00 | 697.47 | 712.34 | 710.92 | 4.31 | 4.32 | 174.41 | 50.96 | -4.51 | 95.25 | 86.54 | 8.71 | 10.935 | | |
| 800.00 | 795.62 | 812.02 | 809.59 | 4.64 | 4.63 | 174.06 | 37.07 | -6.92 | 100.38 | 91.08 | 9.31 | 10.786 | | |
| 900.00 | 893.06 | 911.64 | 908.22 | 5.00 | 4.96 | 173.93 | 23.19 | -9.33 | 108.98 | 99.02 | 9.96 | 10.945 | | |
| 1,000.00 | 989.78 | 1,010.98 | 1,006.55 | 5.39 | 5.31 | 173.97 | 9.34 | -11.74 | 120.50 | 109.85 | 10.65 | 11.311 | | |
| 1,100.00 | 1,086.42 | 1,110.27 | 1,104.84 | 5.81 | 5.68 | 174.04 | -4.50 | -14.14 | 132.38 | 121.00 | 11.38 | 11.631 | | |
| 1,200.00 | 1,183.06 | 1,209.56 | 1,203.14 | 6.25 | 6.07 | 174.09 | -18.34 | -16.54 | 144.25 | 132.11 | 12.14 | 11.884 | | |
| 1,300.00 | 1,279.69 | 1,308.85 | 1,301.43 | 6.71 | 6.46 | 174.13 | -32.18 | -18.95 | 156.13 | 143.21 | 12.92 | 12.084 | | |
| 1,400.00 | 1,376.33 | 1,408.15 | 1,399.72 | 7.17 | 6.87 | 174.17 | -46.02 | -21.35 | 168.00 | 154.28 | 13.72 | 12.244 | | |
| 1,500.00 | 1,472.97 | 1,507.44 | 1,498.02 | 7.65 | 7.28 | 174.21 | -59.86 | -23.75 | 179.88 | 165.34 | 14.54 | 12.371 | | |
| 1,600.00 | 1,569.61 | 1,606.73 | 1,596.31 | 8.13 | 7.70 | 174.23 | -73.71 | -26.15 | 191.75 | 176.38 | 15.37 | 12.473 | | |
| 1,700.00 | 1,666.24 | 1,706.02 | 1,694.61 | 8.62 | 8.12 | 174.26 | -87.55 | -28.56 | 203.63 | 187.41 | 16.22 | 12.555 | | |
| 1,800.00 | 1,762.88 | 1,805.31 | 1,792.90 | 9.12 | 8.55 | 174.28 | -101.39 | -30.96 | 215.50 | 198.43 | 17.07 | 12.622 | | |
| 1,900.00 | 1,859.52 | 1,904.61 | 1,891.19 | 9.62 | 8.99 | 174.30 | -115.23 | -33.36 | 227.38 | 209.44 | 17.94 | 12.676 | | |
| 2,000.00 | 1,956.16 | 2,003.90 | 1,989.49 | 10.13 | 9.43 | 174.32 | -129.07 | -35.77 | 239.25 | 220.44 | 18.81 | 12.720 | | |
| 2,100.00 | 2,052.79 | 2,103.19 | 2,087.78 | 10.64 | 9.87 | 174.34 | -142.91 | -38.17 | 251.13 | 231.44 | 19.69 | 12.756 | | |
| 2,200.00 | 2,149.43 | 2,202.48 | 2,186.07 | 11.15 | 10.31 | 174.35 | -156.75 | -40.57 | 263.00 | 242.43 | 20.57 | 12.785 | | |
| 2,300.00 | 2,246.07 | 2,301.78 | 2,284.37 | 11.66 | 10.76 | 174.37 | -170.59 | -42.98 | 274.88 | 253.42 | 21.46 | 12.809 | | |
| 2,400.00 | 2,342.71 | 2,401.07 | 2,382.66 | 12.18 | 11.21 | 174.38 | -184.43 | -45.38 | 286.75 | 264.40 | 22.35 | 12.828 | | |
| 2,500.00 | 2,439.34 | 2,500.36 | 2,480.95 | 12.70 | 11.66 | 174.39 | -198.27 | -47.78 | 298.63 | 275.38 | 23.25 | 12.844 | | |
| 2,600.00 | 2,535.98 | 2,600.35 | 2,579.25 | 13.22 | 12.11 | 174.40 | -212.12 | -50.18 | 310.50 | 286.35 | 24.15 | 12.855 | | |
| 2,700.00 | 2,632.62 | 2,701.05 | 2,677.54 | 13.75 | 12.57 | 174.41 | -225.96 | -52.59 | 322.38 | 297.32 | 25.06 | 12.863 | | |
| 2,800.00 | 2,729.26 | 2,801.76 | 2,775.83 | 14.27 | 13.03 | 174.42 | -239.80 | -54.99 | 334.26 | 308.28 | 25.98 | 12.868 | | |
| 2,900.00 | 2,825.89 | 2,902.47 | 2,874.13 | 14.80 | 13.50 | 174.43 | -253.64 | -57.39 | 346.13 | 319.24 | 26.89 | 12.871 | | |
| 3,000.00 | 2,922.53 | 3,003.18 | 2,972.42 | 15.32 | 13.96 | 174.44 | -267.48 | -59.80 | 358.01 | 330.20 | 27.81 | 12.874 | | |
| 3,100.00 | 3,019.17 | 3,103.88 | 3,070.72 | 15.85 | 14.42 | 174.45 | -281.32 | -62.20 | 369.88 | 341.15 | 28.73 | 12.875 | | |
| 3,200.00 | 3,115.81 | 3,204.59 | 3,169.01 | 16.38 | 14.89 | 174.45 | -295.16 | -64.60 | 381.76 | 352.11 | 29.65 | 12.875 | | |
| 3,300.00 | 3,212.44 | 3,305.30 | 3,267.30 | 16.91 | 15.35 | 174.46 | -309.00 | -67.01 | 393.63 | 363.06 | 30.57 | 12.875 | | |
| 3,400.00 | 3,309.08 | 3,406.01 | 3,365.60 | 17.44 | 15.82 | 174.47 | -322.84 | -69.41 | 405.51 | 374.01 | 31.50 | 12.874 | | |
| 3,500.00 | 3,405.72 | 3,506.72 | 3,463.89 | 17.97 | 16.29 | 174.47 | -336.68 | -71.81 | 417.38 | 384.96 | 32.42 | 12.873 | | |
| 3,600.00 | 3,502.36 | 3,607.42 | 3,562.18 | 18.50 | 16.76 | 174.48 | -350.53 | -74.21 | 429.26 | 395.91 | 33.35 | 12.871 | | |
| 3,700.00 | 3,598.99 | 3,708.13 | 3,660.48 | 19.03 | 17.22 | 174.48 | -364.37 | -76.62 | 441.13 | 406.85 | 34.28 | 12.869 | | |
| 3,800.00 | 3,695.63 | 3,808.84 | 3,758.77 | 19.57 | 17.69 | 174.49 | -378.21 | -79.02 | 453.01 | 417.80 | 35.21 | 12.866 | | |
| 3,900.00 | 3,792.27 | 3,909.55 | 3,857.06 | 20.10 | 18.16 | 174.49 | -392.05 | -81.42 | 464.88 | 428.74 | 36.14 | 12.863 | | |
| 4,000.00 | 3,888.91 | 3,989.75 | 3,955.36 | 20.63 | 18.54 | 174.50 | -405.89 | -83.83 | 476.76 | 439.78 | 36.98 | 12.893 | | |
| 4,100.00 | 3,985.54 | 4,089.04 | 4,053.65 | 21.17 | 19.00 | 174.50 | -419.73 | -86.23 | 488.64 | 450.73 | 37.91 | 12.891 | | |
| 4,200.00 | 4,082.18 | 4,188.33 | 4,151.94 | 21.70 | 19.47 | 174.51 | -433.57 | -88.63 | 500.51 | 461.68 | 38.83 | 12.889 | | |
| 4,300.00 | 4,178.82 | 4,287.62 | 4,250.24 | 22.24 | 19.93 | 174.51 | -447.41 | -91.03 | 512.39 | 472.63 | 39.76 | 12.887 | | |
| 4,400.00 | 4,275.46 | 4,386.92 | 4,348.53 | 22.77 | 20.39 | 174.51 | -461.25 | -93.44 | 524.26 | 483.57 | 40.69 | 12.885 | | |
| 4,500.00 | 4,372.09 | 4,486.21 | 4,446.83 | 23.31 | 20.86 | 174.52 | -475.09 | -95.84 | 536.14 | 494.52 | 41.62 | 12.883 | | |
| 4,600.00 | 4,468.73 | 4,585.50 | 4,545.12 | 23.84 | 21.33 | 174.52 | -488.94 | -98.24 | 548.01 | 505.47 | 42.55 | 12.880 | | |
| 4,700.00 | 4,565.37 | 4,684.79 | 4,643.41 | 24.38 | 21.79 | 174.52 | -502.78 | -100.65 | 559.89 | 516.41 | 43.48 | 12.878 | | |
| 4,800.00 | 4,662.01 | 4,784.09 | 4,741.71 | 24.91 | 22.26 | 174.53 | -516.62 | -103.05 | 571.76 | 527.36 | 44.41 | 12.875 | | |
| 4,900.00 | 4,758.64 | 4,883.38 | 4,840.00 | 25.45 | 22.72 | 174.53 | -530.46 | -105.45 | 583.64 | 538.30 | 45.34 | 12.873 | | |
| 5,000.00 | 4,855.28 | 4,982.67 | 4,938.29 | 25.99 | 23.19 | 174.53 | -544.30 | -107.86 | 595.51 | 549.24 | 46.27 | 12.870 | | |
| 5,100.00 | 4,951.92 | 5,081.96 | 5,036.59 | 26.53 | 23.66 | 174.54 | -558.14 | -110.26 | 607.39 | 560.19 | 47.20 | 12.868 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,181.25 | 5,134.88 | 27.06 | 24.12 | 174.54 | -571.98 | -112.66 | 619.27 | 571.13 | 48.13 | 12.865 | | |
| 5,300.00 | 5,145.19 | 5,280.55 | 5,233.17 | 27.60 | 24.59 | 174.54 | -585.82 | -115.06 | 631.14 | 582.07 | 49.07 | 12.863 | | |
| 5,400.00 | 5,241.83 | 5,379.84 | 5,331.47 | 28.14 | 25.06 | 174.54 | -599.66 | -117.47 | 643.02 | 593.02 | 50.00 | 12.860 | | |
| 5,500.00 | 5,338.47 | 5,479.13 | 5,429.76 | 28.67 | 25.52 | 174.55 | -613.51 | -119.87 | 654.89 | 603.96 | 50.93 | 12.857 | | |
| 5,600.00 | 5,435.11 | 5,578.42 | 5,528.05 | 29.21 | 25.99 | 174.55 | -627.35 | -122.27 | 666.77 | 614.90 | 51.87 | 12.855 | | |
| 5,700.00 | 5,531.74 | 5,677.72 | 5,626.35 | 29.75 | 26.46 | 174.55 | -641.19 | -124.68 | 678.64 | 625.84 | 52.80 | 12.852 | | |
| 5,800.00 | 5,628.38 | 5,777.01 | 5,724.64 | 30.29 | 26.93 | 174.55 | -655.03 | -127.08 | 690.52 | 636.78 | 53.74 | 12.850 | | |
| 5,900.00 | 5,725.02 | 5,876.30 | 5,822.94 | 30.83 | 27.39 | 174.55 | -668.87 | -129.48 | 702.39 | 647.72 | 54.67 | 12.847 | | |
| 6,000.00 | 5,821.66 | 5,975.59 | 5,921.23 | 31.37 | 27.86 | 174.56 | -682.71 | -131.88 | 714.27 | 658.66 | 55.61 | 12.845 | | |
| 6,100.00 | 5,918.29 | 6,074.89 | 6,019.52 | 31.90 | 28.33 | 174.56 | -696.55 | -134.29 | 726.14 | 669.60 | 56.54 | 12.842 | | |
| 6,200.00 | 6,014.93 | 6,174.18 | 6,117.82 | 32.44 | 28.80 | 174.56 | -710.39 | -136.69 | 738.02 | 680.54 | 57.48 | 12.840 | | |
| 6,300.00 | 6,111.57 | 6,273.47 | 6,216.11 | 32.98 | 29.27 | 174.56 | -724.23 | -139.09 | 749.90 | 691.48 | 58.41 | 12.838 | | |
| 6,400.00 | 6,208.21 | 6,372.76 | 6,314.40 | 33.52 | 29.73 | 174.56 | -738.07 | -141.50 | 761.77 | 702.42 | 59.35 | 12.835 | | |
| 6,500.00 | 6,304.84 | 6,472.06 | 6,412.70 | 34.06 | 30.20 | 174.57 | -751.92 | -143.90 | 773.65 | 713.36 | 60.29 | 12.833 | | |
| 6,600.00 | 6,401.37 | 6,571.87 | 6,511.34 | 34.60 | 30.67 | 157.25 | -765.83 | -149.28 | 785.50 | 724.27 | 61.23 | 12.829 | | |
| 6,700.00 | 6,496.25 | 6,671.89 | 6,608.30 | 35.12 | 31.13 | 133.61 | -779.64 | -169.07 | 797.12 | 734.96 | 62.16 | 12.824 | | |
| 6,800.00 | 6,587.15 | 6,771.80 | 6,700.88 | 35.59 | 31.56 | 120.13 | -792.95 | -203.90 | 808.24 | 745.18 | 63.06 | 12.816 | | |
| 6,900.00 | 6,671.83 | 6,871.63 | 6,786.85 | 36.03 | 31.96 | 112.09 | -805.47 | -252.87 | 818.57 | 754.62 | 63.95 | 12.801 | | |
| 7,000.00 | 6,748.21 | 6,971.42 | 6,864.15 | 36.41 | 32.32 | 106.90 | -816.87 | -314.78 | 827.85 | 763.00 | 64.85 | 12.765 | | |
| 7,100.00 | 6,814.41 | 7,071.19 | 6,930.90 | 36.76 | 32.67 | 103.37 | -826.89 | -388.11 | 835.87 | 770.00 | 65.86 | 12.691 | | |
| 7,200.00 | 6,868.79 | 7,170.93 | 6,985.47 | 37.07 | 33.05 | 100.94 | -835.28 | -471.05 | 842.41 | 775.35 | 67.06 | 12.562 | | |
| 7,300.00 | 6,910.01 | 7,270.62 | 7,026.53 | 37.39 | 33.57 | 99.28 | -841.84 | -561.54 | 847.33 | 778.80 | 68.53 | 12.364 | | |
| 7,400.00 | 6,937.07 | 7,370.26 | 7,053.10 | 37.76 | 34.33 | 98.26 | -846.41 | -657.36 | 850.50 | 780.16 | 70.34 | 12.092 | | |
| 7,500.00 | 6,949.29 | 7,469.79 | 7,064.54 | 38.27 | 35.34 | 97.80 | -848.87 | -756.09 | 851.84 | 779.38 | 72.47 | 11.755 | | |
| 7,600.00 | 6,949.75 | 7,569.64 | 7,064.71 | 39.02 | 36.56 | 97.76 | -849.76 | -855.93 | 851.73 | 776.81 | 74.92 | 11.368 | | |
| 7,700.00 | 6,949.37 | 7,669.63 | 7,064.32 | 40.05 | 37.95 | 97.76 | -850.57 | -955.93 | 851.52 | 773.81 | 77.71 | 10.958 | | |
| 7,800.00 | 6,948.99 | 7,769.63 | 7,063.92 | 41.35 | 39.51 | 97.76 | -851.39 | -1,055.92 | 851.31 | 770.51 | 80.79 | 10.537 | | |
| 7,900.00 | 6,948.61 | 7,869.63 | 7,063.53 | 42.86 | 41.22 | 97.76 | -852.20 | -1,155.92 | 851.09 | 766.95 | 84.15 | 10.114 | | |
| 8,000.00 | 6,948.23 | 7,969.63 | 7,063.14 | 44.53 | 43.05 | 97.76 | -853.01 | -1,255.92 | 850.88 | 763.14 | 87.74 | 9.698 | | |
| 8,100.00 | 6,947.85 | 8,069.63 | 7,062.74 | 46.34 | 44.99 | 97.76 | -853.82 | -1,355.91 | 850.67 | 759.12 | 91.54 | 9.293 | | |
| 8,200.00 | 6,947.47 | 8,169.63 | 7,062.35 | 48.26 | 47.02 | 97.76 | -854.63 | -1,455.91 | 850.46 | 754.92 | 95.53 | 8.902 | | |
| 8,300.00 | 6,947.09 | 8,269.63 | 7,061.96 | 50.28 | 49.14 | 97.76 | -855.44 | -1,555.90 | 850.24 | 750.56 | 99.68 | 8.529 | | |
| 8,400.00 | 6,946.72 | 8,369.63 | 7,061.56 | 52.39 | 51.33 | 97.77 | -856.26 | -1,655.90 | 850.03 | 746.05 | 103.98 | 8.175 | | |
| 8,500.00 | 6,946.34 | 8,469.63 | 7,061.17 | 54.56 | 53.58 | 97.77 | -857.07 | -1,755.89 | 849.82 | 741.42 | 108.40 | 7.840 | | |
| 8,600.00 | 6,945.96 | 8,569.63 | 7,060.78 | 56.80 | 55.89 | 97.77 | -857.88 | -1,855.89 | 849.60 | 736.67 | 112.93 | 7.523 | | |
| 8,700.00 | 6,945.58 | 8,669.63 | 7,060.39 | 59.10 | 58.25 | 97.77 | -858.69 | -1,955.89 | 849.39 | 731.83 | 117.56 | 7.225 | | |
| 8,800.00 | 6,945.20 | 8,769.63 | 7,059.99 | 61.44 | 60.65 | 97.77 | -859.50 | -2,055.88 | 849.18 | 726.90 | 122.28 | 6.945 | | |
| 8,900.00 | 6,944.82 | 8,869.63 | 7,059.60 | 63.83 | 63.09 | 97.77 | -860.32 | -2,155.88 | 848.96 | 721.89 | 127.07 | 6.681 | | |
| 9,000.00 | 6,944.44 | 8,969.63 | 7,059.21 | 66.25 | 65.56 | 97.77 | -861.13 | -2,255.87 | 848.75 | 716.81 | 131.94 | 6.433 | | |
| 9,100.00 | 6,944.06 | 9,069.63 | 7,058.81 | 68.71 | 68.06 | 97.77 | -861.94 | -2,355.87 | 848.54 | 711.67 | 136.87 | 6.200 | | |
| 9,200.00 | 6,943.68 | 9,169.63 | 7,058.42 | 71.20 | 70.59 | 97.77 | -862.75 | -2,455.86 | 848.33 | 706.48 | 141.85 | 5.980 | | |
| 9,300.00 | 6,943.30 | 9,269.63 | 7,058.03 | 73.72 | 73.15 | 97.77 | -863.56 | -2,555.86 | 848.11 | 701.23 | 146.88 | 5.774 | | |
| 9,400.00 | 6,942.92 | 9,369.63 | 7,057.63 | 76.26 | 75.73 | 97.78 | -864.37 | -2,655.85 | 847.90 | 695.94 | 151.96 | 5.580 | | |
| 9,500.00 | 6,942.54 | 9,469.63 | 7,057.24 | 78.82 | 78.32 | 97.78 | -865.19 | -2,755.85 | 847.69 | 690.61 | 157.07 | 5.397 | | |
| 9,600.00 | 6,942.16 | 9,569.63 | 7,056.85 | 81.40 | 80.94 | 97.78 | -866.00 | -2,855.85 | 847.47 | 685.25 | 162.23 | 5.224 | | |
| 9,700.00 | 6,941.78 | 9,669.63 | 7,056.45 | 84.00 | 83.57 | 97.78 | -866.81 | -2,955.84 | 847.26 | 679.85 | 167.41 | 5.061 | | |
| 9,800.00 | 6,941.40 | 9,769.63 | 7,056.06 | 86.62 | 86.21 | 97.78 | -867.62 | -3,055.84 | 847.05 | 674.42 | 172.63 | 4.907 | | |
| 9,900.00 | 6,941.03 | 9,869.63 | 7,055.67 | 89.25 | 88.87 | 97.78 | -868.43 | -3,155.83 | 846.83 | 668.96 | 177.88 | 4.761 | | |
| 10,000.00 | 6,940.65 | 9,969.63 | 7,055.27 | 91.90 | 91.54 | 97.78 | -869.24 | -3,255.83 | 846.62 | 663.48 | 183.15 | 4.623 | | |
| 10,100.00 | 6,940.27 | 10,069.63 | 7,054.88 | 94.56 | 94.22 | 97.78 | -870.06 | -3,355.82 | 846.41 | 657.97 | 188.44 | 4.492 | | |
| 10,200.00 | 6,939.89 | 10,169.63 | 7,054.49 | 97.23 | 96.91 | 97.78 | -870.87 | -3,455.82 | 846.20 | 652.44 | 193.75 | 4.367 | | |
| 10,300.00 | 6,939.51 | 10,269.63 | 7,054.09 | 99.91 | 99.61 | 97.79 | -871.68 | -3,555.82 | 845.98 | 646.90 | 199.09 | 4.249 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,369.63 | 7,053.70 | 102.60 | 102.32 | 97.79 | -872.49 | -3,655.81 | 845.77 | 641.33 | 204.44 | 4.137 | | |
| 10,500.00 | 6,938.75 | 10,469.63 | 7,053.31 | 105.30 | 105.04 | 97.79 | -873.30 | -3,755.81 | 845.56 | 635.75 | 209.81 | 4.030 | | |
| 10,600.00 | 6,938.37 | 10,569.63 | 7,052.92 | 108.00 | 107.76 | 97.79 | -874.11 | -3,855.80 | 845.34 | 630.15 | 215.19 | 3.928 | | |
| 10,700.00 | 6,937.99 | 10,669.63 | 7,052.52 | 110.72 | 110.49 | 97.79 | -874.93 | -3,955.80 | 845.13 | 624.54 | 220.59 | 3.831 | | |
| 10,800.00 | 6,937.61 | 10,769.63 | 7,052.13 | 113.44 | 113.23 | 97.79 | -875.74 | -4,055.79 | 844.92 | 618.92 | 226.00 | 3.739 | | |
| 10,900.00 | 6,937.23 | 10,869.63 | 7,051.74 | 116.17 | 115.97 | 97.79 | -876.55 | -4,155.79 | 844.70 | 613.28 | 231.42 | 3.650 | | |
| 11,000.00 | 6,936.85 | 10,969.63 | 7,051.34 | 118.90 | 118.72 | 97.79 | -877.36 | -4,255.79 | 844.49 | 607.64 | 236.86 | 3.565 | | |
| 11,100.00 | 6,936.47 | 11,069.63 | 7,050.95 | 121.64 | 121.47 | 97.79 | -878.17 | -4,355.78 | 844.28 | 601.98 | 242.30 | 3.484 | | |
| 11,200.00 | 6,936.09 | 11,169.63 | 7,050.56 | 124.39 | 124.23 | 97.79 | -878.98 | -4,455.78 | 844.07 | 596.31 | 247.76 | 3.407 | | |
| 11,300.00 | 6,935.71 | 11,269.63 | 7,050.16 | 127.14 | 126.99 | 97.80 | -879.80 | -4,555.77 | 843.85 | 590.63 | 253.22 | 3.332 | | |
| 11,400.00 | 6,935.34 | 11,369.63 | 7,049.77 | 129.90 | 129.76 | 97.80 | -880.61 | -4,655.77 | 843.64 | 584.95 | 258.69 | 3.261 | | |
| 11,500.00 | 6,934.96 | 11,469.63 | 7,049.38 | 132.66 | 132.53 | 97.80 | -881.42 | -4,755.76 | 843.43 | 579.25 | 264.18 | 3.193 | | |
| 11,600.00 | 6,934.58 | 11,569.63 | 7,048.98 | 135.42 | 135.31 | 97.80 | -882.23 | -4,855.76 | 843.21 | 573.55 | 269.66 | 3.127 | | |
| 11,700.00 | 6,934.20 | 11,669.63 | 7,048.59 | 138.19 | 138.08 | 97.80 | -883.04 | -4,955.76 | 843.00 | 567.84 | 275.16 | 3.064 | | |
| 11,800.00 | 6,933.82 | 11,769.63 | 7,048.20 | 140.96 | 140.86 | 97.80 | -883.86 | -5,055.75 | 842.79 | 562.12 | 280.66 | 3.003 | | |
| 11,900.00 | 6,933.44 | 11,869.63 | 7,047.80 | 143.74 | 143.65 | 97.80 | -884.67 | -5,155.75 | 842.57 | 556.40 | 286.17 | 2.944 | | |
| 12,000.00 | 6,933.06 | 11,969.63 | 7,047.41 | 146.51 | 146.44 | 97.80 | -885.48 | -5,255.74 | 842.36 | 550.67 | 291.69 | 2.888 | | |
| 12,100.00 | 6,932.68 | 12,069.62 | 7,047.02 | 149.30 | 149.22 | 97.80 | -886.29 | -5,355.74 | 842.15 | 544.94 | 297.21 | 2.834 | | |
| 12,200.00 | 6,932.30 | 12,169.62 | 7,046.62 | 152.08 | 152.02 | 97.80 | -887.10 | -5,455.73 | 841.94 | 539.20 | 302.74 | 2.781 | | |
| 12,300.00 | 6,931.92 | 12,269.62 | 7,046.23 | 154.87 | 154.81 | 97.81 | -887.91 | -5,555.73 | 841.72 | 533.45 | 308.27 | 2.730 | | |
| 12,400.00 | 6,931.54 | 12,369.62 | 7,045.84 | 157.66 | 157.61 | 97.81 | -888.73 | -5,655.73 | 841.51 | 527.71 | 313.80 | 2.682 | | |
| 12,500.00 | 6,931.16 | 12,469.62 | 7,045.44 | 160.45 | 160.41 | 97.81 | -889.54 | -5,755.72 | 841.30 | 521.95 | 319.34 | 2.634 | | |
| 12,600.00 | 6,930.78 | 12,569.62 | 7,045.05 | 163.24 | 163.21 | 97.81 | -890.35 | -5,855.72 | 841.08 | 516.19 | 324.89 | 2.589 | | |
| 12,700.00 | 6,930.40 | 12,669.62 | 7,044.66 | 166.04 | 166.01 | 97.81 | -891.16 | -5,955.71 | 840.87 | 510.43 | 330.44 | 2.545 | | |
| 12,800.00 | 6,930.03 | 12,769.62 | 7,044.27 | 168.84 | 168.82 | 97.81 | -891.97 | -6,055.71 | 840.66 | 504.66 | 335.99 | 2.502 | | |
| 12,900.00 | 6,929.65 | 12,869.62 | 7,043.87 | 171.64 | 171.62 | 97.81 | -892.78 | -6,155.70 | 840.44 | 498.89 | 341.55 | 2.461 | | |
| 13,000.00 | 6,929.27 | 12,969.62 | 7,043.48 | 174.44 | 174.43 | 97.81 | -893.60 | -6,255.70 | 840.23 | 493.12 | 347.11 | 2.421 | | |
| 13,100.00 | 6,928.89 | 13,069.62 | 7,043.09 | 177.24 | 177.24 | 97.81 | -894.41 | -6,355.70 | 840.02 | 487.34 | 352.67 | 2.382 | | |
| 13,200.00 | 6,928.51 | 13,169.62 | 7,042.69 | 180.05 | 180.05 | 97.82 | -895.22 | -6,455.69 | 839.81 | 481.56 | 358.24 | 2.344 | | |
| 13,300.00 | 6,928.13 | 13,269.62 | 7,042.30 | 182.86 | 182.87 | 97.82 | -896.03 | -6,555.69 | 839.59 | 475.78 | 363.81 | 2.308 | | |
| 13,400.00 | 6,927.75 | 13,369.62 | 7,041.91 | 185.67 | 185.68 | 97.82 | -896.84 | -6,655.68 | 839.38 | 469.99 | 369.38 | 2.272 | | |
| 13,500.00 | 6,927.37 | 13,469.62 | 7,041.51 | 188.48 | 188.49 | 97.82 | -897.65 | -6,755.68 | 839.17 | 464.21 | 374.96 | 2.238 | | |
| 13,600.00 | 6,926.99 | 13,569.62 | 7,041.12 | 191.29 | 191.31 | 97.82 | -898.47 | -6,855.67 | 838.95 | 458.41 | 380.54 | 2.205 | | |
| 13,700.00 | 6,926.61 | 13,669.62 | 7,040.73 | 194.10 | 194.13 | 97.82 | -899.28 | -6,955.67 | 838.74 | 452.62 | 386.12 | 2.172 | | |
| 13,800.00 | 6,926.23 | 13,769.62 | 7,040.33 | 196.92 | 196.95 | 97.82 | -900.09 | -7,055.67 | 838.53 | 446.82 | 391.70 | 2.141 | | |
| 13,900.00 | 6,925.85 | 13,869.62 | 7,039.94 | 199.73 | 199.77 | 97.82 | -900.90 | -7,155.66 | 838.31 | 441.02 | 397.29 | 2.110 | | |
| 14,000.00 | 6,925.47 | 13,969.62 | 7,039.55 | 202.55 | 202.59 | 97.82 | -901.71 | -7,255.66 | 838.10 | 435.22 | 402.88 | 2.080 | | |
| 14,100.00 | 6,925.09 | 14,069.62 | 7,039.15 | 205.37 | 205.41 | 97.82 | -902.53 | -7,355.65 | 837.89 | 429.42 | 408.47 | 2.051 | | |
| 14,200.00 | 6,924.71 | 14,169.62 | 7,038.76 | 208.19 | 208.24 | 97.83 | -903.34 | -7,455.65 | 837.68 | 423.62 | 414.06 | 2.023 | | |
| 14,300.00 | 6,924.34 | 14,269.62 | 7,038.37 | 211.01 | 211.06 | 97.83 | -904.15 | -7,555.64 | 837.46 | 417.81 | 419.65 | 1.996 | | |
| 14,400.00 | 6,923.96 | 14,369.62 | 7,037.97 | 213.83 | 213.89 | 97.83 | -904.96 | -7,655.64 | 837.25 | 412.00 | 425.25 | 1.969 | | |
| 14,500.00 | 6,923.58 | 14,469.62 | 7,037.58 | 216.65 | 216.71 | 97.83 | -905.77 | -7,755.64 | 837.04 | 406.19 | 430.85 | 1.943 | | |
| 14,600.00 | 6,923.20 | 14,569.62 | 7,037.19 | 219.48 | 219.54 | 97.83 | -906.58 | -7,855.63 | 836.82 | 400.38 | 436.45 | 1.917 | | |
| 14,700.00 | 6,922.82 | 14,669.62 | 7,036.80 | 222.30 | 222.37 | 97.83 | -907.40 | -7,955.63 | 836.61 | 394.56 | 442.05 | 1.893 | | |
| 14,800.00 | 6,922.44 | 14,769.62 | 7,036.40 | 225.13 | 225.19 | 97.83 | -908.21 | -8,055.62 | 836.40 | 388.74 | 447.65 | 1.868 | | |
| 14,900.00 | 6,922.06 | 14,869.62 | 7,036.01 | 227.95 | 228.02 | 97.83 | -909.02 | -8,155.62 | 836.18 | 382.93 | 453.26 | 1.845 | | |
| 14,909.45 | 6,922.02 | 14,879.07 | 7,035.97 | 228.22 | 228.29 | 97.83 | -909.10 | -8,165.07 | 836.16 | 382.38 | 453.79 | 1.843 SF | | |
| 14,915.55 | 6,922.00 | 14,871.88 | 7,036.00 | 228.39 | 228.09 | 97.83 | -909.04 | -8,157.88 | 836.26 | 382.70 | 453.55 | 1.844 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.50 | 160.30 | 1.39 | 160.31 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.50 | 160.30 | 1.39 | 160.31 | 153.74 | 6.57 | 24.401 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.50 | 160.30 | 1.39 | 160.31 | 153.63 | 6.67 | 24.017 | CC, ES | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.17 | 160.30 | 1.39 | 162.05 | 155.16 | 6.89 | 23.532 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.31 | 160.30 | 1.39 | 167.26 | 160.07 | 7.20 | 23.240 | | |
| 500.00 | 499.45 | 500.45 | 499.45 | 3.79 | 3.81 | 175.53 | 160.30 | 1.39 | 175.95 | 168.35 | 7.60 | 23.153 | | |
| 600.00 | 598.70 | 601.05 | 600.05 | 4.03 | 4.05 | 175.80 | 160.23 | 1.37 | 188.03 | 179.95 | 8.08 | 23.270 | | |
| 700.00 | 697.47 | 707.25 | 706.21 | 4.31 | 4.31 | 175.97 | 157.55 | 0.75 | 201.13 | 192.50 | 8.63 | 23.313 | | |
| 800.00 | 795.62 | 813.98 | 812.72 | 4.64 | 4.61 | 175.96 | 151.00 | -0.78 | 214.07 | 204.83 | 9.25 | 23.145 | | |
| 900.00 | 893.06 | 919.46 | 917.68 | 5.00 | 4.94 | 175.83 | 140.82 | -3.16 | 226.93 | 217.01 | 9.92 | 22.869 | | |
| 1,000.00 | 989.78 | 1,018.38 | 1,015.98 | 5.39 | 5.26 | 175.72 | 130.14 | -5.66 | 241.59 | 230.98 | 10.61 | 22.779 | | |
| 1,100.00 | 1,086.42 | 1,117.25 | 1,114.24 | 5.81 | 5.60 | 175.63 | 119.46 | -8.15 | 256.60 | 245.28 | 11.32 | 22.675 | | |
| 1,200.00 | 1,183.06 | 1,216.11 | 1,212.50 | 6.25 | 5.96 | 175.56 | 108.79 | -10.65 | 271.61 | 259.55 | 12.06 | 22.525 | | |
| 1,300.00 | 1,279.69 | 1,314.98 | 1,310.76 | 6.71 | 6.34 | 175.49 | 98.12 | -13.14 | 286.62 | 273.80 | 12.82 | 22.349 | | |
| 1,400.00 | 1,376.33 | 1,413.84 | 1,409.01 | 7.17 | 6.72 | 175.43 | 87.44 | -15.63 | 301.63 | 288.02 | 13.61 | 22.159 | | |
| 1,500.00 | 1,472.97 | 1,512.71 | 1,507.27 | 7.65 | 7.11 | 175.37 | 76.77 | -18.13 | 316.65 | 302.23 | 14.42 | 21.963 | | |
| 1,600.00 | 1,569.61 | 1,611.58 | 1,605.53 | 8.13 | 7.51 | 175.32 | 66.10 | -20.62 | 331.66 | 316.42 | 15.24 | 21.768 | | |
| 1,700.00 | 1,666.24 | 1,710.44 | 1,703.78 | 8.62 | 7.91 | 175.28 | 55.42 | -23.12 | 346.67 | 330.60 | 16.07 | 21.575 | | |
| 1,800.00 | 1,762.88 | 1,809.31 | 1,802.04 | 9.12 | 8.32 | 175.24 | 44.75 | -25.61 | 361.68 | 344.77 | 16.91 | 21.389 | | |
| 1,900.00 | 1,859.52 | 1,908.18 | 1,900.30 | 9.62 | 8.74 | 175.20 | 34.08 | -28.10 | 376.70 | 358.94 | 17.76 | 21.209 | | |
| 2,000.00 | 1,956.16 | 2,007.04 | 1,998.55 | 10.13 | 9.16 | 175.16 | 23.40 | -30.60 | 391.71 | 373.09 | 18.62 | 21.037 | | |
| 2,100.00 | 2,052.79 | 2,105.91 | 2,096.81 | 10.64 | 9.58 | 175.13 | 12.73 | -33.09 | 406.72 | 387.24 | 19.49 | 20.873 | | |
| 2,200.00 | 2,149.43 | 2,204.78 | 2,195.07 | 11.15 | 10.01 | 175.10 | 2.06 | -35.59 | 421.74 | 401.38 | 20.36 | 20.717 | | |
| 2,300.00 | 2,246.07 | 2,303.64 | 2,293.32 | 11.66 | 10.44 | 175.07 | -8.62 | -38.08 | 436.75 | 415.52 | 21.23 | 20.568 | | |
| 2,400.00 | 2,342.71 | 2,402.51 | 2,391.58 | 12.18 | 10.87 | 175.04 | -19.29 | -40.58 | 451.76 | 429.65 | 22.12 | 20.428 | | |
| 2,500.00 | 2,439.34 | 2,501.37 | 2,489.84 | 12.70 | 11.30 | 175.02 | -29.96 | -43.07 | 466.78 | 443.78 | 23.00 | 20.294 | | |
| 2,600.00 | 2,535.98 | 2,600.24 | 2,588.09 | 13.22 | 11.73 | 175.00 | -40.64 | -45.56 | 481.79 | 457.90 | 23.89 | 20.167 | | |
| 2,700.00 | 2,632.62 | 2,700.89 | 2,686.35 | 13.75 | 12.18 | 174.97 | -51.31 | -48.06 | 496.81 | 472.02 | 24.79 | 20.041 | | |
| 2,800.00 | 2,729.26 | 2,802.03 | 2,784.61 | 14.27 | 12.63 | 174.95 | -61.98 | -50.55 | 511.82 | 486.13 | 25.69 | 19.920 | | |
| 2,900.00 | 2,825.89 | 2,903.16 | 2,882.86 | 14.80 | 13.08 | 174.93 | -72.66 | -53.05 | 526.83 | 500.23 | 26.60 | 19.804 | | |
| 3,000.00 | 2,922.53 | 3,004.29 | 2,981.12 | 15.32 | 13.53 | 174.92 | -83.33 | -55.54 | 541.85 | 514.34 | 27.51 | 19.695 | | |
| 3,100.00 | 3,019.17 | 3,105.43 | 3,079.38 | 15.85 | 13.98 | 174.90 | -94.00 | -58.03 | 556.86 | 528.44 | 28.42 | 19.592 | | |
| 3,200.00 | 3,115.81 | 3,206.56 | 3,177.64 | 16.38 | 14.43 | 174.88 | -104.68 | -60.53 | 571.88 | 542.54 | 29.34 | 19.493 | | |
| 3,300.00 | 3,212.44 | 3,307.70 | 3,275.89 | 16.91 | 14.88 | 174.87 | -115.35 | -63.02 | 586.89 | 556.64 | 30.25 | 19.399 | | |
| 3,400.00 | 3,309.08 | 3,408.83 | 3,374.15 | 17.44 | 15.34 | 174.85 | -126.02 | -65.52 | 601.90 | 570.73 | 31.17 | 19.310 | | |
| 3,500.00 | 3,405.72 | 3,490.04 | 3,472.41 | 17.97 | 15.70 | 174.84 | -136.70 | -68.01 | 616.92 | 584.92 | 32.00 | 19.278 | | |
| 3,600.00 | 3,502.36 | 3,588.90 | 3,570.66 | 18.50 | 16.15 | 174.82 | -147.37 | -70.50 | 631.93 | 599.02 | 32.91 | 19.201 | | |
| 3,700.00 | 3,598.99 | 3,687.77 | 3,668.92 | 19.03 | 16.60 | 174.81 | -158.04 | -73.00 | 646.95 | 613.12 | 33.82 | 19.127 | | |
| 3,800.00 | 3,695.63 | 3,786.64 | 3,767.18 | 19.57 | 17.04 | 174.80 | -168.72 | -75.49 | 661.96 | 627.23 | 34.74 | 19.057 | | |
| 3,900.00 | 3,792.27 | 3,885.50 | 3,865.43 | 20.10 | 17.49 | 174.79 | -179.39 | -77.99 | 676.98 | 641.33 | 35.65 | 18.990 | | |
| 4,000.00 | 3,888.91 | 3,984.37 | 3,963.69 | 20.63 | 17.94 | 174.78 | -190.06 | -80.48 | 691.99 | 655.43 | 36.56 | 18.926 | | |
| 4,100.00 | 3,985.54 | 4,083.24 | 4,061.95 | 21.17 | 18.39 | 174.76 | -200.74 | -82.97 | 707.00 | 669.53 | 37.48 | 18.864 | | |
| 4,200.00 | 4,082.18 | 4,182.10 | 4,160.20 | 21.70 | 18.84 | 174.75 | -211.41 | -85.47 | 722.02 | 683.62 | 38.39 | 18.805 | | |
| 4,300.00 | 4,178.82 | 4,280.97 | 4,258.46 | 22.24 | 19.28 | 174.74 | -222.08 | -87.96 | 737.03 | 697.72 | 39.31 | 18.749 | | |
| 4,400.00 | 4,275.46 | 4,379.83 | 4,356.72 | 22.77 | 19.73 | 174.73 | -232.75 | -90.46 | 752.05 | 711.82 | 40.23 | 18.694 | | |
| 4,500.00 | 4,372.09 | 4,478.70 | 4,454.97 | 23.31 | 20.18 | 174.73 | -243.43 | -92.95 | 767.06 | 725.91 | 41.15 | 18.642 | | |
| 4,600.00 | 4,468.73 | 4,577.57 | 4,553.23 | 23.84 | 20.63 | 174.72 | -254.10 | -95.45 | 782.08 | 740.01 | 42.07 | 18.592 | | |
| 4,700.00 | 4,565.37 | 4,676.43 | 4,651.49 | 24.38 | 21.08 | 174.71 | -264.77 | -97.94 | 797.09 | 754.10 | 42.99 | 18.543 | | |
| 4,800.00 | 4,662.01 | 4,775.30 | 4,749.75 | 24.91 | 21.54 | 174.70 | -275.45 | -100.43 | 812.11 | 768.20 | 43.91 | 18.496 | | |
| 4,900.00 | 4,758.64 | 4,874.17 | 4,848.00 | 25.45 | 21.99 | 174.69 | -286.12 | -102.93 | 827.12 | 782.29 | 44.83 | 18.452 | | |
| 5,000.00 | 4,855.28 | 4,973.03 | 4,946.26 | 25.99 | 22.44 | 174.69 | -296.79 | -105.42 | 842.13 | 796.39 | 45.75 | 18.408 | | |
| 5,100.00 | 4,951.92 | 5,071.90 | 5,044.52 | 26.53 | 22.89 | 174.68 | -307.47 | -107.92 | 857.15 | 810.48 | 46.67 | 18.366 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,170.77 | 5,142.77 | 27.06 | 23.34 | 174.67 | -318.14 | -110.41 | 872.16 | 824.57 | 47.59 | 18.326 | | |
| 5,300.00 | 5,145.19 | 5,269.63 | 5,241.03 | 27.60 | 23.79 | 174.66 | -328.81 | -112.90 | 887.18 | 838.66 | 48.51 | 18.287 | | |
| 5,400.00 | 5,241.83 | 5,368.50 | 5,339.29 | 28.14 | 24.24 | 174.66 | -339.49 | -115.40 | 902.19 | 852.76 | 49.44 | 18.250 | | |
| 5,500.00 | 5,338.47 | 5,467.36 | 5,437.54 | 28.67 | 24.70 | 174.65 | -350.16 | -117.89 | 917.21 | 866.85 | 50.36 | 18.213 | | |
| 5,600.00 | 5,435.11 | 5,566.23 | 5,535.80 | 29.21 | 25.15 | 174.64 | -360.83 | -120.39 | 932.22 | 880.94 | 51.28 | 18.178 | | |
| 5,700.00 | 5,531.74 | 5,665.10 | 5,634.06 | 29.75 | 25.60 | 174.64 | -371.51 | -122.88 | 947.24 | 895.03 | 52.21 | 18.144 | | |
| 5,800.00 | 5,628.38 | 5,763.96 | 5,732.31 | 30.29 | 26.06 | 174.63 | -382.18 | -125.37 | 962.25 | 909.12 | 53.13 | 18.111 | | |
| 5,900.00 | 5,725.02 | 5,862.83 | 5,830.57 | 30.83 | 26.51 | 174.63 | -392.85 | -127.87 | 977.27 | 923.21 | 54.06 | 18.079 | | |
| 6,000.00 | 5,821.66 | 5,961.70 | 5,928.83 | 31.37 | 26.96 | 174.62 | -403.53 | -130.36 | 992.28 | 937.30 | 54.98 | 18.048 | | |
| 6,100.00 | 5,918.29 | 6,060.56 | 6,027.08 | 31.90 | 27.41 | 174.62 | -414.20 | -132.86 | 1,007.30 | 951.39 | 55.91 | 18.018 | | |
| 6,200.00 | 6,014.93 | 6,159.43 | 6,125.34 | 32.44 | 27.87 | 174.61 | -424.87 | -135.35 | 1,022.31 | 965.48 | 56.83 | 17.989 | | |
| 6,300.00 | 6,111.57 | 6,258.29 | 6,223.60 | 32.98 | 28.32 | 174.61 | -435.55 | -137.84 | 1,037.32 | 979.57 | 57.76 | 17.960 | | |
| 6,400.00 | 6,208.21 | 6,357.16 | 6,321.86 | 33.52 | 28.77 | 174.60 | -446.22 | -140.34 | 1,052.34 | 993.66 | 58.68 | 17.933 | | |
| 6,500.00 | 6,304.84 | 6,456.03 | 6,420.11 | 34.06 | 29.23 | 174.60 | -456.89 | -142.83 | 1,067.35 | 1,007.75 | 59.61 | 17.906 | | |
| 6,600.00 | 6,401.37 | 6,554.92 | 6,518.39 | 34.60 | 29.68 | 157.29 | -467.57 | -145.35 | 1,082.37 | 1,021.84 | 60.53 | 17.880 | | |
| 6,700.00 | 6,496.25 | 6,655.90 | 6,618.05 | 35.12 | 30.14 | 133.85 | -478.47 | -156.63 | 1,097.19 | 1,035.73 | 61.47 | 17.850 | | |
| 6,800.00 | 6,587.15 | 6,758.24 | 6,715.92 | 35.59 | 30.59 | 120.55 | -489.31 | -184.07 | 1,111.43 | 1,049.04 | 62.38 | 17.816 | | |
| 6,900.00 | 6,671.83 | 6,861.98 | 6,809.37 | 36.03 | 31.02 | 112.67 | -499.80 | -227.61 | 1,124.71 | 1,061.42 | 63.29 | 17.771 | | |
| 7,000.00 | 6,748.21 | 6,967.12 | 6,895.63 | 36.41 | 31.42 | 107.63 | -509.64 | -286.71 | 1,136.71 | 1,072.49 | 64.22 | 17.700 | | |
| 7,100.00 | 6,814.41 | 7,073.60 | 6,971.92 | 36.76 | 31.81 | 104.24 | -518.51 | -360.27 | 1,147.11 | 1,081.87 | 65.25 | 17.581 | | |
| 7,200.00 | 6,868.79 | 7,181.25 | 7,035.57 | 37.07 | 32.26 | 101.90 | -526.13 | -446.59 | 1,155.64 | 1,089.17 | 66.47 | 17.385 | | |
| 7,300.00 | 6,910.01 | 7,289.83 | 7,084.21 | 37.39 | 32.91 | 100.32 | -532.20 | -543.33 | 1,162.07 | 1,094.07 | 68.00 | 17.089 | | |
| 7,400.00 | 6,937.07 | 7,399.02 | 7,115.94 | 37.76 | 33.83 | 99.35 | -536.50 | -647.58 | 1,166.23 | 1,096.33 | 69.90 | 16.684 | | |
| 7,500.00 | 6,949.29 | 7,508.45 | 7,129.51 | 38.27 | 35.00 | 98.90 | -538.86 | -756.00 | 1,168.00 | 1,095.83 | 72.17 | 16.184 | | |
| 7,600.00 | 6,949.75 | 7,610.84 | 7,129.67 | 39.02 | 36.28 | 98.86 | -539.72 | -858.38 | 1,167.93 | 1,093.26 | 74.67 | 15.641 | | |
| 7,700.00 | 6,949.37 | 7,710.84 | 7,129.24 | 40.05 | 37.71 | 98.86 | -540.50 | -958.38 | 1,167.75 | 1,090.28 | 77.46 | 15.075 | | |
| 7,800.00 | 6,948.99 | 7,810.84 | 7,128.80 | 41.35 | 39.30 | 98.86 | -541.28 | -1,058.37 | 1,167.56 | 1,087.01 | 80.56 | 14.494 | | |
| 7,900.00 | 6,948.61 | 7,910.83 | 7,128.37 | 42.86 | 41.03 | 98.86 | -542.05 | -1,158.37 | 1,167.38 | 1,083.46 | 83.92 | 13.911 | | |
| 8,000.00 | 6,948.23 | 8,010.83 | 7,127.94 | 44.53 | 42.88 | 98.86 | -542.83 | -1,258.36 | 1,167.19 | 1,079.68 | 87.51 | 13.337 | | |
| 8,100.00 | 6,947.85 | 8,110.83 | 7,127.50 | 46.34 | 44.84 | 98.86 | -543.61 | -1,358.36 | 1,167.01 | 1,075.69 | 91.32 | 12.779 | | |
| 8,200.00 | 6,947.47 | 8,210.83 | 7,127.07 | 48.26 | 46.89 | 98.85 | -544.39 | -1,458.36 | 1,166.82 | 1,071.51 | 95.31 | 12.243 | | |
| 8,300.00 | 6,947.09 | 8,310.83 | 7,126.64 | 50.28 | 49.02 | 98.85 | -545.16 | -1,558.35 | 1,166.64 | 1,067.18 | 99.46 | 11.730 | | |
| 8,400.00 | 6,946.72 | 8,410.83 | 7,126.20 | 52.39 | 51.23 | 98.85 | -545.94 | -1,658.35 | 1,166.45 | 1,062.70 | 103.75 | 11.243 | | |
| 8,500.00 | 6,946.34 | 8,510.83 | 7,125.77 | 54.56 | 53.49 | 98.85 | -546.72 | -1,758.34 | 1,166.27 | 1,058.10 | 108.17 | 10.782 | | |
| 8,600.00 | 6,945.96 | 8,610.83 | 7,125.33 | 56.80 | 55.81 | 98.85 | -547.50 | -1,858.34 | 1,166.08 | 1,053.38 | 112.70 | 10.347 | | |
| 8,700.00 | 6,945.58 | 8,710.83 | 7,124.90 | 59.10 | 58.18 | 98.85 | -548.27 | -1,958.34 | 1,165.90 | 1,048.57 | 117.33 | 9.937 | | |
| 8,800.00 | 6,945.20 | 8,810.83 | 7,124.47 | 61.44 | 60.59 | 98.85 | -549.05 | -2,058.33 | 1,165.71 | 1,043.67 | 122.04 | 9.552 | | |
| 8,900.00 | 6,944.82 | 8,910.83 | 7,124.03 | 63.83 | 63.04 | 98.85 | -549.83 | -2,158.33 | 1,165.53 | 1,038.70 | 126.83 | 9.190 | | |
| 9,000.00 | 6,944.44 | 9,010.83 | 7,123.60 | 66.25 | 65.52 | 98.84 | -550.61 | -2,258.32 | 1,165.34 | 1,033.65 | 131.69 | 8.849 | | |
| 9,100.00 | 6,944.06 | 9,110.83 | 7,123.16 | 68.71 | 68.03 | 98.84 | -551.38 | -2,358.32 | 1,165.16 | 1,028.55 | 136.61 | 8.529 | | |
| 9,200.00 | 6,943.68 | 9,210.83 | 7,122.73 | 71.20 | 70.57 | 98.84 | -552.16 | -2,458.32 | 1,164.97 | 1,023.39 | 141.58 | 8.228 | | |
| 9,300.00 | 6,943.30 | 9,310.83 | 7,122.30 | 73.72 | 73.13 | 98.84 | -552.94 | -2,558.31 | 1,164.79 | 1,018.18 | 146.60 | 7.945 | | |
| 9,400.00 | 6,942.92 | 9,410.83 | 7,121.86 | 76.26 | 75.71 | 98.84 | -553.72 | -2,658.31 | 1,164.60 | 1,012.93 | 151.67 | 7.678 | | |
| 9,500.00 | 6,942.54 | 9,510.83 | 7,121.43 | 78.82 | 78.31 | 98.84 | -554.49 | -2,758.30 | 1,164.42 | 1,007.63 | 156.78 | 7.427 | | |
| 9,600.00 | 6,942.16 | 9,610.83 | 7,120.99 | 81.40 | 80.93 | 98.84 | -555.27 | -2,858.30 | 1,164.23 | 1,002.30 | 161.93 | 7.190 | | |
| 9,700.00 | 6,941.78 | 9,710.83 | 7,120.56 | 84.00 | 83.57 | 98.84 | -556.05 | -2,958.29 | 1,164.05 | 996.94 | 167.10 | 6.966 | | |
| 9,800.00 | 6,941.40 | 9,810.83 | 7,120.13 | 86.62 | 86.22 | 98.83 | -556.82 | -3,058.29 | 1,163.86 | 991.55 | 172.31 | 6.754 | | |
| 9,900.00 | 6,941.03 | 9,910.83 | 7,119.69 | 89.25 | 88.88 | 98.83 | -557.60 | -3,158.29 | 1,163.68 | 986.13 | 177.55 | 6.554 | | |
| 10,000.00 | 6,940.65 | 10,010.83 | 7,119.26 | 91.90 | 91.55 | 98.83 | -558.38 | -3,258.28 | 1,163.49 | 980.68 | 182.81 | 6.365 | | |
| 10,100.00 | 6,940.27 | 10,110.83 | 7,118.82 | 94.56 | 94.24 | 98.83 | -559.16 | -3,358.28 | 1,163.31 | 975.22 | 188.09 | 6.185 | | |
| 10,200.00 | 6,939.89 | 10,210.83 | 7,118.39 | 97.23 | 96.93 | 98.83 | -559.93 | -3,458.27 | 1,163.12 | 969.73 | 193.39 | 6.014 | | |
| 10,300.00 | 6,939.51 | 10,310.83 | 7,117.96 | 99.91 | 99.64 | 98.83 | -560.71 | -3,558.27 | 1,162.94 | 964.22 | 198.72 | 5.852 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 32N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,410.83 | 7,117.52 | 102.60 | 102.35 | 98.83 | -561.49 | -3,658.27 | 1,162.75 | 958.69 | 204.06 | 5.698 | | |
| 10,500.00 | 6,938.75 | 10,510.83 | 7,117.09 | 105.30 | 105.07 | 98.82 | -562.27 | -3,758.26 | 1,162.57 | 953.15 | 209.42 | 5.551 | | |
| 10,600.00 | 6,938.37 | 10,610.83 | 7,116.65 | 108.00 | 107.79 | 98.82 | -563.04 | -3,858.26 | 1,162.38 | 947.59 | 214.79 | 5.412 | | |
| 10,700.00 | 6,937.99 | 10,710.83 | 7,116.22 | 110.72 | 110.53 | 98.82 | -563.82 | -3,958.25 | 1,162.20 | 942.02 | 220.18 | 5.278 | | |
| 10,800.00 | 6,937.61 | 10,810.83 | 7,115.79 | 113.44 | 113.27 | 98.82 | -564.60 | -4,058.25 | 1,162.01 | 936.43 | 225.58 | 5.151 | | |
| 10,900.00 | 6,937.23 | 10,910.83 | 7,115.35 | 116.17 | 116.01 | 98.82 | -565.38 | -4,158.24 | 1,161.83 | 930.84 | 230.99 | 5.030 | | |
| 11,000.00 | 6,936.85 | 11,010.83 | 7,114.92 | 118.90 | 118.76 | 98.82 | -566.15 | -4,258.24 | 1,161.64 | 925.23 | 236.41 | 4.914 | | |
| 11,100.00 | 6,936.47 | 11,110.83 | 7,114.49 | 121.64 | 121.52 | 98.82 | -566.93 | -4,358.24 | 1,161.46 | 919.61 | 241.85 | 4.802 | | |
| 11,200.00 | 6,936.09 | 11,210.83 | 7,114.05 | 124.39 | 124.28 | 98.82 | -567.71 | -4,458.23 | 1,161.27 | 913.98 | 247.29 | 4.696 | | |
| 11,300.00 | 6,935.71 | 11,310.83 | 7,113.62 | 127.14 | 127.04 | 98.81 | -568.49 | -4,558.23 | 1,161.09 | 908.34 | 252.75 | 4.594 | | |
| 11,400.00 | 6,935.34 | 11,410.83 | 7,113.18 | 129.90 | 129.81 | 98.81 | -569.26 | -4,658.22 | 1,160.90 | 902.69 | 258.21 | 4.496 | | |
| 11,500.00 | 6,934.96 | 11,510.83 | 7,112.75 | 132.66 | 132.59 | 98.81 | -570.04 | -4,758.22 | 1,160.72 | 897.03 | 263.68 | 4.402 | | |
| 11,600.00 | 6,934.58 | 11,610.83 | 7,112.32 | 135.42 | 135.36 | 98.81 | -570.82 | -4,858.22 | 1,160.53 | 891.37 | 269.16 | 4.312 | | |
| 11,700.00 | 6,934.20 | 11,710.83 | 7,111.88 | 138.19 | 138.14 | 98.81 | -571.59 | -4,958.21 | 1,160.35 | 885.70 | 274.65 | 4.225 | | |
| 11,800.00 | 6,933.82 | 11,810.83 | 7,111.45 | 140.96 | 140.92 | 98.81 | -572.37 | -5,058.21 | 1,160.16 | 880.02 | 280.14 | 4.141 | | |
| 11,900.00 | 6,933.44 | 11,910.83 | 7,111.01 | 143.74 | 143.71 | 98.81 | -573.15 | -5,158.20 | 1,159.98 | 874.34 | 285.64 | 4.061 | | |
| 12,000.00 | 6,933.06 | 12,010.83 | 7,110.58 | 146.51 | 146.50 | 98.80 | -573.93 | -5,258.20 | 1,159.79 | 868.65 | 291.14 | 3.984 | | |
| 12,100.00 | 6,932.68 | 12,110.83 | 7,110.15 | 149.30 | 149.29 | 98.80 | -574.70 | -5,358.20 | 1,159.61 | 862.95 | 296.65 | 3.909 | | |
| 12,200.00 | 6,932.30 | 12,210.83 | 7,109.71 | 152.08 | 152.08 | 98.80 | -575.48 | -5,458.19 | 1,159.42 | 857.25 | 302.17 | 3.837 | | |
| 12,300.00 | 6,931.92 | 12,310.83 | 7,109.28 | 154.87 | 154.88 | 98.80 | -576.26 | -5,558.19 | 1,159.24 | 851.55 | 307.69 | 3.768 | | |
| 12,400.00 | 6,931.54 | 12,410.83 | 7,108.84 | 157.66 | 157.68 | 98.80 | -577.04 | -5,658.18 | 1,159.05 | 845.84 | 313.21 | 3.701 | | |
| 12,500.00 | 6,931.16 | 12,510.83 | 7,108.41 | 160.45 | 160.48 | 98.80 | -577.81 | -5,758.18 | 1,158.87 | 840.12 | 318.75 | 3.636 | | |
| 12,600.00 | 6,930.78 | 12,610.83 | 7,107.98 | 163.24 | 163.28 | 98.80 | -578.59 | -5,858.17 | 1,158.68 | 834.40 | 324.28 | 3.573 | | |
| 12,700.00 | 6,930.40 | 12,710.83 | 7,107.54 | 166.04 | 166.08 | 98.80 | -579.37 | -5,958.17 | 1,158.50 | 828.68 | 329.82 | 3.513 | | |
| 12,800.00 | 6,930.03 | 12,810.83 | 7,107.11 | 168.84 | 168.89 | 98.79 | -580.15 | -6,058.17 | 1,158.31 | 822.95 | 335.36 | 3.454 | | |
| 12,900.00 | 6,929.65 | 12,910.83 | 7,106.67 | 171.64 | 171.70 | 98.79 | -580.92 | -6,158.16 | 1,158.13 | 817.22 | 340.91 | 3.397 | | |
| 13,000.00 | 6,929.27 | 13,010.83 | 7,106.24 | 174.44 | 174.51 | 98.79 | -581.70 | -6,258.16 | 1,157.94 | 811.48 | 346.46 | 3.342 | | |
| 13,100.00 | 6,928.89 | 13,110.83 | 7,105.81 | 177.24 | 177.32 | 98.79 | -582.48 | -6,358.15 | 1,157.76 | 805.74 | 352.01 | 3.289 | | |
| 13,200.00 | 6,928.51 | 13,210.83 | 7,105.37 | 180.05 | 180.13 | 98.79 | -583.26 | -6,458.15 | 1,157.57 | 800.00 | 357.57 | 3.237 | | |
| 13,300.00 | 6,928.13 | 13,310.83 | 7,104.94 | 182.86 | 182.94 | 98.79 | -584.03 | -6,558.15 | 1,157.39 | 794.26 | 363.13 | 3.187 | | |
| 13,400.00 | 6,927.75 | 13,410.83 | 7,104.51 | 185.67 | 185.76 | 98.79 | -584.81 | -6,658.14 | 1,157.20 | 788.51 | 368.69 | 3.139 | | |
| 13,500.00 | 6,927.37 | 13,510.83 | 7,104.07 | 188.48 | 188.58 | 98.79 | -585.59 | -6,758.14 | 1,157.02 | 782.76 | 374.26 | 3.091 | | |
| 13,600.00 | 6,926.99 | 13,610.83 | 7,103.64 | 191.29 | 191.39 | 98.78 | -586.36 | -6,858.13 | 1,156.83 | 777.01 | 379.83 | 3.046 | | |
| 13,700.00 | 6,926.61 | 13,710.82 | 7,103.20 | 194.10 | 194.21 | 98.78 | -587.14 | -6,958.13 | 1,156.65 | 771.25 | 385.40 | 3.001 | | |
| 13,800.00 | 6,926.23 | 13,810.82 | 7,102.77 | 196.92 | 197.03 | 98.78 | -587.92 | -7,058.12 | 1,156.46 | 765.49 | 390.97 | 2.958 | | |
| 13,900.00 | 6,925.85 | 13,910.82 | 7,102.34 | 199.73 | 199.85 | 98.78 | -588.70 | -7,158.12 | 1,156.28 | 759.73 | 396.55 | 2.916 | | |
| 14,000.00 | 6,925.47 | 14,010.82 | 7,101.90 | 202.55 | 202.68 | 98.78 | -589.47 | -7,258.12 | 1,156.09 | 753.97 | 402.12 | 2.875 | | |
| 14,100.00 | 6,925.09 | 14,110.82 | 7,101.47 | 205.37 | 205.50 | 98.78 | -590.25 | -7,358.11 | 1,155.91 | 748.20 | 407.70 | 2.835 | | |
| 14,200.00 | 6,924.71 | 14,210.82 | 7,101.03 | 208.19 | 208.32 | 98.78 | -591.03 | -7,458.11 | 1,155.72 | 742.43 | 413.29 | 2.796 | | |
| 14,300.00 | 6,924.34 | 14,310.82 | 7,100.60 | 211.01 | 211.15 | 98.77 | -591.81 | -7,558.10 | 1,155.54 | 736.67 | 418.87 | 2.759 | | |
| 14,400.00 | 6,923.96 | 14,410.82 | 7,100.17 | 213.83 | 213.97 | 98.77 | -592.58 | -7,658.10 | 1,155.35 | 730.89 | 424.46 | 2.722 | | |
| 14,500.00 | 6,923.58 | 14,510.82 | 7,099.73 | 216.65 | 216.80 | 98.77 | -593.36 | -7,758.10 | 1,155.17 | 725.12 | 430.05 | 2.686 | | |
| 14,600.00 | 6,923.20 | 14,610.82 | 7,099.30 | 219.48 | 219.63 | 98.77 | -594.14 | -7,858.09 | 1,154.98 | 719.35 | 435.64 | 2.651 | | |
| 14,700.00 | 6,922.82 | 14,710.82 | 7,098.86 | 222.30 | 222.46 | 98.77 | -594.92 | -7,958.09 | 1,154.80 | 713.57 | 441.23 | 2.617 | | |
| 14,800.00 | 6,922.44 | 14,810.82 | 7,098.43 | 225.13 | 225.29 | 98.77 | -595.69 | -8,058.08 | 1,154.61 | 707.79 | 446.82 | 2.584 | | |
| 14,900.00 | 6,922.06 | 14,910.82 | 7,098.00 | 227.95 | 228.12 | 98.77 | -596.47 | -8,158.08 | 1,154.43 | 702.01 | 452.42 | 2.552 | | |
| 14,908.06 | 6,922.03 | 14,918.89 | 7,097.96 | 228.18 | 228.34 | 98.77 | -596.53 | -8,166.14 | 1,154.41 | 701.54 | 452.87 | 2.549 SF | | |
| 14,915.55 | 6,922.00 | 14,909.96 | 7,098.00 | 228.39 | 228.09 | 98.77 | -596.46 | -8,157.22 | 1,154.52 | 701.85 | 452.66 | 2.550 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 33N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 3.28 | 3.28 | -179.60 | -39.70 | -0.28 | 39.70 | | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 3.28 | 3.28 | -179.60 | -39.70 | -0.28 | 39.70 | 33.13 | 6.57 | 6.044 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 3.34 | 3.34 | -179.60 | -39.70 | -0.28 | 39.70 | 33.03 | 6.67 | 5.949 | | |
| 300.00 | 299.98 | 298.64 | 298.62 | 3.44 | 3.44 | -5.03 | -41.39 | -0.41 | 39.68 | 32.79 | 6.89 | 5.761 | | |
| 400.00 | 399.84 | 397.27 | 397.12 | 3.59 | 3.59 | -5.16 | -46.47 | -0.80 | 39.62 | 32.41 | 7.21 | 5.495 | | |
| 500.00 | 499.45 | 495.92 | 495.39 | 3.79 | 3.78 | -5.39 | -54.93 | -1.45 | 39.51 | 31.88 | 7.63 | 5.176 | | |
| 600.00 | 598.70 | 594.56 | 593.32 | 4.03 | 4.02 | -5.71 | -66.75 | -2.35 | 39.36 | 31.22 | 8.14 | 4.835 | | |
| 700.00 | 697.47 | 693.21 | 690.78 | 4.31 | 4.29 | -6.13 | -81.93 | -3.52 | 39.18 | 30.46 | 8.72 | 4.492 | | |
| 800.00 | 795.62 | 791.87 | 787.67 | 4.64 | 4.61 | -6.64 | -100.45 | -4.94 | 38.95 | 29.59 | 9.36 | 4.162 | | |
| 900.00 | 893.06 | 890.54 | 883.87 | 5.00 | 4.96 | -7.25 | -122.28 | -6.61 | 38.69 | 28.64 | 10.05 | 3.851 | | |
| 914.91 | 907.51 | 905.25 | 898.15 | 5.06 | 5.02 | -7.35 | -125.82 | -6.89 | 38.67 | 28.52 | 10.15 | 3.809 CC | | |
| 1,000.00 | 989.78 | 989.22 | 979.27 | 5.39 | 5.35 | -7.86 | -147.41 | -8.54 | 38.92 | 28.14 | 10.78 | 3.612 | | |
| 1,100.00 | 1,086.42 | 1,087.78 | 1,073.64 | 5.81 | 5.77 | -7.92 | -175.76 | -10.72 | 42.21 | 30.68 | 11.53 | 3.660 | | |
| 1,200.00 | 1,183.06 | 1,187.55 | 1,168.59 | 6.25 | 6.23 | -7.70 | -206.30 | -13.06 | 47.43 | 35.12 | 12.31 | 3.854 | | |
| 1,300.00 | 1,279.69 | 1,287.42 | 1,263.63 | 6.71 | 6.70 | -7.51 | -236.87 | -15.41 | 52.65 | 39.54 | 13.11 | 4.017 | | |
| 1,400.00 | 1,376.33 | 1,387.28 | 1,358.67 | 7.17 | 7.19 | -7.36 | -267.45 | -17.75 | 57.87 | 43.93 | 13.94 | 4.153 | | |
| 1,500.00 | 1,472.97 | 1,487.14 | 1,453.71 | 7.65 | 7.69 | -7.24 | -298.02 | -20.10 | 63.09 | 48.31 | 14.79 | 4.267 | | |
| 1,600.00 | 1,569.61 | 1,587.01 | 1,548.75 | 8.13 | 8.21 | -7.13 | -328.59 | -22.44 | 68.31 | 52.66 | 15.66 | 4.364 | | |
| 1,700.00 | 1,666.24 | 1,686.87 | 1,643.79 | 8.62 | 8.73 | -7.04 | -359.17 | -24.79 | 73.54 | 57.00 | 16.54 | 4.446 | | |
| 1,800.00 | 1,762.88 | 1,786.73 | 1,738.83 | 9.12 | 9.25 | -6.96 | -389.74 | -27.14 | 78.76 | 61.32 | 17.44 | 4.517 | | |
| 1,900.00 | 1,859.52 | 1,886.60 | 1,833.87 | 9.62 | 9.79 | -6.89 | -420.31 | -29.48 | 83.98 | 65.64 | 18.35 | 4.578 | | |
| 2,000.00 | 1,956.16 | 1,986.46 | 1,928.91 | 10.13 | 10.33 | -6.83 | -450.89 | -31.83 | 89.20 | 69.94 | 19.26 | 4.631 | | |
| 2,100.00 | 2,052.79 | 2,086.33 | 2,023.95 | 10.64 | 10.87 | -6.78 | -481.46 | -34.17 | 94.43 | 74.24 | 20.19 | 4.677 | | |
| 2,200.00 | 2,149.43 | 2,186.19 | 2,118.99 | 11.15 | 11.41 | -6.73 | -512.03 | -36.52 | 99.65 | 78.53 | 21.12 | 4.717 | | |
| 2,300.00 | 2,246.07 | 2,286.05 | 2,214.03 | 11.66 | 11.96 | -6.69 | -542.60 | -38.87 | 104.87 | 82.81 | 22.06 | 4.753 | | |
| 2,400.00 | 2,342.71 | 2,385.92 | 2,309.07 | 12.18 | 12.51 | -6.65 | -573.18 | -41.21 | 110.09 | 87.09 | 23.01 | 4.785 | | |
| 2,500.00 | 2,439.34 | 2,485.78 | 2,404.11 | 12.70 | 13.07 | -6.61 | -603.75 | -43.56 | 115.32 | 91.36 | 23.96 | 4.813 | | |
| 2,600.00 | 2,535.98 | 2,585.64 | 2,499.15 | 13.22 | 13.62 | -6.58 | -634.32 | -45.90 | 120.54 | 95.63 | 24.92 | 4.838 | | |
| 2,700.00 | 2,632.62 | 2,685.51 | 2,594.19 | 13.75 | 14.18 | -6.55 | -664.90 | -48.25 | 125.76 | 99.89 | 25.87 | 4.861 | | |
| 2,800.00 | 2,729.26 | 2,785.37 | 2,689.23 | 14.27 | 14.74 | -6.52 | -695.47 | -50.60 | 130.99 | 104.15 | 26.84 | 4.881 | | |
| 2,900.00 | 2,825.89 | 2,885.23 | 2,784.27 | 14.80 | 15.30 | -6.49 | -726.04 | -52.94 | 136.21 | 108.41 | 27.80 | 4.899 | | |
| 3,000.00 | 2,922.53 | 2,985.10 | 2,879.31 | 15.32 | 15.86 | -6.47 | -756.62 | -55.29 | 141.43 | 112.66 | 28.77 | 4.916 | | |
| 3,100.00 | 3,019.17 | 3,084.96 | 2,974.35 | 15.85 | 16.42 | -6.45 | -787.19 | -57.63 | 146.66 | 116.92 | 29.74 | 4.931 | | |
| 3,200.00 | 3,115.81 | 3,184.82 | 3,069.38 | 16.38 | 16.99 | -6.43 | -817.76 | -59.98 | 151.88 | 121.17 | 30.71 | 4.945 | | |
| 3,300.00 | 3,212.44 | 3,284.69 | 3,164.42 | 16.91 | 17.55 | -6.41 | -848.33 | -62.32 | 157.10 | 125.42 | 31.69 | 4.958 | | |
| 3,400.00 | 3,309.08 | 3,384.55 | 3,259.46 | 17.44 | 18.12 | -6.39 | -878.91 | -64.67 | 162.33 | 129.66 | 32.66 | 4.970 | | |
| 3,500.00 | 3,405.72 | 3,484.41 | 3,354.50 | 17.97 | 18.69 | -6.37 | -909.48 | -67.02 | 167.55 | 133.91 | 33.64 | 4.980 | | |
| 3,600.00 | 3,502.36 | 3,584.28 | 3,449.54 | 18.50 | 19.25 | -6.36 | -940.05 | -69.36 | 172.77 | 138.15 | 34.62 | 4.990 | | |
| 3,700.00 | 3,598.99 | 3,684.14 | 3,544.58 | 19.03 | 19.82 | -6.34 | -970.63 | -71.71 | 178.00 | 142.39 | 35.60 | 4.999 | | |
| 3,800.00 | 3,695.63 | 3,784.00 | 3,639.62 | 19.57 | 20.39 | -6.33 | -1,001.20 | -74.05 | 183.22 | 146.63 | 36.59 | 5.008 | | |
| 3,900.00 | 3,792.27 | 3,883.87 | 3,734.66 | 20.10 | 20.96 | -6.32 | -1,031.77 | -76.40 | 188.44 | 150.87 | 37.57 | 5.016 | | |
| 4,000.00 | 3,888.91 | 3,983.73 | 3,829.70 | 20.63 | 21.53 | -6.30 | -1,062.35 | -78.75 | 193.66 | 155.11 | 38.56 | 5.023 | | |
| 4,100.00 | 3,985.54 | 4,083.59 | 3,924.74 | 21.17 | 22.10 | -6.29 | -1,092.92 | -81.09 | 198.89 | 159.35 | 39.54 | 5.030 | | |
| 4,200.00 | 4,082.18 | 4,183.46 | 4,019.78 | 21.70 | 22.67 | -6.28 | -1,123.49 | -83.44 | 204.11 | 163.58 | 40.53 | 5.036 | | |
| 4,300.00 | 4,178.82 | 4,283.32 | 4,114.82 | 22.24 | 23.24 | -6.27 | -1,154.06 | -85.78 | 209.33 | 167.82 | 41.52 | 5.042 | | |
| 4,400.00 | 4,275.46 | 4,383.19 | 4,209.86 | 22.77 | 23.81 | -6.26 | -1,184.64 | -88.13 | 214.56 | 172.05 | 42.51 | 5.048 | | |
| 4,500.00 | 4,372.09 | 4,483.05 | 4,304.90 | 23.31 | 24.38 | -6.25 | -1,215.21 | -90.47 | 219.78 | 176.29 | 43.49 | 5.053 | | |
| 4,600.00 | 4,468.73 | 4,582.91 | 4,399.94 | 23.84 | 24.95 | -6.24 | -1,245.78 | -92.82 | 225.00 | 180.52 | 44.48 | 5.058 | | |
| 4,700.00 | 4,565.37 | 4,682.78 | 4,494.98 | 24.38 | 25.52 | -6.23 | -1,276.36 | -95.17 | 230.23 | 184.75 | 45.48 | 5.063 | | |
| 4,800.00 | 4,662.01 | 4,782.64 | 4,590.02 | 24.91 | 26.10 | -6.22 | -1,306.93 | -97.51 | 235.45 | 188.98 | 46.47 | 5.067 | | |
| 4,900.00 | 4,758.64 | 4,882.50 | 4,685.06 | 25.45 | 26.67 | -6.21 | -1,337.50 | -99.86 | 240.67 | 193.21 | 47.46 | 5.071 | | |
| 5,000.00 | 4,855.28 | 4,982.37 | 4,780.10 | 25.99 | 27.24 | -6.21 | -1,368.08 | -102.20 | 245.90 | 197.45 | 48.45 | 5.075 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 33N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 5,082.23 | 4,875.14 | 26.53 | 27.82 | -6.20 | -1,398.65 | -104.55 | 251.12 | 201.68 | 49.45 | 5.079 | | |
| 5,200.00 | 5,048.56 | 5,182.09 | 4,970.17 | 27.06 | 28.39 | -6.19 | -1,429.22 | -106.90 | 256.34 | 205.90 | 50.44 | 5.082 | | |
| 5,300.00 | 5,145.19 | 5,281.96 | 5,065.21 | 27.60 | 28.96 | -6.19 | -1,459.79 | -109.24 | 261.57 | 210.13 | 51.43 | 5.086 | | |
| 5,400.00 | 5,241.83 | 5,381.82 | 5,160.25 | 28.14 | 29.54 | -6.18 | -1,490.37 | -111.59 | 266.79 | 214.36 | 52.43 | 5.089 | | |
| 5,500.00 | 5,338.47 | 5,481.68 | 5,255.29 | 28.67 | 30.11 | -6.17 | -1,520.94 | -113.93 | 272.01 | 218.59 | 53.42 | 5.092 | | |
| 5,600.00 | 5,435.11 | 5,581.55 | 5,350.33 | 29.21 | 30.68 | -6.17 | -1,551.51 | -116.28 | 277.24 | 222.82 | 54.42 | 5.095 | | |
| 5,700.00 | 5,531.74 | 5,681.41 | 5,445.37 | 29.75 | 31.26 | -6.16 | -1,582.09 | -118.63 | 282.46 | 227.05 | 55.41 | 5.097 | | |
| 5,800.00 | 5,628.38 | 5,781.27 | 5,540.41 | 30.29 | 31.83 | -6.15 | -1,612.66 | -120.97 | 287.68 | 231.27 | 56.41 | 5.100 | | |
| 5,900.00 | 5,725.02 | 5,881.14 | 5,635.45 | 30.83 | 32.41 | -6.15 | -1,643.23 | -123.32 | 292.91 | 235.50 | 57.41 | 5.102 | | |
| 6,000.00 | 5,821.66 | 5,981.00 | 5,730.49 | 31.37 | 32.98 | -6.14 | -1,673.80 | -125.66 | 298.13 | 239.73 | 58.40 | 5.105 | | |
| 6,100.00 | 5,918.29 | 6,080.86 | 5,825.53 | 31.90 | 33.56 | -6.14 | -1,704.38 | -128.01 | 303.35 | 243.95 | 59.40 | 5.107 | | |
| 6,200.00 | 6,014.93 | 6,180.73 | 5,920.57 | 32.44 | 34.13 | -6.13 | -1,734.95 | -130.35 | 308.58 | 248.18 | 60.40 | 5.109 | | |
| 6,300.00 | 6,111.57 | 6,280.59 | 6,015.61 | 32.98 | 34.71 | -6.13 | -1,765.52 | -132.70 | 313.80 | 252.40 | 61.40 | 5.111 | | |
| 6,400.00 | 6,208.21 | 6,380.46 | 6,110.65 | 33.52 | 35.28 | -6.13 | -1,796.10 | -135.05 | 319.02 | 256.63 | 62.39 | 5.113 | | |
| 6,500.00 | 6,304.84 | 6,480.32 | 6,205.69 | 34.06 | 35.86 | -6.12 | -1,826.67 | -137.39 | 324.25 | 260.86 | 63.39 | 5.115 | | |
| 6,600.00 | 6,401.37 | 6,580.12 | 6,300.67 | 34.60 | 36.43 | -22.94 | -1,857.22 | -139.74 | 329.49 | 265.09 | 64.40 | 5.116 | | |
| 6,700.00 | 6,496.25 | 6,678.58 | 6,394.37 | 35.12 | 37.00 | -47.61 | -1,887.37 | -142.05 | 335.28 | 269.80 | 65.48 | 5.120 | | |
| 6,800.00 | 6,587.15 | 6,773.32 | 6,484.54 | 35.59 | 37.54 | -64.17 | -1,916.37 | -144.27 | 343.61 | 276.89 | 66.71 | 5.151 | | |
| 6,900.00 | 6,671.83 | 6,877.30 | 6,582.85 | 36.03 | 38.13 | -76.46 | -1,948.06 | -155.17 | 356.04 | 287.81 | 68.23 | 5.218 | | |
| 7,000.00 | 6,748.21 | 6,989.40 | 6,685.36 | 36.41 | 38.72 | -85.61 | -1,981.25 | -185.54 | 371.32 | 301.77 | 69.55 | 5.339 | | |
| 7,100.00 | 6,814.41 | 7,111.05 | 6,788.94 | 36.76 | 39.29 | -92.73 | -2,014.97 | -239.28 | 388.11 | 317.97 | 70.13 | 5.534 | | |
| 7,200.00 | 6,868.79 | 7,243.46 | 6,888.33 | 37.07 | 39.82 | -98.29 | -2,047.55 | -320.10 | 404.75 | 335.16 | 69.60 | 5.816 | | |
| 7,300.00 | 6,910.01 | 7,387.09 | 6,975.57 | 37.39 | 40.29 | -102.46 | -2,076.44 | -430.07 | 419.40 | 351.36 | 68.04 | 6.164 | | |
| 7,400.00 | 6,937.07 | 7,540.88 | 7,040.43 | 37.76 | 40.74 | -105.24 | -2,098.36 | -567.37 | 430.21 | 363.92 | 66.29 | 6.490 | | |
| 7,500.00 | 6,949.29 | 7,701.78 | 7,072.73 | 38.27 | 41.25 | -106.55 | -2,109.95 | -724.13 | 435.67 | 369.93 | 65.75 | 6.626 | | |
| 7,600.00 | 6,949.75 | 7,823.98 | 7,074.79 | 39.02 | 41.82 | -106.66 | -2,111.55 | -846.25 | 436.20 | 368.63 | 67.56 | 6.456 | | |
| 7,700.00 | 6,949.37 | 7,923.98 | 7,074.46 | 40.05 | 42.54 | -106.66 | -2,112.22 | -946.24 | 436.28 | 366.17 | 70.11 | 6.223 | | |
| 7,800.00 | 6,948.99 | 8,023.98 | 7,074.14 | 41.35 | 43.54 | -106.67 | -2,112.89 | -1,046.24 | 436.36 | 363.38 | 72.98 | 5.980 | | |
| 7,900.00 | 6,948.61 | 8,123.98 | 7,073.81 | 42.86 | 44.81 | -106.67 | -2,113.56 | -1,146.24 | 436.44 | 360.30 | 76.14 | 5.732 | | |
| 8,000.00 | 6,948.23 | 8,223.98 | 7,073.49 | 44.53 | 46.29 | -106.67 | -2,114.22 | -1,246.24 | 436.52 | 356.97 | 79.55 | 5.487 | | |
| 8,100.00 | 6,947.85 | 8,323.98 | 7,073.16 | 46.34 | 47.95 | -106.68 | -2,114.89 | -1,346.23 | 436.60 | 353.41 | 83.19 | 5.248 | | |
| 8,200.00 | 6,947.47 | 8,423.98 | 7,072.84 | 48.26 | 49.76 | -106.68 | -2,115.56 | -1,446.23 | 436.68 | 349.66 | 87.03 | 5.018 | | |
| 8,300.00 | 6,947.09 | 8,523.98 | 7,072.51 | 50.28 | 51.67 | -106.69 | -2,116.23 | -1,546.23 | 436.77 | 345.73 | 91.04 | 4.798 | | |
| 8,400.00 | 6,946.72 | 8,623.98 | 7,072.19 | 52.39 | 53.69 | -106.69 | -2,116.89 | -1,646.22 | 436.85 | 341.65 | 95.20 | 4.589 | | |
| 8,500.00 | 6,946.34 | 8,723.98 | 7,071.86 | 54.56 | 55.79 | -106.70 | -2,117.56 | -1,746.22 | 436.93 | 337.44 | 99.49 | 4.392 | | |
| 8,600.00 | 6,945.96 | 8,823.98 | 7,071.54 | 56.80 | 57.96 | -106.70 | -2,118.23 | -1,846.22 | 437.01 | 333.12 | 103.89 | 4.206 | | |
| 8,700.00 | 6,945.58 | 8,923.98 | 7,071.21 | 59.10 | 60.19 | -106.70 | -2,118.90 | -1,946.22 | 437.09 | 328.70 | 108.39 | 4.032 | | |
| 8,800.00 | 6,945.20 | 9,023.98 | 7,070.89 | 61.44 | 62.47 | -106.71 | -2,119.56 | -2,046.21 | 437.17 | 324.19 | 112.99 | 3.869 | | |
| 8,900.00 | 6,944.82 | 9,123.98 | 7,070.56 | 63.83 | 64.81 | -106.71 | -2,120.23 | -2,146.21 | 437.26 | 319.60 | 117.66 | 3.716 | | |
| 9,000.00 | 6,944.44 | 9,223.98 | 7,070.24 | 66.25 | 67.18 | -106.72 | -2,120.90 | -2,246.21 | 437.34 | 314.94 | 122.40 | 3.573 | | |
| 9,100.00 | 6,944.06 | 9,323.98 | 7,069.91 | 68.71 | 69.60 | -106.72 | -2,121.57 | -2,346.20 | 437.42 | 310.22 | 127.20 | 3.439 | | |
| 9,200.00 | 6,943.68 | 9,423.98 | 7,069.59 | 71.20 | 72.04 | -106.73 | -2,122.23 | -2,446.20 | 437.50 | 305.44 | 132.06 | 3.313 | | |
| 9,300.00 | 6,943.30 | 9,523.98 | 7,069.26 | 73.72 | 74.52 | -106.73 | -2,122.90 | -2,546.20 | 437.58 | 300.62 | 136.96 | 3.195 | | |
| 9,400.00 | 6,942.92 | 9,623.98 | 7,068.94 | 76.26 | 77.03 | -106.73 | -2,123.57 | -2,646.20 | 437.66 | 295.75 | 141.91 | 3.084 | | |
| 9,500.00 | 6,942.54 | 9,723.98 | 7,068.61 | 78.82 | 79.56 | -106.74 | -2,124.24 | -2,746.19 | 437.75 | 290.84 | 146.90 | 2.980 | | |
| 9,600.00 | 6,942.16 | 9,823.98 | 7,068.29 | 81.40 | 82.11 | -106.74 | -2,124.90 | -2,846.19 | 437.83 | 285.90 | 151.93 | 2.882 | | |
| 9,700.00 | 6,941.78 | 9,923.98 | 7,067.96 | 84.00 | 84.68 | -106.75 | -2,125.57 | -2,946.19 | 437.91 | 280.93 | 156.98 | 2.790 | | |
| 9,800.00 | 6,941.40 | 10,023.98 | 7,067.64 | 86.62 | 87.27 | -106.75 | -2,126.24 | -3,046.19 | 437.99 | 275.92 | 162.07 | 2.703 | | |
| 9,900.00 | 6,941.03 | 10,123.98 | 7,067.31 | 89.25 | 89.88 | -106.76 | -2,126.91 | -3,146.18 | 438.07 | 270.89 | 167.18 | 2.620 | | |
| 10,000.00 | 6,940.65 | 10,223.98 | 7,066.99 | 91.90 | 92.50 | -106.76 | -2,127.57 | -3,246.18 | 438.15 | 265.84 | 172.31 | 2.543 | | |
| 10,100.00 | 6,940.27 | 10,323.98 | 7,066.66 | 94.56 | 95.13 | -106.76 | -2,128.24 | -3,346.18 | 438.24 | 260.76 | 177.47 | 2.469 | | |
| 10,200.00 | 6,939.89 | 10,423.98 | 7,066.34 | 97.23 | 97.78 | -106.77 | -2,128.91 | -3,446.17 | 438.32 | 255.67 | 182.65 | 2.400 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 33N-16B-M - OH - PLAN #1 | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-----------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,300.00 | 6,939.51 | 10,523.98 | 7,066.01 | 99.91 | 100.44 | -106.77 | -2,129.58 | -3,546.17 | 438.40 | 250.55 | 187.85 | 2.334 | |
| 10,400.00 | 6,939.13 | 10,623.98 | 7,065.69 | 102.60 | 103.11 | -106.78 | -2,130.24 | -3,646.17 | 438.48 | 245.42 | 193.06 | 2.271 | |
| 10,500.00 | 6,938.75 | 10,723.98 | 7,065.36 | 105.30 | 105.79 | -106.78 | -2,130.91 | -3,746.17 | 438.56 | 240.28 | 198.29 | 2.212 | |
| 10,600.00 | 6,938.37 | 10,823.98 | 7,065.04 | 108.00 | 108.48 | -106.78 | -2,131.58 | -3,846.16 | 438.64 | 235.12 | 203.53 | 2.155 | |
| 10,700.00 | 6,937.99 | 10,923.98 | 7,064.71 | 110.72 | 111.18 | -106.79 | -2,132.25 | -3,946.16 | 438.72 | 229.94 | 208.78 | 2.101 | |
| 10,800.00 | 6,937.61 | 11,023.98 | 7,064.39 | 113.44 | 113.88 | -106.79 | -2,132.91 | -4,046.16 | 438.81 | 224.76 | 214.05 | 2.050 | |
| 10,900.00 | 6,937.23 | 11,123.98 | 7,064.07 | 116.17 | 116.60 | -106.80 | -2,133.58 | -4,146.15 | 438.89 | 219.56 | 219.33 | 2.001 | |
| 11,000.00 | 6,936.85 | 11,223.98 | 7,063.74 | 118.90 | 119.32 | -106.80 | -2,134.25 | -4,246.15 | 438.97 | 214.35 | 224.62 | 1.954 | |
| 11,100.00 | 6,936.47 | 11,323.98 | 7,063.42 | 121.64 | 122.04 | -106.81 | -2,134.92 | -4,346.15 | 439.05 | 209.13 | 229.92 | 1.910 | |
| 11,200.00 | 6,936.09 | 11,423.98 | 7,063.09 | 124.39 | 124.78 | -106.81 | -2,135.58 | -4,446.15 | 439.13 | 203.91 | 235.23 | 1.867 | |
| 11,300.00 | 6,935.71 | 11,523.98 | 7,062.77 | 127.14 | 127.51 | -106.81 | -2,136.25 | -4,546.14 | 439.21 | 198.67 | 240.54 | 1.826 | |
| 11,400.00 | 6,935.34 | 11,623.97 | 7,062.44 | 129.90 | 130.26 | -106.82 | -2,136.92 | -4,646.14 | 439.30 | 193.43 | 245.87 | 1.787 | |
| 11,500.00 | 6,934.96 | 11,723.97 | 7,062.12 | 132.66 | 133.01 | -106.82 | -2,137.59 | -4,746.14 | 439.38 | 188.18 | 251.20 | 1.749 | |
| 11,600.00 | 6,934.58 | 11,823.97 | 7,061.79 | 135.42 | 135.76 | -106.83 | -2,138.25 | -4,846.13 | 439.46 | 182.92 | 256.54 | 1.713 | |
| 11,700.00 | 6,934.20 | 11,923.97 | 7,061.47 | 138.19 | 138.52 | -106.83 | -2,138.92 | -4,946.13 | 439.54 | 177.66 | 261.88 | 1.678 | |
| 11,800.00 | 6,933.82 | 12,023.97 | 7,061.14 | 140.96 | 141.28 | -106.84 | -2,139.59 | -5,046.13 | 439.62 | 172.39 | 267.24 | 1.645 | |
| 11,900.00 | 6,933.44 | 12,123.97 | 7,060.82 | 143.74 | 144.04 | -106.84 | -2,140.26 | -5,146.13 | 439.70 | 167.11 | 272.59 | 1.613 | |
| 12,000.00 | 6,933.06 | 12,223.97 | 7,060.49 | 146.51 | 146.81 | -106.84 | -2,140.92 | -5,246.12 | 439.79 | 161.83 | 277.95 | 1.582 | |
| 12,100.00 | 6,932.68 | 12,323.97 | 7,060.17 | 149.30 | 149.58 | -106.85 | -2,141.59 | -5,346.12 | 439.87 | 156.55 | 283.32 | 1.553 | |
| 12,200.00 | 6,932.30 | 12,423.97 | 7,059.84 | 152.08 | 152.36 | -106.85 | -2,142.26 | -5,446.12 | 439.95 | 151.26 | 288.69 | 1.524 | |
| 12,300.00 | 6,931.92 | 12,523.97 | 7,059.52 | 154.87 | 155.14 | -106.86 | -2,142.93 | -5,546.12 | 440.03 | 145.96 | 294.07 | 1.496 Level 3 | |
| 12,400.00 | 6,931.54 | 12,623.97 | 7,059.19 | 157.66 | 157.92 | -106.86 | -2,143.59 | -5,646.11 | 440.11 | 140.66 | 299.45 | 1.470 Level 3 | |
| 12,500.00 | 6,931.16 | 12,723.97 | 7,058.87 | 160.45 | 160.70 | -106.86 | -2,144.26 | -5,746.11 | 440.19 | 135.36 | 304.84 | 1.444 Level 3 | |
| 12,600.00 | 6,930.78 | 12,823.97 | 7,058.54 | 163.24 | 163.49 | -106.87 | -2,144.93 | -5,846.11 | 440.28 | 130.05 | 310.23 | 1.419 Level 3 | |
| 12,700.00 | 6,930.40 | 12,923.97 | 7,058.22 | 166.04 | 166.28 | -106.87 | -2,145.60 | -5,946.10 | 440.36 | 124.74 | 315.62 | 1.395 Level 3 | |
| 12,800.00 | 6,930.03 | 13,023.97 | 7,057.89 | 168.84 | 169.07 | -106.88 | -2,146.26 | -6,046.10 | 440.44 | 119.43 | 321.01 | 1.372 Level 3 | |
| 12,900.00 | 6,929.65 | 13,123.97 | 7,057.57 | 171.64 | 171.86 | -106.88 | -2,146.93 | -6,146.10 | 440.52 | 114.11 | 326.41 | 1.350 Level 3 | |
| 13,000.00 | 6,929.27 | 13,223.97 | 7,057.24 | 174.44 | 174.66 | -106.89 | -2,147.60 | -6,246.10 | 440.60 | 108.79 | 331.81 | 1.328 Level 3 | |
| 13,100.00 | 6,928.89 | 13,323.97 | 7,056.92 | 177.24 | 177.45 | -106.89 | -2,148.27 | -6,346.09 | 440.68 | 103.47 | 337.22 | 1.307 Level 3 | |
| 13,200.00 | 6,928.51 | 13,423.97 | 7,056.59 | 180.05 | 180.25 | -106.89 | -2,148.93 | -6,446.09 | 440.77 | 98.14 | 342.63 | 1.286 Level 3 | |
| 13,300.00 | 6,928.13 | 13,523.97 | 7,056.27 | 182.86 | 183.05 | -106.90 | -2,149.60 | -6,546.09 | 440.85 | 92.81 | 348.04 | 1.267 Level 3 | |
| 13,400.00 | 6,927.75 | 13,623.97 | 7,055.94 | 185.67 | 185.86 | -106.90 | -2,150.27 | -6,646.08 | 440.93 | 87.48 | 353.45 | 1.248 Level 2 | |
| 13,500.00 | 6,927.37 | 13,723.97 | 7,055.62 | 188.48 | 188.66 | -106.91 | -2,150.94 | -6,746.08 | 441.01 | 82.15 | 358.86 | 1.229 Level 2 | |
| 13,600.00 | 6,926.99 | 13,823.97 | 7,055.29 | 191.29 | 191.47 | -106.91 | -2,151.60 | -6,846.08 | 441.09 | 76.81 | 364.28 | 1.211 Level 2 | |
| 13,700.00 | 6,926.61 | 13,923.97 | 7,054.97 | 194.10 | 194.28 | -106.91 | -2,152.27 | -6,946.08 | 441.17 | 71.48 | 369.70 | 1.193 Level 2 | |
| 13,800.00 | 6,926.23 | 14,023.97 | 7,054.64 | 196.92 | 197.09 | -106.92 | -2,152.94 | -7,046.07 | 441.26 | 66.14 | 375.12 | 1.176 Level 2 | |
| 13,900.00 | 6,925.85 | 14,123.97 | 7,054.32 | 199.73 | 199.90 | -106.92 | -2,153.61 | -7,146.07 | 441.34 | 60.79 | 380.54 | 1.160 Level 2 | |
| 14,000.00 | 6,925.47 | 14,223.97 | 7,053.99 | 202.55 | 202.71 | -106.93 | -2,154.27 | -7,246.07 | 441.42 | 55.45 | 385.97 | 1.144 Level 2 | |
| 14,100.00 | 6,925.09 | 14,323.97 | 7,053.67 | 205.37 | 205.52 | -106.93 | -2,154.94 | -7,346.07 | 441.50 | 50.11 | 391.40 | 1.128 Level 2 | |
| 14,200.00 | 6,924.71 | 14,423.97 | 7,053.34 | 208.19 | 208.34 | -106.94 | -2,155.61 | -7,446.06 | 441.58 | 44.76 | 396.82 | 1.113 Level 2 | |
| 14,300.00 | 6,924.34 | 14,523.97 | 7,053.02 | 211.01 | 211.15 | -106.94 | -2,156.28 | -7,546.06 | 441.66 | 39.41 | 402.25 | 1.098 Level 2 | |
| 14,400.00 | 6,923.96 | 14,623.97 | 7,052.69 | 213.83 | 213.97 | -106.94 | -2,156.94 | -7,646.06 | 441.75 | 34.06 | 407.68 | 1.084 Level 2 | |
| 14,500.00 | 6,923.58 | 14,723.97 | 7,052.37 | 216.65 | 216.79 | -106.95 | -2,157.61 | -7,746.05 | 441.83 | 28.71 | 413.12 | 1.069 Level 2 | |
| 14,600.00 | 6,923.20 | 14,823.97 | 7,052.04 | 219.48 | 219.61 | -106.95 | -2,158.28 | -7,846.05 | 441.91 | 23.36 | 418.55 | 1.056 Level 2 | |
| 14,700.00 | 6,922.82 | 14,923.97 | 7,051.72 | 222.30 | 222.43 | -106.96 | -2,158.95 | -7,946.05 | 441.99 | 18.00 | 423.99 | 1.042 Level 2 | |
| 14,800.00 | 6,922.44 | 15,023.97 | 7,051.39 | 225.13 | 225.25 | -106.96 | -2,159.61 | -8,046.05 | 442.07 | 12.65 | 429.42 | 1.029 Level 2 | |
| 14,900.00 | 6,922.06 | 15,123.97 | 7,051.07 | 227.95 | 228.07 | -106.96 | -2,160.28 | -8,146.04 | 442.16 | 7.29 | 434.86 | 1.017 Level 2 | |
| 14,915.55 | 6,922.00 | 15,139.52 | 7,051.02 | 228.39 | 228.51 | -106.96 | -2,160.38 | -8,161.59 | 442.17 | 6.46 | 435.71 | 1.015 Level 2, ES, SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 34N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | -179.47 | -119.85 | -1.11 | 119.86 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | -179.47 | -119.85 | -1.11 | 119.86 | 113.29 | 6.57 | 18.244 | | |
| 200.00 | 200.00 | 199.00 | 200.00 | 3.34 | 3.34 | -179.47 | -119.85 | -1.11 | 119.86 | 113.18 | 6.67 | 17.961 | | |
| 300.00 | 299.98 | 295.03 | 296.01 | 3.44 | 3.43 | -4.88 | -121.43 | -1.20 | 119.76 | 112.88 | 6.88 | 17.400 | | |
| 400.00 | 399.84 | 391.02 | 391.88 | 3.59 | 3.58 | -4.98 | -126.21 | -1.46 | 119.53 | 112.33 | 7.20 | 16.608 | | |
| 500.00 | 499.45 | 487.03 | 487.55 | 3.79 | 3.76 | -5.15 | -134.20 | -1.90 | 119.17 | 111.56 | 7.61 | 15.659 | | |
| 600.00 | 598.70 | 583.04 | 582.90 | 4.03 | 3.99 | -5.38 | -145.38 | -2.51 | 118.68 | 110.58 | 8.11 | 14.638 | | |
| 700.00 | 697.47 | 679.08 | 677.85 | 4.31 | 4.25 | -5.69 | -159.76 | -3.30 | 118.07 | 109.39 | 8.68 | 13.610 | | |
| 800.00 | 795.62 | 775.13 | 772.28 | 4.64 | 4.55 | -6.06 | -177.30 | -4.26 | 117.34 | 108.03 | 9.30 | 12.614 | | |
| 900.00 | 893.06 | 871.21 | 866.09 | 5.00 | 4.89 | -6.51 | -198.01 | -5.39 | 116.48 | 106.51 | 9.97 | 11.680 | | |
| 976.62 | 967.29 | 944.85 | 937.49 | 5.30 | 5.17 | -6.87 | -216.00 | -6.38 | 116.31 | 105.79 | 10.52 | 11.057 | | |
| 1,000.00 | 989.78 | 967.32 | 959.18 | 5.39 | 5.26 | -7.00 | -221.85 | -6.70 | 116.04 | 105.35 | 10.69 | 10.855 CC, ES | | |
| 1,100.00 | 1,086.42 | 1,063.37 | 1,051.36 | 5.81 | 5.67 | -7.37 | -248.78 | -8.17 | 118.59 | 107.15 | 11.44 | 10.369 | | |
| 1,200.00 | 1,183.06 | 1,159.16 | 1,142.34 | 6.25 | 6.10 | -7.58 | -278.69 | -9.81 | 124.48 | 112.27 | 12.21 | 10.199 | | |
| 1,300.00 | 1,279.69 | 1,254.46 | 1,231.82 | 6.71 | 6.56 | -7.64 | -311.45 | -11.60 | 133.68 | 120.69 | 12.99 | 10.292 | | |
| 1,400.00 | 1,376.33 | 1,349.09 | 1,319.52 | 7.17 | 7.05 | -7.56 | -346.89 | -13.54 | 146.16 | 132.38 | 13.78 | 10.606 | | |
| 1,500.00 | 1,472.97 | 1,444.92 | 1,407.21 | 7.65 | 7.58 | -7.41 | -385.47 | -15.66 | 161.63 | 147.03 | 14.60 | 11.074 | | |
| 1,600.00 | 1,569.61 | 1,543.62 | 1,497.30 | 8.13 | 8.14 | -7.25 | -425.74 | -17.86 | 177.68 | 162.22 | 15.46 | 11.493 | | |
| 1,700.00 | 1,666.24 | 1,642.32 | 1,587.39 | 8.62 | 8.71 | -7.13 | -466.01 | -20.06 | 193.74 | 177.40 | 16.35 | 11.853 | | |
| 1,800.00 | 1,762.88 | 1,741.02 | 1,677.48 | 9.12 | 9.30 | -7.02 | -506.27 | -22.27 | 209.80 | 192.55 | 17.25 | 12.163 | | |
| 1,900.00 | 1,859.52 | 1,839.72 | 1,767.56 | 9.62 | 9.89 | -6.93 | -546.54 | -24.47 | 225.86 | 207.69 | 18.17 | 12.432 | | |
| 2,000.00 | 1,956.16 | 1,938.42 | 1,857.65 | 10.13 | 10.49 | -6.85 | -586.80 | -26.68 | 241.92 | 222.82 | 19.10 | 12.666 | | |
| 2,100.00 | 2,052.79 | 2,037.12 | 1,947.74 | 10.64 | 11.10 | -6.78 | -627.07 | -28.88 | 257.98 | 237.93 | 20.04 | 12.872 | | |
| 2,200.00 | 2,149.43 | 2,135.83 | 2,037.83 | 11.15 | 11.71 | -6.72 | -667.33 | -31.09 | 274.04 | 253.04 | 20.99 | 13.053 | | |
| 2,300.00 | 2,246.07 | 2,234.53 | 2,127.91 | 11.66 | 12.33 | -6.66 | -707.60 | -33.29 | 290.10 | 268.14 | 21.96 | 13.213 | | |
| 2,400.00 | 2,342.71 | 2,333.23 | 2,218.00 | 12.18 | 12.95 | -6.61 | -747.86 | -35.50 | 306.16 | 283.23 | 22.92 | 13.356 | | |
| 2,500.00 | 2,439.34 | 2,431.93 | 2,308.09 | 12.70 | 13.58 | -6.57 | -788.13 | -37.70 | 322.22 | 298.32 | 23.90 | 13.483 | | |
| 2,600.00 | 2,535.98 | 2,530.63 | 2,398.18 | 13.22 | 14.21 | -6.53 | -828.40 | -39.91 | 338.28 | 313.40 | 24.88 | 13.597 | | |
| 2,700.00 | 2,632.62 | 2,629.33 | 2,488.27 | 13.75 | 14.84 | -6.49 | -868.66 | -42.11 | 354.34 | 328.48 | 25.86 | 13.700 | | |
| 2,800.00 | 2,729.26 | 2,728.03 | 2,578.35 | 14.27 | 15.47 | -6.46 | -908.93 | -44.32 | 370.40 | 343.55 | 26.85 | 13.794 | | |
| 2,900.00 | 2,825.89 | 2,826.74 | 2,668.44 | 14.80 | 16.11 | -6.43 | -949.19 | -46.52 | 386.46 | 358.62 | 27.85 | 13.878 | | |
| 3,000.00 | 2,922.53 | 2,925.44 | 2,758.53 | 15.32 | 16.74 | -6.40 | -989.46 | -48.72 | 402.53 | 373.68 | 28.84 | 13.955 | | |
| 3,100.00 | 3,019.17 | 3,024.14 | 2,848.62 | 15.85 | 17.38 | -6.37 | -1,029.72 | -50.93 | 418.59 | 388.74 | 29.84 | 14.026 | | |
| 3,200.00 | 3,115.81 | 3,122.84 | 2,938.70 | 16.38 | 18.02 | -6.35 | -1,069.99 | -53.13 | 434.65 | 403.80 | 30.85 | 14.090 | | |
| 3,300.00 | 3,212.44 | 3,221.54 | 3,028.79 | 16.91 | 18.66 | -6.33 | -1,110.26 | -55.34 | 450.71 | 418.86 | 31.85 | 14.149 | | |
| 3,400.00 | 3,309.08 | 3,320.24 | 3,118.88 | 17.44 | 19.31 | -6.31 | -1,150.52 | -57.54 | 466.77 | 433.91 | 32.86 | 14.204 | | |
| 3,500.00 | 3,405.72 | 3,418.95 | 3,208.97 | 17.97 | 19.95 | -6.29 | -1,190.79 | -59.75 | 482.83 | 448.96 | 33.87 | 14.254 | | |
| 3,600.00 | 3,502.36 | 3,517.65 | 3,299.06 | 18.50 | 20.59 | -6.27 | -1,231.05 | -61.95 | 498.90 | 464.01 | 34.89 | 14.301 | | |
| 3,700.00 | 3,598.99 | 3,616.35 | 3,389.14 | 19.03 | 21.24 | -6.25 | -1,271.32 | -64.16 | 514.96 | 479.06 | 35.90 | 14.344 | | |
| 3,800.00 | 3,695.63 | 3,715.05 | 3,479.23 | 19.57 | 21.89 | -6.24 | -1,311.58 | -66.36 | 531.02 | 494.11 | 36.92 | 14.385 | | |
| 3,900.00 | 3,792.27 | 3,813.75 | 3,569.32 | 20.10 | 22.53 | -6.22 | -1,351.85 | -68.57 | 547.08 | 509.15 | 37.93 | 14.422 | | |
| 4,000.00 | 3,888.91 | 3,912.45 | 3,659.41 | 20.63 | 23.18 | -6.21 | -1,392.12 | -70.77 | 563.14 | 524.19 | 38.95 | 14.457 | | |
| 4,100.00 | 3,985.54 | 4,011.15 | 3,749.49 | 21.17 | 23.83 | -6.19 | -1,432.38 | -72.98 | 579.21 | 539.23 | 39.97 | 14.490 | | |
| 4,200.00 | 4,082.18 | 4,109.86 | 3,839.58 | 21.70 | 24.48 | -6.18 | -1,472.65 | -75.18 | 595.27 | 554.28 | 40.99 | 14.521 | | |
| 4,300.00 | 4,178.82 | 4,208.56 | 3,929.67 | 22.24 | 25.12 | -6.17 | -1,512.91 | -77.38 | 611.33 | 569.32 | 42.02 | 14.550 | | |
| 4,400.00 | 4,275.46 | 4,307.26 | 4,019.76 | 22.77 | 25.77 | -6.16 | -1,553.18 | -79.59 | 627.39 | 584.35 | 43.04 | 14.577 | | |
| 4,500.00 | 4,372.09 | 4,405.96 | 4,109.85 | 23.31 | 26.42 | -6.15 | -1,593.44 | -81.79 | 643.46 | 599.39 | 44.06 | 14.603 | | |
| 4,600.00 | 4,468.73 | 4,504.66 | 4,199.93 | 23.84 | 27.07 | -6.14 | -1,633.71 | -84.00 | 659.52 | 614.43 | 45.09 | 14.627 | | |
| 4,700.00 | 4,565.37 | 4,603.36 | 4,290.02 | 24.38 | 27.72 | -6.13 | -1,673.97 | -86.20 | 675.58 | 629.46 | 46.12 | 14.650 | | |
| 4,800.00 | 4,662.01 | 4,702.07 | 4,380.11 | 24.91 | 28.38 | -6.12 | -1,714.24 | -88.41 | 691.64 | 644.50 | 47.14 | 14.671 | | |
| 4,900.00 | 4,758.64 | 4,800.77 | 4,470.20 | 25.45 | 29.03 | -6.11 | -1,754.51 | -90.61 | 707.70 | 659.53 | 48.17 | 14.691 | | |
| 5,000.00 | 4,855.28 | 4,900.53 | 4,560.28 | 25.99 | 29.69 | -6.10 | -1,794.77 | -92.82 | 723.77 | 674.56 | 49.21 | 14.709 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 34N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 5,001.83 | 4,650.37 | 26.53 | 30.35 | -6.09 | -1,835.04 | -95.02 | 739.83 | 689.58 | 50.25 | 14.723 | | |
| 5,200.00 | 5,048.56 | 5,103.13 | 4,740.46 | 27.06 | 31.02 | -6.08 | -1,875.30 | -97.23 | 755.89 | 704.60 | 51.29 | 14.737 | | |
| 5,300.00 | 5,145.19 | 5,195.57 | 4,830.55 | 27.60 | 31.63 | -6.08 | -1,915.57 | -99.43 | 771.95 | 719.66 | 52.29 | 14.763 | | |
| 5,400.00 | 5,241.83 | 5,294.27 | 4,920.64 | 28.14 | 32.29 | -6.07 | -1,955.83 | -101.64 | 788.02 | 734.70 | 53.32 | 14.779 | | |
| 5,500.00 | 5,338.47 | 5,407.02 | 5,010.72 | 28.67 | 33.03 | -6.06 | -1,996.10 | -103.84 | 804.08 | 749.65 | 54.43 | 14.773 | | |
| 5,600.00 | 5,435.11 | 5,508.32 | 5,100.81 | 29.21 | 33.70 | -6.06 | -2,036.37 | -106.04 | 820.14 | 764.66 | 55.48 | 14.784 | | |
| 5,700.00 | 5,531.74 | 5,609.62 | 5,190.90 | 29.75 | 34.37 | -6.05 | -2,076.63 | -108.25 | 836.20 | 779.68 | 56.52 | 14.794 | | |
| 5,800.00 | 5,628.38 | 5,689.08 | 5,280.99 | 30.29 | 34.90 | -6.04 | -2,116.90 | -110.45 | 852.27 | 794.82 | 57.45 | 14.835 | | |
| 5,900.00 | 5,725.02 | 5,787.78 | 5,371.07 | 30.83 | 35.55 | -6.04 | -2,157.16 | -112.66 | 868.33 | 809.85 | 58.48 | 14.848 | | |
| 6,000.00 | 5,821.66 | 5,886.48 | 5,461.16 | 31.37 | 36.21 | -6.03 | -2,197.43 | -114.86 | 884.39 | 824.88 | 59.52 | 14.860 | | |
| 6,100.00 | 5,918.29 | 5,985.19 | 5,551.25 | 31.90 | 36.86 | -6.03 | -2,237.69 | -117.07 | 900.45 | 839.90 | 60.55 | 14.871 | | |
| 6,200.00 | 6,014.93 | 6,083.89 | 5,641.34 | 32.44 | 37.51 | -6.02 | -2,277.96 | -119.27 | 916.52 | 854.93 | 61.58 | 14.882 | | |
| 6,300.00 | 6,111.57 | 6,182.59 | 5,731.43 | 32.98 | 38.17 | -6.02 | -2,318.23 | -121.48 | 932.58 | 869.96 | 62.62 | 14.893 | | |
| 6,400.00 | 6,208.21 | 6,281.29 | 5,821.51 | 33.52 | 38.82 | -6.01 | -2,358.49 | -123.68 | 948.64 | 884.99 | 63.65 | 14.903 | | |
| 6,500.00 | 6,304.84 | 6,379.99 | 5,911.60 | 34.06 | 39.48 | -6.01 | -2,398.76 | -125.89 | 964.70 | 900.01 | 64.69 | 14.913 | | |
| 6,600.00 | 6,401.37 | 6,478.63 | 6,001.63 | 34.60 | 40.13 | -22.06 | -2,439.00 | -128.09 | 980.77 | 915.04 | 65.73 | 14.921 | | |
| 6,700.00 | 6,496.25 | 6,575.95 | 6,090.45 | 35.12 | 40.78 | -43.99 | -2,478.70 | -130.26 | 996.89 | 930.10 | 66.79 | 14.926 | | |
| 6,800.00 | 6,587.15 | 6,669.58 | 6,175.91 | 35.59 | 41.40 | -56.56 | -2,516.89 | -132.35 | 1,013.39 | 945.53 | 67.86 | 14.933 | | |
| 6,900.00 | 6,671.83 | 6,757.22 | 6,255.91 | 36.03 | 41.98 | -64.23 | -2,552.65 | -134.31 | 1,031.16 | 962.20 | 68.96 | 14.952 | | |
| 7,000.00 | 6,748.21 | 6,836.72 | 6,328.47 | 36.41 | 42.51 | -69.25 | -2,585.08 | -136.09 | 1,051.48 | 981.35 | 70.13 | 14.994 | | |
| 7,100.00 | 6,814.41 | 6,906.11 | 6,391.81 | 36.76 | 42.97 | -72.42 | -2,613.39 | -137.64 | 1,075.71 | 1,004.32 | 71.39 | 15.068 | | |
| 7,200.00 | 6,868.79 | 6,963.70 | 6,444.37 | 37.07 | 43.35 | -73.97 | -2,636.88 | -138.92 | 1,105.08 | 1,032.30 | 72.78 | 15.183 | | |
| 7,300.00 | 6,910.01 | 7,008.05 | 6,484.85 | 37.39 | 43.64 | -73.85 | -2,654.98 | -139.91 | 1,140.38 | 1,066.08 | 74.30 | 15.349 | | |
| 7,400.00 | 6,937.07 | 7,038.08 | 6,512.26 | 37.76 | 43.84 | -71.97 | -2,667.23 | -140.59 | 1,181.78 | 1,105.90 | 75.88 | 15.574 | | |
| 7,500.00 | 6,949.29 | 7,053.05 | 6,525.92 | 38.27 | 43.94 | -68.27 | -2,673.33 | -140.92 | 1,228.79 | 1,151.33 | 77.45 | 15.865 | | |
| 7,600.00 | 6,949.75 | 7,060.28 | 7,144.67 | 39.02 | 48.42 | -98.78 | -2,955.58 | -842.26 | 1,276.89 | 1,202.51 | 74.38 | 17.167 | | |
| 7,700.00 | 6,949.37 | 8,260.28 | 7,144.13 | 40.05 | 48.74 | -98.77 | -2,956.17 | -942.26 | 1,276.86 | 1,199.96 | 76.90 | 16.604 | | |
| 7,800.00 | 6,948.99 | 8,360.28 | 7,143.59 | 41.35 | 49.18 | -98.77 | -2,956.76 | -1,042.26 | 1,276.82 | 1,197.08 | 79.74 | 16.012 | | |
| 7,900.00 | 6,948.61 | 8,460.28 | 7,143.05 | 42.86 | 49.81 | -98.76 | -2,957.35 | -1,142.26 | 1,276.79 | 1,193.91 | 82.87 | 15.406 | | |
| 8,000.00 | 6,948.23 | 8,560.28 | 7,142.50 | 44.53 | 50.67 | -98.75 | -2,957.93 | -1,242.25 | 1,276.75 | 1,190.49 | 86.26 | 14.800 | | |
| 8,100.00 | 6,947.85 | 8,660.28 | 7,141.96 | 46.34 | 51.79 | -98.75 | -2,958.52 | -1,342.25 | 1,276.72 | 1,186.83 | 89.88 | 14.204 | | |
| 8,200.00 | 6,947.47 | 8,760.28 | 7,141.42 | 48.26 | 53.16 | -98.74 | -2,959.11 | -1,442.25 | 1,276.68 | 1,182.97 | 93.71 | 13.624 | | |
| 8,300.00 | 6,947.09 | 8,860.28 | 7,140.88 | 50.28 | 54.73 | -98.73 | -2,959.70 | -1,542.24 | 1,276.65 | 1,178.94 | 97.71 | 13.066 | | |
| 8,400.00 | 6,946.72 | 8,960.28 | 7,140.34 | 52.39 | 56.48 | -98.72 | -2,960.28 | -1,642.24 | 1,276.61 | 1,174.75 | 101.87 | 12.532 | | |
| 8,500.00 | 6,946.34 | 9,060.28 | 7,139.80 | 54.56 | 58.36 | -98.72 | -2,960.87 | -1,742.24 | 1,276.58 | 1,170.41 | 106.16 | 12.025 | | |
| 8,600.00 | 6,945.96 | 9,160.28 | 7,139.26 | 56.80 | 60.34 | -98.71 | -2,961.46 | -1,842.23 | 1,276.54 | 1,165.96 | 110.58 | 11.544 | | |
| 8,700.00 | 6,945.58 | 9,260.28 | 7,138.72 | 59.10 | 62.42 | -98.70 | -2,962.05 | -1,942.23 | 1,276.51 | 1,161.39 | 115.11 | 11.089 | | |
| 8,800.00 | 6,945.20 | 9,360.28 | 7,138.18 | 61.44 | 64.57 | -98.70 | -2,962.64 | -2,042.23 | 1,276.47 | 1,156.73 | 119.74 | 10.660 | | |
| 8,900.00 | 6,944.82 | 9,460.28 | 7,137.63 | 63.83 | 66.79 | -98.69 | -2,963.22 | -2,142.22 | 1,276.44 | 1,151.98 | 124.45 | 10.256 | | |
| 9,000.00 | 6,944.44 | 9,560.28 | 7,137.09 | 66.25 | 69.06 | -98.68 | -2,963.81 | -2,242.22 | 1,276.40 | 1,147.16 | 129.24 | 9.876 | | |
| 9,100.00 | 6,944.06 | 9,660.28 | 7,136.55 | 68.71 | 71.38 | -98.67 | -2,964.40 | -2,342.22 | 1,276.37 | 1,142.27 | 134.10 | 9.518 | | |
| 9,200.00 | 6,943.68 | 9,760.28 | 7,136.01 | 71.20 | 73.74 | -98.67 | -2,964.99 | -2,442.21 | 1,276.33 | 1,137.31 | 139.02 | 9.181 | | |
| 9,300.00 | 6,943.30 | 9,860.28 | 7,135.47 | 73.72 | 76.14 | -98.66 | -2,965.58 | -2,542.21 | 1,276.30 | 1,132.30 | 143.99 | 8.864 | | |
| 9,400.00 | 6,942.92 | 9,960.28 | 7,134.93 | 76.26 | 78.57 | -98.65 | -2,966.16 | -2,642.21 | 1,276.26 | 1,127.25 | 149.01 | 8.565 | | |
| 9,500.00 | 6,942.54 | 10,060.27 | 7,134.39 | 78.82 | 81.03 | -98.65 | -2,966.75 | -2,742.20 | 1,276.23 | 1,122.14 | 154.08 | 8.283 | | |
| 9,600.00 | 6,942.16 | 10,160.27 | 7,133.85 | 81.40 | 83.52 | -98.64 | -2,967.34 | -2,842.20 | 1,276.19 | 1,117.00 | 159.19 | 8.017 | | |
| 9,700.00 | 6,941.78 | 10,260.27 | 7,133.31 | 84.00 | 86.04 | -98.63 | -2,967.93 | -2,942.20 | 1,276.16 | 1,111.82 | 164.34 | 7.766 | | |
| 9,800.00 | 6,941.40 | 10,360.27 | 7,132.76 | 86.62 | 88.57 | -98.62 | -2,968.52 | -3,042.19 | 1,276.12 | 1,106.61 | 169.51 | 7.528 | | |
| 9,900.00 | 6,941.03 | 10,460.27 | 7,132.22 | 89.25 | 91.13 | -98.62 | -2,969.10 | -3,142.19 | 1,276.09 | 1,101.36 | 174.72 | 7.303 | | |
| 10,000.00 | 6,940.65 | 10,560.27 | 7,131.68 | 91.90 | 93.70 | -98.61 | -2,969.69 | -3,242.19 | 1,276.05 | 1,096.09 | 179.96 | 7.091 | | |
| 10,100.00 | 6,940.27 | 10,660.27 | 7,131.14 | 94.56 | 96.29 | -98.60 | -2,970.28 | -3,342.18 | 1,276.02 | 1,090.79 | 185.22 | 6.889 | | |
| 10,200.00 | 6,939.89 | 10,760.27 | 7,130.60 | 97.23 | 98.90 | -98.60 | -2,970.87 | -3,442.18 | 1,275.98 | 1,085.47 | 190.51 | 6.698 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 34N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 10,860.27 | 7,130.06 | 99.91 | 101.52 | -98.59 | -2,971.46 | -3,542.18 | 1,275.95 | 1,080.13 | 195.82 | 6.516 | | |
| 10,400.00 | 6,939.13 | 10,960.27 | 7,129.52 | 102.60 | 104.15 | -98.58 | -2,972.04 | -3,642.17 | 1,275.91 | 1,074.77 | 201.14 | 6.343 | | |
| 10,500.00 | 6,938.75 | 11,060.27 | 7,128.98 | 105.30 | 106.80 | -98.57 | -2,972.63 | -3,742.17 | 1,275.88 | 1,069.39 | 206.49 | 6.179 | | |
| 10,600.00 | 6,938.37 | 11,160.27 | 7,128.44 | 108.00 | 109.46 | -98.57 | -2,973.22 | -3,842.17 | 1,275.84 | 1,063.99 | 211.85 | 6.022 | | |
| 10,700.00 | 6,937.99 | 11,260.27 | 7,127.89 | 110.72 | 112.12 | -98.56 | -2,973.81 | -3,942.16 | 1,275.81 | 1,058.58 | 217.23 | 5.873 | | |
| 10,800.00 | 6,937.61 | 11,360.27 | 7,127.35 | 113.44 | 114.80 | -98.55 | -2,974.40 | -4,042.16 | 1,275.77 | 1,053.15 | 222.62 | 5.731 | | |
| 10,900.00 | 6,937.23 | 11,460.27 | 7,126.81 | 116.17 | 117.48 | -98.55 | -2,974.98 | -4,142.16 | 1,275.74 | 1,047.71 | 228.03 | 5.595 | | |
| 11,000.00 | 6,936.85 | 11,560.27 | 7,126.27 | 118.90 | 120.18 | -98.54 | -2,975.57 | -4,242.15 | 1,275.70 | 1,042.26 | 233.45 | 5.465 | | |
| 11,100.00 | 6,936.47 | 11,660.27 | 7,125.73 | 121.64 | 122.88 | -98.53 | -2,976.16 | -4,342.15 | 1,275.67 | 1,036.79 | 238.88 | 5.340 | | |
| 11,200.00 | 6,936.09 | 11,760.27 | 7,125.19 | 124.39 | 125.58 | -98.52 | -2,976.75 | -4,442.15 | 1,275.63 | 1,031.32 | 244.32 | 5.221 | | |
| 11,300.00 | 6,935.71 | 11,860.27 | 7,124.65 | 127.14 | 128.30 | -98.52 | -2,977.34 | -4,542.14 | 1,275.60 | 1,025.83 | 249.77 | 5.107 | | |
| 11,400.00 | 6,935.34 | 11,960.27 | 7,124.11 | 129.90 | 131.02 | -98.51 | -2,977.92 | -4,642.14 | 1,275.57 | 1,020.33 | 255.23 | 4.998 | | |
| 11,500.00 | 6,934.96 | 12,060.27 | 7,123.57 | 132.66 | 133.75 | -98.50 | -2,978.51 | -4,742.14 | 1,275.53 | 1,014.83 | 260.70 | 4.893 | | |
| 11,600.00 | 6,934.58 | 12,160.27 | 7,123.03 | 135.42 | 136.48 | -98.50 | -2,979.10 | -4,842.13 | 1,275.50 | 1,009.32 | 266.18 | 4.792 | | |
| 11,700.00 | 6,934.20 | 12,260.27 | 7,122.48 | 138.19 | 139.21 | -98.49 | -2,979.69 | -4,942.13 | 1,275.46 | 1,003.79 | 271.67 | 4.695 | | |
| 11,800.00 | 6,933.82 | 12,360.27 | 7,121.94 | 140.96 | 141.96 | -98.48 | -2,980.27 | -5,042.13 | 1,275.43 | 998.27 | 277.16 | 4.602 | | |
| 11,900.00 | 6,933.44 | 12,460.27 | 7,121.40 | 143.74 | 144.70 | -98.48 | -2,980.86 | -5,142.12 | 1,275.39 | 992.73 | 282.66 | 4.512 | | |
| 12,000.00 | 6,933.06 | 12,560.27 | 7,120.86 | 146.51 | 147.45 | -98.47 | -2,981.45 | -5,242.12 | 1,275.36 | 987.19 | 288.17 | 4.426 | | |
| 12,100.00 | 6,932.68 | 12,660.27 | 7,120.32 | 149.30 | 150.21 | -98.46 | -2,982.04 | -5,342.12 | 1,275.32 | 981.64 | 293.69 | 4.342 | | |
| 12,200.00 | 6,932.30 | 12,760.27 | 7,119.78 | 152.08 | 152.97 | -98.45 | -2,982.63 | -5,442.11 | 1,275.29 | 976.08 | 299.21 | 4.262 | | |
| 12,300.00 | 6,931.92 | 12,860.27 | 7,119.24 | 154.87 | 155.73 | -98.45 | -2,983.21 | -5,542.11 | 1,275.26 | 970.52 | 304.73 | 4.185 | | |
| 12,400.00 | 6,931.54 | 12,960.27 | 7,118.70 | 157.66 | 158.50 | -98.44 | -2,983.80 | -5,642.11 | 1,275.22 | 964.96 | 310.27 | 4.110 | | |
| 12,500.00 | 6,931.16 | 13,060.27 | 7,118.16 | 160.45 | 161.27 | -98.43 | -2,984.39 | -5,742.10 | 1,275.19 | 959.38 | 315.80 | 4.038 | | |
| 12,600.00 | 6,930.78 | 13,160.27 | 7,117.61 | 163.24 | 164.04 | -98.43 | -2,984.98 | -5,842.10 | 1,275.15 | 953.81 | 321.34 | 3.968 | | |
| 12,700.00 | 6,930.40 | 13,260.27 | 7,117.07 | 166.04 | 166.81 | -98.42 | -2,985.57 | -5,942.10 | 1,275.12 | 948.23 | 326.89 | 3.901 | | |
| 12,800.00 | 6,930.03 | 13,360.27 | 7,116.53 | 168.84 | 169.59 | -98.41 | -2,986.15 | -6,042.09 | 1,275.08 | 942.64 | 332.44 | 3.836 | | |
| 12,900.00 | 6,929.65 | 13,460.27 | 7,115.99 | 171.64 | 172.37 | -98.40 | -2,986.74 | -6,142.09 | 1,275.05 | 937.05 | 338.00 | 3.772 | | |
| 13,000.00 | 6,929.27 | 13,560.27 | 7,115.45 | 174.44 | 175.16 | -98.40 | -2,987.33 | -6,242.09 | 1,275.02 | 931.46 | 343.56 | 3.711 | | |
| 13,100.00 | 6,928.89 | 13,660.27 | 7,114.91 | 177.24 | 177.94 | -98.39 | -2,987.92 | -6,342.08 | 1,274.98 | 925.86 | 349.12 | 3.652 | | |
| 13,200.00 | 6,928.51 | 13,760.27 | 7,114.37 | 180.05 | 180.73 | -98.38 | -2,988.51 | -6,442.08 | 1,274.95 | 920.26 | 354.69 | 3.595 | | |
| 13,300.00 | 6,928.13 | 13,860.27 | 7,113.83 | 182.86 | 183.52 | -98.38 | -2,989.09 | -6,542.08 | 1,274.91 | 914.66 | 360.26 | 3.539 | | |
| 13,400.00 | 6,927.75 | 13,960.27 | 7,113.29 | 185.67 | 186.31 | -98.37 | -2,989.68 | -6,642.07 | 1,274.88 | 909.05 | 365.83 | 3.485 | | |
| 13,500.00 | 6,927.37 | 14,060.27 | 7,112.74 | 188.48 | 189.11 | -98.36 | -2,990.27 | -6,742.07 | 1,274.84 | 903.44 | 371.41 | 3.432 | | |
| 13,600.00 | 6,926.99 | 14,160.27 | 7,112.20 | 191.29 | 191.90 | -98.35 | -2,990.86 | -6,842.07 | 1,274.81 | 897.83 | 376.99 | 3.382 | | |
| 13,700.00 | 6,926.61 | 14,260.27 | 7,111.66 | 194.10 | 194.70 | -98.35 | -2,991.45 | -6,942.06 | 1,274.78 | 892.21 | 382.57 | 3.332 | | |
| 13,800.00 | 6,926.23 | 14,360.27 | 7,111.12 | 196.92 | 197.50 | -98.34 | -2,992.03 | -7,042.06 | 1,274.74 | 886.59 | 388.15 | 3.284 | | |
| 13,900.00 | 6,925.85 | 14,460.27 | 7,110.58 | 199.73 | 200.30 | -98.33 | -2,992.62 | -7,142.06 | 1,274.71 | 880.97 | 393.74 | 3.237 | | |
| 14,000.00 | 6,925.47 | 14,560.27 | 7,110.04 | 202.55 | 203.11 | -98.33 | -2,993.21 | -7,242.05 | 1,274.67 | 875.34 | 399.33 | 3.192 | | |
| 14,100.00 | 6,925.09 | 14,660.27 | 7,109.50 | 205.37 | 205.91 | -98.32 | -2,993.80 | -7,342.05 | 1,274.64 | 869.72 | 404.92 | 3.148 | | |
| 14,200.00 | 6,924.71 | 14,760.27 | 7,108.96 | 208.19 | 208.72 | -98.31 | -2,994.39 | -7,442.05 | 1,274.61 | 864.09 | 410.52 | 3.105 | | |
| 14,300.00 | 6,924.34 | 14,860.27 | 7,108.42 | 211.01 | 211.52 | -98.30 | -2,994.97 | -7,542.04 | 1,274.57 | 858.45 | 416.12 | 3.063 | | |
| 14,400.00 | 6,923.96 | 14,960.27 | 7,107.87 | 213.83 | 214.33 | -98.30 | -2,995.56 | -7,642.04 | 1,274.54 | 852.82 | 421.72 | 3.022 | | |
| 14,500.00 | 6,923.58 | 15,060.27 | 7,107.33 | 216.65 | 217.14 | -98.29 | -2,996.15 | -7,742.04 | 1,274.50 | 847.18 | 427.32 | 2.983 | | |
| 14,600.00 | 6,923.20 | 15,160.27 | 7,106.79 | 219.48 | 219.96 | -98.28 | -2,996.74 | -7,842.03 | 1,274.47 | 841.55 | 432.92 | 2.944 | | |
| 14,700.00 | 6,922.82 | 15,260.27 | 7,106.25 | 222.30 | 222.77 | -98.28 | -2,997.32 | -7,942.03 | 1,274.44 | 835.91 | 438.53 | 2.906 | | |
| 14,800.00 | 6,922.44 | 15,360.27 | 7,105.71 | 225.13 | 225.58 | -98.27 | -2,997.91 | -8,042.03 | 1,274.40 | 830.26 | 444.14 | 2.869 | | |
| 14,900.00 | 6,922.06 | 15,460.27 | 7,105.17 | 227.95 | 228.40 | -98.26 | -2,998.50 | -8,142.02 | 1,274.37 | 824.62 | 449.75 | 2.834 | | |
| 14,915.55 | 6,922.00 | 15,475.82 | 7,105.09 | 228.39 | 228.83 | -98.26 | -2,998.59 | -8,157.57 | 1,274.36 | 823.74 | 450.62 | 2.828 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 4N-16A-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.48 | 300.19 | 2.50 | 300.20 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.48 | 300.19 | 2.50 | 300.20 | 293.63 | 6.57 | 45.695 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.48 | 300.19 | 2.50 | 300.20 | 293.52 | 6.67 | 44.974 | CC, ES | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.12 | 300.19 | 2.50 | 301.94 | 295.05 | 6.89 | 43.846 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.20 | 300.19 | 2.50 | 307.15 | 299.95 | 7.20 | 42.677 | | |
| 500.00 | 499.45 | 500.45 | 499.45 | 3.79 | 3.81 | 175.31 | 300.19 | 2.50 | 315.84 | 308.24 | 7.60 | 41.560 | | |
| 600.00 | 598.70 | 599.70 | 598.70 | 4.03 | 4.05 | 175.47 | 300.19 | 2.50 | 327.98 | 319.90 | 8.08 | 40.592 | | |
| 700.00 | 697.47 | 698.47 | 697.47 | 4.31 | 4.28 | 175.57 | 301.51 | 2.19 | 345.05 | 336.45 | 8.60 | 40.106 | | |
| 800.00 | 795.62 | 796.62 | 795.62 | 4.64 | 4.54 | 175.58 | 305.38 | 1.26 | 368.42 | 359.25 | 9.17 | 40.159 | | |
| 900.00 | 893.06 | 894.06 | 893.06 | 5.00 | 4.81 | 175.51 | 311.61 | -0.23 | 397.94 | 388.17 | 9.77 | 40.712 | | |
| 1,000.00 | 989.78 | 990.78 | 989.78 | 5.39 | 5.09 | 175.41 | 320.11 | -2.27 | 432.91 | 422.52 | 10.39 | 41.650 | | |
| 1,100.00 | 1,086.42 | 1,087.42 | 1,086.42 | 5.81 | 5.41 | 175.31 | 330.63 | -4.79 | 469.26 | 458.20 | 11.05 | 42.452 | | |
| 1,200.00 | 1,183.06 | 1,184.06 | 1,183.06 | 6.25 | 5.74 | 175.22 | 341.15 | -7.31 | 505.60 | 493.86 | 11.74 | 43.068 | | |
| 1,300.00 | 1,279.69 | 1,280.69 | 1,279.69 | 6.71 | 6.08 | 175.14 | 351.67 | -9.83 | 541.95 | 529.50 | 12.45 | 43.523 | | |
| 1,400.00 | 1,376.33 | 1,377.33 | 1,376.33 | 7.17 | 6.43 | 175.07 | 362.19 | -12.35 | 578.30 | 565.12 | 13.18 | 43.861 | | |
| 1,500.00 | 1,472.97 | 1,473.97 | 1,472.97 | 7.65 | 6.79 | 175.01 | 372.71 | -14.87 | 614.65 | 600.72 | 13.94 | 44.108 | | |
| 1,600.00 | 1,569.61 | 1,570.61 | 1,569.61 | 8.13 | 7.16 | 174.96 | 383.23 | -17.39 | 651.00 | 636.30 | 14.70 | 44.286 | | |
| 1,700.00 | 1,666.24 | 1,667.24 | 1,666.24 | 8.62 | 7.57 | 174.92 | 393.75 | -19.91 | 687.35 | 671.84 | 15.52 | 44.297 | | |
| 1,800.00 | 1,762.88 | 1,763.88 | 1,762.88 | 9.12 | 7.91 | 174.87 | 404.27 | -22.43 | 723.70 | 707.44 | 16.26 | 44.495 | | |
| 1,900.00 | 1,859.52 | 1,860.52 | 1,859.52 | 9.62 | 8.29 | 174.80 | 414.79 | -24.95 | 760.05 | 742.99 | 17.06 | 44.547 | | |
| 2,000.00 | 1,956.16 | 1,957.16 | 1,956.16 | 10.13 | 8.68 | 174.80 | 425.31 | -27.47 | 796.41 | 778.54 | 17.87 | 44.574 | | |
| 2,100.00 | 2,052.79 | 2,053.79 | 2,052.79 | 10.64 | 9.07 | 174.77 | 435.83 | -29.99 | 832.76 | 814.08 | 18.68 | 44.583 | | |
| 2,200.00 | 2,149.43 | 2,150.43 | 2,149.43 | 11.15 | 9.46 | 174.74 | 446.35 | -32.51 | 869.11 | 849.61 | 19.50 | 44.577 | | |
| 2,300.00 | 2,246.07 | 2,247.07 | 2,246.07 | 11.66 | 9.85 | 174.71 | 456.87 | -35.03 | 905.46 | 885.14 | 20.32 | 44.560 | | |
| 2,400.00 | 2,342.71 | 2,343.71 | 2,342.71 | 12.18 | 10.25 | 174.69 | 467.39 | -37.55 | 941.81 | 920.67 | 21.15 | 44.534 | | |
| 2,500.00 | 2,439.34 | 2,440.34 | 2,439.34 | 12.70 | 10.65 | 174.67 | 477.91 | -40.07 | 978.17 | 956.19 | 21.98 | 44.502 | | |
| 2,600.00 | 2,535.98 | 2,536.98 | 2,535.98 | 13.22 | 11.05 | 174.64 | 488.44 | -42.59 | 1,014.52 | 991.70 | 22.82 | 44.465 | | |
| 2,700.00 | 2,632.62 | 2,633.62 | 2,632.62 | 13.75 | 11.45 | 174.63 | 498.96 | -45.11 | 1,050.87 | 1,027.22 | 23.66 | 44.424 | | |
| 2,800.00 | 2,729.26 | 2,730.26 | 2,729.26 | 14.27 | 11.85 | 174.61 | 509.48 | -47.63 | 1,087.22 | 1,062.73 | 24.50 | 44.381 | | |
| 2,900.00 | 2,825.89 | 2,826.89 | 2,825.89 | 14.80 | 12.26 | 174.59 | 520.00 | -50.15 | 1,123.58 | 1,098.23 | 25.34 | 44.336 | | |
| 3,000.00 | 2,922.53 | 2,923.53 | 2,922.53 | 15.32 | 12.66 | 174.57 | 530.52 | -52.67 | 1,159.93 | 1,133.74 | 26.19 | 44.289 | | |
| 3,100.00 | 3,019.17 | 3,020.17 | 3,019.17 | 15.85 | 13.08 | 174.56 | 541.04 | -55.19 | 1,196.28 | 1,169.24 | 27.05 | 44.231 | | |
| 3,200.00 | 3,115.81 | 3,116.81 | 3,115.81 | 16.38 | 13.48 | 174.54 | 551.56 | -57.71 | 1,232.64 | 1,204.75 | 27.89 | 44.195 | | |
| 3,300.00 | 3,212.44 | 3,213.44 | 3,212.44 | 16.91 | 13.89 | 174.53 | 562.08 | -60.23 | 1,268.99 | 1,240.25 | 28.74 | 44.148 | | |
| 3,400.00 | 3,309.08 | 3,310.08 | 3,309.08 | 17.44 | 14.30 | 174.52 | 572.60 | -62.75 | 1,305.34 | 1,275.74 | 29.60 | 44.101 | | |
| 3,500.00 | 3,405.72 | 3,406.72 | 3,405.72 | 17.97 | 14.71 | 174.51 | 583.12 | -65.27 | 1,341.70 | 1,311.24 | 30.46 | 44.054 | | |
| 3,600.00 | 3,502.36 | 3,503.36 | 3,502.36 | 18.50 | 15.12 | 174.49 | 593.64 | -67.79 | 1,378.05 | 1,346.74 | 31.31 | 44.008 | | |
| 3,700.00 | 3,598.99 | 3,599.99 | 3,598.99 | 19.03 | 15.53 | 174.48 | 604.16 | -70.31 | 1,414.40 | 1,382.23 | 32.17 | 43.963 | | |
| 3,800.00 | 3,695.63 | 3,696.63 | 3,695.63 | 19.57 | 15.94 | 174.47 | 614.68 | -72.83 | 1,450.76 | 1,417.72 | 33.03 | 43.918 | | |
| 3,900.00 | 3,792.27 | 3,793.27 | 3,792.27 | 20.10 | 16.35 | 174.46 | 625.20 | -75.35 | 1,487.11 | 1,453.21 | 33.89 | 43.874 | | |
| 4,000.00 | 3,888.91 | 3,889.91 | 3,888.91 | 20.63 | 16.77 | 174.45 | 635.72 | -77.87 | 1,523.46 | 1,488.71 | 34.76 | 43.831 | | |
| 4,100.00 | 3,985.54 | 3,986.54 | 3,985.54 | 21.17 | 17.18 | 174.45 | 646.24 | -80.39 | 1,559.82 | 1,524.20 | 35.62 | 43.789 | | |
| 4,200.00 | 4,082.18 | 4,083.18 | 4,082.18 | 21.70 | 17.59 | 174.44 | 656.76 | -82.91 | 1,596.17 | 1,559.68 | 36.49 | 43.748 | | |
| 4,300.00 | 4,178.82 | 4,179.82 | 4,178.82 | 22.24 | 18.01 | 174.43 | 667.28 | -85.43 | 1,632.52 | 1,595.17 | 37.35 | 43.708 | | |
| 4,400.00 | 4,275.46 | 4,276.46 | 4,275.46 | 22.77 | 18.42 | 174.42 | 677.80 | -87.95 | 1,668.88 | 1,630.66 | 38.22 | 43.669 | | |
| 4,500.00 | 4,372.09 | 4,373.09 | 4,372.09 | 23.31 | 18.84 | 174.41 | 688.32 | -90.47 | 1,705.23 | 1,666.15 | 39.08 | 43.630 | | |
| 4,600.00 | 4,468.73 | 4,469.73 | 4,468.73 | 23.84 | 19.28 | 174.41 | 698.84 | -92.99 | 1,741.58 | 1,701.60 | 39.98 | 43.560 | | |
| 4,700.00 | 4,565.37 | 4,566.37 | 4,565.37 | 24.38 | 19.67 | 174.40 | 709.37 | -95.51 | 1,777.94 | 1,737.12 | 40.82 | 43.556 | | |
| 4,800.00 | 4,662.01 | 4,663.01 | 4,662.01 | 24.91 | 20.08 | 174.39 | 719.89 | -98.03 | 1,814.29 | 1,772.60 | 41.69 | 43.521 | | |
| 4,900.00 | 4,758.64 | 4,759.64 | 4,758.64 | 25.45 | 20.50 | 174.39 | 730.41 | -100.55 | 1,850.65 | 1,808.09 | 42.56 | 43.486 | | |
| 5,000.00 | 4,855.28 | 4,856.28 | 4,855.28 | 25.99 | 20.91 | 174.38 | 740.93 | -103.07 | 1,887.00 | 1,843.57 | 43.43 | 43.452 | | |
| 5,100.00 | 4,951.92 | 4,952.92 | 4,951.92 | 26.53 | 21.33 | 174.38 | 751.45 | -105.59 | 1,923.35 | 1,879.05 | 44.30 | 43.418 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 4N-16A-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,855.54 | 4,827.26 | 27.06 | 21.75 | 174.37 | 761.97 | -108.11 | 1,959.71 | 1,914.54 | 45.17 | 43.386 | | |
| 5,300.00 | 5,145.19 | 4,948.70 | 4,919.78 | 27.60 | 22.16 | 174.36 | 772.49 | -110.63 | 1,996.06 | 1,950.02 | 46.04 | 43.354 | | |
| 5,400.00 | 5,241.83 | 5,041.86 | 5,012.31 | 28.14 | 22.58 | 174.36 | 783.01 | -113.15 | 2,032.41 | 1,985.50 | 46.91 | 43.323 | | |
| 5,500.00 | 5,338.47 | 5,135.02 | 5,104.84 | 28.67 | 23.00 | 174.35 | 793.53 | -115.67 | 2,068.77 | 2,020.98 | 47.78 | 43.293 | | |
| 5,600.00 | 5,435.11 | 5,228.18 | 5,197.37 | 29.21 | 23.41 | 174.35 | 804.05 | -118.19 | 2,105.12 | 2,056.46 | 48.66 | 43.264 | | |
| 5,700.00 | 5,531.74 | 5,321.33 | 5,289.89 | 29.75 | 23.83 | 174.35 | 814.57 | -120.71 | 2,141.48 | 2,091.94 | 49.53 | 43.235 | | |
| 5,800.00 | 5,628.38 | 5,414.49 | 5,382.42 | 30.29 | 24.25 | 174.34 | 825.09 | -123.23 | 2,177.83 | 2,127.42 | 50.40 | 43.207 | | |
| 5,900.00 | 5,725.02 | 5,507.65 | 5,474.95 | 30.83 | 24.67 | 174.34 | 835.61 | -125.75 | 2,214.18 | 2,162.90 | 51.28 | 43.179 | | |
| 6,000.00 | 5,821.66 | 5,600.81 | 5,567.48 | 31.37 | 25.08 | 174.33 | 846.13 | -128.27 | 2,250.54 | 2,198.38 | 52.15 | 43.152 | | |
| 6,100.00 | 5,918.29 | 5,706.04 | 5,660.00 | 31.90 | 25.56 | 174.33 | 856.65 | -130.79 | 2,286.89 | 2,233.81 | 53.08 | 43.082 | | |
| 6,200.00 | 6,014.93 | 5,787.12 | 5,752.53 | 32.44 | 25.92 | 174.32 | 867.17 | -133.31 | 2,323.24 | 2,269.34 | 53.90 | 43.100 | | |
| 6,300.00 | 6,111.57 | 5,880.28 | 5,845.06 | 32.98 | 26.34 | 174.32 | 877.69 | -135.83 | 2,359.60 | 2,304.82 | 54.78 | 43.075 | | |
| 6,400.00 | 6,208.21 | 5,973.44 | 5,937.59 | 33.52 | 26.76 | 174.32 | 888.21 | -138.35 | 2,395.95 | 2,340.30 | 55.65 | 43.051 | | |
| 6,500.00 | 6,304.84 | 6,066.60 | 6,030.11 | 34.06 | 27.18 | 174.31 | 898.73 | -140.87 | 2,432.31 | 2,375.78 | 56.53 | 43.027 | | |
| 6,600.00 | 6,401.37 | 6,159.70 | 6,122.59 | 34.60 | 27.59 | 155.82 | 909.25 | -143.39 | 2,468.64 | 2,411.23 | 57.41 | 43.003 | | |
| 6,700.00 | 6,496.25 | 6,251.59 | 6,213.86 | 35.12 | 28.01 | 130.26 | 919.63 | -145.87 | 2,504.52 | 2,446.25 | 58.27 | 42.983 | | |
| 6,800.00 | 6,587.15 | 6,340.04 | 6,301.71 | 35.59 | 28.41 | 115.23 | 929.61 | -148.27 | 2,539.37 | 2,480.28 | 59.09 | 42.977 | | |
| 6,900.00 | 6,671.83 | 6,433.76 | 6,394.62 | 36.03 | 28.83 | 106.04 | 940.16 | -153.73 | 2,572.75 | 2,512.79 | 59.95 | 42.913 | | |
| 7,000.00 | 6,748.21 | 6,541.22 | 6,498.99 | 36.41 | 29.31 | 100.01 | 951.89 | -175.84 | 2,603.78 | 2,542.82 | 60.96 | 42.713 | | |
| 7,100.00 | 6,814.41 | 6,661.74 | 6,609.78 | 36.76 | 29.83 | 95.91 | 964.19 | -221.20 | 2,631.60 | 2,569.48 | 62.12 | 42.361 | | |
| 7,200.00 | 6,868.79 | 6,798.91 | 6,722.95 | 37.07 | 30.45 | 93.17 | 976.54 | -297.25 | 2,655.31 | 2,591.79 | 63.52 | 41.805 | | |
| 7,300.00 | 6,910.01 | 6,955.59 | 6,829.01 | 37.39 | 31.31 | 91.46 | 987.82 | -411.48 | 2,673.92 | 2,608.63 | 65.29 | 40.955 | | |
| 7,400.00 | 6,937.07 | 7,131.52 | 6,911.11 | 37.76 | 32.68 | 90.49 | 996.08 | -566.22 | 2,686.42 | 2,618.74 | 67.68 | 39.691 | | |
| 7,500.00 | 6,949.29 | 7,320.53 | 6,949.03 | 38.27 | 34.71 | 90.04 | 999.10 | -750.66 | 2,691.95 | 2,621.11 | 70.84 | 38.000 | | |
| 7,600.00 | 6,949.75 | 7,438.38 | 6,949.76 | 39.02 | 36.25 | 90.00 | 998.35 | -868.49 | 2,692.10 | 2,618.52 | 73.58 | 36.588 | | |
| 7,700.00 | 6,949.97 | 7,538.38 | 6,949.46 | 40.05 | 37.72 | 90.00 | 997.62 | -968.49 | 2,691.96 | 2,615.54 | 76.42 | 35.227 | | |
| 7,800.00 | 6,948.99 | 7,638.38 | 6,949.16 | 41.35 | 39.35 | 90.00 | 996.88 | -1,068.48 | 2,691.82 | 2,612.25 | 79.57 | 33.831 | | |
| 7,900.00 | 6,948.61 | 7,738.38 | 6,948.87 | 42.86 | 41.12 | 90.01 | 996.14 | -1,168.48 | 2,691.68 | 2,608.69 | 82.99 | 32.433 | | |
| 8,000.00 | 6,948.23 | 7,838.38 | 6,948.57 | 44.53 | 43.00 | 90.01 | 995.40 | -1,268.48 | 2,691.54 | 2,604.88 | 86.66 | 31.060 | | |
| 8,100.00 | 6,947.85 | 7,938.38 | 6,948.27 | 46.34 | 44.98 | 90.01 | 994.66 | -1,368.47 | 2,691.40 | 2,600.87 | 90.54 | 29.728 | | |
| 8,200.00 | 6,947.47 | 8,038.38 | 6,947.97 | 48.26 | 47.06 | 90.01 | 993.93 | -1,468.47 | 2,691.26 | 2,596.66 | 94.60 | 28.449 | | |
| 8,300.00 | 6,947.09 | 8,138.38 | 6,947.67 | 50.28 | 49.21 | 90.01 | 993.19 | -1,568.47 | 2,691.12 | 2,592.29 | 98.83 | 27.230 | | |
| 8,400.00 | 6,946.72 | 8,238.38 | 6,947.37 | 52.39 | 51.43 | 90.01 | 992.45 | -1,668.46 | 2,690.98 | 2,587.78 | 103.20 | 26.075 | | |
| 8,500.00 | 6,946.34 | 8,338.38 | 6,947.07 | 54.56 | 53.71 | 90.02 | 991.71 | -1,768.46 | 2,690.85 | 2,583.15 | 107.70 | 24.985 | | |
| 8,600.00 | 6,945.96 | 8,438.38 | 6,946.78 | 56.80 | 56.05 | 90.02 | 990.98 | -1,868.46 | 2,690.71 | 2,578.40 | 112.31 | 23.958 | | |
| 8,700.00 | 6,945.58 | 8,538.38 | 6,946.48 | 59.10 | 58.43 | 90.02 | 990.24 | -1,968.45 | 2,690.57 | 2,573.55 | 117.02 | 22.993 | | |
| 8,800.00 | 6,945.20 | 8,638.38 | 6,946.18 | 61.44 | 60.85 | 90.02 | 989.50 | -2,068.45 | 2,690.43 | 2,568.62 | 121.81 | 22.087 | | |
| 8,900.00 | 6,944.82 | 8,738.38 | 6,945.88 | 63.83 | 63.31 | 90.02 | 988.76 | -2,168.45 | 2,690.29 | 2,563.61 | 126.68 | 21.237 | | |
| 9,000.00 | 6,944.44 | 8,838.38 | 6,945.58 | 66.25 | 65.80 | 90.02 | 988.02 | -2,268.45 | 2,690.15 | 2,558.53 | 131.62 | 20.439 | | |
| 9,100.00 | 6,944.06 | 8,938.38 | 6,945.28 | 68.71 | 68.32 | 90.03 | 987.29 | -2,368.44 | 2,690.01 | 2,553.39 | 136.62 | 19.690 | | |
| 9,200.00 | 6,943.68 | 9,038.38 | 6,944.99 | 71.20 | 70.86 | 90.03 | 986.55 | -2,468.44 | 2,689.87 | 2,548.20 | 141.67 | 18.987 | | |
| 9,300.00 | 6,943.30 | 9,138.38 | 6,944.69 | 73.72 | 73.43 | 90.03 | 985.81 | -2,568.44 | 2,689.73 | 2,542.96 | 146.77 | 18.326 | | |
| 9,400.00 | 6,942.92 | 9,238.38 | 6,944.39 | 76.26 | 76.02 | 90.03 | 985.07 | -2,668.43 | 2,689.59 | 2,537.67 | 151.92 | 17.704 | | |
| 9,500.00 | 6,942.54 | 9,338.38 | 6,944.09 | 78.82 | 78.63 | 90.03 | 984.34 | -2,768.43 | 2,689.45 | 2,532.35 | 157.10 | 17.119 | | |
| 9,600.00 | 6,942.16 | 9,438.38 | 6,943.79 | 81.40 | 81.26 | 90.04 | 983.60 | -2,868.43 | 2,689.32 | 2,526.99 | 162.33 | 16.567 | | |
| 9,700.00 | 6,941.78 | 9,538.38 | 6,943.49 | 84.00 | 83.90 | 90.04 | 982.86 | -2,968.42 | 2,689.18 | 2,521.60 | 167.58 | 16.047 | | |
| 9,800.00 | 6,941.40 | 9,638.38 | 6,943.20 | 86.62 | 86.55 | 90.04 | 982.12 | -3,068.42 | 2,689.04 | 2,516.18 | 172.86 | 15.556 | | |
| 9,900.00 | 6,941.03 | 9,738.38 | 6,942.90 | 89.25 | 89.22 | 90.04 | 981.39 | -3,168.42 | 2,688.90 | 2,510.73 | 178.17 | 15.092 | | |
| 10,000.00 | 6,940.65 | 9,838.38 | 6,942.60 | 91.90 | 91.89 | 90.04 | 980.65 | -3,268.41 | 2,688.76 | 2,505.25 | 183.51 | 14.652 | | |
| 10,100.00 | 6,940.27 | 9,938.38 | 6,942.30 | 94.56 | 94.58 | 90.04 | 979.91 | -3,368.41 | 2,688.62 | 2,499.76 | 188.86 | 14.236 | | |
| 10,200.00 | 6,939.89 | 10,038.38 | 6,942.00 | 97.23 | 97.28 | 90.05 | 979.17 | -3,468.41 | 2,688.48 | 2,494.24 | 194.24 | 13.841 | | |
| 10,300.00 | 6,939.51 | 10,138.38 | 6,941.70 | 99.91 | 99.99 | 90.05 | 978.43 | -3,568.40 | 2,688.34 | 2,488.71 | 199.64 | 13.466 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 4N-16A-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,238.38 | 6,941.41 | 102.60 | 102.70 | 90.05 | 977.70 | -3,668.40 | 2,688.20 | 2,483.15 | 205.05 | 13.110 | | |
| 10,500.00 | 6,938.75 | 10,338.38 | 6,941.11 | 105.30 | 105.43 | 90.05 | 976.96 | -3,768.40 | 2,688.06 | 2,477.58 | 210.48 | 12.771 | | |
| 10,600.00 | 6,938.37 | 10,438.38 | 6,940.81 | 108.00 | 108.16 | 90.05 | 976.22 | -3,868.39 | 2,687.92 | 2,472.00 | 215.92 | 12.448 | | |
| 10,700.00 | 6,937.99 | 10,538.38 | 6,940.51 | 110.72 | 110.89 | 90.05 | 975.48 | -3,968.39 | 2,687.79 | 2,466.40 | 221.38 | 12.141 | | |
| 10,800.00 | 6,937.61 | 10,638.38 | 6,940.21 | 113.44 | 113.64 | 90.06 | 974.75 | -4,068.39 | 2,687.65 | 2,460.79 | 226.85 | 11.847 | | |
| 10,900.00 | 6,937.23 | 10,738.38 | 6,939.91 | 116.17 | 116.38 | 90.06 | 974.01 | -4,168.38 | 2,687.51 | 2,455.17 | 232.34 | 11.567 | | |
| 11,000.00 | 6,936.85 | 10,838.38 | 6,939.62 | 118.90 | 119.14 | 90.06 | 973.27 | -4,268.38 | 2,687.37 | 2,449.54 | 237.83 | 11.300 | | |
| 11,100.00 | 6,936.47 | 10,938.38 | 6,939.32 | 121.64 | 121.90 | 90.06 | 972.53 | -4,368.38 | 2,687.23 | 2,443.89 | 243.33 | 11.043 | | |
| 11,200.00 | 6,936.09 | 11,038.38 | 6,939.02 | 124.39 | 124.66 | 90.06 | 971.79 | -4,468.37 | 2,687.09 | 2,438.24 | 248.85 | 10.798 | | |
| 11,300.00 | 6,935.71 | 11,138.38 | 6,938.72 | 127.14 | 127.43 | 90.06 | 971.06 | -4,568.37 | 2,686.95 | 2,432.58 | 254.37 | 10.563 | | |
| 11,400.00 | 6,935.34 | 11,238.38 | 6,938.42 | 129.90 | 130.20 | 90.07 | 970.32 | -4,668.37 | 2,686.81 | 2,426.91 | 259.90 | 10.338 | | |
| 11,500.00 | 6,934.96 | 11,338.38 | 6,938.12 | 132.66 | 132.97 | 90.07 | 969.58 | -4,768.36 | 2,686.67 | 2,421.23 | 265.44 | 10.122 | | |
| 11,600.00 | 6,934.58 | 11,438.38 | 6,937.83 | 135.42 | 135.75 | 90.07 | 968.84 | -4,868.36 | 2,686.53 | 2,415.55 | 270.99 | 9.914 | | |
| 11,700.00 | 6,934.20 | 11,538.38 | 6,937.53 | 138.19 | 138.53 | 90.07 | 968.11 | -4,968.36 | 2,686.40 | 2,409.85 | 276.54 | 9.714 | | |
| 11,800.00 | 6,933.82 | 11,638.38 | 6,937.23 | 140.96 | 141.31 | 90.07 | 967.37 | -5,068.35 | 2,686.26 | 2,404.16 | 282.10 | 9.522 | | |
| 11,900.00 | 6,933.44 | 11,738.38 | 6,936.93 | 143.74 | 144.10 | 90.07 | 966.63 | -5,168.35 | 2,686.12 | 2,398.45 | 287.67 | 9.338 | | |
| 12,000.00 | 6,933.06 | 11,838.38 | 6,936.63 | 146.51 | 146.89 | 90.08 | 965.89 | -5,268.35 | 2,685.98 | 2,392.74 | 293.24 | 9.160 | | |
| 12,100.00 | 6,932.68 | 11,938.38 | 6,936.33 | 149.30 | 149.68 | 90.08 | 965.15 | -5,368.34 | 2,685.84 | 2,387.02 | 298.82 | 8.988 | | |
| 12,200.00 | 6,932.30 | 12,038.38 | 6,936.04 | 152.08 | 152.48 | 90.08 | 964.42 | -5,468.34 | 2,685.70 | 2,381.30 | 304.40 | 8.823 | | |
| 12,300.00 | 6,931.92 | 12,138.38 | 6,935.74 | 154.87 | 155.28 | 90.08 | 963.68 | -5,568.34 | 2,685.56 | 2,375.57 | 309.99 | 8.663 | | |
| 12,400.00 | 6,931.54 | 12,238.38 | 6,935.44 | 157.66 | 158.08 | 90.08 | 962.94 | -5,668.33 | 2,685.42 | 2,369.84 | 315.58 | 8.510 | | |
| 12,500.00 | 6,931.16 | 12,338.38 | 6,935.14 | 160.45 | 160.88 | 90.09 | 962.20 | -5,768.33 | 2,685.28 | 2,364.11 | 321.18 | 8.361 | | |
| 12,600.00 | 6,930.78 | 12,438.38 | 6,934.84 | 163.24 | 163.68 | 90.09 | 961.47 | -5,868.33 | 2,685.14 | 2,358.37 | 326.78 | 8.217 | | |
| 12,700.00 | 6,930.40 | 12,538.38 | 6,934.54 | 166.04 | 166.49 | 90.09 | 960.73 | -5,968.32 | 2,685.01 | 2,352.62 | 332.38 | 8.078 | | |
| 12,800.00 | 6,930.03 | 12,638.38 | 6,934.24 | 168.84 | 169.29 | 90.09 | 959.99 | -6,068.32 | 2,684.87 | 2,346.88 | 337.99 | 7.944 | | |
| 12,900.00 | 6,929.65 | 12,738.38 | 6,933.95 | 171.64 | 172.10 | 90.09 | 959.25 | -6,168.32 | 2,684.73 | 2,341.13 | 343.60 | 7.813 | | |
| 13,000.00 | 6,929.27 | 12,838.38 | 6,933.65 | 174.44 | 174.91 | 90.09 | 958.51 | -6,268.31 | 2,684.59 | 2,335.37 | 349.22 | 7.687 | | |
| 13,100.00 | 6,928.89 | 12,938.38 | 6,933.35 | 177.24 | 177.73 | 90.10 | 957.78 | -6,368.31 | 2,684.45 | 2,329.61 | 354.84 | 7.565 | | |
| 13,200.00 | 6,928.51 | 13,038.38 | 6,933.05 | 180.05 | 180.54 | 90.10 | 957.04 | -6,468.31 | 2,684.31 | 2,323.85 | 360.46 | 7.447 | | |
| 13,300.00 | 6,928.13 | 13,138.38 | 6,932.75 | 182.86 | 183.35 | 90.10 | 956.30 | -6,568.30 | 2,684.17 | 2,318.09 | 366.08 | 7.332 | | |
| 13,400.00 | 6,927.75 | 13,238.38 | 6,932.45 | 185.67 | 186.17 | 90.10 | 955.56 | -6,668.30 | 2,684.03 | 2,312.32 | 371.71 | 7.221 | | |
| 13,500.00 | 6,927.37 | 13,338.38 | 6,932.16 | 188.48 | 188.99 | 90.10 | 954.83 | -6,768.30 | 2,683.89 | 2,306.55 | 377.34 | 7.113 | | |
| 13,600.00 | 6,926.99 | 13,438.38 | 6,931.86 | 191.29 | 191.81 | 90.10 | 954.09 | -6,868.29 | 2,683.75 | 2,300.78 | 382.97 | 7.008 | | |
| 13,700.00 | 6,926.61 | 13,538.38 | 6,931.56 | 194.10 | 194.63 | 90.11 | 953.35 | -6,968.29 | 2,683.62 | 2,295.01 | 388.61 | 6.906 | | |
| 13,800.00 | 6,926.23 | 13,638.37 | 6,931.26 | 196.92 | 197.45 | 90.11 | 952.61 | -7,068.29 | 2,683.48 | 2,289.23 | 394.25 | 6.807 | | |
| 13,900.00 | 6,925.85 | 13,738.37 | 6,930.96 | 199.73 | 200.27 | 90.11 | 951.87 | -7,168.28 | 2,683.34 | 2,283.45 | 399.89 | 6.710 | | |
| 14,000.00 | 6,925.47 | 13,838.37 | 6,930.66 | 202.55 | 203.09 | 90.11 | 951.14 | -7,268.28 | 2,683.20 | 2,277.67 | 405.53 | 6.617 | | |
| 14,100.00 | 6,925.09 | 13,938.37 | 6,930.37 | 205.37 | 205.92 | 90.11 | 950.40 | -7,368.28 | 2,683.06 | 2,271.89 | 411.17 | 6.525 | | |
| 14,200.00 | 6,924.71 | 14,038.37 | 6,930.07 | 208.19 | 208.74 | 90.11 | 949.66 | -7,468.27 | 2,682.92 | 2,266.10 | 416.82 | 6.437 | | |
| 14,300.00 | 6,924.34 | 14,138.37 | 6,929.77 | 211.01 | 211.57 | 90.12 | 948.92 | -7,568.27 | 2,682.78 | 2,260.32 | 422.47 | 6.350 | | |
| 14,400.00 | 6,923.96 | 14,238.37 | 6,929.47 | 213.83 | 214.39 | 90.12 | 948.19 | -7,668.27 | 2,682.64 | 2,254.53 | 428.12 | 6.266 | | |
| 14,500.00 | 6,923.58 | 14,338.37 | 6,929.17 | 216.65 | 217.22 | 90.12 | 947.45 | -7,768.26 | 2,682.50 | 2,248.74 | 433.77 | 6.184 | | |
| 14,600.00 | 6,923.20 | 14,438.37 | 6,928.87 | 219.48 | 220.05 | 90.12 | 946.71 | -7,868.26 | 2,682.36 | 2,242.94 | 439.42 | 6.104 | | |
| 14,700.00 | 6,922.82 | 14,538.37 | 6,928.58 | 222.30 | 222.88 | 90.12 | 945.97 | -7,968.26 | 2,682.23 | 2,237.15 | 445.08 | 6.026 | | |
| 14,800.00 | 6,922.44 | 14,638.37 | 6,928.28 | 225.13 | 225.71 | 90.13 | 945.23 | -8,068.25 | 2,682.09 | 2,231.35 | 450.73 | 5.951 | | |
| 14,897.48 | 6,922.07 | 14,732.12 | 6,928.00 | 227.88 | 228.36 | 90.13 | 944.54 | -8,162.00 | 2,681.95 | 2,225.82 | 456.14 | 5.880 | | |
| 14,900.00 | 6,922.06 | 14,732.12 | 6,928.00 | 227.95 | 228.36 | 90.13 | 944.54 | -8,162.00 | 2,681.96 | 2,225.75 | 456.21 | 5.879 | | |
| 14,915.55 | 6,922.00 | 14,732.12 | 6,928.00 | 228.39 | 228.36 | 90.13 | 944.54 | -8,162.00 | 2,682.02 | 2,225.40 | 456.61 | 5.874 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 4N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.45 | 320.23 | 2.50 | 320.24 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.45 | 320.23 | 2.50 | 320.24 | 313.67 | 6.57 | 48.746 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.45 | 320.23 | 2.50 | 320.24 | 313.57 | 6.67 | 47.977 | CC, ES | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.09 | 320.23 | 2.50 | 321.98 | 315.09 | 6.89 | 46.757 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.16 | 320.23 | 2.50 | 327.20 | 320.00 | 7.20 | 45.462 | | |
| 500.00 | 499.45 | 500.45 | 499.45 | 3.79 | 3.81 | 175.27 | 320.23 | 2.50 | 335.88 | 328.28 | 7.60 | 44.198 | | |
| 600.00 | 598.70 | 599.70 | 598.70 | 4.03 | 4.05 | 175.42 | 320.23 | 2.50 | 348.03 | 339.95 | 8.08 | 43.072 | | |
| 700.00 | 697.47 | 698.47 | 697.47 | 4.31 | 4.28 | 175.53 | 321.55 | 2.29 | 365.10 | 356.50 | 8.60 | 42.446 | | |
| 800.00 | 795.62 | 796.62 | 795.62 | 4.64 | 4.54 | 175.58 | 325.42 | 1.67 | 388.51 | 379.34 | 9.17 | 42.367 | | |
| 900.00 | 893.06 | 894.06 | 893.06 | 5.00 | 4.80 | 175.58 | 331.65 | 0.66 | 418.09 | 408.32 | 9.77 | 42.801 | | |
| 1,000.00 | 989.78 | 990.78 | 989.78 | 5.39 | 5.07 | 175.57 | 340.01 | -0.68 | 453.16 | 442.77 | 10.38 | 43.648 | | |
| 1,100.00 | 1,086.42 | 1,087.42 | 1,086.42 | 5.81 | 5.35 | 175.53 | 350.37 | -2.35 | 491.12 | 480.14 | 10.99 | 44.695 | | |
| 1,200.00 | 1,183.06 | 1,184.06 | 1,183.06 | 6.25 | 5.65 | 175.45 | 363.31 | -4.44 | 531.39 | 519.76 | 11.62 | 45.720 | | |
| 1,300.00 | 1,279.69 | 1,280.69 | 1,279.69 | 6.71 | 6.03 | 175.37 | 377.90 | -6.79 | 572.09 | 559.73 | 12.36 | 46.277 | | |
| 1,400.00 | 1,376.33 | 1,377.33 | 1,376.33 | 7.17 | 6.32 | 175.30 | 392.49 | -9.14 | 612.80 | 599.77 | 13.02 | 47.049 | | |
| 1,500.00 | 1,472.97 | 1,473.97 | 1,472.97 | 7.65 | 6.68 | 175.23 | 407.08 | -11.49 | 653.50 | 639.75 | 13.76 | 47.507 | | |
| 1,600.00 | 1,569.61 | 1,570.61 | 1,569.61 | 8.13 | 7.04 | 175.18 | 421.67 | -13.83 | 694.21 | 679.71 | 14.50 | 47.867 | | |
| 1,700.00 | 1,666.24 | 1,667.24 | 1,666.24 | 8.62 | 7.41 | 175.13 | 436.26 | -16.18 | 734.92 | 719.65 | 15.26 | 48.148 | | |
| 1,800.00 | 1,762.88 | 1,763.88 | 1,762.88 | 9.12 | 7.79 | 175.08 | 450.84 | -18.53 | 775.62 | 759.59 | 16.04 | 48.368 | | |
| 1,900.00 | 1,859.52 | 1,860.52 | 1,859.52 | 9.62 | 8.17 | 175.04 | 465.43 | -20.88 | 816.33 | 799.51 | 16.82 | 48.539 | | |
| 2,000.00 | 1,956.16 | 1,957.16 | 1,956.16 | 10.13 | 8.56 | 175.01 | 480.02 | -23.23 | 857.04 | 839.43 | 17.61 | 48.670 | | |
| 2,100.00 | 2,052.79 | 2,053.79 | 2,052.79 | 10.64 | 8.95 | 174.97 | 494.61 | -25.58 | 897.75 | 879.34 | 18.41 | 48.770 | | |
| 2,200.00 | 2,149.43 | 2,150.43 | 2,149.43 | 11.15 | 9.34 | 174.94 | 509.20 | -27.93 | 938.46 | 919.25 | 19.21 | 48.845 | | |
| 2,300.00 | 2,246.07 | 2,247.07 | 2,246.07 | 11.66 | 9.74 | 174.91 | 523.78 | -30.28 | 979.17 | 959.15 | 20.02 | 48.900 | | |
| 2,400.00 | 2,342.71 | 2,343.71 | 2,342.71 | 12.18 | 10.14 | 174.89 | 538.37 | -32.63 | 1,019.88 | 999.04 | 20.84 | 48.939 | | |
| 2,500.00 | 2,439.34 | 2,440.34 | 2,439.34 | 12.70 | 10.54 | 174.87 | 552.96 | -34.98 | 1,060.59 | 1,038.93 | 21.66 | 48.964 | | |
| 2,600.00 | 2,535.98 | 2,536.98 | 2,535.98 | 13.22 | 10.94 | 174.84 | 567.55 | -37.33 | 1,101.30 | 1,078.81 | 22.49 | 48.978 | | |
| 2,700.00 | 2,632.62 | 2,633.62 | 2,632.62 | 13.75 | 11.35 | 174.82 | 582.14 | -39.68 | 1,142.01 | 1,118.69 | 23.31 | 48.984 | | |
| 2,800.00 | 2,729.26 | 2,730.26 | 2,729.26 | 14.27 | 11.75 | 174.81 | 596.73 | -42.03 | 1,182.72 | 1,158.57 | 24.15 | 48.983 | | |
| 2,900.00 | 2,825.89 | 2,826.89 | 2,825.89 | 14.80 | 12.16 | 174.79 | 611.31 | -44.38 | 1,223.43 | 1,198.45 | 24.98 | 48.976 | | |
| 3,000.00 | 2,922.53 | 2,923.53 | 2,922.53 | 15.32 | 12.57 | 174.77 | 625.90 | -46.73 | 1,264.14 | 1,238.32 | 25.82 | 48.965 | | |
| 3,100.00 | 3,019.17 | 3,020.17 | 3,019.17 | 15.85 | 12.98 | 174.76 | 640.49 | -49.08 | 1,304.85 | 1,278.19 | 26.66 | 48.950 | | |
| 3,200.00 | 3,115.81 | 3,116.81 | 3,115.81 | 16.38 | 13.39 | 174.74 | 655.08 | -51.43 | 1,345.56 | 1,318.06 | 27.50 | 48.932 | | |
| 3,300.00 | 3,212.44 | 3,213.44 | 3,212.44 | 16.91 | 13.81 | 174.73 | 669.67 | -53.78 | 1,386.27 | 1,357.93 | 28.34 | 48.911 | | |
| 3,400.00 | 3,309.08 | 3,310.08 | 3,309.08 | 17.44 | 14.22 | 174.71 | 684.26 | -56.13 | 1,426.98 | 1,397.79 | 29.19 | 48.889 | | |
| 3,500.00 | 3,405.72 | 3,406.72 | 3,405.72 | 17.97 | 14.63 | 174.70 | 698.84 | -58.48 | 1,467.69 | 1,437.65 | 30.04 | 48.865 | | |
| 3,600.00 | 3,502.36 | 3,503.36 | 3,502.36 | 18.50 | 15.05 | 174.69 | 713.43 | -60.83 | 1,508.40 | 1,477.52 | 30.88 | 48.840 | | |
| 3,700.00 | 3,598.99 | 3,599.99 | 3,598.99 | 19.03 | 15.46 | 174.68 | 728.02 | -63.18 | 1,549.11 | 1,517.38 | 31.73 | 48.815 | | |
| 3,800.00 | 3,695.63 | 3,696.63 | 3,695.63 | 19.57 | 15.88 | 174.67 | 742.61 | -65.53 | 1,589.82 | 1,557.24 | 32.59 | 48.788 | | |
| 3,900.00 | 3,792.27 | 3,793.27 | 3,792.27 | 20.10 | 16.30 | 174.66 | 757.20 | -67.88 | 1,630.53 | 1,597.09 | 33.44 | 48.761 | | |
| 4,000.00 | 3,888.91 | 3,889.91 | 3,888.91 | 20.63 | 16.72 | 174.65 | 771.78 | -70.23 | 1,671.24 | 1,636.95 | 34.29 | 48.734 | | |
| 4,100.00 | 3,985.54 | 3,986.54 | 3,985.54 | 21.17 | 17.13 | 174.64 | 786.37 | -72.58 | 1,711.95 | 1,676.81 | 35.15 | 48.707 | | |
| 4,200.00 | 4,082.18 | 4,083.18 | 4,082.18 | 21.70 | 17.55 | 174.63 | 800.96 | -74.93 | 1,752.66 | 1,716.66 | 36.00 | 48.680 | | |
| 4,300.00 | 4,178.82 | 4,179.82 | 4,178.82 | 22.24 | 17.97 | 174.63 | 815.55 | -77.28 | 1,793.38 | 1,756.51 | 36.86 | 48.653 | | |
| 4,400.00 | 4,275.46 | 4,276.46 | 4,275.46 | 22.77 | 18.39 | 174.62 | 830.14 | -79.63 | 1,834.09 | 1,796.37 | 37.72 | 48.625 | | |
| 4,500.00 | 4,372.09 | 4,373.09 | 4,372.09 | 23.31 | 18.81 | 174.61 | 844.73 | -81.98 | 1,874.80 | 1,836.22 | 38.58 | 48.598 | | |
| 4,600.00 | 4,468.73 | 4,469.73 | 4,468.73 | 23.84 | 19.23 | 174.60 | 859.31 | -84.33 | 1,915.51 | 1,876.07 | 39.44 | 48.572 | | |
| 4,700.00 | 4,565.37 | 4,566.37 | 4,565.37 | 24.38 | 19.65 | 174.60 | 873.90 | -86.68 | 1,956.22 | 1,915.92 | 40.30 | 48.545 | | |
| 4,800.00 | 4,662.01 | 4,663.01 | 4,662.01 | 24.91 | 20.16 | 174.59 | 888.49 | -89.03 | 1,996.93 | 1,955.68 | 41.25 | 48.514 | | |
| 4,900.00 | 4,758.64 | 4,759.64 | 4,758.64 | 25.45 | 20.49 | 174.58 | 903.08 | -91.38 | 2,037.64 | 1,995.62 | 42.02 | 48.493 | | |
| 5,000.00 | 4,855.28 | 4,856.28 | 4,855.28 | 25.99 | 20.91 | 174.58 | 917.67 | -93.73 | 2,078.35 | 2,035.47 | 42.88 | 48.468 | | |
| 5,100.00 | 4,951.92 | 4,952.92 | 4,951.92 | 26.53 | 21.33 | 174.57 | 932.26 | -96.07 | 2,119.06 | 2,075.32 | 43.74 | 48.443 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 4N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,755.48 | 4,703.83 | 27.06 | 21.76 | 174.57 | 946.84 | -98.42 | 2,159.77 | 2,115.17 | 44.61 | 48.418 | | |
| 5,300.00 | 5,145.19 | 4,846.82 | 4,793.96 | 27.60 | 22.18 | 174.56 | 961.43 | -100.77 | 2,200.48 | 2,155.01 | 45.47 | 48.393 | | |
| 5,400.00 | 5,241.83 | 4,938.16 | 4,884.10 | 28.14 | 22.60 | 174.56 | 976.02 | -103.12 | 2,241.20 | 2,194.86 | 46.34 | 48.369 | | |
| 5,500.00 | 5,338.47 | 5,029.50 | 4,974.23 | 28.67 | 23.02 | 174.55 | 990.61 | -105.47 | 2,281.91 | 2,234.71 | 47.20 | 48.346 | | |
| 5,600.00 | 5,435.11 | 5,120.83 | 5,064.37 | 29.21 | 23.45 | 174.55 | 1,005.20 | -107.82 | 2,322.62 | 2,274.55 | 48.07 | 48.322 | | |
| 5,700.00 | 5,531.74 | 5,212.17 | 5,154.50 | 29.75 | 23.87 | 174.54 | 1,019.78 | -110.17 | 2,363.33 | 2,314.40 | 48.93 | 48.299 | | |
| 5,800.00 | 5,628.38 | 5,303.51 | 5,244.64 | 30.29 | 24.29 | 174.54 | 1,034.37 | -112.52 | 2,404.04 | 2,354.24 | 49.80 | 48.277 | | |
| 5,900.00 | 5,725.02 | 5,405.15 | 5,334.77 | 30.83 | 24.76 | 174.53 | 1,048.96 | -114.87 | 2,444.75 | 2,394.04 | 50.71 | 48.210 | | |
| 6,000.00 | 5,821.66 | 5,486.18 | 5,424.91 | 31.37 | 25.14 | 174.53 | 1,063.55 | -117.22 | 2,485.46 | 2,433.93 | 51.53 | 48.233 | | |
| 6,100.00 | 5,918.29 | 5,577.52 | 5,515.04 | 31.90 | 25.56 | 174.52 | 1,078.14 | -119.57 | 2,526.17 | 2,473.78 | 52.40 | 48.211 | | |
| 6,200.00 | 6,014.93 | 5,668.86 | 5,605.18 | 32.44 | 25.98 | 174.52 | 1,092.73 | -121.92 | 2,566.88 | 2,513.62 | 53.27 | 48.190 | | |
| 6,300.00 | 6,111.57 | 5,760.20 | 5,695.31 | 32.98 | 26.41 | 174.52 | 1,107.31 | -124.27 | 2,607.60 | 2,553.46 | 54.13 | 48.169 | | |
| 6,400.00 | 6,208.21 | 5,851.53 | 5,785.45 | 33.52 | 26.83 | 174.51 | 1,121.90 | -126.62 | 2,648.31 | 2,593.30 | 55.00 | 48.149 | | |
| 6,500.00 | 6,304.84 | 5,942.87 | 5,875.58 | 34.06 | 27.26 | 174.51 | 1,136.49 | -128.97 | 2,689.02 | 2,633.15 | 55.87 | 48.129 | | |
| 6,600.00 | 6,401.37 | 6,034.16 | 5,965.66 | 34.60 | 27.68 | 155.74 | 1,151.07 | -131.32 | 2,729.71 | 2,672.97 | 56.74 | 48.109 | | |
| 6,700.00 | 6,496.25 | 6,124.23 | 6,054.55 | 35.12 | 28.10 | 129.66 | 1,165.46 | -133.64 | 2,769.93 | 2,712.34 | 57.59 | 48.094 | | |
| 6,800.00 | 6,587.15 | 6,210.92 | 6,140.09 | 35.59 | 28.50 | 114.12 | 1,179.30 | -135.87 | 2,808.98 | 2,750.57 | 58.41 | 48.094 | | |
| 6,900.00 | 6,671.83 | 6,307.92 | 6,220.19 | 36.03 | 28.95 | 104.36 | 1,192.27 | -137.95 | 2,846.35 | 2,787.12 | 59.24 | 48.051 | | |
| 7,000.00 | 6,748.21 | 6,365.73 | 6,292.86 | 36.41 | 29.22 | 97.72 | 1,204.03 | -139.85 | 2,881.77 | 2,821.89 | 59.88 | 48.129 | | |
| 7,100.00 | 6,814.41 | 6,430.04 | 6,356.33 | 36.76 | 29.52 | 92.88 | 1,214.30 | -141.50 | 2,915.07 | 2,854.50 | 60.57 | 48.130 | | |
| 7,200.00 | 6,868.79 | 6,483.43 | 6,409.01 | 37.07 | 29.77 | 89.17 | 1,222.83 | -142.88 | 2,946.18 | 2,884.91 | 61.27 | 48.084 | | |
| 7,300.00 | 6,910.01 | 6,524.59 | 6,449.63 | 37.39 | 29.96 | 86.20 | 1,229.40 | -143.94 | 2,975.03 | 2,913.01 | 62.02 | 47.966 | | |
| 7,400.00 | 6,937.07 | 6,552.50 | 6,477.18 | 37.76 | 30.09 | 83.74 | 1,233.86 | -144.65 | 3,001.51 | 2,938.67 | 62.85 | 47.758 | | |
| 7,500.00 | 6,949.29 | 7,655.78 | 7,139.72 | 38.27 | 37.41 | 93.57 | 1,317.63 | -853.71 | 3,018.32 | 2,944.76 | 73.56 | 41.031 | | |
| 7,600.00 | 6,949.75 | 7,755.73 | 7,139.29 | 39.02 | 38.80 | 93.61 | 1,314.17 | -953.60 | 3,015.63 | 2,939.48 | 76.16 | 39.598 | | |
| 7,700.00 | 6,949.37 | 7,855.69 | 7,138.85 | 40.05 | 40.35 | 93.61 | 1,310.71 | -1,053.50 | 3,012.77 | 2,933.70 | 79.08 | 38.100 | | |
| 7,800.00 | 6,948.99 | 7,955.65 | 7,138.42 | 41.35 | 42.03 | 93.62 | 1,307.25 | -1,153.39 | 3,009.91 | 2,927.63 | 82.29 | 36.578 | | |
| 7,900.00 | 6,948.61 | 8,055.61 | 7,137.99 | 42.86 | 43.83 | 93.62 | 1,303.79 | -1,253.29 | 3,007.05 | 2,921.30 | 85.76 | 35.066 | | |
| 8,000.00 | 6,948.23 | 8,155.57 | 7,137.55 | 44.53 | 45.74 | 93.62 | 1,300.33 | -1,353.19 | 3,004.19 | 2,914.74 | 89.45 | 33.584 | | |
| 8,100.00 | 6,947.85 | 8,255.53 | 7,137.12 | 46.34 | 47.74 | 93.62 | 1,296.87 | -1,453.09 | 3,001.33 | 2,907.98 | 93.35 | 32.152 | | |
| 8,200.00 | 6,947.47 | 8,355.48 | 7,136.68 | 48.26 | 49.82 | 93.63 | 1,293.41 | -1,552.99 | 2,998.47 | 2,901.05 | 97.42 | 30.777 | | |
| 8,300.00 | 6,947.09 | 8,455.44 | 7,136.25 | 50.28 | 51.98 | 93.63 | 1,289.96 | -1,652.89 | 2,995.61 | 2,893.96 | 101.66 | 29.468 | | |
| 8,400.00 | 6,946.72 | 8,555.40 | 7,135.82 | 52.39 | 54.20 | 93.63 | 1,286.50 | -1,752.78 | 2,992.75 | 2,886.73 | 106.02 | 28.227 | | |
| 8,500.00 | 6,946.34 | 8,655.36 | 7,135.38 | 54.56 | 56.48 | 93.63 | 1,283.04 | -1,852.68 | 2,989.89 | 2,879.38 | 110.51 | 27.055 | | |
| 8,600.00 | 6,945.96 | 8,755.32 | 7,134.95 | 56.80 | 58.80 | 93.64 | 1,279.58 | -1,952.58 | 2,987.03 | 2,871.93 | 115.11 | 25.950 | | |
| 8,700.00 | 6,945.58 | 8,855.28 | 7,134.52 | 59.10 | 61.18 | 93.64 | 1,276.12 | -2,052.48 | 2,984.17 | 2,864.38 | 119.80 | 24.910 | | |
| 8,800.00 | 6,945.20 | 8,955.24 | 7,134.08 | 61.44 | 63.59 | 93.64 | 1,272.66 | -2,152.38 | 2,981.31 | 2,856.75 | 124.57 | 23.933 | | |
| 8,900.00 | 6,944.82 | 9,055.20 | 7,133.65 | 63.83 | 66.03 | 93.64 | 1,269.20 | -2,252.27 | 2,978.46 | 2,849.04 | 129.42 | 23.014 | | |
| 9,000.00 | 6,944.44 | 9,155.16 | 7,133.22 | 66.25 | 68.51 | 93.65 | 1,265.74 | -2,352.17 | 2,975.60 | 2,841.26 | 134.33 | 22.151 | | |
| 9,100.00 | 6,944.06 | 9,255.12 | 7,132.78 | 68.71 | 71.01 | 93.65 | 1,262.28 | -2,452.07 | 2,972.74 | 2,833.43 | 139.31 | 21.340 | | |
| 9,200.00 | 6,943.68 | 9,355.07 | 7,132.35 | 71.20 | 73.54 | 93.65 | 1,258.83 | -2,551.97 | 2,969.88 | 2,825.54 | 144.33 | 20.577 | | |
| 9,300.00 | 6,943.30 | 9,455.03 | 7,131.91 | 73.72 | 76.09 | 93.65 | 1,255.37 | -2,651.87 | 2,967.02 | 2,817.61 | 149.41 | 19.859 | | |
| 9,400.00 | 6,942.92 | 9,554.99 | 7,131.48 | 76.26 | 78.66 | 93.65 | 1,251.91 | -2,751.77 | 2,964.16 | 2,809.63 | 154.53 | 19.182 | | |
| 9,500.00 | 6,942.54 | 9,654.95 | 7,131.05 | 78.82 | 81.25 | 93.66 | 1,248.45 | -2,851.66 | 2,961.30 | 2,801.61 | 159.68 | 18.545 | | |
| 9,600.00 | 6,942.16 | 9,754.91 | 7,130.61 | 81.40 | 83.86 | 93.66 | 1,244.99 | -2,951.56 | 2,958.44 | 2,793.56 | 164.88 | 17.943 | | |
| 9,700.00 | 6,941.78 | 9,854.87 | 7,130.18 | 84.00 | 86.48 | 93.66 | 1,241.53 | -3,051.46 | 2,955.58 | 2,785.48 | 170.10 | 17.376 | | |
| 9,800.00 | 6,941.40 | 9,954.83 | 7,129.75 | 86.62 | 89.12 | 93.66 | 1,238.07 | -3,151.36 | 2,952.72 | 2,777.36 | 175.35 | 16.839 | | |
| 9,900.00 | 6,941.03 | 10,054.79 | 7,129.31 | 89.25 | 91.77 | 93.67 | 1,234.61 | -3,251.26 | 2,949.86 | 2,769.22 | 180.63 | 16.331 | | |
| 10,000.00 | 6,940.65 | 10,154.75 | 7,128.88 | 91.90 | 94.43 | 93.67 | 1,231.15 | -3,351.16 | 2,947.00 | 2,761.06 | 185.94 | 15.849 | | |
| 10,100.00 | 6,940.27 | 10,254.71 | 7,128.45 | 94.56 | 97.10 | 93.67 | 1,227.69 | -3,451.05 | 2,944.14 | 2,752.87 | 191.27 | 15.393 | | |
| 10,200.00 | 6,939.89 | 10,354.66 | 7,128.01 | 97.23 | 99.78 | 93.67 | 1,224.24 | -3,550.95 | 2,941.28 | 2,744.67 | 196.61 | 14.960 | | |
| 10,300.00 | 6,939.51 | 10,454.62 | 7,127.58 | 99.91 | 102.47 | 93.68 | 1,220.78 | -3,650.85 | 2,938.42 | 2,736.44 | 201.98 | 14.548 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 4N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,554.58 | 7,127.15 | 102.60 | 105.17 | 93.68 | 1,217.32 | -3,750.75 | 2,935.56 | 2,728.20 | 207.36 | 14.157 | | |
| 10,500.00 | 6,938.75 | 10,654.54 | 7,126.71 | 105.30 | 107.87 | 93.68 | 1,213.86 | -3,850.65 | 2,932.70 | 2,719.94 | 212.76 | 13.784 | | |
| 10,600.00 | 6,938.37 | 10,754.50 | 7,126.28 | 108.00 | 110.58 | 93.69 | 1,210.40 | -3,950.54 | 2,929.84 | 2,711.66 | 218.18 | 13.429 | | |
| 10,700.00 | 6,937.99 | 10,854.46 | 7,125.84 | 110.72 | 113.30 | 93.69 | 1,206.94 | -4,050.44 | 2,926.98 | 2,703.38 | 223.61 | 13.090 | | |
| 10,800.00 | 6,937.61 | 10,954.42 | 7,125.41 | 113.44 | 116.03 | 93.69 | 1,203.48 | -4,150.34 | 2,924.12 | 2,695.07 | 229.05 | 12.766 | | |
| 10,900.00 | 6,937.23 | 11,054.38 | 7,124.98 | 116.17 | 118.76 | 93.69 | 1,200.02 | -4,250.24 | 2,921.26 | 2,686.76 | 234.50 | 12.457 | | |
| 11,000.00 | 6,936.85 | 11,154.34 | 7,124.54 | 118.90 | 121.50 | 93.70 | 1,196.56 | -4,350.14 | 2,918.40 | 2,678.44 | 239.97 | 12.162 | | |
| 11,100.00 | 6,936.47 | 11,254.30 | 7,124.11 | 121.64 | 124.24 | 93.70 | 1,193.11 | -4,450.04 | 2,915.54 | 2,670.10 | 245.44 | 11.879 | | |
| 11,200.00 | 6,936.09 | 11,354.25 | 7,123.68 | 124.39 | 126.99 | 93.70 | 1,189.65 | -4,549.93 | 2,912.68 | 2,661.76 | 250.92 | 11.608 | | |
| 11,300.00 | 6,935.71 | 11,454.21 | 7,123.24 | 127.14 | 129.74 | 93.70 | 1,186.19 | -4,649.83 | 2,909.82 | 2,653.41 | 256.42 | 11.348 | | |
| 11,400.00 | 6,935.34 | 11,554.17 | 7,122.81 | 129.90 | 132.49 | 93.71 | 1,182.73 | -4,749.73 | 2,906.96 | 2,645.04 | 261.92 | 11.099 | | |
| 11,500.00 | 6,934.96 | 11,654.13 | 7,122.38 | 132.66 | 135.25 | 93.71 | 1,179.27 | -4,849.63 | 2,904.10 | 2,636.67 | 267.43 | 10.859 | | |
| 11,600.00 | 6,934.58 | 11,754.09 | 7,121.94 | 135.42 | 138.01 | 93.71 | 1,175.81 | -4,949.53 | 2,901.25 | 2,628.30 | 272.95 | 10.629 | | |
| 11,700.00 | 6,934.20 | 11,854.05 | 7,121.51 | 138.19 | 140.78 | 93.71 | 1,172.35 | -5,049.42 | 2,898.39 | 2,619.91 | 278.47 | 10.408 | | |
| 11,800.00 | 6,933.82 | 11,954.01 | 7,121.07 | 140.96 | 143.55 | 93.72 | 1,168.89 | -5,149.32 | 2,895.53 | 2,611.52 | 284.00 | 10.195 | | |
| 11,900.00 | 6,933.44 | 12,053.97 | 7,120.64 | 143.74 | 146.32 | 93.72 | 1,165.43 | -5,249.22 | 2,892.67 | 2,603.13 | 289.54 | 9.991 | | |
| 12,000.00 | 6,933.06 | 12,153.93 | 7,120.21 | 146.51 | 149.09 | 93.72 | 1,161.97 | -5,349.12 | 2,889.81 | 2,594.72 | 295.08 | 9.793 | | |
| 12,100.00 | 6,932.68 | 12,253.89 | 7,119.77 | 149.30 | 151.87 | 93.72 | 1,158.52 | -5,449.02 | 2,886.95 | 2,586.31 | 300.63 | 9.603 | | |
| 12,200.00 | 6,932.30 | 12,353.85 | 7,119.34 | 152.08 | 154.65 | 93.73 | 1,155.06 | -5,548.92 | 2,884.09 | 2,577.90 | 306.19 | 9.419 | | |
| 12,300.00 | 6,931.92 | 12,453.80 | 7,118.91 | 154.87 | 157.43 | 93.73 | 1,151.60 | -5,648.81 | 2,881.23 | 2,569.48 | 311.75 | 9.242 | | |
| 12,400.00 | 6,931.54 | 12,553.76 | 7,118.47 | 157.66 | 160.22 | 93.73 | 1,148.14 | -5,748.71 | 2,878.37 | 2,561.06 | 317.31 | 9.071 | | |
| 12,500.00 | 6,931.16 | 12,653.72 | 7,118.04 | 160.45 | 163.00 | 93.73 | 1,144.68 | -5,848.61 | 2,875.51 | 2,552.63 | 322.88 | 8.906 | | |
| 12,600.00 | 6,930.78 | 12,753.68 | 7,117.61 | 163.24 | 165.79 | 93.74 | 1,141.22 | -5,948.51 | 2,872.65 | 2,544.20 | 328.45 | 8.746 | | |
| 12,700.00 | 6,930.40 | 12,853.64 | 7,117.17 | 166.04 | 168.58 | 93.74 | 1,137.76 | -6,048.41 | 2,869.79 | 2,535.76 | 334.03 | 8.591 | | |
| 12,800.00 | 6,930.03 | 12,953.60 | 7,116.74 | 168.84 | 171.38 | 93.74 | 1,134.30 | -6,148.31 | 2,866.93 | 2,527.32 | 339.61 | 8.442 | | |
| 12,900.00 | 6,929.65 | 13,053.56 | 7,116.31 | 171.64 | 174.17 | 93.74 | 1,130.84 | -6,248.20 | 2,864.07 | 2,518.88 | 345.19 | 8.297 | | |
| 13,000.00 | 6,929.27 | 13,153.52 | 7,115.87 | 174.44 | 176.97 | 93.75 | 1,127.39 | -6,348.10 | 2,861.21 | 2,510.43 | 350.78 | 8.157 | | |
| 13,100.00 | 6,928.89 | 13,253.48 | 7,115.44 | 177.24 | 179.76 | 93.75 | 1,123.93 | -6,448.00 | 2,858.35 | 2,501.98 | 356.37 | 8.021 | | |
| 13,200.00 | 6,928.51 | 13,353.44 | 7,115.00 | 180.05 | 182.56 | 93.75 | 1,120.47 | -6,547.90 | 2,855.49 | 2,493.53 | 361.96 | 7.889 | | |
| 13,300.00 | 6,928.13 | 13,453.39 | 7,114.57 | 182.86 | 185.36 | 93.76 | 1,117.01 | -6,647.80 | 2,852.63 | 2,485.07 | 367.56 | 7.761 | | |
| 13,400.00 | 6,927.75 | 13,553.35 | 7,114.14 | 185.67 | 188.17 | 93.76 | 1,113.55 | -6,747.69 | 2,849.77 | 2,476.61 | 373.16 | 7.637 | | |
| 13,500.00 | 6,927.37 | 13,653.31 | 7,113.70 | 188.48 | 190.97 | 93.76 | 1,110.09 | -6,847.59 | 2,846.91 | 2,468.15 | 378.76 | 7.516 | | |
| 13,600.00 | 6,926.99 | 13,753.27 | 7,113.27 | 191.29 | 193.77 | 93.76 | 1,106.63 | -6,947.49 | 2,844.06 | 2,459.69 | 384.37 | 7.399 | | |
| 13,700.00 | 6,926.61 | 13,853.23 | 7,112.84 | 194.10 | 196.58 | 93.77 | 1,103.17 | -7,047.39 | 2,841.20 | 2,451.22 | 389.97 | 7.286 | | |
| 13,800.00 | 6,926.23 | 13,953.19 | 7,112.40 | 196.92 | 199.39 | 93.77 | 1,099.71 | -7,147.29 | 2,838.34 | 2,442.75 | 395.58 | 7.175 | | |
| 13,900.00 | 6,925.85 | 14,053.15 | 7,111.97 | 199.73 | 202.20 | 93.77 | 1,096.25 | -7,247.19 | 2,835.48 | 2,434.28 | 401.20 | 7.068 | | |
| 14,000.00 | 6,925.47 | 14,153.11 | 7,111.54 | 202.55 | 205.00 | 93.77 | 1,092.80 | -7,347.08 | 2,832.62 | 2,425.81 | 406.81 | 6.963 | | |
| 14,100.00 | 6,925.09 | 14,253.07 | 7,111.10 | 205.37 | 207.81 | 93.78 | 1,089.34 | -7,446.98 | 2,829.76 | 2,417.33 | 412.43 | 6.861 | | |
| 14,200.00 | 6,924.71 | 14,353.03 | 7,110.67 | 208.19 | 210.63 | 93.78 | 1,085.88 | -7,546.88 | 2,826.90 | 2,408.85 | 418.05 | 6.762 | | |
| 14,300.00 | 6,924.34 | 14,452.98 | 7,110.23 | 211.01 | 213.44 | 93.78 | 1,082.42 | -7,646.78 | 2,824.04 | 2,400.37 | 423.67 | 6.666 | | |
| 14,400.00 | 6,923.96 | 14,552.94 | 7,109.80 | 213.83 | 216.25 | 93.78 | 1,078.96 | -7,746.68 | 2,821.18 | 2,391.89 | 429.29 | 6.572 | | |
| 14,500.00 | 6,923.58 | 14,652.90 | 7,109.37 | 216.65 | 219.07 | 93.79 | 1,075.50 | -7,846.57 | 2,818.32 | 2,383.41 | 434.91 | 6.480 | | |
| 14,600.00 | 6,923.20 | 14,752.86 | 7,108.93 | 219.48 | 221.88 | 93.79 | 1,072.04 | -7,946.47 | 2,815.46 | 2,374.92 | 440.54 | 6.391 | | |
| 14,700.00 | 6,922.82 | 14,852.82 | 7,108.50 | 222.30 | 224.70 | 93.79 | 1,068.58 | -8,046.37 | 2,812.60 | 2,366.44 | 446.17 | 6.304 | | |
| 14,800.00 | 6,922.44 | 14,952.78 | 7,108.07 | 225.13 | 227.51 | 93.80 | 1,065.12 | -8,146.27 | 2,809.74 | 2,357.95 | 451.79 | 6.219 | | |
| 14,896.74 | 6,922.07 | 14,969.16 | 7,108.00 | 227.86 | 227.97 | 93.80 | 1,064.56 | -8,162.64 | 2,808.13 | 2,353.19 | 454.94 | 6.173 | | |
| 14,900.00 | 6,922.06 | 14,969.16 | 7,108.00 | 227.95 | 227.97 | 93.80 | 1,064.56 | -8,162.64 | 2,808.13 | 2,353.11 | 455.02 | 6.171 | | |
| 14,915.55 | 6,922.00 | 14,969.16 | 7,108.00 | 228.39 | 227.97 | 93.80 | 1,064.56 | -8,162.64 | 2,808.19 | 2,352.79 | 455.40 | 6.166 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 5N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.48 | 200.01 | 1.67 | 200.02 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.48 | 200.01 | 1.67 | 200.02 | 193.45 | 6.57 | 30.446 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.48 | 200.01 | 1.67 | 200.02 | 193.34 | 6.67 | 29.966 | CC, ES | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.14 | 200.01 | 1.67 | 201.76 | 194.87 | 6.89 | 29.298 | | |
| 400.00 | 399.84 | 400.89 | 399.89 | 3.59 | 3.60 | 175.25 | 200.01 | 1.67 | 206.97 | 199.78 | 7.20 | 28.758 | | |
| 500.00 | 499.45 | 506.80 | 505.77 | 3.79 | 3.81 | 175.12 | 198.45 | 0.44 | 214.17 | 206.57 | 7.61 | 28.156 | | |
| 600.00 | 598.70 | 606.86 | 605.76 | 4.03 | 4.04 | 174.74 | 195.30 | -2.04 | 223.17 | 215.10 | 8.08 | 27.637 | | |
| 700.00 | 697.47 | 706.07 | 704.89 | 4.31 | 4.30 | 174.46 | 192.17 | -4.50 | 235.62 | 227.01 | 8.61 | 27.363 | | |
| 800.00 | 795.62 | 804.80 | 803.53 | 4.64 | 4.58 | 174.29 | 189.06 | -6.95 | 251.51 | 242.31 | 9.20 | 27.326 | | |
| 900.00 | 893.06 | 902.91 | 901.56 | 5.00 | 4.89 | 174.19 | 185.96 | -9.39 | 270.82 | 260.98 | 9.84 | 27.509 | | |
| 1,000.00 | 989.78 | 1,000.41 | 998.99 | 5.39 | 5.21 | 174.19 | 182.89 | -11.81 | 293.02 | 282.49 | 10.52 | 27.841 | | |
| 1,100.00 | 1,086.42 | 1,102.16 | 1,096.34 | 5.81 | 5.56 | 174.21 | 179.82 | -14.22 | 315.56 | 304.32 | 11.24 | 28.069 | | |
| 1,200.00 | 1,183.06 | 1,204.73 | 1,193.69 | 6.25 | 5.93 | 174.23 | 176.74 | -16.64 | 338.10 | 326.10 | 11.99 | 28.193 | | |
| 1,300.00 | 1,279.69 | 1,307.31 | 1,291.03 | 6.71 | 6.31 | 174.24 | 173.67 | -19.06 | 360.64 | 347.87 | 12.77 | 28.249 | | |
| 1,400.00 | 1,376.33 | 1,409.88 | 1,388.38 | 7.17 | 6.69 | 174.25 | 170.60 | -21.48 | 383.17 | 369.61 | 13.56 | 28.257 | | |
| 1,500.00 | 1,472.97 | 1,487.55 | 1,485.73 | 7.65 | 6.99 | 174.26 | 167.53 | -23.89 | 405.71 | 391.44 | 14.27 | 28.421 | | |
| 1,600.00 | 1,569.61 | 1,584.97 | 1,583.08 | 8.13 | 7.38 | 174.28 | 164.45 | -26.31 | 428.25 | 413.17 | 15.08 | 28.402 | | |
| 1,700.00 | 1,666.24 | 1,682.40 | 1,680.43 | 8.62 | 7.76 | 174.28 | 161.38 | -28.73 | 450.79 | 434.90 | 15.89 | 28.364 | | |
| 1,800.00 | 1,762.88 | 1,779.83 | 1,777.78 | 9.12 | 8.15 | 174.29 | 158.31 | -31.15 | 473.33 | 456.61 | 16.72 | 28.313 | | |
| 1,900.00 | 1,859.52 | 1,877.25 | 1,875.13 | 9.62 | 8.55 | 174.30 | 155.24 | -33.57 | 495.87 | 478.32 | 17.55 | 28.253 | | |
| 2,000.00 | 1,956.16 | 1,974.68 | 1,972.47 | 10.13 | 8.95 | 174.31 | 152.16 | -35.98 | 518.41 | 500.02 | 18.39 | 28.187 | | |
| 2,100.00 | 2,052.79 | 2,072.11 | 2,069.82 | 10.64 | 9.35 | 174.31 | 149.09 | -38.40 | 540.95 | 521.71 | 19.24 | 28.118 | | |
| 2,200.00 | 2,149.43 | 2,169.53 | 2,167.17 | 11.15 | 9.75 | 174.32 | 146.02 | -40.82 | 563.49 | 543.39 | 20.09 | 28.047 | | |
| 2,300.00 | 2,246.07 | 2,266.96 | 2,264.52 | 11.66 | 10.16 | 174.33 | 142.94 | -43.24 | 586.02 | 565.08 | 20.95 | 27.975 | | |
| 2,400.00 | 2,342.71 | 2,364.39 | 2,361.87 | 12.18 | 10.57 | 174.33 | 139.87 | -45.66 | 608.56 | 586.75 | 21.81 | 27.903 | | |
| 2,500.00 | 2,439.34 | 2,461.81 | 2,459.22 | 12.70 | 10.98 | 174.34 | 136.80 | -48.07 | 631.10 | 608.43 | 22.68 | 27.832 | | |
| 2,600.00 | 2,535.98 | 2,559.24 | 2,556.56 | 13.22 | 11.39 | 174.34 | 133.73 | -50.49 | 653.64 | 630.10 | 23.54 | 27.762 | | |
| 2,700.00 | 2,632.62 | 2,656.67 | 2,653.91 | 13.75 | 11.80 | 174.34 | 130.65 | -52.91 | 676.18 | 651.76 | 24.42 | 27.693 | | |
| 2,800.00 | 2,729.26 | 2,754.10 | 2,751.26 | 14.27 | 12.22 | 174.35 | 127.58 | -55.33 | 698.72 | 673.43 | 25.29 | 27.627 | | |
| 2,900.00 | 2,825.89 | 2,851.52 | 2,848.61 | 14.80 | 12.63 | 174.35 | 124.51 | -57.75 | 721.26 | 695.09 | 26.17 | 27.562 | | |
| 3,000.00 | 2,922.53 | 2,948.95 | 2,945.96 | 15.32 | 13.05 | 174.35 | 121.44 | -60.16 | 743.80 | 716.75 | 27.05 | 27.500 | | |
| 3,100.00 | 3,019.17 | 3,046.38 | 3,043.31 | 15.85 | 13.46 | 174.36 | 118.36 | -62.58 | 766.34 | 738.41 | 27.93 | 27.439 | | |
| 3,200.00 | 3,115.81 | 3,143.80 | 3,140.65 | 16.38 | 13.88 | 174.36 | 115.29 | -65.00 | 788.88 | 760.06 | 28.81 | 27.380 | | |
| 3,300.00 | 3,212.44 | 3,241.23 | 3,238.00 | 16.91 | 14.30 | 174.36 | 112.22 | -67.42 | 811.41 | 781.72 | 29.70 | 27.323 | | |
| 3,400.00 | 3,309.08 | 3,338.66 | 3,335.35 | 17.44 | 14.72 | 174.37 | 109.15 | -69.84 | 833.95 | 803.37 | 30.58 | 27.268 | | |
| 3,500.00 | 3,405.72 | 3,436.08 | 3,432.70 | 17.97 | 15.14 | 174.37 | 106.07 | -72.25 | 856.49 | 825.02 | 31.47 | 27.215 | | |
| 3,600.00 | 3,502.36 | 3,533.51 | 3,530.05 | 18.50 | 15.56 | 174.37 | 103.00 | -74.67 | 879.03 | 846.67 | 32.36 | 27.164 | | |
| 3,700.00 | 3,598.99 | 3,630.94 | 3,627.40 | 19.03 | 15.99 | 174.37 | 99.93 | -77.09 | 901.57 | 868.32 | 33.25 | 27.115 | | |
| 3,800.00 | 3,695.63 | 3,728.36 | 3,724.74 | 19.57 | 16.41 | 174.38 | 96.86 | -79.51 | 924.11 | 889.97 | 34.14 | 27.067 | | |
| 3,900.00 | 3,792.27 | 3,825.79 | 3,822.09 | 20.10 | 16.83 | 174.38 | 93.78 | -81.93 | 946.65 | 911.62 | 35.03 | 27.021 | | |
| 4,000.00 | 3,888.91 | 3,923.22 | 3,919.44 | 20.63 | 17.25 | 174.38 | 90.71 | -84.34 | 969.19 | 933.26 | 35.93 | 26.977 | | |
| 4,100.00 | 3,985.54 | 4,020.64 | 4,016.79 | 21.17 | 17.68 | 174.38 | 87.64 | -86.76 | 991.73 | 954.91 | 36.82 | 26.934 | | |
| 4,200.00 | 4,082.18 | 4,118.07 | 4,114.14 | 21.70 | 18.10 | 174.38 | 84.56 | -89.18 | 1,014.27 | 976.55 | 37.72 | 26.893 | | |
| 4,300.00 | 4,178.82 | 4,215.50 | 4,211.49 | 22.24 | 18.53 | 174.38 | 81.49 | -91.60 | 1,036.80 | 998.19 | 38.61 | 26.853 | | |
| 4,400.00 | 4,275.46 | 4,312.92 | 4,308.83 | 22.77 | 18.95 | 174.39 | 78.42 | -94.01 | 1,059.34 | 1,019.84 | 39.51 | 26.814 | | |
| 4,500.00 | 4,372.09 | 4,410.35 | 4,406.18 | 23.31 | 19.38 | 174.39 | 75.35 | -96.43 | 1,081.88 | 1,041.48 | 40.40 | 26.777 | | |
| 4,600.00 | 4,468.73 | 4,507.78 | 4,503.53 | 23.84 | 19.80 | 174.39 | 72.27 | -98.85 | 1,104.42 | 1,063.12 | 41.30 | 26.740 | | |
| 4,700.00 | 4,565.37 | 4,605.21 | 4,600.88 | 24.38 | 20.23 | 174.39 | 69.20 | -101.27 | 1,126.96 | 1,084.76 | 42.20 | 26.705 | | |
| 4,800.00 | 4,662.01 | 4,702.63 | 4,698.23 | 24.91 | 20.65 | 174.39 | 66.13 | -103.69 | 1,149.50 | 1,106.40 | 43.10 | 26.672 | | |
| 4,900.00 | 4,758.64 | 4,800.06 | 4,795.58 | 25.45 | 21.08 | 174.39 | 63.06 | -106.10 | 1,172.04 | 1,128.04 | 44.00 | 26.639 | | |
| 5,000.00 | 4,855.28 | 4,902.51 | 4,892.92 | 25.99 | 21.53 | 174.40 | 59.98 | -108.52 | 1,194.58 | 1,149.66 | 44.92 | 26.594 | | |
| 5,100.00 | 4,951.92 | 5,005.09 | 4,990.27 | 26.53 | 21.97 | 174.40 | 56.91 | -110.94 | 1,217.12 | 1,171.28 | 45.84 | 26.550 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 5N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,107.66 | 5,087.62 | 27.06 | 22.42 | 174.40 | 53.84 | -113.36 | 1,239.66 | 1,192.89 | 46.76 | 26.508 | | |
| 5,300.00 | 5,145.19 | 5,189.77 | 5,184.97 | 27.60 | 22.78 | 174.40 | 50.77 | -115.78 | 1,262.19 | 1,214.60 | 47.60 | 26.517 | | |
| 5,400.00 | 5,241.83 | 5,287.19 | 5,282.32 | 28.14 | 23.21 | 174.40 | 47.69 | -118.19 | 1,284.73 | 1,236.23 | 48.50 | 26.489 | | |
| 5,500.00 | 5,338.47 | 5,384.62 | 5,379.67 | 28.67 | 23.64 | 174.40 | 44.62 | -120.61 | 1,307.27 | 1,257.87 | 49.40 | 26.462 | | |
| 5,600.00 | 5,435.11 | 5,482.05 | 5,477.01 | 29.21 | 24.07 | 174.40 | 41.55 | -123.03 | 1,329.81 | 1,279.51 | 50.30 | 26.436 | | |
| 5,700.00 | 5,531.74 | 5,579.47 | 5,574.36 | 29.75 | 24.49 | 174.40 | 38.48 | -125.45 | 1,352.35 | 1,301.14 | 51.21 | 26.410 | | |
| 5,800.00 | 5,628.38 | 5,676.90 | 5,671.71 | 30.29 | 24.92 | 174.40 | 35.40 | -127.87 | 1,374.89 | 1,322.78 | 52.11 | 26.385 | | |
| 5,900.00 | 5,725.02 | 5,774.33 | 5,769.06 | 30.83 | 25.35 | 174.40 | 32.33 | -130.28 | 1,397.43 | 1,344.42 | 53.01 | 26.361 | | |
| 6,000.00 | 5,821.66 | 5,871.75 | 5,866.41 | 31.37 | 25.78 | 174.41 | 29.26 | -132.70 | 1,419.97 | 1,366.05 | 53.92 | 26.337 | | |
| 6,100.00 | 5,918.29 | 5,969.18 | 5,963.76 | 31.90 | 26.20 | 174.41 | 26.18 | -135.12 | 1,442.51 | 1,387.69 | 54.82 | 26.314 | | |
| 6,200.00 | 6,014.93 | 6,066.61 | 6,061.11 | 32.44 | 26.63 | 174.41 | 23.11 | -137.54 | 1,465.05 | 1,409.32 | 55.72 | 26.292 | | |
| 6,300.00 | 6,111.57 | 6,164.04 | 6,158.45 | 32.98 | 27.06 | 174.41 | 20.04 | -139.96 | 1,487.59 | 1,430.96 | 56.63 | 26.270 | | |
| 6,400.00 | 6,208.21 | 6,261.46 | 6,255.80 | 33.52 | 27.49 | 174.41 | 16.97 | -142.37 | 1,510.12 | 1,452.59 | 57.53 | 26.249 | | |
| 6,500.00 | 6,304.84 | 6,358.89 | 6,353.15 | 34.06 | 27.92 | 174.41 | 13.89 | -144.79 | 1,532.66 | 1,474.23 | 58.44 | 26.228 | | |
| 6,600.00 | 6,401.37 | 6,456.43 | 6,450.61 | 34.60 | 28.35 | 156.69 | 10.82 | -147.31 | 1,555.19 | 1,495.85 | 59.34 | 26.208 | | |
| 6,700.00 | 6,496.25 | 6,555.76 | 6,549.08 | 35.12 | 28.78 | 132.42 | 7.65 | -159.20 | 1,577.39 | 1,517.14 | 60.26 | 26.179 | | |
| 6,800.00 | 6,587.15 | 6,656.44 | 6,645.76 | 35.59 | 29.22 | 118.33 | 4.45 | -186.72 | 1,598.71 | 1,537.55 | 61.16 | 26.140 | | |
| 6,900.00 | 6,671.83 | 6,758.66 | 6,738.23 | 36.03 | 29.65 | 109.73 | 1.28 | -229.90 | 1,618.63 | 1,556.57 | 62.06 | 26.083 | | |
| 7,000.00 | 6,748.21 | 6,862.52 | 6,823.90 | 36.41 | 30.09 | 104.07 | -1.77 | -288.34 | 1,636.64 | 1,573.65 | 62.99 | 25.983 | | |
| 7,100.00 | 6,814.41 | 6,968.06 | 6,900.05 | 36.76 | 30.59 | 100.14 | -4.61 | -361.19 | 1,652.30 | 1,588.28 | 64.02 | 25.807 | | |
| 7,200.00 | 6,868.79 | 7,075.16 | 6,963.96 | 37.07 | 31.22 | 97.38 | -7.14 | -446.94 | 1,665.21 | 1,599.94 | 65.27 | 25.513 | | |
| 7,300.00 | 6,910.01 | 7,183.59 | 7,013.12 | 37.39 | 32.03 | 95.49 | -9.28 | -543.40 | 1,675.02 | 1,608.20 | 66.82 | 25.067 | | |
| 7,400.00 | 6,937.07 | 7,292.95 | 7,045.42 | 37.76 | 33.06 | 94.32 | -10.93 | -647.74 | 1,681.49 | 1,612.74 | 68.75 | 24.458 | | |
| 7,500.00 | 6,949.29 | 7,402.79 | 7,059.44 | 38.27 | 34.30 | 93.78 | -12.04 | -756.53 | 1,684.44 | 1,613.39 | 71.05 | 23.708 | | |
| 7,600.00 | 6,949.75 | 7,505.44 | 7,059.68 | 39.02 | 35.64 | 93.74 | -12.67 | -859.17 | 1,684.62 | 1,611.04 | 73.58 | 22.896 | | |
| 7,700.00 | 6,949.37 | 7,605.44 | 7,059.24 | 40.05 | 37.11 | 93.74 | -13.27 | -959.17 | 1,684.62 | 1,608.21 | 76.41 | 22.047 | | |
| 7,800.00 | 6,948.99 | 7,705.44 | 7,058.81 | 41.35 | 38.74 | 93.74 | -13.87 | -1,059.17 | 1,684.61 | 1,605.06 | 79.55 | 21.176 | | |
| 7,900.00 | 6,948.61 | 7,805.44 | 7,058.38 | 42.86 | 40.51 | 93.74 | -14.47 | -1,159.16 | 1,684.61 | 1,601.64 | 82.97 | 20.304 | | |
| 8,000.00 | 6,948.23 | 7,905.44 | 7,057.94 | 44.53 | 42.39 | 93.73 | -15.07 | -1,259.16 | 1,684.61 | 1,597.98 | 86.63 | 19.447 | | |
| 8,100.00 | 6,947.85 | 8,005.44 | 7,057.51 | 46.34 | 44.38 | 93.73 | -15.67 | -1,359.16 | 1,684.60 | 1,594.10 | 90.50 | 18.615 | | |
| 8,200.00 | 6,947.47 | 8,105.44 | 7,057.07 | 48.26 | 46.46 | 93.73 | -16.27 | -1,459.16 | 1,684.60 | 1,590.05 | 94.55 | 17.816 | | |
| 8,300.00 | 6,947.09 | 8,205.44 | 7,056.64 | 50.28 | 48.62 | 93.73 | -16.86 | -1,559.15 | 1,684.59 | 1,585.82 | 98.77 | 17.055 | | |
| 8,400.00 | 6,946.72 | 8,305.44 | 7,056.21 | 52.39 | 50.85 | 93.73 | -17.46 | -1,659.15 | 1,684.59 | 1,581.46 | 103.13 | 16.334 | | |
| 8,500.00 | 6,946.34 | 8,405.44 | 7,055.77 | 54.56 | 53.14 | 93.72 | -18.06 | -1,759.15 | 1,684.59 | 1,576.97 | 107.62 | 15.653 | | |
| 8,600.00 | 6,945.96 | 8,505.44 | 7,055.34 | 56.80 | 55.49 | 93.72 | -18.66 | -1,859.14 | 1,684.58 | 1,572.36 | 112.22 | 15.012 | | |
| 8,700.00 | 6,945.58 | 8,605.44 | 7,054.90 | 59.10 | 57.87 | 93.72 | -19.26 | -1,959.14 | 1,684.58 | 1,567.67 | 116.91 | 14.409 | | |
| 8,800.00 | 6,945.20 | 8,705.44 | 7,054.47 | 61.44 | 60.30 | 93.72 | -19.86 | -2,059.14 | 1,684.58 | 1,562.88 | 121.70 | 13.842 | | |
| 8,900.00 | 6,944.82 | 8,805.44 | 7,054.04 | 63.83 | 62.77 | 93.72 | -20.46 | -2,159.14 | 1,684.57 | 1,558.02 | 126.56 | 13.311 | | |
| 9,000.00 | 6,944.44 | 8,905.44 | 7,053.60 | 66.25 | 65.27 | 93.72 | -21.06 | -2,259.13 | 1,684.57 | 1,553.09 | 131.48 | 12.812 | | |
| 9,100.00 | 6,944.06 | 9,005.44 | 7,053.17 | 68.71 | 67.80 | 93.71 | -21.66 | -2,359.13 | 1,684.57 | 1,548.10 | 136.47 | 12.344 | | |
| 9,200.00 | 6,943.68 | 9,105.44 | 7,052.73 | 71.20 | 70.35 | 93.71 | -22.25 | -2,459.13 | 1,684.56 | 1,543.05 | 141.51 | 11.904 | | |
| 9,300.00 | 6,943.30 | 9,205.44 | 7,052.30 | 73.72 | 72.92 | 93.71 | -22.85 | -2,559.13 | 1,684.56 | 1,537.96 | 146.60 | 11.491 | | |
| 9,400.00 | 6,942.92 | 9,305.44 | 7,051.87 | 76.26 | 75.52 | 93.71 | -23.45 | -2,659.12 | 1,684.55 | 1,532.82 | 151.73 | 11.102 | | |
| 9,500.00 | 6,942.54 | 9,405.44 | 7,051.43 | 78.82 | 78.13 | 93.71 | -24.05 | -2,759.12 | 1,684.55 | 1,527.64 | 156.91 | 10.736 | | |
| 9,600.00 | 6,942.16 | 9,505.44 | 7,051.00 | 81.40 | 80.76 | 93.70 | -24.65 | -2,859.12 | 1,684.55 | 1,522.43 | 162.12 | 10.391 | | |
| 9,700.00 | 6,941.78 | 9,605.44 | 7,050.56 | 84.00 | 83.41 | 93.70 | -25.25 | -2,959.11 | 1,684.54 | 1,517.18 | 167.36 | 10.065 | | |
| 9,800.00 | 6,941.40 | 9,705.44 | 7,050.13 | 86.62 | 86.07 | 93.70 | -25.85 | -3,059.11 | 1,684.54 | 1,511.91 | 172.63 | 9.758 | | |
| 9,900.00 | 6,941.03 | 9,805.44 | 7,049.70 | 89.25 | 88.74 | 93.70 | -26.45 | -3,159.11 | 1,684.54 | 1,506.61 | 177.93 | 9.467 | | |
| 10,000.00 | 6,940.65 | 9,905.44 | 7,049.26 | 91.90 | 91.42 | 93.70 | -27.04 | -3,259.11 | 1,684.53 | 1,501.28 | 183.25 | 9.192 | | |
| 10,100.00 | 6,940.27 | 10,005.44 | 7,048.83 | 94.56 | 94.11 | 93.70 | -27.64 | -3,359.10 | 1,684.53 | 1,495.93 | 188.60 | 8.932 | | |
| 10,200.00 | 6,939.89 | 10,105.44 | 7,048.39 | 97.23 | 96.82 | 93.69 | -28.24 | -3,459.10 | 1,684.53 | 1,490.56 | 193.96 | 8.685 | | |
| 10,300.00 | 6,939.51 | 10,205.44 | 7,047.96 | 99.91 | 99.53 | 93.69 | -28.84 | -3,559.10 | 1,684.52 | 1,485.18 | 199.35 | 8.450 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 5N-16B-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,305.44 | 7,047.53 | 102.60 | 102.25 | 93.69 | -29.44 | -3,659.10 | 1,684.52 | 1,479.77 | 204.75 | 8.227 | | |
| 10,500.00 | 6,938.75 | 10,405.44 | 7,047.09 | 105.30 | 104.98 | 93.69 | -30.04 | -3,759.09 | 1,684.51 | 1,474.35 | 210.17 | 8.015 | | |
| 10,600.00 | 6,938.37 | 10,505.44 | 7,046.66 | 108.00 | 107.71 | 93.69 | -30.64 | -3,859.09 | 1,684.51 | 1,468.91 | 215.60 | 7.813 | | |
| 10,700.00 | 6,937.99 | 10,605.44 | 7,046.22 | 110.72 | 110.45 | 93.68 | -31.24 | -3,959.09 | 1,684.51 | 1,463.46 | 221.05 | 7.621 | | |
| 10,800.00 | 6,937.61 | 10,705.44 | 7,045.79 | 113.44 | 113.20 | 93.68 | -31.83 | -4,059.08 | 1,684.50 | 1,458.00 | 226.51 | 7.437 | | |
| 10,900.00 | 6,937.23 | 10,805.44 | 7,045.36 | 116.17 | 115.95 | 93.68 | -32.43 | -4,159.08 | 1,684.50 | 1,452.52 | 231.98 | 7.261 | | |
| 11,000.00 | 6,936.85 | 10,905.44 | 7,044.92 | 118.90 | 118.70 | 93.68 | -33.03 | -4,259.08 | 1,684.50 | 1,447.04 | 237.46 | 7.094 | | |
| 11,100.00 | 6,936.47 | 11,005.44 | 7,044.49 | 121.64 | 121.46 | 93.68 | -33.63 | -4,359.08 | 1,684.49 | 1,441.54 | 242.95 | 6.933 | | |
| 11,200.00 | 6,936.09 | 11,105.44 | 7,044.05 | 124.39 | 124.23 | 93.67 | -34.23 | -4,459.07 | 1,684.49 | 1,436.03 | 248.45 | 6.780 | | |
| 11,300.00 | 6,935.71 | 11,205.44 | 7,043.62 | 127.14 | 127.00 | 93.67 | -34.83 | -4,559.07 | 1,684.49 | 1,430.52 | 253.97 | 6.633 | | |
| 11,400.00 | 6,935.34 | 11,305.44 | 7,043.19 | 129.90 | 129.77 | 93.67 | -35.43 | -4,659.07 | 1,684.48 | 1,425.00 | 259.49 | 6.492 | | |
| 11,500.00 | 6,934.96 | 11,405.44 | 7,042.75 | 132.66 | 132.55 | 93.67 | -36.03 | -4,759.07 | 1,684.48 | 1,419.46 | 265.01 | 6.356 | | |
| 11,600.00 | 6,934.58 | 11,505.44 | 7,042.32 | 135.42 | 135.33 | 93.67 | -36.62 | -4,859.06 | 1,684.47 | 1,413.93 | 270.55 | 6.226 | | |
| 11,700.00 | 6,934.20 | 11,605.44 | 7,041.88 | 138.19 | 138.12 | 93.67 | -37.22 | -4,959.06 | 1,684.47 | 1,408.38 | 276.09 | 6.101 | | |
| 11,800.00 | 6,933.82 | 11,705.44 | 7,041.45 | 140.96 | 140.90 | 93.66 | -37.82 | -5,059.06 | 1,684.47 | 1,402.83 | 281.64 | 5.981 | | |
| 11,900.00 | 6,933.44 | 11,805.44 | 7,041.02 | 143.74 | 143.69 | 93.66 | -38.42 | -5,159.05 | 1,684.46 | 1,397.27 | 287.20 | 5.865 | | |
| 12,000.00 | 6,933.06 | 11,905.44 | 7,040.58 | 146.51 | 146.48 | 93.66 | -39.02 | -5,259.05 | 1,684.46 | 1,391.70 | 292.76 | 5.754 | | |
| 12,100.00 | 6,932.68 | 12,005.44 | 7,040.15 | 149.30 | 149.28 | 93.66 | -39.62 | -5,359.05 | 1,684.46 | 1,386.13 | 298.32 | 5.646 | | |
| 12,200.00 | 6,932.30 | 12,105.44 | 7,039.71 | 152.08 | 152.08 | 93.66 | -40.22 | -5,459.05 | 1,684.45 | 1,380.56 | 303.89 | 5.543 | | |
| 12,300.00 | 6,931.92 | 12,205.44 | 7,039.28 | 154.87 | 154.88 | 93.65 | -40.82 | -5,559.04 | 1,684.45 | 1,374.98 | 309.47 | 5.443 | | |
| 12,400.00 | 6,931.54 | 12,305.44 | 7,038.85 | 157.66 | 157.68 | 93.65 | -41.41 | -5,659.04 | 1,684.45 | 1,369.39 | 315.05 | 5.347 | | |
| 12,500.00 | 6,931.16 | 12,405.44 | 7,038.41 | 160.45 | 160.48 | 93.65 | -42.01 | -5,759.04 | 1,684.44 | 1,363.80 | 320.64 | 5.253 | | |
| 12,600.00 | 6,930.78 | 12,505.44 | 7,037.98 | 163.24 | 163.29 | 93.65 | -42.61 | -5,859.03 | 1,684.44 | 1,358.21 | 326.23 | 5.163 | | |
| 12,700.00 | 6,930.40 | 12,605.44 | 7,037.54 | 166.04 | 166.09 | 93.65 | -43.21 | -5,959.03 | 1,684.43 | 1,352.61 | 331.82 | 5.076 | | |
| 12,800.00 | 6,930.03 | 12,705.44 | 7,037.11 | 168.84 | 168.90 | 93.65 | -43.81 | -6,059.03 | 1,684.43 | 1,347.01 | 337.42 | 4.992 | | |
| 12,900.00 | 6,929.65 | 12,805.44 | 7,036.68 | 171.64 | 171.71 | 93.64 | -44.41 | -6,159.03 | 1,684.43 | 1,341.41 | 343.02 | 4.911 | | |
| 13,000.00 | 6,929.27 | 12,905.44 | 7,036.24 | 174.44 | 174.53 | 93.64 | -45.01 | -6,259.02 | 1,684.42 | 1,335.80 | 348.63 | 4.832 | | |
| 13,100.00 | 6,928.89 | 13,005.44 | 7,035.81 | 177.24 | 177.34 | 93.64 | -45.61 | -6,359.02 | 1,684.42 | 1,330.19 | 354.23 | 4.755 | | |
| 13,200.00 | 6,928.51 | 13,105.44 | 7,035.37 | 180.05 | 180.16 | 93.64 | -46.20 | -6,459.02 | 1,684.42 | 1,324.57 | 359.85 | 4.681 | | |
| 13,300.00 | 6,928.13 | 13,205.44 | 7,034.94 | 182.86 | 182.97 | 93.64 | -46.80 | -6,559.02 | 1,684.41 | 1,318.95 | 365.46 | 4.609 | | |
| 13,400.00 | 6,927.75 | 13,305.44 | 7,034.51 | 185.67 | 185.79 | 93.63 | -47.40 | -6,659.01 | 1,684.41 | 1,313.33 | 371.08 | 4.539 | | |
| 13,500.00 | 6,927.37 | 13,405.44 | 7,034.07 | 188.48 | 188.61 | 93.63 | -48.00 | -6,759.01 | 1,684.41 | 1,307.71 | 376.70 | 4.472 | | |
| 13,600.00 | 6,926.99 | 13,505.44 | 7,033.64 | 191.29 | 191.43 | 93.63 | -48.60 | -6,859.01 | 1,684.40 | 1,302.08 | 382.32 | 4.406 | | |
| 13,700.00 | 6,926.61 | 13,605.44 | 7,033.20 | 194.10 | 194.25 | 93.63 | -49.20 | -6,959.00 | 1,684.40 | 1,296.46 | 387.94 | 4.342 | | |
| 13,800.00 | 6,926.23 | 13,705.44 | 7,032.77 | 196.92 | 197.07 | 93.63 | -49.80 | -7,059.00 | 1,684.40 | 1,290.82 | 393.57 | 4.280 | | |
| 13,900.00 | 6,925.85 | 13,805.44 | 7,032.34 | 199.73 | 199.90 | 93.62 | -50.40 | -7,159.00 | 1,684.39 | 1,285.19 | 399.20 | 4.219 | | |
| 14,000.00 | 6,925.47 | 13,905.44 | 7,031.90 | 202.55 | 202.72 | 93.62 | -50.99 | -7,259.00 | 1,684.39 | 1,279.56 | 404.83 | 4.161 | | |
| 14,100.00 | 6,925.09 | 14,005.44 | 7,031.47 | 205.37 | 205.55 | 93.62 | -51.59 | -7,358.99 | 1,684.38 | 1,273.92 | 410.47 | 4.104 | | |
| 14,200.00 | 6,924.71 | 14,105.44 | 7,031.03 | 208.19 | 208.37 | 93.62 | -52.19 | -7,458.99 | 1,684.38 | 1,268.28 | 416.10 | 4.048 | | |
| 14,300.00 | 6,924.34 | 14,205.44 | 7,030.60 | 211.01 | 211.20 | 93.62 | -52.79 | -7,558.99 | 1,684.38 | 1,262.64 | 421.74 | 3.994 | | |
| 14,400.00 | 6,923.96 | 14,305.44 | 7,030.17 | 213.83 | 214.03 | 93.62 | -53.39 | -7,658.99 | 1,684.37 | 1,257.00 | 427.38 | 3.941 | | |
| 14,500.00 | 6,923.58 | 14,405.44 | 7,029.73 | 216.65 | 216.86 | 93.61 | -53.99 | -7,758.98 | 1,684.37 | 1,251.35 | 433.02 | 3.890 | | |
| 14,600.00 | 6,923.20 | 14,505.44 | 7,029.30 | 219.48 | 219.69 | 93.61 | -54.59 | -7,858.98 | 1,684.37 | 1,245.70 | 438.66 | 3.840 | | |
| 14,700.00 | 6,922.82 | 14,605.44 | 7,028.86 | 222.30 | 222.52 | 93.61 | -55.19 | -7,958.98 | 1,684.36 | 1,240.06 | 444.31 | 3.791 | | |
| 14,800.00 | 6,922.44 | 14,705.44 | 7,028.43 | 225.13 | 225.35 | 93.61 | -55.78 | -8,058.97 | 1,684.36 | 1,234.41 | 449.95 | 3.743 | | |
| 14,900.00 | 6,922.06 | 14,805.44 | 7,028.00 | 227.95 | 228.18 | 93.61 | -56.38 | -8,158.97 | 1,684.36 | 1,228.75 | 455.60 | 3.697 | | |
| 14,906.35 | 6,922.04 | 14,811.79 | 7,027.97 | 228.13 | 228.36 | 93.61 | -56.42 | -8,165.32 | 1,684.36 | 1,228.39 | 455.96 | 3.694 SF | | |
| 14,915.55 | 6,922.00 | 14,805.04 | 7,028.00 | 228.39 | 228.17 | 93.61 | -56.38 | -8,158.57 | 1,684.43 | 1,228.49 | 455.94 | 3.694 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 5N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1.00 | 0.00 | 3.28 | 3.28 | 0.43 | 220.04 | 1.67 | 220.05 | | | | | |
| 100.00 | 100.00 | 101.00 | 100.00 | 3.28 | 3.28 | 0.43 | 220.04 | 1.67 | 220.05 | 213.48 | 6.57 | 33.495 | | |
| 200.00 | 200.00 | 201.00 | 200.00 | 3.34 | 3.34 | 0.43 | 220.04 | 1.67 | 220.05 | 213.38 | 6.67 | 32.967 CC, ES | | |
| 300.00 | 299.98 | 300.98 | 299.98 | 3.44 | 3.45 | 175.09 | 220.04 | 1.67 | 221.79 | 214.90 | 6.89 | 32.207 | | |
| 400.00 | 399.84 | 400.84 | 399.84 | 3.59 | 3.60 | 175.19 | 220.04 | 1.67 | 227.00 | 219.81 | 7.20 | 31.541 | | |
| 500.00 | 499.45 | 500.45 | 499.45 | 3.79 | 3.81 | 175.36 | 220.04 | 1.67 | 235.69 | 228.09 | 7.60 | 31.014 | | |
| 600.00 | 598.70 | 600.22 | 598.77 | 4.03 | 4.04 | 175.19 | 220.04 | 0.07 | 247.82 | 239.74 | 8.07 | 30.692 | | |
| 700.00 | 697.47 | 701.45 | 697.51 | 4.31 | 4.30 | 174.91 | 220.04 | -2.40 | 263.38 | 254.76 | 8.62 | 30.563 | | |
| 800.00 | 795.62 | 803.27 | 795.65 | 4.64 | 4.60 | 174.71 | 220.04 | -4.85 | 282.37 | 273.15 | 9.22 | 30.622 | | |
| 900.00 | 893.06 | 905.82 | 893.07 | 5.00 | 4.92 | 174.59 | 220.04 | -7.29 | 304.77 | 294.89 | 9.88 | 30.857 | | |
| 1,000.00 | 989.78 | 1,009.06 | 989.80 | 5.39 | 5.26 | 174.55 | 220.04 | -9.70 | 330.03 | 319.45 | 10.58 | 31.206 | | |
| 1,100.00 | 1,086.42 | 1,087.60 | 1,086.44 | 5.81 | 5.53 | 174.54 | 220.04 | -12.12 | 355.63 | 344.42 | 11.21 | 31.724 | | |
| 1,200.00 | 1,183.06 | 1,184.27 | 1,183.07 | 6.25 | 5.88 | 174.53 | 220.04 | -14.53 | 381.23 | 369.29 | 11.93 | 31.945 | | |
| 1,300.00 | 1,279.69 | 1,280.94 | 1,279.71 | 6.71 | 6.23 | 174.53 | 220.04 | -16.95 | 406.83 | 394.15 | 12.68 | 32.083 | | |
| 1,400.00 | 1,376.33 | 1,377.61 | 1,376.35 | 7.17 | 6.60 | 174.52 | 220.04 | -19.37 | 432.43 | 418.98 | 13.45 | 32.159 | | |
| 1,500.00 | 1,472.97 | 1,474.27 | 1,472.99 | 7.65 | 6.97 | 174.52 | 220.04 | -21.78 | 458.03 | 443.80 | 14.23 | 32.191 | | |
| 1,600.00 | 1,569.61 | 1,570.94 | 1,569.62 | 8.13 | 7.34 | 174.51 | 220.04 | -24.20 | 483.63 | 468.60 | 15.02 | 32.190 | | |
| 1,700.00 | 1,666.24 | 1,667.61 | 1,666.26 | 8.62 | 7.72 | 174.51 | 220.04 | -26.61 | 509.23 | 493.40 | 15.83 | 32.165 | | |
| 1,800.00 | 1,762.88 | 1,764.28 | 1,762.90 | 9.12 | 8.11 | 174.50 | 220.04 | -29.03 | 534.83 | 518.18 | 16.65 | 32.125 | | |
| 1,900.00 | 1,859.52 | 1,860.94 | 1,859.53 | 9.62 | 8.50 | 174.50 | 220.04 | -31.44 | 560.43 | 542.96 | 17.47 | 32.072 | | |
| 2,000.00 | 1,956.16 | 1,957.61 | 1,956.17 | 10.13 | 8.89 | 174.50 | 220.04 | -33.86 | 586.03 | 567.72 | 18.31 | 32.011 | | |
| 2,100.00 | 2,052.79 | 2,054.28 | 2,052.81 | 10.64 | 9.29 | 174.49 | 220.04 | -36.27 | 611.63 | 592.48 | 19.15 | 31.945 | | |
| 2,200.00 | 2,149.43 | 2,150.95 | 2,149.45 | 11.15 | 9.69 | 174.49 | 220.04 | -38.69 | 637.23 | 617.24 | 19.99 | 31.876 | | |
| 2,300.00 | 2,246.07 | 2,247.61 | 2,246.08 | 11.66 | 10.09 | 174.49 | 220.04 | -41.10 | 662.83 | 641.99 | 20.84 | 31.805 | | |
| 2,400.00 | 2,342.71 | 2,344.28 | 2,342.72 | 12.18 | 10.49 | 174.48 | 220.04 | -43.52 | 688.43 | 666.74 | 21.69 | 31.733 | | |
| 2,500.00 | 2,439.34 | 2,440.95 | 2,439.36 | 12.70 | 10.89 | 174.48 | 220.04 | -45.94 | 714.03 | 691.48 | 22.55 | 31.661 | | |
| 2,600.00 | 2,535.98 | 2,537.62 | 2,536.00 | 13.22 | 11.30 | 174.48 | 220.04 | -48.35 | 739.63 | 716.22 | 23.41 | 31.590 | | |
| 2,700.00 | 2,632.62 | 2,634.29 | 2,632.63 | 13.75 | 11.71 | 174.48 | 220.04 | -50.77 | 765.23 | 740.96 | 24.28 | 31.520 | | |
| 2,800.00 | 2,729.26 | 2,730.95 | 2,729.27 | 14.27 | 12.11 | 174.48 | 220.04 | -53.18 | 790.83 | 765.69 | 25.14 | 31.452 | | |
| 2,900.00 | 2,825.89 | 2,827.62 | 2,825.91 | 14.80 | 12.52 | 174.47 | 220.04 | -55.60 | 816.43 | 790.42 | 26.01 | 31.385 | | |
| 3,000.00 | 2,922.53 | 2,924.29 | 2,922.55 | 15.32 | 12.93 | 174.47 | 220.04 | -58.01 | 842.03 | 815.15 | 26.89 | 31.319 | | |
| 3,100.00 | 3,019.17 | 3,020.96 | 3,019.18 | 15.85 | 13.35 | 174.47 | 220.04 | -60.43 | 867.64 | 839.88 | 27.76 | 31.256 | | |
| 3,200.00 | 3,115.81 | 3,117.62 | 3,115.82 | 16.38 | 13.76 | 174.47 | 220.04 | -62.84 | 893.24 | 864.60 | 28.63 | 31.195 | | |
| 3,300.00 | 3,212.44 | 3,214.29 | 3,212.46 | 16.91 | 14.17 | 174.47 | 220.04 | -65.26 | 918.84 | 889.32 | 29.51 | 31.135 | | |
| 3,400.00 | 3,309.08 | 3,310.96 | 3,309.10 | 17.44 | 14.58 | 174.47 | 220.04 | -67.67 | 944.44 | 914.05 | 30.39 | 31.077 | | |
| 3,500.00 | 3,405.72 | 3,407.63 | 3,405.73 | 17.97 | 15.00 | 174.47 | 220.04 | -70.09 | 970.04 | 938.77 | 31.27 | 31.021 | | |
| 3,600.00 | 3,502.36 | 3,504.29 | 3,502.37 | 18.50 | 15.41 | 174.47 | 220.04 | -72.51 | 995.64 | 963.49 | 32.15 | 30.967 | | |
| 3,700.00 | 3,598.99 | 3,600.96 | 3,599.01 | 19.03 | 15.83 | 174.46 | 220.04 | -74.92 | 1,021.24 | 988.20 | 33.03 | 30.915 | | |
| 3,800.00 | 3,695.63 | 3,702.37 | 3,695.64 | 19.57 | 16.27 | 174.46 | 220.04 | -77.34 | 1,046.84 | 1,012.90 | 33.94 | 30.846 | | |
| 3,900.00 | 3,792.27 | 3,805.70 | 3,792.28 | 20.10 | 16.71 | 174.46 | 220.04 | -79.75 | 1,072.44 | 1,037.59 | 34.85 | 30.772 | | |
| 4,000.00 | 3,888.91 | 3,909.04 | 3,888.92 | 20.63 | 17.16 | 174.46 | 220.04 | -82.17 | 1,098.04 | 1,062.27 | 35.76 | 30.702 | | |
| 4,100.00 | 3,985.54 | 3,987.63 | 3,985.56 | 21.17 | 17.50 | 174.46 | 220.04 | -84.58 | 1,123.64 | 1,087.07 | 36.57 | 30.723 | | |
| 4,200.00 | 4,082.18 | 4,084.30 | 4,082.19 | 21.70 | 17.92 | 174.46 | 220.04 | -87.00 | 1,149.24 | 1,111.78 | 37.46 | 30.679 | | |
| 4,300.00 | 4,178.82 | 4,180.97 | 4,178.83 | 22.24 | 18.33 | 174.46 | 220.04 | -89.41 | 1,174.84 | 1,136.49 | 38.35 | 30.636 | | |
| 4,400.00 | 4,275.46 | 4,277.63 | 4,275.47 | 22.77 | 18.75 | 174.46 | 220.04 | -91.83 | 1,200.44 | 1,161.20 | 39.24 | 30.595 | | |
| 4,500.00 | 4,372.09 | 4,374.30 | 4,372.11 | 23.31 | 19.17 | 174.46 | 220.04 | -94.24 | 1,226.04 | 1,185.92 | 40.13 | 30.555 | | |
| 4,600.00 | 4,468.73 | 4,470.97 | 4,468.74 | 23.84 | 19.59 | 174.46 | 220.04 | -96.66 | 1,251.64 | 1,210.63 | 41.02 | 30.516 | | |
| 4,700.00 | 4,565.37 | 4,567.64 | 4,565.38 | 24.38 | 20.01 | 174.46 | 220.04 | -99.07 | 1,277.24 | 1,235.34 | 41.91 | 30.479 | | |
| 4,800.00 | 4,662.01 | 4,664.30 | 4,662.02 | 24.91 | 20.43 | 174.46 | 220.04 | -101.49 | 1,302.84 | 1,260.05 | 42.80 | 30.442 | | |
| 4,900.00 | 4,758.64 | 4,760.97 | 4,758.66 | 25.45 | 20.85 | 174.46 | 220.04 | -103.91 | 1,328.44 | 1,284.75 | 43.69 | 30.407 | | |
| 5,000.00 | 4,855.28 | 4,857.64 | 4,855.29 | 25.99 | 21.27 | 174.45 | 220.04 | -106.32 | 1,354.04 | 1,309.46 | 44.58 | 30.373 | | |
| 5,100.00 | 4,951.92 | 4,954.31 | 4,951.93 | 26.53 | 21.69 | 174.45 | 220.04 | -108.74 | 1,379.64 | 1,334.17 | 45.47 | 30.340 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 5N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,050.97 | 5,048.57 | 27.06 | 22.11 | 174.45 | 220.04 | -111.15 | 1,405.24 | 1,358.88 | 46.37 | 30.308 | | |
| 5,300.00 | 5,145.19 | 5,147.64 | 5,145.21 | 27.60 | 22.53 | 174.45 | 220.04 | -113.57 | 1,430.85 | 1,383.59 | 47.26 | 30.276 | | |
| 5,400.00 | 5,241.83 | 5,244.31 | 5,241.84 | 28.14 | 22.95 | 174.45 | 220.04 | -115.98 | 1,456.45 | 1,408.29 | 48.15 | 30.246 | | |
| 5,500.00 | 5,338.47 | 5,340.98 | 5,338.48 | 28.67 | 23.37 | 174.45 | 220.04 | -118.40 | 1,482.05 | 1,433.00 | 49.05 | 30.217 | | |
| 5,600.00 | 5,435.11 | 5,437.64 | 5,435.12 | 29.21 | 23.80 | 174.45 | 220.04 | -120.81 | 1,507.65 | 1,457.70 | 49.94 | 30.188 | | |
| 5,700.00 | 5,531.74 | 5,534.31 | 5,531.75 | 29.75 | 24.22 | 174.45 | 220.04 | -123.23 | 1,533.25 | 1,482.41 | 50.84 | 30.160 | | |
| 5,800.00 | 5,628.38 | 5,630.98 | 5,628.39 | 30.29 | 24.64 | 174.45 | 220.04 | -125.64 | 1,558.85 | 1,507.12 | 51.73 | 30.133 | | |
| 5,900.00 | 5,725.02 | 5,727.65 | 5,725.03 | 30.83 | 25.06 | 174.45 | 220.04 | -128.06 | 1,584.45 | 1,531.82 | 52.63 | 30.107 | | |
| 6,000.00 | 5,821.66 | 5,824.31 | 5,821.67 | 31.37 | 25.48 | 174.45 | 220.04 | -130.48 | 1,610.05 | 1,556.53 | 53.52 | 30.082 | | |
| 6,100.00 | 5,918.29 | 5,920.98 | 5,918.30 | 31.90 | 25.90 | 174.45 | 220.04 | -132.89 | 1,635.65 | 1,581.23 | 54.42 | 30.057 | | |
| 6,200.00 | 6,014.93 | 6,017.65 | 6,014.94 | 32.44 | 26.33 | 174.45 | 220.04 | -135.31 | 1,661.25 | 1,605.93 | 55.32 | 30.032 | | |
| 6,300.00 | 6,111.57 | 6,114.32 | 6,111.58 | 32.98 | 26.75 | 174.45 | 220.04 | -137.72 | 1,686.85 | 1,630.64 | 56.21 | 30.009 | | |
| 6,400.00 | 6,208.21 | 6,210.98 | 6,208.22 | 33.52 | 27.17 | 174.45 | 220.04 | -140.14 | 1,712.45 | 1,655.34 | 57.11 | 29.986 | | |
| 6,500.00 | 6,304.84 | 6,307.65 | 6,304.85 | 34.06 | 27.59 | 174.45 | 220.04 | -142.55 | 1,738.05 | 1,680.04 | 58.01 | 29.963 | | |
| 6,600.00 | 6,401.37 | 6,404.26 | 6,401.43 | 34.60 | 28.01 | 156.57 | 220.04 | -144.97 | 1,763.64 | 1,704.74 | 58.90 | 29.942 | | |
| 6,700.00 | 6,496.25 | 6,500.43 | 6,496.72 | 35.12 | 28.44 | 132.24 | 220.04 | -147.35 | 1,788.98 | 1,729.20 | 59.79 | 29.923 | | |
| 6,800.00 | 6,587.15 | 6,602.93 | 6,599.57 | 35.59 | 28.89 | 118.44 | 219.92 | -156.38 | 1,813.61 | 1,752.89 | 60.72 | 29.867 | | |
| 6,900.00 | 6,671.83 | 6,713.16 | 6,706.12 | 36.03 | 29.38 | 110.16 | 219.43 | -184.06 | 1,836.74 | 1,775.02 | 61.72 | 29.761 | | |
| 7,000.00 | 6,748.21 | 6,829.83 | 6,811.91 | 36.41 | 29.91 | 104.81 | 218.53 | -232.87 | 1,857.70 | 1,794.93 | 62.77 | 29.598 | | |
| 7,100.00 | 6,814.41 | 6,953.34 | 6,912.21 | 36.76 | 30.50 | 101.19 | 217.17 | -304.60 | 1,875.85 | 1,811.93 | 63.92 | 29.348 | | |
| 7,200.00 | 6,868.79 | 7,083.48 | 7,000.81 | 37.07 | 31.22 | 98.69 | 215.36 | -399.59 | 1,890.60 | 1,825.31 | 65.29 | 28.957 | | |
| 7,300.00 | 6,910.01 | 7,219.21 | 7,070.67 | 37.39 | 32.19 | 97.01 | 213.12 | -515.64 | 1,901.39 | 1,834.37 | 67.02 | 28.369 | | |
| 7,400.00 | 6,937.07 | 7,358.57 | 7,115.18 | 37.76 | 33.47 | 95.95 | 210.57 | -647.38 | 1,907.82 | 1,838.59 | 69.24 | 27.555 | | |
| 7,500.00 | 6,949.29 | 7,498.84 | 7,130.00 | 38.27 | 35.09 | 95.42 | 207.85 | -786.56 | 1,909.65 | 1,837.71 | 71.94 | 26.546 | | |
| 7,600.00 | 6,949.75 | 7,601.26 | 7,129.63 | 39.02 | 36.46 | 95.41 | 205.90 | -886.44 | 1,908.44 | 1,833.95 | 74.49 | 25.619 | | |
| 7,700.00 | 6,949.37 | 7,701.27 | 7,129.27 | 40.05 | 37.96 | 95.42 | 203.94 | -986.41 | 1,907.09 | 1,829.74 | 77.36 | 24.654 | | |
| 7,800.00 | 6,948.99 | 7,801.28 | 7,128.90 | 41.35 | 39.61 | 95.42 | 201.99 | -1,086.39 | 1,905.74 | 1,825.22 | 80.52 | 23.668 | | |
| 7,900.00 | 6,948.61 | 7,898.71 | 7,128.54 | 42.86 | 41.35 | 95.42 | 200.03 | -1,186.36 | 1,904.39 | 1,820.49 | 83.90 | 22.698 | | |
| 8,000.00 | 6,948.23 | 8,001.30 | 7,128.17 | 44.53 | 43.30 | 95.43 | 198.08 | -1,286.33 | 1,903.04 | 1,815.43 | 87.61 | 21.721 | | |
| 8,100.00 | 6,947.85 | 8,101.30 | 7,127.80 | 46.34 | 45.30 | 95.43 | 196.12 | -1,386.30 | 1,901.69 | 1,810.21 | 91.48 | 20.787 | | |
| 8,200.00 | 6,947.47 | 8,201.31 | 7,127.44 | 48.26 | 47.39 | 95.44 | 194.17 | -1,486.27 | 1,900.34 | 1,804.81 | 95.54 | 19.891 | | |
| 8,300.00 | 6,947.09 | 8,301.32 | 7,127.07 | 50.28 | 49.55 | 95.44 | 192.21 | -1,586.24 | 1,898.99 | 1,799.24 | 99.75 | 19.038 | | |
| 8,400.00 | 6,946.72 | 8,401.33 | 7,126.71 | 52.39 | 51.78 | 95.45 | 190.26 | -1,686.21 | 1,897.64 | 1,793.54 | 104.10 | 18.229 | | |
| 8,500.00 | 6,946.34 | 8,501.34 | 7,126.34 | 54.56 | 54.07 | 95.45 | 188.30 | -1,786.18 | 1,896.30 | 1,787.72 | 108.58 | 17.465 | | |
| 8,600.00 | 6,945.96 | 8,601.35 | 7,125.97 | 56.80 | 56.41 | 95.45 | 186.35 | -1,886.15 | 1,894.95 | 1,781.78 | 113.16 | 16.745 | | |
| 8,700.00 | 6,945.58 | 8,701.36 | 7,125.61 | 59.10 | 58.80 | 95.46 | 184.39 | -1,986.12 | 1,893.60 | 1,775.75 | 117.85 | 16.068 | | |
| 8,800.00 | 6,945.20 | 8,801.37 | 7,125.24 | 61.44 | 61.23 | 95.46 | 182.43 | -2,086.10 | 1,892.25 | 1,769.63 | 122.61 | 15.433 | | |
| 8,900.00 | 6,944.82 | 8,901.38 | 7,124.87 | 63.83 | 63.69 | 95.47 | 180.48 | -2,186.07 | 1,890.90 | 1,763.44 | 127.45 | 14.836 | | |
| 9,000.00 | 6,944.44 | 9,001.39 | 7,124.51 | 66.25 | 66.18 | 95.47 | 178.52 | -2,286.04 | 1,889.55 | 1,757.18 | 132.36 | 14.276 | | |
| 9,100.00 | 6,944.06 | 9,101.40 | 7,124.14 | 68.71 | 68.70 | 95.48 | 176.57 | -2,386.01 | 1,888.20 | 1,750.87 | 137.33 | 13.749 | | |
| 9,200.00 | 6,943.68 | 9,201.41 | 7,123.78 | 71.20 | 71.25 | 95.48 | 174.61 | -2,485.98 | 1,886.85 | 1,744.49 | 142.35 | 13.255 | | |
| 9,300.00 | 6,943.30 | 9,301.41 | 7,123.41 | 73.72 | 73.82 | 95.48 | 172.66 | -2,585.95 | 1,885.50 | 1,738.07 | 147.43 | 12.789 | | |
| 9,400.00 | 6,942.92 | 9,401.42 | 7,123.04 | 76.26 | 76.41 | 95.49 | 170.70 | -2,685.92 | 1,884.15 | 1,731.61 | 152.54 | 12.352 | | |
| 9,500.00 | 6,942.54 | 9,501.43 | 7,122.68 | 78.82 | 79.02 | 95.49 | 168.75 | -2,785.89 | 1,882.80 | 1,725.11 | 157.69 | 11.940 | | |
| 9,600.00 | 6,942.16 | 9,601.44 | 7,122.31 | 81.40 | 81.64 | 95.50 | 166.79 | -2,885.86 | 1,881.45 | 1,718.57 | 162.88 | 11.551 | | |
| 9,700.00 | 6,941.78 | 9,701.45 | 7,121.95 | 84.00 | 84.28 | 95.50 | 164.84 | -2,985.83 | 1,880.10 | 1,712.00 | 168.10 | 11.184 | | |
| 9,800.00 | 6,941.40 | 9,801.46 | 7,121.58 | 86.62 | 86.93 | 95.51 | 162.88 | -3,085.81 | 1,878.75 | 1,705.40 | 173.35 | 10.838 | | |
| 9,900.00 | 6,941.03 | 9,901.47 | 7,121.21 | 89.25 | 89.60 | 95.51 | 160.93 | -3,185.78 | 1,877.40 | 1,698.77 | 178.63 | 10.510 | | |
| 10,000.00 | 6,940.65 | 10,001.48 | 7,120.85 | 91.90 | 92.28 | 95.52 | 158.97 | -3,285.75 | 1,876.05 | 1,692.12 | 183.93 | 10.200 | | |
| 10,100.00 | 6,940.27 | 10,101.49 | 7,120.48 | 94.56 | 94.96 | 95.52 | 157.01 | -3,385.72 | 1,874.70 | 1,685.45 | 189.26 | 9.906 | | |
| 10,200.00 | 6,939.89 | 10,201.50 | 7,120.11 | 97.23 | 97.66 | 95.52 | 155.06 | -3,485.69 | 1,873.35 | 1,678.75 | 194.60 | 9.627 | | |
| 10,300.00 | 6,939.51 | 10,301.51 | 7,119.75 | 99.91 | 100.36 | 95.53 | 153.10 | -3,585.66 | 1,872.00 | 1,672.04 | 199.96 | 9.362 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 5N-16C-M - OH - PLAN #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IFR1 | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 10,401.52 | 7,119.38 | 102.60 | 103.08 | 95.53 | 151.15 | -3,685.63 | 1,870.65 | 1,665.31 | 205.35 | 9.110 | | |
| 10,500.00 | 6,938.75 | 10,501.53 | 7,119.02 | 105.30 | 105.80 | 95.54 | 149.19 | -3,785.60 | 1,869.31 | 1,658.56 | 210.74 | 8.870 | | |
| 10,600.00 | 6,938.37 | 10,598.47 | 7,118.65 | 108.00 | 108.44 | 95.54 | 147.24 | -3,885.57 | 1,867.96 | 1,651.89 | 216.07 | 8.645 | | |
| 10,700.00 | 6,937.99 | 10,701.54 | 7,118.28 | 110.72 | 111.26 | 95.55 | 145.28 | -3,985.54 | 1,866.61 | 1,645.03 | 221.58 | 8.424 | | |
| 10,800.00 | 6,937.61 | 10,801.55 | 7,117.92 | 113.44 | 114.00 | 95.55 | 143.33 | -4,085.52 | 1,865.26 | 1,638.24 | 227.02 | 8.216 | | |
| 10,900.00 | 6,937.23 | 10,898.44 | 7,117.55 | 116.17 | 116.66 | 95.56 | 141.37 | -4,185.49 | 1,863.91 | 1,631.53 | 232.38 | 8.021 | | |
| 11,000.00 | 6,936.85 | 11,001.57 | 7,117.19 | 118.90 | 119.50 | 95.56 | 139.42 | -4,285.46 | 1,862.56 | 1,624.63 | 237.93 | 7.828 | | |
| 11,100.00 | 6,936.47 | 11,101.58 | 7,116.82 | 121.64 | 122.25 | 95.56 | 137.46 | -4,385.43 | 1,861.21 | 1,617.81 | 243.40 | 7.647 | | |
| 11,200.00 | 6,936.09 | 11,201.59 | 7,116.45 | 124.39 | 125.01 | 95.57 | 135.51 | -4,485.40 | 1,859.86 | 1,610.98 | 248.88 | 7.473 | | |
| 11,300.00 | 6,935.71 | 11,301.60 | 7,116.09 | 127.14 | 127.77 | 95.57 | 133.55 | -4,585.37 | 1,858.51 | 1,604.14 | 254.37 | 7.306 | | |
| 11,400.00 | 6,935.34 | 11,401.61 | 7,115.72 | 129.90 | 130.54 | 95.58 | 131.59 | -4,685.34 | 1,857.16 | 1,597.30 | 259.87 | 7.147 | | |
| 11,500.00 | 6,934.96 | 11,498.38 | 7,115.36 | 132.66 | 133.22 | 95.58 | 129.64 | -4,785.31 | 1,855.81 | 1,590.53 | 265.28 | 6.996 | | |
| 11,600.00 | 6,934.58 | 11,601.63 | 7,114.99 | 135.42 | 136.09 | 95.59 | 127.68 | -4,885.28 | 1,854.46 | 1,583.58 | 270.88 | 6.846 | | |
| 11,700.00 | 6,934.20 | 11,701.64 | 7,114.62 | 138.19 | 138.87 | 95.59 | 125.73 | -4,985.25 | 1,853.11 | 1,576.71 | 276.40 | 6.704 | | |
| 11,800.00 | 6,933.82 | 11,801.65 | 7,114.26 | 140.96 | 141.65 | 95.60 | 123.77 | -5,085.23 | 1,851.76 | 1,569.83 | 281.93 | 6.568 | | |
| 11,900.00 | 6,933.44 | 11,901.65 | 7,113.89 | 143.74 | 144.43 | 95.60 | 121.82 | -5,185.20 | 1,850.41 | 1,562.95 | 287.46 | 6.437 | | |
| 12,000.00 | 6,933.06 | 12,001.66 | 7,113.52 | 146.51 | 147.22 | 95.60 | 119.86 | -5,285.17 | 1,849.07 | 1,556.06 | 293.00 | 6.311 | | |
| 12,100.00 | 6,932.68 | 12,101.67 | 7,113.16 | 149.30 | 150.01 | 95.61 | 117.91 | -5,385.14 | 1,847.72 | 1,549.17 | 298.55 | 6.189 | | |
| 12,200.00 | 6,932.30 | 12,201.68 | 7,112.79 | 152.08 | 152.80 | 95.61 | 115.95 | -5,485.11 | 1,846.37 | 1,542.27 | 304.09 | 6.072 | | |
| 12,300.00 | 6,931.92 | 12,301.69 | 7,112.43 | 154.87 | 155.59 | 95.62 | 114.00 | -5,585.08 | 1,845.02 | 1,535.37 | 309.65 | 5.958 | | |
| 12,400.00 | 6,931.54 | 12,401.70 | 7,112.06 | 157.66 | 158.39 | 95.62 | 112.04 | -5,685.05 | 1,843.67 | 1,528.46 | 315.21 | 5.849 | | |
| 12,500.00 | 6,931.16 | 12,501.71 | 7,111.69 | 160.45 | 161.19 | 95.63 | 110.09 | -5,785.02 | 1,842.32 | 1,521.55 | 320.77 | 5.743 | | |
| 12,600.00 | 6,930.78 | 12,601.72 | 7,111.33 | 163.24 | 163.99 | 95.63 | 108.13 | -5,884.99 | 1,840.97 | 1,514.63 | 326.34 | 5.641 | | |
| 12,700.00 | 6,930.40 | 12,701.73 | 7,110.96 | 166.04 | 166.79 | 95.64 | 106.17 | -5,984.96 | 1,839.62 | 1,507.71 | 331.91 | 5.543 | | |
| 12,800.00 | 6,930.03 | 12,801.74 | 7,110.60 | 168.84 | 169.59 | 95.64 | 104.22 | -6,084.94 | 1,838.27 | 1,500.79 | 337.48 | 5.447 | | |
| 12,900.00 | 6,929.65 | 12,901.75 | 7,110.23 | 171.64 | 172.40 | 95.65 | 102.26 | -6,184.91 | 1,836.92 | 1,493.86 | 343.06 | 5.355 | | |
| 13,000.00 | 6,929.27 | 13,001.76 | 7,109.86 | 174.44 | 175.21 | 95.65 | 100.31 | -6,284.88 | 1,835.57 | 1,486.93 | 348.64 | 5.265 | | |
| 13,100.00 | 6,928.89 | 13,101.76 | 7,109.50 | 177.24 | 178.01 | 95.65 | 98.35 | -6,384.85 | 1,834.22 | 1,480.00 | 354.23 | 5.178 | | |
| 13,200.00 | 6,928.51 | 13,201.77 | 7,109.13 | 180.05 | 180.82 | 95.66 | 96.40 | -6,484.82 | 1,832.88 | 1,473.06 | 359.81 | 5.094 | | |
| 13,300.00 | 6,928.13 | 13,301.78 | 7,108.76 | 182.86 | 183.64 | 95.66 | 94.44 | -6,584.79 | 1,831.53 | 1,466.12 | 365.41 | 5.012 | | |
| 13,400.00 | 6,927.75 | 13,401.79 | 7,108.40 | 185.67 | 186.45 | 95.67 | 92.49 | -6,684.76 | 1,830.18 | 1,459.18 | 371.00 | 4.933 | | |
| 13,500.00 | 6,927.37 | 13,501.80 | 7,108.03 | 188.48 | 189.26 | 95.67 | 90.53 | -6,784.73 | 1,828.83 | 1,452.23 | 376.59 | 4.856 | | |
| 13,600.00 | 6,926.99 | 13,601.81 | 7,107.67 | 191.29 | 192.08 | 95.68 | 88.58 | -6,884.70 | 1,827.48 | 1,445.29 | 382.19 | 4.782 | | |
| 13,700.00 | 6,926.61 | 13,701.82 | 7,107.30 | 194.10 | 194.89 | 95.68 | 86.62 | -6,984.67 | 1,826.13 | 1,438.34 | 387.79 | 4.709 | | |
| 13,800.00 | 6,926.23 | 13,801.83 | 7,106.93 | 196.92 | 197.71 | 95.69 | 84.67 | -7,084.65 | 1,824.78 | 1,431.38 | 393.40 | 4.639 | | |
| 13,900.00 | 6,925.85 | 13,901.84 | 7,106.57 | 199.73 | 200.53 | 95.69 | 82.71 | -7,184.62 | 1,823.43 | 1,424.43 | 399.00 | 4.570 | | |
| 14,000.00 | 6,925.47 | 14,001.85 | 7,106.20 | 202.55 | 203.35 | 95.70 | 80.75 | -7,284.59 | 1,822.08 | 1,417.47 | 404.61 | 4.503 | | |
| 14,100.00 | 6,925.09 | 14,101.86 | 7,105.84 | 205.37 | 206.17 | 95.70 | 78.80 | -7,384.56 | 1,820.73 | 1,410.51 | 410.22 | 4.438 | | |
| 14,200.00 | 6,924.71 | 14,201.87 | 7,105.47 | 208.19 | 208.99 | 95.71 | 76.84 | -7,484.53 | 1,819.39 | 1,403.55 | 415.83 | 4.375 | | |
| 14,300.00 | 6,924.34 | 14,301.88 | 7,105.10 | 211.01 | 211.81 | 95.71 | 74.89 | -7,584.50 | 1,818.04 | 1,396.59 | 421.45 | 4.314 | | |
| 14,400.00 | 6,923.96 | 14,401.88 | 7,104.74 | 213.83 | 214.63 | 95.71 | 72.93 | -7,684.47 | 1,816.69 | 1,389.63 | 427.06 | 4.254 | | |
| 14,500.00 | 6,923.58 | 14,501.89 | 7,104.37 | 216.65 | 217.46 | 95.72 | 70.98 | -7,784.44 | 1,815.34 | 1,382.66 | 432.68 | 4.196 | | |
| 14,600.00 | 6,923.20 | 14,601.90 | 7,104.00 | 219.48 | 220.28 | 95.72 | 69.02 | -7,884.41 | 1,813.99 | 1,375.69 | 438.30 | 4.139 | | |
| 14,700.00 | 6,922.82 | 14,701.91 | 7,103.64 | 222.30 | 223.11 | 95.73 | 67.07 | -7,984.38 | 1,812.64 | 1,368.72 | 443.92 | 4.083 | | |
| 14,800.00 | 6,922.44 | 14,801.92 | 7,103.27 | 225.13 | 225.93 | 95.73 | 65.11 | -8,084.36 | 1,811.29 | 1,361.75 | 449.54 | 4.029 | | |
| 14,898.76 | 6,922.06 | 14,872.41 | 7,103.00 | 227.92 | 227.93 | 95.74 | 63.66 | -8,158.67 | 1,810.12 | 1,355.91 | 454.21 | 3.985 | | |
| 14,900.00 | 6,922.06 | 14,872.41 | 7,103.00 | 227.95 | 227.93 | 95.74 | 63.66 | -8,158.67 | 1,810.12 | 1,355.88 | 454.24 | 3.985 | | |
| 14,915.55 | 6,922.00 | 14,872.41 | 7,103.00 | 228.39 | 227.93 | 95.74 | 63.66 | -8,158.67 | 1,810.20 | 1,355.62 | 454.58 | 3.982 SF | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HOOD 41-20(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 60.00 | 3.28 | 3.28 | -114.27 | -4,055.62 | -8,993.20 | 9,865.56 | | | | | |
| 100.00 | 100.00 | 40.00 | 100.00 | 3.28 | 3.35 | -114.27 | -4,055.62 | -8,993.20 | 9,865.38 | 9,858.74 | 6.64 | 1,486.151 | | |
| 200.00 | 200.00 | 140.00 | 200.00 | 3.34 | 4.54 | -114.27 | -4,055.62 | -8,993.20 | 9,865.38 | 9,857.50 | 7.88 | 1,252.103 | | |
| 300.00 | 299.98 | 239.98 | 299.98 | 3.44 | 7.40 | 60.37 | -4,055.62 | -8,993.20 | 9,864.52 | 9,853.68 | 10.84 | 910.143 | | |
| 400.00 | 399.84 | 339.84 | 399.84 | 3.59 | 10.64 | 60.44 | -4,055.62 | -8,993.20 | 9,861.93 | 9,847.71 | 14.23 | 693.240 | | |
| 500.00 | 499.45 | 439.45 | 499.45 | 3.79 | 13.99 | 60.56 | -4,055.62 | -8,993.20 | 9,857.63 | 9,839.85 | 17.77 | 554.627 | | |
| 600.00 | 598.70 | 538.70 | 598.70 | 4.03 | 17.37 | 60.73 | -4,055.62 | -8,993.20 | 9,851.62 | 9,830.21 | 21.40 | 460.287 | | |
| 700.00 | 697.47 | 637.47 | 697.47 | 4.31 | 20.77 | 60.94 | -4,055.62 | -8,993.20 | 9,843.92 | 9,818.84 | 25.08 | 392.466 | | |
| 800.00 | 795.62 | 735.62 | 795.62 | 4.64 | 24.16 | 61.20 | -4,055.62 | -8,993.20 | 9,834.56 | 9,805.77 | 28.79 | 341.572 | | |
| 900.00 | 893.06 | 833.06 | 893.06 | 5.00 | 27.53 | 61.51 | -4,055.62 | -8,993.20 | 9,823.56 | 9,791.04 | 32.52 | 302.073 | | |
| 1,000.00 | 989.78 | 929.78 | 989.78 | 5.39 | 30.89 | 61.73 | -4,055.62 | -8,993.20 | 9,811.19 | 9,774.93 | 36.26 | 270.574 | | |
| 1,100.00 | 1,086.42 | 1,026.42 | 1,086.42 | 5.81 | 34.24 | 61.86 | -4,055.62 | -8,993.20 | 9,798.72 | 9,758.69 | 40.02 | 244.823 | | |
| 1,200.00 | 1,183.06 | 1,123.06 | 1,183.06 | 6.25 | 37.60 | 61.99 | -4,055.62 | -8,993.20 | 9,786.29 | 9,742.48 | 43.81 | 223.389 | | |
| 1,300.00 | 1,279.69 | 1,219.69 | 1,279.69 | 6.71 | 40.97 | 62.12 | -4,055.62 | -8,993.20 | 9,773.92 | 9,726.31 | 47.61 | 205.291 | | |
| 1,400.00 | 1,376.33 | 1,316.33 | 1,376.33 | 7.17 | 44.33 | 62.25 | -4,055.62 | -8,993.20 | 9,761.59 | 9,710.17 | 51.43 | 189.819 | | |
| 1,500.00 | 1,472.97 | 1,412.97 | 1,472.97 | 7.65 | 47.69 | 62.38 | -4,055.62 | -8,993.20 | 9,749.33 | 9,694.07 | 55.25 | 176.448 | | |
| 1,600.00 | 1,569.61 | 1,509.61 | 1,569.61 | 8.13 | 51.06 | 62.51 | -4,055.62 | -8,993.20 | 9,737.11 | 9,678.02 | 59.09 | 164.784 | | |
| 1,700.00 | 1,666.24 | 1,606.24 | 1,666.24 | 8.62 | 54.43 | 62.64 | -4,055.62 | -8,993.20 | 9,724.94 | 9,662.01 | 62.93 | 154.524 | | |
| 1,800.00 | 1,762.88 | 1,702.88 | 1,762.88 | 9.12 | 57.80 | 62.77 | -4,055.62 | -8,993.20 | 9,712.83 | 9,646.05 | 66.79 | 145.431 | | |
| 1,900.00 | 1,859.52 | 1,800.48 | 1,859.52 | 9.62 | 61.20 | 62.90 | -4,055.62 | -8,993.20 | 9,700.77 | 9,630.10 | 70.68 | 137.255 | | |
| 2,000.00 | 1,956.16 | 1,903.84 | 1,956.16 | 10.13 | 64.80 | 63.03 | -4,055.62 | -8,993.20 | 9,688.77 | 9,613.99 | 74.77 | 129.575 | | |
| 2,100.00 | 2,052.79 | 2,007.21 | 2,052.79 | 10.64 | 68.40 | 63.17 | -4,055.62 | -8,993.20 | 9,676.81 | 9,597.94 | 78.87 | 122.686 | | |
| 2,200.00 | 2,149.43 | 2,089.43 | 2,149.43 | 11.15 | 71.27 | 63.30 | -4,055.62 | -8,993.20 | 9,664.92 | 9,582.67 | 82.24 | 117.518 | | |
| 2,300.00 | 2,246.07 | 2,186.07 | 2,246.07 | 11.66 | 74.64 | 63.43 | -4,055.62 | -8,993.20 | 9,653.07 | 9,566.96 | 86.12 | 112.095 | | |
| 2,400.00 | 2,342.71 | 2,282.71 | 2,342.71 | 12.18 | 78.01 | 63.56 | -4,055.62 | -8,993.20 | 9,641.28 | 9,551.29 | 89.99 | 107.135 | | |
| 2,500.00 | 2,439.34 | 2,379.34 | 2,439.34 | 12.70 | 81.38 | 63.70 | -4,055.62 | -8,993.20 | 9,629.54 | 9,535.67 | 93.87 | 102.583 | | |
| 2,600.00 | 2,535.98 | 2,475.98 | 2,535.98 | 13.22 | 84.75 | 63.83 | -4,055.62 | -8,993.20 | 9,617.86 | 9,520.11 | 97.75 | 98.391 | | |
| 2,700.00 | 2,632.62 | 2,572.62 | 2,632.62 | 13.75 | 88.13 | 63.97 | -4,055.62 | -8,993.20 | 9,606.24 | 9,504.60 | 101.63 | 94.517 | | |
| 2,800.00 | 2,729.26 | 2,669.26 | 2,729.26 | 14.27 | 91.50 | 64.10 | -4,055.62 | -8,993.20 | 9,594.66 | 9,489.14 | 105.52 | 90.928 | | |
| 2,900.00 | 2,825.89 | 2,765.89 | 2,825.89 | 14.80 | 94.87 | 64.23 | -4,055.62 | -8,993.20 | 9,583.15 | 9,473.74 | 109.41 | 87.592 | | |
| 3,000.00 | 2,922.53 | 2,862.53 | 2,922.53 | 15.32 | 98.24 | 64.37 | -4,055.62 | -8,993.20 | 9,571.68 | 9,458.39 | 113.29 | 84.485 | | |
| 3,100.00 | 3,019.17 | 2,959.17 | 3,019.17 | 15.85 | 101.61 | 64.50 | -4,055.62 | -8,993.20 | 9,560.28 | 9,443.09 | 117.18 | 81.584 | | |
| 3,200.00 | 3,115.81 | 3,055.81 | 3,115.81 | 16.38 | 104.98 | 64.64 | -4,055.62 | -8,993.20 | 9,548.92 | 9,427.85 | 121.07 | 78.868 | | |
| 3,300.00 | 3,212.44 | 3,152.44 | 3,212.44 | 16.91 | 108.36 | 64.78 | -4,055.62 | -8,993.20 | 9,537.63 | 9,412.66 | 124.97 | 76.321 | | |
| 3,400.00 | 3,309.08 | 3,249.08 | 3,309.08 | 17.44 | 111.73 | 64.91 | -4,055.62 | -8,993.20 | 9,526.39 | 9,397.53 | 128.86 | 73.928 | | |
| 3,500.00 | 3,405.72 | 3,345.72 | 3,405.72 | 17.97 | 115.10 | 65.05 | -4,055.62 | -8,993.20 | 9,515.21 | 9,382.45 | 132.75 | 71.675 | | |
| 3,600.00 | 3,502.36 | 3,442.36 | 3,502.36 | 18.50 | 118.47 | 65.18 | -4,055.62 | -8,993.20 | 9,504.08 | 9,367.43 | 136.65 | 69.551 | | |
| 3,700.00 | 3,598.99 | 3,538.99 | 3,598.99 | 19.03 | 121.85 | 65.32 | -4,055.62 | -8,993.20 | 9,493.01 | 9,352.46 | 140.55 | 67.544 | | |
| 3,800.00 | 3,695.63 | 3,635.63 | 3,695.63 | 19.57 | 125.22 | 65.46 | -4,055.62 | -8,993.20 | 9,482.00 | 9,337.55 | 144.44 | 65.646 | | |
| 3,900.00 | 3,792.27 | 3,732.27 | 3,792.27 | 20.10 | 128.59 | 65.60 | -4,055.62 | -8,993.20 | 9,471.04 | 9,322.70 | 148.34 | 63.847 | | |
| 4,000.00 | 3,888.91 | 3,828.91 | 3,888.91 | 20.63 | 131.96 | 65.73 | -4,055.62 | -8,993.20 | 9,460.14 | 9,307.90 | 152.24 | 62.140 | | |
| 4,100.00 | 3,985.54 | 3,925.54 | 3,985.54 | 21.17 | 135.34 | 65.87 | -4,055.62 | -8,993.20 | 9,449.30 | 9,293.16 | 156.14 | 60.519 | | |
| 4,200.00 | 4,082.18 | 4,022.18 | 4,082.18 | 21.70 | 138.71 | 66.01 | -4,055.62 | -8,993.20 | 9,438.51 | 9,278.48 | 160.04 | 58.977 | | |
| 4,300.00 | 4,178.82 | 4,118.82 | 4,178.82 | 22.24 | 142.08 | 66.15 | -4,055.62 | -8,993.20 | 9,427.79 | 9,263.85 | 163.94 | 57.508 | | |
| 4,400.00 | 4,275.46 | 4,215.46 | 4,275.46 | 22.77 | 145.45 | 66.29 | -4,055.62 | -8,993.20 | 9,417.12 | 9,249.28 | 167.84 | 56.108 | | |
| 4,500.00 | 4,372.09 | 4,312.09 | 4,372.09 | 23.31 | 148.83 | 66.43 | -4,055.62 | -8,993.20 | 9,406.51 | 9,234.77 | 171.74 | 54.772 | | |
| 4,600.00 | 4,468.73 | 4,408.73 | 4,468.73 | 23.84 | 152.20 | 66.57 | -4,055.62 | -8,993.20 | 9,395.96 | 9,220.32 | 175.64 | 53.495 | | |
| 4,700.00 | 4,565.37 | 4,505.37 | 4,565.37 | 24.38 | 155.57 | 66.71 | -4,055.62 | -8,993.20 | 9,385.46 | 9,205.92 | 179.55 | 52.274 | | |
| 4,800.00 | 4,662.01 | 4,602.01 | 4,662.01 | 24.91 | 158.94 | 66.85 | -4,055.62 | -8,993.20 | 9,375.03 | 9,191.58 | 183.45 | 51.104 | | |
| 4,900.00 | 4,758.64 | 4,701.36 | 4,758.64 | 25.45 | 162.41 | 66.99 | -4,055.62 | -8,993.20 | 9,364.65 | 9,177.21 | 187.45 | 49.959 | | |
| 5,000.00 | 4,855.28 | 4,804.72 | 4,855.28 | 25.99 | 166.02 | 67.13 | -4,055.62 | -8,993.20 | 9,354.34 | 9,162.75 | 191.59 | 48.826 | | |
| 5,100.00 | 4,951.92 | 4,908.08 | 4,951.92 | 26.53 | 169.63 | 67.27 | -4,055.62 | -8,993.20 | 9,344.08 | 9,148.36 | 195.73 | 47.741 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HOOD 41-20(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,988.56 | 5,048.56 | 27.06 | 172.44 | 67.41 | -4,055.62 | -8,993.20 | 9,333.88 | 9,134.82 | 199.07 | 46.888 | | |
| 5,300.00 | 5,145.19 | 5,085.19 | 5,145.19 | 27.60 | 175.81 | 67.55 | -4,055.62 | -8,993.20 | 9,323.75 | 9,120.77 | 202.97 | 45.936 | | |
| 5,400.00 | 5,241.83 | 5,181.83 | 5,241.83 | 28.14 | 179.18 | 67.70 | -4,055.62 | -8,993.20 | 9,313.67 | 9,106.79 | 206.88 | 45.020 | | |
| 5,500.00 | 5,338.47 | 5,278.47 | 5,338.47 | 28.67 | 182.56 | 67.84 | -4,055.62 | -8,993.20 | 9,303.65 | 9,092.87 | 210.78 | 44.138 | | |
| 5,600.00 | 5,435.11 | 5,375.11 | 5,435.11 | 29.21 | 185.93 | 67.98 | -4,055.62 | -8,993.20 | 9,293.69 | 9,079.00 | 214.69 | 43.289 | | |
| 5,700.00 | 5,531.74 | 5,471.74 | 5,531.74 | 29.75 | 189.30 | 68.12 | -4,055.62 | -8,993.20 | 9,283.80 | 9,065.20 | 218.60 | 42.470 | | |
| 5,800.00 | 5,628.38 | 5,568.38 | 5,628.38 | 30.29 | 192.67 | 68.27 | -4,055.62 | -8,993.20 | 9,273.96 | 9,051.46 | 222.51 | 41.680 | | |
| 5,900.00 | 5,725.02 | 5,665.02 | 5,725.02 | 30.83 | 196.05 | 68.41 | -4,055.62 | -8,993.20 | 9,264.19 | 9,037.77 | 226.41 | 40.917 | | |
| 6,000.00 | 5,821.66 | 5,761.66 | 5,821.66 | 31.37 | 199.42 | 68.55 | -4,055.62 | -8,993.20 | 9,254.47 | 9,024.15 | 230.32 | 40.180 | | |
| 6,100.00 | 5,918.29 | 5,858.29 | 5,918.29 | 31.90 | 202.79 | 68.70 | -4,055.62 | -8,993.20 | 9,244.82 | 9,010.59 | 234.23 | 39.469 | | |
| 6,200.00 | 6,014.93 | 5,954.93 | 6,014.93 | 32.44 | 206.17 | 68.84 | -4,055.62 | -8,993.20 | 9,235.23 | 8,997.09 | 238.14 | 38.781 | | |
| 6,300.00 | 6,111.57 | 6,051.57 | 6,111.57 | 32.98 | 209.54 | 68.99 | -4,055.62 | -8,993.20 | 9,225.70 | 8,983.65 | 242.05 | 38.115 | | |
| 6,400.00 | 6,208.21 | 6,148.21 | 6,208.21 | 33.52 | 212.91 | 69.13 | -4,055.62 | -8,993.20 | 9,216.23 | 8,970.27 | 245.96 | 37.471 | | |
| 6,500.00 | 6,304.84 | 6,244.84 | 6,304.84 | 34.06 | 216.29 | 69.28 | -4,055.62 | -8,993.20 | 9,206.83 | 8,956.96 | 249.87 | 36.847 | | |
| 6,600.00 | 6,401.37 | 6,341.37 | 6,401.37 | 34.60 | 219.66 | 69.55 | -4,055.62 | -8,993.20 | 9,195.39 | 8,941.62 | 253.77 | 36.235 | | |
| 6,700.00 | 6,496.25 | 6,436.25 | 6,496.25 | 35.12 | 222.97 | 69.84 | -4,055.62 | -8,993.20 | 9,179.79 | 8,913.21 | 257.59 | 35.603 | | |
| 6,800.00 | 6,587.15 | 6,527.15 | 6,587.15 | 35.59 | 226.14 | 70.12 | -4,055.62 | -8,993.20 | 9,159.92 | 8,877.71 | 261.21 | 34.960 | | |
| 6,900.00 | 6,671.83 | 6,611.83 | 6,671.83 | 36.03 | 229.10 | 70.41 | -4,055.62 | -8,993.20 | 9,139.70 | 8,835.15 | 264.56 | 34.321 | | |
| 7,000.00 | 6,748.21 | 6,688.21 | 6,748.21 | 36.41 | 231.76 | 70.70 | -4,055.62 | -8,993.20 | 9,115.41 | 8,784.86 | 267.55 | 33.696 | | |
| 7,100.00 | 6,814.41 | 6,754.41 | 6,814.41 | 36.76 | 234.07 | 71.00 | -4,055.62 | -8,993.20 | 9,086.62 | 8,730.51 | 270.11 | 33.100 | | |
| 7,200.00 | 6,868.79 | 6,808.79 | 6,868.79 | 37.07 | 235.97 | 71.31 | -4,055.62 | -8,993.20 | 9,057.18 | 8,674.99 | 272.19 | 32.540 | | |
| 7,300.00 | 6,910.01 | 6,850.01 | 6,910.01 | 37.39 | 237.41 | 71.62 | -4,055.62 | -8,993.20 | 9,027.16 | 8,619.43 | 273.73 | 32.028 | | |
| 7,400.00 | 6,937.07 | 6,877.07 | 6,937.07 | 37.76 | 238.36 | 71.93 | -4,055.62 | -8,993.20 | 9,000.79 | 8,598.08 | 274.71 | 31.570 | | |
| 7,500.00 | 6,949.29 | 6,889.29 | 6,949.29 | 38.27 | 238.78 | 72.24 | -4,055.62 | -8,993.20 | 8,976.45 | 8,570.32 | 275.12 | 31.173 | | |
| 7,600.00 | 6,949.75 | 6,889.75 | 6,949.75 | 39.02 | 238.80 | 72.55 | -4,055.62 | -8,993.20 | 8,948.15 | 8,540.05 | 275.09 | 30.826 | | |
| 7,700.00 | 6,949.37 | 6,889.37 | 6,949.37 | 40.05 | 238.79 | 72.86 | -4,055.62 | -8,993.20 | 8,913.98 | 8,508.93 | 275.06 | 30.481 | | |
| 7,800.00 | 6,948.99 | 6,888.99 | 6,948.99 | 41.35 | 238.77 | 73.17 | -4,055.62 | -8,993.20 | 8,879.91 | 8,476.87 | 275.04 | 30.134 | | |
| 7,900.00 | 6,948.61 | 6,888.61 | 6,948.61 | 42.86 | 238.76 | 73.48 | -4,055.62 | -8,993.20 | 8,846.93 | 8,443.89 | 275.04 | 29.784 | | |
| 8,000.00 | 6,948.23 | 6,888.23 | 6,948.23 | 44.53 | 238.75 | 73.79 | -4,055.62 | -8,993.20 | 8,814.05 | 8,411.08 | 275.07 | 29.433 | | |
| 8,100.00 | 6,947.85 | 6,887.85 | 6,947.85 | 46.34 | 238.73 | 74.10 | -4,055.62 | -8,993.20 | 8,781.27 | 8,378.35 | 275.12 | 29.079 | | |
| 8,200.00 | 6,947.47 | 6,887.47 | 6,947.47 | 48.26 | 238.72 | 74.41 | -4,055.62 | -8,993.20 | 8,748.60 | 8,345.72 | 275.20 | 28.723 | | |
| 8,300.00 | 6,947.09 | 6,887.09 | 6,947.09 | 50.28 | 238.71 | 74.72 | -4,055.62 | -8,993.20 | 8,716.16 | 8,313.32 | 275.31 | 28.365 | | |
| 8,400.00 | 6,946.72 | 6,886.72 | 6,946.72 | 52.39 | 238.69 | 75.03 | -4,055.62 | -8,993.20 | 8,683.93 | 8,281.13 | 275.45 | 28.004 | | |
| 8,500.00 | 6,946.34 | 6,886.34 | 6,946.34 | 54.56 | 238.68 | 75.34 | -4,055.62 | -8,993.20 | 8,651.94 | 8,249.12 | 275.62 | 27.641 | | |
| 8,600.00 | 6,945.96 | 6,885.96 | 6,945.96 | 56.80 | 238.67 | 75.65 | -4,055.62 | -8,993.20 | 8,620.27 | 8,217.20 | 275.82 | 27.275 | | |
| 8,700.00 | 6,945.58 | 6,885.58 | 6,945.58 | 59.10 | 238.65 | 75.96 | -4,055.62 | -8,993.20 | 8,588.93 | 8,185.48 | 276.05 | 26.907 | | |
| 8,800.00 | 6,945.20 | 6,885.20 | 6,945.20 | 61.44 | 238.64 | 76.27 | -4,055.62 | -8,993.20 | 8,557.97 | 8,153.94 | 276.33 | 26.537 | | |
| 8,900.00 | 6,944.82 | 6,884.82 | 6,944.82 | 63.83 | 238.63 | 76.58 | -4,055.62 | -8,993.20 | 8,527.34 | 8,122.55 | 276.64 | 26.164 | | |
| 9,000.00 | 6,944.44 | 6,884.44 | 6,944.44 | 66.25 | 238.61 | 76.89 | -4,055.62 | -8,993.20 | 8,497.07 | 8,091.31 | 277.00 | 25.789 | | |
| 9,100.00 | 6,944.06 | 6,884.06 | 6,944.06 | 68.71 | 238.60 | 77.20 | -4,055.62 | -8,993.20 | 8,467.17 | 8,060.22 | 277.39 | 25.411 | | |
| 9,200.00 | 6,943.68 | 6,883.68 | 6,943.68 | 71.20 | 238.59 | 77.51 | -4,055.62 | -8,993.20 | 8,437.62 | 8,029.27 | 277.83 | 25.031 | | |
| 9,300.00 | 6,943.30 | 6,883.30 | 6,943.30 | 73.72 | 238.57 | 77.82 | -4,055.62 | -8,993.20 | 8,408.43 | 8,000.00 | 278.32 | 24.649 | | |
| 9,400.00 | 6,942.92 | 6,882.92 | 6,942.92 | 76.26 | 238.56 | 78.13 | -4,055.62 | -8,993.20 | 8,379.59 | 7,970.99 | 278.85 | 24.264 | | |
| 9,500.00 | 6,942.54 | 6,882.54 | 6,942.54 | 78.82 | 238.55 | 78.44 | -4,055.62 | -8,993.20 | 8,351.07 | 7,942.13 | 279.44 | 23.878 | | |
| 9,600.00 | 6,942.16 | 6,882.16 | 6,942.16 | 81.40 | 238.53 | 78.75 | -4,055.62 | -8,993.20 | 8,322.87 | 7,913.52 | 280.08 | 23.489 | | |
| 9,700.00 | 6,941.78 | 6,881.78 | 6,941.78 | 84.00 | 238.52 | 79.06 | -4,055.62 | -8,993.20 | 8,294.97 | 7,885.15 | 280.77 | 23.098 | | |
| 9,800.00 | 6,941.40 | 6,881.40 | 6,941.40 | 86.62 | 238.51 | 79.37 | -4,055.62 | -8,993.20 | 8,267.45 | 7,856.92 | 281.52 | 22.705 | | |
| 9,900.00 | 6,941.03 | 6,881.03 | 6,941.03 | 89.25 | 238.49 | 79.68 | -4,055.62 | -8,993.20 | 8,240.30 | 7,828.93 | 282.32 | 22.310 | | |
| 10,000.00 | 6,940.65 | 6,880.65 | 6,940.65 | 91.90 | 238.48 | 79.99 | -4,055.62 | -8,993.20 | 8,213.50 | 7,801.17 | 283.19 | 21.914 | | |
| 10,100.00 | 6,940.27 | 6,880.27 | 6,940.27 | 94.56 | 238.47 | 80.30 | -4,055.62 | -8,993.20 | 8,187.05 | 7,773.64 | 284.12 | 21.516 | | |
| 10,200.00 | 6,939.89 | 6,879.89 | 6,939.89 | 97.23 | 238.45 | 80.61 | -4,055.62 | -8,993.20 | 8,160.84 | 7,746.35 | 285.11 | 21.117 | | |
| 10,300.00 | 6,939.51 | 6,879.51 | 6,939.51 | 99.91 | 238.44 | 80.92 | -4,055.62 | -8,993.20 | 8,135.00 | 7,719.70 | 286.17 | 20.717 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HOOD 41-20(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,879.13 | 6,939.13 | 102.60 | 238.43 | -90.50 | -4,055.62 | -8,993.20 | 5,836.53 | 5,549.24 | 287.29 | 20.316 | | |
| 10,500.00 | 6,938.75 | 6,878.75 | 6,938.75 | 105.30 | 238.41 | -90.49 | -4,055.62 | -8,993.20 | 5,744.86 | 5,456.37 | 288.49 | 19.914 | | |
| 10,600.00 | 6,938.37 | 6,878.37 | 6,938.37 | 108.00 | 238.40 | -90.48 | -4,055.62 | -8,993.20 | 5,653.47 | 5,363.71 | 289.76 | 19.511 | | |
| 10,700.00 | 6,937.99 | 6,877.99 | 6,937.99 | 110.72 | 238.39 | -90.48 | -4,055.62 | -8,993.20 | 5,562.37 | 5,271.27 | 291.10 | 19.108 | | |
| 10,800.00 | 6,937.61 | 6,877.61 | 6,937.61 | 113.44 | 238.37 | -90.47 | -4,055.62 | -8,993.20 | 5,471.59 | 5,179.07 | 292.52 | 18.705 | | |
| 10,900.00 | 6,937.23 | 6,877.23 | 6,937.23 | 116.17 | 238.36 | -90.46 | -4,055.62 | -8,993.20 | 5,381.13 | 5,087.11 | 294.02 | 18.302 | | |
| 11,000.00 | 6,936.85 | 6,876.85 | 6,936.85 | 118.90 | 238.35 | -90.45 | -4,055.62 | -8,993.20 | 5,291.02 | 4,995.42 | 295.60 | 17.899 | | |
| 11,100.00 | 6,936.47 | 6,876.47 | 6,936.47 | 121.64 | 238.34 | -90.44 | -4,055.62 | -8,993.20 | 5,201.26 | 4,904.00 | 297.27 | 17.497 | | |
| 11,200.00 | 6,936.09 | 6,876.09 | 6,936.09 | 124.39 | 238.32 | -90.43 | -4,055.62 | -8,993.20 | 5,111.89 | 4,812.87 | 299.02 | 17.096 | | |
| 11,300.00 | 6,935.71 | 6,875.71 | 6,935.71 | 127.14 | 238.31 | -90.42 | -4,055.62 | -8,993.20 | 5,022.92 | 4,722.06 | 300.86 | 16.695 | | |
| 11,400.00 | 6,935.34 | 6,875.34 | 6,935.34 | 129.90 | 238.30 | -90.41 | -4,055.62 | -8,993.20 | 4,934.37 | 4,631.58 | 302.79 | 16.296 | | |
| 11,500.00 | 6,934.96 | 6,874.96 | 6,934.96 | 132.66 | 238.28 | -90.40 | -4,055.62 | -8,993.20 | 4,846.27 | 4,541.44 | 304.82 | 15.899 | | |
| 11,600.00 | 6,934.58 | 6,874.58 | 6,934.58 | 135.42 | 238.27 | -90.39 | -4,055.62 | -8,993.20 | 4,758.63 | 4,451.68 | 306.95 | 15.503 | | |
| 11,700.00 | 6,934.20 | 6,874.20 | 6,934.20 | 138.19 | 238.26 | -90.38 | -4,055.62 | -8,993.20 | 4,671.50 | 4,362.31 | 309.18 | 15.109 | | |
| 11,800.00 | 6,933.82 | 6,873.82 | 6,933.82 | 140.96 | 238.24 | -90.37 | -4,055.62 | -8,993.20 | 4,584.88 | 4,273.36 | 311.52 | 14.718 | | |
| 11,900.00 | 6,933.44 | 6,873.44 | 6,933.44 | 143.74 | 238.23 | -90.36 | -4,055.62 | -8,993.20 | 4,498.83 | 4,184.86 | 313.97 | 14.329 | | |
| 12,000.00 | 6,933.06 | 6,873.06 | 6,933.06 | 146.51 | 238.22 | -90.35 | -4,055.62 | -8,993.20 | 4,413.36 | 4,096.83 | 316.53 | 13.943 | | |
| 12,100.00 | 6,932.68 | 6,872.68 | 6,932.68 | 149.30 | 238.20 | -90.34 | -4,055.62 | -8,993.20 | 4,328.51 | 4,009.31 | 319.20 | 13.560 | | |
| 12,200.00 | 6,932.30 | 6,872.30 | 6,932.30 | 152.08 | 238.19 | -90.33 | -4,055.62 | -8,993.20 | 4,244.33 | 3,922.33 | 322.00 | 13.181 | | |
| 12,300.00 | 6,931.92 | 6,871.92 | 6,931.92 | 154.87 | 238.18 | -90.32 | -4,055.62 | -8,993.20 | 4,160.84 | 3,835.92 | 324.92 | 12.806 | | |
| 12,400.00 | 6,931.54 | 6,871.54 | 6,931.54 | 157.66 | 238.16 | -90.32 | -4,055.62 | -8,993.20 | 4,078.10 | 3,750.13 | 327.97 | 12.434 | | |
| 12,500.00 | 6,931.16 | 6,871.16 | 6,931.16 | 160.45 | 238.15 | -90.31 | -4,055.62 | -8,993.20 | 3,996.14 | 3,664.99 | 331.15 | 12.067 | | |
| 12,600.00 | 6,930.78 | 6,870.78 | 6,930.78 | 163.24 | 238.14 | -90.30 | -4,055.62 | -8,993.20 | 3,915.03 | 3,580.55 | 334.47 | 11.705 | | |
| 12,700.00 | 6,930.40 | 6,870.40 | 6,930.40 | 166.04 | 238.12 | -90.29 | -4,055.62 | -8,993.20 | 3,834.80 | 3,496.87 | 337.94 | 11.348 | | |
| 12,800.00 | 6,930.03 | 6,870.03 | 6,930.03 | 168.84 | 238.11 | -90.28 | -4,055.62 | -8,993.20 | 3,755.53 | 3,413.99 | 341.54 | 10.996 | | |
| 12,900.00 | 6,929.65 | 6,869.65 | 6,929.65 | 171.64 | 238.10 | -90.27 | -4,055.62 | -8,993.20 | 3,677.27 | 3,331.97 | 345.30 | 10.649 | | |
| 13,000.00 | 6,929.27 | 6,869.27 | 6,929.27 | 174.44 | 238.08 | -90.26 | -4,055.62 | -8,993.20 | 3,600.08 | 3,250.87 | 349.21 | 10.309 | | |
| 13,100.00 | 6,928.89 | 6,868.89 | 6,928.89 | 177.24 | 238.07 | -90.25 | -4,055.62 | -8,993.20 | 3,524.04 | 3,170.76 | 353.28 | 9.975 | | |
| 13,200.00 | 6,928.51 | 6,868.51 | 6,928.51 | 180.05 | 238.06 | -90.24 | -4,055.62 | -8,993.20 | 3,449.22 | 3,091.72 | 357.50 | 9.648 | | |
| 13,300.00 | 6,928.13 | 6,868.13 | 6,928.13 | 182.86 | 238.04 | -90.23 | -4,055.62 | -8,993.20 | 3,375.71 | 3,013.83 | 361.89 | 9.328 | | |
| 13,400.00 | 6,927.75 | 6,867.75 | 6,927.75 | 185.67 | 238.03 | -90.22 | -4,055.62 | -8,993.20 | 3,303.59 | 2,937.16 | 366.43 | 9.016 | | |
| 13,500.00 | 6,927.37 | 6,867.37 | 6,927.37 | 188.48 | 238.02 | -90.21 | -4,055.62 | -8,993.20 | 3,232.95 | 2,861.81 | 371.14 | 8.711 | | |
| 13,600.00 | 6,926.99 | 6,866.99 | 6,926.99 | 191.29 | 238.00 | -90.20 | -4,055.62 | -8,993.20 | 3,163.90 | 2,787.89 | 376.01 | 8.414 | | |
| 13,700.00 | 6,926.61 | 6,866.61 | 6,926.61 | 194.10 | 237.99 | -90.19 | -4,055.62 | -8,993.20 | 3,096.54 | 2,715.49 | 381.04 | 8.126 | | |
| 13,800.00 | 6,926.23 | 6,866.23 | 6,926.23 | 196.92 | 237.98 | -90.18 | -4,055.62 | -8,993.20 | 3,030.98 | 2,644.75 | 386.23 | 7.848 | | |
| 13,900.00 | 6,925.85 | 6,865.85 | 6,925.85 | 199.73 | 237.96 | -90.17 | -4,055.62 | -8,993.20 | 2,967.34 | 2,575.78 | 391.56 | 7.578 | | |
| 14,000.00 | 6,925.47 | 6,865.47 | 6,925.47 | 202.55 | 237.95 | -90.17 | -4,055.62 | -8,993.20 | 2,905.75 | 2,508.71 | 397.04 | 7.319 | | |
| 14,100.00 | 6,925.09 | 6,865.09 | 6,925.09 | 205.37 | 237.94 | -90.16 | -4,055.62 | -8,993.20 | 2,846.34 | 2,443.70 | 402.64 | 7.069 | | |
| 14,200.00 | 6,924.71 | 6,864.71 | 6,924.71 | 208.19 | 237.92 | -90.15 | -4,055.62 | -8,993.20 | 2,789.26 | 2,380.90 | 408.36 | 6.830 | | |
| 14,300.00 | 6,924.34 | 6,864.34 | 6,924.34 | 211.01 | 237.91 | -90.14 | -4,055.62 | -8,993.20 | 2,734.64 | 2,320.46 | 414.18 | 6.603 | | |
| 14,400.00 | 6,923.96 | 6,863.96 | 6,923.96 | 213.83 | 237.90 | -90.13 | -4,055.62 | -8,993.20 | 2,682.63 | 2,262.56 | 420.07 | 6.386 | | |
| 14,500.00 | 6,923.58 | 6,863.58 | 6,923.58 | 216.65 | 237.89 | -90.12 | -4,055.62 | -8,993.20 | 2,633.40 | 2,207.38 | 426.02 | 6.181 | | |
| 14,600.00 | 6,923.20 | 6,863.20 | 6,923.20 | 219.48 | 237.87 | -90.11 | -4,055.62 | -8,993.20 | 2,587.10 | 2,155.11 | 431.99 | 5.989 | | |
| 14,700.00 | 6,922.82 | 6,862.82 | 6,922.82 | 222.30 | 237.86 | -90.10 | -4,055.62 | -8,993.20 | 2,543.88 | 2,105.94 | 437.95 | 5.809 | | |
| 14,800.00 | 6,922.44 | 6,862.44 | 6,922.44 | 225.13 | 237.85 | -90.09 | -4,055.62 | -8,993.20 | 2,503.92 | 2,060.06 | 443.86 | 5.641 | | |
| 14,900.00 | 6,922.06 | 6,862.06 | 6,922.06 | 227.95 | 237.83 | -90.08 | -4,055.62 | -8,993.20 | 2,467.37 | 2,017.67 | 449.69 | 5.487 | | |
| 14,915.55 | 6,922.00 | 6,862.00 | 6,922.00 | 228.39 | 237.83 | -90.08 | -4,055.62 | -8,993.20 | 2,462.00 | 2,011.41 | 450.59 | 5.464 | CC, ES, SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HOOD 6-2-20(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 82-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 680.83 | 713.60 | 3.28 | 4.36 | -106.99 | -2,729.59 | -8,934.17 | 9,369.06 | | | | | |
| 100.00 | 100.00 | 724.00 | 756.32 | 3.28 | 4.49 | -107.02 | -2,733.82 | -8,929.61 | 9,361.76 | 9,354.01 | 7.75 | 1,208.291 | | |
| 200.00 | 200.00 | 724.00 | 756.32 | 3.34 | 4.49 | -107.02 | -2,733.82 | -8,929.61 | 9,355.28 | 9,347.49 | 7.79 | 1,201.140 | | |
| 300.00 | 299.98 | 724.00 | 756.32 | 3.44 | 4.49 | 67.71 | -2,733.82 | -8,929.61 | 9,349.20 | 9,341.32 | 7.88 | 1,186.066 | | |
| 400.00 | 399.84 | 768.10 | 799.90 | 3.59 | 4.64 | 67.81 | -2,739.09 | -8,925.43 | 9,342.18 | 9,334.00 | 8.17 | 1,143.458 | | |
| 500.00 | 499.45 | 818.00 | 849.05 | 3.79 | 4.81 | 67.91 | -2,746.83 | -8,921.65 | 9,335.48 | 9,326.95 | 8.53 | 1,093.885 | | |
| 600.00 | 598.70 | 818.00 | 849.05 | 4.03 | 4.81 | 68.06 | -2,746.83 | -8,921.65 | 9,327.65 | 9,318.88 | 8.77 | 1,063.336 | | |
| 700.00 | 697.47 | 818.00 | 849.05 | 4.31 | 4.81 | 68.21 | -2,746.83 | -8,921.65 | 9,319.59 | 9,310.54 | 9.05 | 1,029.507 | | |
| 800.00 | 795.62 | 818.00 | 849.05 | 4.64 | 4.81 | 68.36 | -2,746.83 | -8,921.65 | 9,311.31 | 9,301.93 | 9.37 | 993.483 | | |
| 900.00 | 893.06 | 818.00 | 849.05 | 5.00 | 4.81 | 68.52 | -2,746.83 | -8,921.65 | 9,302.80 | 9,293.08 | 9.73 | 956.160 | | |
| 1,000.00 | 989.78 | 858.02 | 888.36 | 5.39 | 4.95 | 68.61 | -2,753.98 | -8,919.47 | 9,293.72 | 9,283.46 | 10.26 | 905.553 | | |
| 1,100.00 | 1,086.42 | 873.08 | 903.15 | 5.81 | 5.01 | 68.61 | -2,756.78 | -8,918.88 | 9,285.63 | 9,274.90 | 10.73 | 865.239 | | |
| 1,200.00 | 1,183.06 | 912.00 | 941.33 | 6.25 | 5.15 | 68.63 | -2,764.26 | -8,917.94 | 9,278.66 | 9,267.35 | 11.31 | 820.416 | | |
| 1,300.00 | 1,279.69 | 912.00 | 941.33 | 6.71 | 5.15 | 68.63 | -2,764.26 | -8,917.94 | 9,272.21 | 9,260.46 | 11.76 | 788.629 | | |
| 1,400.00 | 1,376.33 | 912.00 | 941.33 | 7.17 | 5.15 | 68.63 | -2,764.26 | -8,917.94 | 9,266.85 | 9,254.63 | 12.22 | 758.477 | | |
| 1,500.00 | 1,472.97 | 912.00 | 941.33 | 7.65 | 5.15 | 68.63 | -2,764.26 | -8,917.94 | 9,262.56 | 9,249.87 | 12.69 | 730.015 | | |
| 1,600.00 | 1,569.61 | 912.00 | 941.33 | 8.13 | 5.15 | 68.63 | -2,764.26 | -8,917.94 | 9,259.34 | 9,246.18 | 13.17 | 703.234 | | |
| 1,700.00 | 1,666.24 | 961.17 | 989.55 | 8.62 | 5.33 | 68.64 | -2,773.88 | -8,918.11 | 9,256.30 | 9,242.47 | 13.84 | 668.809 | | |
| 1,800.00 | 1,762.88 | 1,006.00 | 1,033.51 | 9.12 | 5.50 | 68.66 | -2,782.51 | -8,919.72 | 9,254.99 | 9,240.49 | 14.51 | 638.038 | | |
| 1,900.00 | 1,859.52 | 1,006.00 | 1,033.51 | 9.62 | 5.50 | 68.66 | -2,782.51 | -8,919.72 | 9,254.01 | 9,239.01 | 15.00 | 616.980 | | |
| 1,941.29 | 1,899.42 | 1,006.00 | 1,033.51 | 9.83 | 5.50 | 68.66 | -2,782.51 | -8,919.72 | 9,253.91 | 9,238.71 | 15.20 | 608.663 | | |
| 2,000.00 | 1,956.16 | 1,006.00 | 1,033.51 | 10.13 | 5.50 | 68.66 | -2,782.51 | -8,919.72 | 9,254.10 | 9,238.60 | 15.50 | 597.209 | | |
| 2,100.00 | 2,052.79 | 1,006.00 | 1,033.51 | 10.64 | 5.50 | 68.66 | -2,782.51 | -8,919.72 | 9,255.27 | 9,239.28 | 15.99 | 578.648 | | |
| 2,200.00 | 2,149.43 | 1,006.00 | 1,033.51 | 11.15 | 5.50 | 68.66 | -2,782.51 | -8,919.72 | 9,257.53 | 9,241.03 | 16.50 | 561.216 | | |
| 2,300.00 | 2,246.07 | 1,060.12 | 1,086.58 | 11.66 | 5.70 | 68.69 | -2,792.46 | -8,923.30 | 9,260.02 | 9,242.82 | 17.21 | 538.094 | | |
| 2,400.00 | 2,342.71 | 1,101.00 | 1,126.68 | 12.18 | 5.85 | 68.71 | -2,799.48 | -8,927.09 | 9,263.90 | 9,246.02 | 17.87 | 518.268 | | |
| 2,500.00 | 2,439.34 | 1,101.00 | 1,126.68 | 12.70 | 5.85 | 68.71 | -2,799.48 | -8,927.09 | 9,268.36 | 9,249.99 | 18.38 | 504.337 | | |
| 2,600.00 | 2,535.98 | 1,101.00 | 1,126.68 | 13.22 | 5.85 | 68.71 | -2,799.48 | -8,927.09 | 9,273.91 | 9,255.03 | 18.88 | 491.212 | | |
| 2,700.00 | 2,632.62 | 1,101.00 | 1,126.68 | 13.75 | 5.85 | 68.71 | -2,799.48 | -8,927.09 | 9,280.53 | 9,261.15 | 19.38 | 478.839 | | |
| 2,800.00 | 2,729.26 | 1,152.72 | 1,177.25 | 14.27 | 6.05 | 68.75 | -2,808.55 | -8,932.97 | 9,287.44 | 9,267.35 | 20.09 | 462.178 | | |
| 2,900.00 | 2,825.89 | 1,197.00 | 1,220.30 | 14.80 | 6.23 | 68.77 | -2,817.10 | -8,938.83 | 9,295.75 | 9,274.97 | 20.78 | 447.322 | | |
| 3,000.00 | 2,922.53 | 1,197.00 | 1,220.30 | 15.32 | 6.23 | 68.77 | -2,817.10 | -8,938.83 | 9,304.56 | 9,283.28 | 21.28 | 437.258 | | |
| 3,100.00 | 3,019.17 | 1,197.00 | 1,220.30 | 15.85 | 6.23 | 68.77 | -2,817.10 | -8,938.83 | 9,314.43 | 9,292.65 | 21.78 | 427.740 | | |
| 3,200.00 | 3,115.81 | 1,197.00 | 1,220.30 | 16.38 | 6.23 | 68.77 | -2,817.10 | -8,938.83 | 9,325.36 | 9,303.09 | 22.27 | 418.735 | | |
| 3,300.00 | 3,212.44 | 1,249.79 | 1,271.32 | 16.91 | 6.45 | 68.80 | -2,828.13 | -8,946.73 | 9,336.62 | 9,313.62 | 23.00 | 405.896 | | |
| 3,400.00 | 3,309.08 | 1,292.00 | 1,311.86 | 17.44 | 6.64 | 68.81 | -2,837.56 | -8,953.72 | 9,349.13 | 9,325.44 | 23.69 | 394.660 | | |
| 3,500.00 | 3,405.72 | 1,292.00 | 1,311.86 | 17.97 | 6.64 | 68.81 | -2,837.56 | -8,953.72 | 9,362.22 | 9,338.04 | 24.18 | 387.237 | | |
| 3,600.00 | 3,502.36 | 1,292.00 | 1,311.86 | 18.50 | 6.64 | 68.81 | -2,837.56 | -8,953.72 | 9,376.36 | 9,351.70 | 24.66 | 380.196 | | |
| 3,700.00 | 3,598.99 | 1,331.19 | 1,349.30 | 19.03 | 6.84 | 68.83 | -2,846.79 | -8,960.74 | 9,391.15 | 9,365.81 | 25.33 | 370.690 | | |
| 3,800.00 | 3,695.63 | 1,387.00 | 1,402.23 | 19.57 | 7.12 | 68.84 | -2,860.73 | -8,971.61 | 9,407.18 | 9,381.07 | 26.10 | 360.379 | | |
| 3,900.00 | 3,792.27 | 1,387.00 | 1,402.23 | 20.10 | 7.12 | 68.84 | -2,860.73 | -8,971.61 | 9,423.44 | 9,396.86 | 26.58 | 354.529 | | |
| 4,000.00 | 3,888.91 | 1,408.31 | 1,422.35 | 20.63 | 7.24 | 68.85 | -2,866.26 | -8,975.95 | 9,440.70 | 9,413.53 | 27.17 | 347.434 | | |
| 4,100.00 | 3,985.54 | 1,481.00 | 1,490.84 | 21.17 | 7.66 | 68.87 | -2,885.67 | -8,990.65 | 9,458.36 | 9,430.32 | 28.04 | 337.294 | | |
| 4,200.00 | 4,082.18 | 1,526.74 | 1,533.77 | 21.70 | 7.95 | 68.87 | -2,898.42 | -8,999.93 | 9,476.45 | 9,447.66 | 28.79 | 329.204 | | |
| 4,300.00 | 4,178.82 | 4,300.00 | 1,619.85 | 22.24 | 30.21 | 68.87 | -2,926.00 | -9,018.66 | 9,495.05 | 9,441.23 | 53.82 | 176.433 | | |
| 4,400.00 | 4,275.46 | 1,731.29 | 1,724.03 | 22.77 | 9.38 | 68.86 | -2,961.64 | -9,040.37 | 9,513.26 | 9,482.23 | 31.02 | 306.651 | | |
| 4,500.00 | 4,372.09 | 1,760.00 | 1,750.48 | 23.31 | 9.60 | 68.85 | -2,971.39 | -9,045.78 | 9,531.86 | 9,500.18 | 31.68 | 300.851 | | |
| 4,600.00 | 4,468.73 | 2,478.80 | 2,397.41 | 23.84 | 16.10 | 68.28 | -3,267.43 | -9,141.79 | 9,544.34 | 9,506.16 | 38.17 | 250.033 | | |
| 4,700.00 | 4,565.37 | 2,513.00 | 2,428.24 | 24.38 | 16.42 | 68.25 | -3,281.78 | -9,145.44 | 9,557.38 | 9,518.43 | 38.96 | 245.330 | | |
| 4,800.00 | 4,662.01 | 2,549.33 | 2,460.98 | 24.91 | 16.77 | 68.22 | -3,296.95 | -9,149.59 | 9,571.10 | 9,531.34 | 39.76 | 240.738 | | |
| 4,900.00 | 4,758.64 | 2,608.00 | 2,513.91 | 25.45 | 17.33 | 68.17 | -3,321.21 | -9,156.80 | 9,585.46 | 9,544.71 | 40.75 | 235.199 | | |
| 5,000.00 | 4,855.28 | 2,634.70 | 2,538.00 | 25.99 | 17.58 | 68.15 | -3,332.22 | -9,160.25 | 9,600.34 | 9,558.88 | 41.47 | 231.528 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HOOD 6-2-20(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 82-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 2,682.75 | 2,581.24 | 26.53 | 18.05 | 68.11 | -3,352.15 | -9,166.61 | 9,615.79 | 9,573.43 | 42.36 | 226.976 | | |
| 5,200.00 | 5,048.56 | 2,703.00 | 2,599.44 | 27.06 | 18.24 | 68.10 | -3,360.61 | -9,169.35 | 9,631.86 | 9,588.84 | 43.01 | 223.941 | | |
| 5,300.00 | 5,145.19 | 2,747.69 | 2,639.43 | 27.60 | 18.69 | 68.06 | -3,379.54 | -9,175.61 | 9,648.52 | 9,604.64 | 43.88 | 219.860 | | |
| 5,400.00 | 5,241.83 | 2,798.00 | 2,684.12 | 28.14 | 19.20 | 68.01 | -3,401.41 | -9,183.07 | 9,666.05 | 9,621.24 | 44.81 | 215.717 | | |
| 5,500.00 | 5,338.47 | 2,798.00 | 2,684.12 | 28.67 | 19.20 | 68.01 | -3,401.41 | -9,183.07 | 9,684.13 | 9,638.87 | 45.26 | 213.972 | | |
| 5,600.00 | 5,435.11 | 3,111.51 | 2,962.18 | 29.21 | 22.42 | 67.72 | -3,539.01 | -9,227.70 | 9,701.08 | 9,652.37 | 48.71 | 199.145 | | |
| 5,700.00 | 5,531.74 | 3,148.72 | 2,995.55 | 29.75 | 22.79 | 67.70 | -3,554.61 | -9,233.03 | 9,717.82 | 9,668.31 | 49.51 | 196.261 | | |
| 5,800.00 | 5,628.38 | 3,469.85 | 3,282.11 | 30.29 | 26.06 | 67.41 | -3,683.59 | -9,274.06 | 9,733.19 | 9,680.15 | 53.04 | 183.521 | | |
| 5,900.00 | 5,725.02 | 3,530.88 | 3,336.58 | 30.83 | 26.68 | 67.35 | -3,720.12 | -9,281.32 | 9,748.22 | 9,694.14 | 54.08 | 180.249 | | |
| 6,000.00 | 5,821.66 | 3,583.68 | 3,383.66 | 31.37 | 27.22 | 67.30 | -3,743.11 | -9,287.81 | 9,763.67 | 9,708.62 | 55.05 | 177.369 | | |
| 6,100.00 | 5,918.29 | 3,831.00 | 3,606.48 | 31.90 | 29.69 | 67.11 | -3,846.01 | -9,318.06 | 9,778.05 | 9,720.23 | 57.82 | 169.108 | | |
| 6,200.00 | 6,014.93 | 3,851.79 | 3,625.29 | 32.44 | 29.89 | 67.09 | -3,854.48 | -9,320.70 | 9,792.73 | 9,734.25 | 58.47 | 167.471 | | |
| 6,300.00 | 6,111.57 | 3,905.75 | 3,673.98 | 32.98 | 30.43 | 67.05 | -3,876.64 | -9,327.68 | 9,807.97 | 9,748.53 | 59.43 | 165.029 | | |
| 6,400.00 | 6,208.21 | 3,925.00 | 3,691.33 | 33.52 | 30.62 | 67.04 | -3,884.61 | -9,330.21 | 9,823.77 | 9,763.71 | 60.06 | 163.560 | | |
| 6,500.00 | 6,304.84 | 3,925.00 | 3,691.33 | 34.06 | 30.62 | 67.04 | -3,884.61 | -9,330.21 | 9,840.54 | 9,780.03 | 60.51 | 162.639 | | |
| 6,600.00 | 6,401.37 | 3,980.95 | 3,741.27 | 34.60 | 31.21 | 50.48 | -3,908.65 | -9,337.86 | 9,855.49 | 9,794.00 | 61.49 | 160.273 | | |
| 6,700.00 | 6,496.25 | 4,020.00 | 3,775.58 | 35.12 | 31.62 | 28.02 | -3,926.40 | -9,343.52 | 9,858.34 | 9,796.06 | 62.28 | 158.284 | | |
| 6,800.00 | 6,587.15 | 6,866.79 | 6,454.81 | 35.59 | 52.11 | 13.17 | -4,681.76 | -9,543.83 | 9,842.38 | 9,760.87 | 81.52 | 120.741 | | |
| 6,900.00 | 6,671.83 | 6,917.23 | 6,505.25 | 36.03 | 52.25 | 4.25 | -4,682.70 | -9,544.33 | 9,791.10 | 9,709.02 | 82.08 | 119.282 | | |
| 7,000.00 | 6,748.21 | 6,963.07 | 6,551.07 | 36.41 | 52.38 | -2.89 | -4,683.66 | -9,544.92 | 9,728.15 | 9,645.59 | 82.56 | 117.830 | | |
| 7,100.00 | 6,814.41 | 7,037.00 | 6,624.97 | 36.76 | 52.59 | -10.05 | -4,685.41 | -9,546.12 | 9,655.10 | 9,572.08 | 83.01 | 116.307 | | |
| 7,200.00 | 6,868.79 | 7,037.00 | 6,624.97 | 37.07 | 52.59 | -18.67 | -4,685.41 | -9,546.12 | 9,573.37 | 9,490.15 | 83.21 | 115.048 | | |
| 7,300.00 | 6,910.01 | 7,082.80 | 6,670.75 | 37.39 | 52.72 | -31.20 | -4,686.53 | -9,546.97 | 9,485.16 | 9,401.74 | 83.42 | 113.703 | | |
| 7,400.00 | 6,937.07 | 7,114.11 | 6,702.04 | 37.76 | 52.81 | -50.61 | -4,687.25 | -9,547.56 | 9,392.51 | 9,309.00 | 83.51 | 112.468 | | |
| 7,500.00 | 6,949.29 | 7,129.40 | 6,717.33 | 38.27 | 52.85 | -77.12 | -4,687.59 | -9,547.85 | 9,297.75 | 9,214.25 | 83.50 | 111.350 | | |
| 7,600.00 | 6,949.75 | 7,131.97 | 6,719.89 | 39.02 | 52.86 | -86.17 | -4,687.64 | -9,547.90 | 9,202.93 | 9,119.51 | 83.43 | 110.312 | | |
| 7,700.00 | 6,949.37 | 7,133.62 | 6,721.55 | 40.05 | 52.87 | -86.21 | -4,687.68 | -9,547.93 | 9,108.26 | 9,024.89 | 83.37 | 109.247 | | |
| 7,800.00 | 6,948.99 | 7,135.28 | 6,723.21 | 41.35 | 52.87 | -86.24 | -4,687.71 | -9,547.96 | 9,013.70 | 8,930.36 | 83.35 | 108.148 | | |
| 7,900.00 | 6,948.61 | 7,136.94 | 6,724.86 | 42.86 | 52.87 | -86.27 | -4,687.75 | -9,547.99 | 8,919.26 | 8,835.91 | 83.35 | 107.013 | | |
| 8,000.00 | 6,948.23 | 7,138.60 | 6,726.52 | 44.53 | 52.88 | -86.30 | -4,687.78 | -9,548.02 | 8,824.94 | 8,741.57 | 83.38 | 105.841 | | |
| 8,100.00 | 6,947.85 | 7,140.26 | 6,728.19 | 46.34 | 52.88 | -86.33 | -4,687.82 | -9,548.06 | 8,730.75 | 8,647.31 | 83.44 | 104.632 | | |
| 8,200.00 | 6,947.47 | 7,141.93 | 6,729.85 | 48.26 | 52.89 | -86.37 | -4,687.85 | -9,548.09 | 8,636.69 | 8,553.15 | 83.54 | 103.385 | | |
| 8,300.00 | 6,947.09 | 7,143.59 | 6,731.52 | 50.28 | 52.89 | -86.40 | -4,687.89 | -9,548.12 | 8,542.77 | 8,459.10 | 83.67 | 102.099 | | |
| 8,400.00 | 6,946.72 | 7,145.26 | 6,733.18 | 52.39 | 52.90 | -86.43 | -4,687.92 | -9,548.15 | 8,448.98 | 8,365.14 | 83.84 | 100.776 | | |
| 8,500.00 | 6,946.34 | 7,146.93 | 6,734.85 | 54.56 | 52.90 | -86.46 | -4,687.96 | -9,548.18 | 8,355.34 | 8,271.29 | 84.05 | 99.413 | | |
| 8,600.00 | 6,945.96 | 7,148.60 | 6,736.52 | 56.80 | 52.91 | -86.50 | -4,687.99 | -9,548.22 | 8,261.84 | 8,177.55 | 84.29 | 98.013 | | |
| 8,700.00 | 6,945.58 | 7,150.28 | 6,738.20 | 59.10 | 52.91 | -86.53 | -4,688.03 | -9,548.25 | 8,168.50 | 8,083.92 | 84.58 | 96.575 | | |
| 8,800.00 | 6,945.20 | 7,151.95 | 6,739.87 | 61.44 | 52.92 | -86.56 | -4,688.06 | -9,548.28 | 8,075.32 | 7,990.41 | 84.91 | 95.100 | | |
| 8,900.00 | 6,944.82 | 7,153.63 | 6,741.55 | 63.83 | 52.92 | -86.59 | -4,688.10 | -9,548.31 | 7,982.30 | 7,897.01 | 85.29 | 93.590 | | |
| 9,000.00 | 6,944.44 | 7,155.31 | 6,743.23 | 66.25 | 52.93 | -86.63 | -4,688.13 | -9,548.34 | 7,889.46 | 7,803.74 | 85.71 | 92.045 | | |
| 9,100.00 | 6,944.06 | 7,156.99 | 6,744.91 | 68.71 | 52.93 | -86.66 | -4,688.17 | -9,548.38 | 7,796.79 | 7,710.60 | 86.18 | 90.468 | | |
| 9,200.00 | 6,943.68 | 7,158.68 | 6,746.59 | 71.20 | 52.94 | -86.69 | -4,688.20 | -9,548.41 | 7,704.30 | 7,617.60 | 86.70 | 88.860 | | |
| 9,300.00 | 6,943.30 | 7,160.36 | 6,748.28 | 73.72 | 52.94 | -86.72 | -4,688.24 | -9,548.44 | 7,612.00 | 7,524.73 | 87.27 | 87.222 | | |
| 9,400.00 | 6,942.92 | 7,162.05 | 6,749.96 | 76.26 | 52.95 | -86.76 | -4,688.27 | -9,548.47 | 7,519.90 | 7,432.01 | 87.89 | 85.559 | | |
| 9,500.00 | 6,942.54 | 7,163.74 | 6,751.65 | 78.82 | 52.95 | -86.79 | -4,688.31 | -9,548.50 | 7,428.00 | 7,339.44 | 88.57 | 83.870 | | |
| 9,600.00 | 6,942.16 | 7,165.43 | 6,753.34 | 81.40 | 52.96 | -86.82 | -4,688.34 | -9,548.54 | 7,336.32 | 7,247.03 | 89.29 | 82.160 | | |
| 9,700.00 | 6,941.78 | 7,167.12 | 6,755.03 | 84.00 | 52.96 | -86.86 | -4,688.37 | -9,548.57 | 7,244.85 | 7,154.78 | 90.07 | 80.431 | | |
| 9,800.00 | 6,941.40 | 7,168.82 | 6,756.73 | 86.62 | 52.97 | -86.89 | -4,688.41 | -9,548.60 | 7,153.62 | 7,062.70 | 90.91 | 78.686 | | |
| 9,900.00 | 6,941.03 | 7,170.51 | 6,758.42 | 89.25 | 52.97 | -86.92 | -4,688.44 | -9,548.63 | 7,062.61 | 6,970.81 | 91.81 | 76.927 | | |
| 10,000.00 | 6,940.65 | 7,172.21 | 6,760.12 | 91.90 | 52.98 | -86.95 | -4,688.48 | -9,548.67 | 6,971.86 | 6,879.10 | 92.76 | 75.158 | | |
| 10,100.00 | 6,940.27 | 7,173.91 | 6,761.82 | 94.56 | 52.98 | -86.99 | -4,688.51 | -9,548.70 | 6,881.36 | 6,787.59 | 93.78 | 73.381 | | |
| 10,200.00 | 6,939.89 | 7,175.61 | 6,763.52 | 97.23 | 52.99 | -87.02 | -4,688.54 | -9,548.73 | 6,791.13 | 6,696.28 | 94.85 | 71.600 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - HOOD 6-2-20(PR_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 82-MWDD | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,300.00 | 6,939.51 | 7,177.32 | 6,765.23 | 99.91 | 52.99 | -87.05 | -4,688.58 | -9,548.77 | 6,701.17 | 6,605.19 | 95.98 | 69.816 | |
| 10,400.00 | 6,939.13 | 7,179.02 | 6,766.93 | 102.60 | 53.00 | -87.09 | -4,688.61 | -9,548.80 | 6,611.51 | 6,514.33 | 97.18 | 68.034 | |
| 10,500.00 | 6,938.75 | 7,180.73 | 6,768.64 | 105.30 | 53.00 | -87.12 | -4,688.65 | -9,548.83 | 6,522.14 | 6,423.70 | 98.44 | 66.255 | |
| 10,600.00 | 6,938.37 | 7,182.44 | 6,770.35 | 108.00 | 53.01 | -87.15 | -4,688.68 | -9,548.86 | 6,433.08 | 6,333.32 | 99.76 | 64.483 | |
| 10,700.00 | 6,937.99 | 7,184.15 | 6,772.06 | 110.72 | 53.01 | -87.19 | -4,688.71 | -9,548.90 | 6,344.36 | 6,243.20 | 101.15 | 62.720 | |
| 10,800.00 | 6,937.61 | 7,185.87 | 6,773.77 | 113.44 | 53.02 | -87.22 | -4,688.75 | -9,548.93 | 6,255.97 | 6,153.36 | 102.61 | 60.968 | |
| 10,900.00 | 6,937.23 | 7,187.58 | 6,775.49 | 116.17 | 53.02 | -87.25 | -4,688.78 | -9,548.96 | 6,167.93 | 6,063.80 | 104.14 | 59.230 | |
| 11,000.00 | 6,936.85 | 7,189.30 | 6,777.21 | 118.90 | 53.03 | -87.29 | -4,688.81 | -9,549.00 | 6,080.27 | 5,974.54 | 105.73 | 57.508 | |
| 11,100.00 | 6,936.47 | 7,191.02 | 6,778.92 | 121.64 | 53.03 | -87.32 | -4,688.84 | -9,549.03 | 5,992.99 | 5,885.59 | 107.39 | 55.804 | |
| 11,200.00 | 6,936.09 | 7,192.74 | 6,780.65 | 124.39 | 53.04 | -87.35 | -4,688.88 | -9,549.06 | 5,906.11 | 5,796.98 | 109.13 | 54.120 | |
| 11,300.00 | 6,935.71 | 7,194.47 | 6,782.37 | 127.14 | 53.04 | -87.39 | -4,688.91 | -9,549.10 | 5,819.65 | 5,708.71 | 110.94 | 52.458 | |
| 11,400.00 | 6,935.34 | 7,196.19 | 6,784.09 | 129.90 | 53.05 | -87.42 | -4,688.94 | -9,549.13 | 5,733.64 | 5,620.81 | 112.82 | 50.820 | |
| 11,500.00 | 6,934.96 | 7,197.92 | 6,785.82 | 132.66 | 53.05 | -87.45 | -4,688.98 | -9,549.16 | 5,648.08 | 5,533.30 | 114.78 | 49.206 | |
| 11,600.00 | 6,934.58 | 7,199.65 | 6,787.55 | 135.42 | 53.06 | -87.49 | -4,689.01 | -9,549.20 | 5,563.01 | 5,446.19 | 116.82 | 47.619 | |
| 11,700.00 | 6,934.20 | 7,201.38 | 6,789.28 | 138.19 | 53.06 | -87.52 | -4,689.04 | -9,549.23 | 5,478.44 | 5,359.50 | 118.94 | 46.060 | |
| 11,800.00 | 6,933.82 | 7,203.12 | 6,791.01 | 140.96 | 53.07 | -87.56 | -4,689.07 | -9,549.26 | 5,394.39 | 5,273.25 | 121.14 | 44.530 | |
| 11,900.00 | 6,933.44 | 7,204.85 | 6,792.75 | 143.74 | 53.07 | -87.59 | -4,689.11 | -9,549.30 | 5,310.90 | 5,187.48 | 123.42 | 43.030 | |
| 12,000.00 | 6,933.06 | 7,206.59 | 6,794.49 | 146.51 | 53.08 | -87.62 | -4,689.14 | -9,549.33 | 5,227.99 | 5,102.20 | 125.79 | 41.560 | |
| 12,100.00 | 6,932.68 | 7,208.33 | 6,796.22 | 149.30 | 53.08 | -87.66 | -4,689.17 | -9,549.36 | 5,145.69 | 5,017.44 | 128.25 | 40.123 | |
| 12,200.00 | 6,932.30 | 7,210.07 | 6,797.96 | 152.08 | 53.09 | -87.69 | -4,689.20 | -9,549.40 | 5,064.02 | 4,933.23 | 130.79 | 38.718 | |
| 12,300.00 | 6,931.92 | 7,211.81 | 6,799.71 | 154.87 | 53.09 | -87.72 | -4,689.24 | -9,549.43 | 4,983.02 | 4,849.59 | 133.43 | 37.346 | |
| 12,400.00 | 6,931.54 | 7,213.56 | 6,801.45 | 157.66 | 53.10 | -87.76 | -4,689.27 | -9,549.47 | 4,902.72 | 4,766.56 | 136.16 | 36.008 | |
| 12,500.00 | 6,931.16 | 7,215.31 | 6,803.20 | 160.45 | 53.10 | -87.79 | -4,689.30 | -9,549.50 | 4,823.16 | 4,684.17 | 138.98 | 34.704 | |
| 12,600.00 | 6,930.78 | 7,217.05 | 6,804.95 | 163.24 | 53.11 | -87.83 | -4,689.33 | -9,549.53 | 4,744.36 | 4,602.46 | 141.90 | 33.434 | |
| 12,700.00 | 6,930.40 | 7,218.81 | 6,806.70 | 166.04 | 53.11 | -87.86 | -4,689.36 | -9,549.57 | 4,666.39 | 4,521.46 | 144.92 | 32.199 | |
| 12,800.00 | 6,930.03 | 7,220.56 | 6,808.45 | 168.84 | 53.12 | -87.89 | -4,689.39 | -9,549.60 | 4,589.26 | 4,441.22 | 148.04 | 30.999 | |
| 12,900.00 | 6,929.65 | 7,222.32 | 6,810.21 | 171.64 | 53.12 | -87.93 | -4,689.43 | -9,549.64 | 4,513.03 | 4,361.77 | 151.27 | 29.835 | |
| 13,000.00 | 6,929.27 | 7,224.07 | 6,811.96 | 174.44 | 53.13 | -87.96 | -4,689.46 | -9,549.67 | 4,437.75 | 4,283.15 | 154.59 | 28.706 | |
| 13,100.00 | 6,928.89 | 7,225.83 | 6,813.72 | 177.24 | 53.13 | -88.00 | -4,689.49 | -9,549.70 | 4,363.46 | 4,205.43 | 158.03 | 27.612 | |
| 13,200.00 | 6,928.51 | 7,227.59 | 6,815.48 | 180.05 | 53.14 | -88.03 | -4,689.52 | -9,549.74 | 4,290.21 | 4,128.64 | 161.57 | 26.553 | |
| 13,300.00 | 6,928.13 | 7,229.36 | 6,817.25 | 182.86 | 53.14 | -88.07 | -4,689.55 | -9,549.77 | 4,218.06 | 4,052.84 | 165.22 | 25.530 | |
| 13,400.00 | 6,927.75 | 7,231.12 | 6,819.01 | 185.67 | 53.15 | -88.10 | -4,689.58 | -9,549.81 | 4,147.07 | 3,978.08 | 168.98 | 24.542 | |
| 13,500.00 | 6,927.37 | 7,232.89 | 6,820.78 | 188.48 | 53.15 | -88.13 | -4,689.61 | -9,549.84 | 4,077.29 | 3,904.44 | 172.85 | 23.589 | |
| 13,600.00 | 6,926.99 | 7,234.66 | 6,822.55 | 191.29 | 53.16 | -88.17 | -4,689.64 | -9,549.88 | 4,008.79 | 3,831.96 | 176.83 | 22.670 | |
| 13,700.00 | 6,926.61 | 7,236.43 | 6,824.32 | 194.10 | 53.16 | -88.20 | -4,689.68 | -9,549.91 | 3,941.64 | 3,760.72 | 180.92 | 21.787 | |
| 13,800.00 | 6,926.23 | 7,238.21 | 6,826.09 | 196.92 | 53.17 | -88.24 | -4,689.71 | -9,549.95 | 3,875.90 | 3,690.78 | 185.12 | 20.937 | |
| 13,900.00 | 6,925.85 | 7,239.98 | 6,827.87 | 199.73 | 53.17 | -88.27 | -4,689.74 | -9,549.98 | 3,811.65 | 3,622.23 | 189.42 | 20.122 | |
| 14,000.00 | 6,925.47 | 7,241.76 | 6,829.64 | 202.55 | 53.18 | -88.31 | -4,689.77 | -9,550.02 | 3,748.97 | 3,555.13 | 193.84 | 19.341 | |
| 14,100.00 | 6,925.09 | 7,243.54 | 6,831.42 | 205.37 | 53.18 | -88.34 | -4,689.80 | -9,550.05 | 3,687.94 | 3,489.59 | 198.35 | 18.593 | |
| 14,200.00 | 6,924.71 | 7,245.32 | 6,833.20 | 208.19 | 53.19 | -88.38 | -4,689.83 | -9,550.09 | 3,628.63 | 3,425.67 | 202.96 | 17.878 | |
| 14,300.00 | 6,924.34 | 7,247.10 | 6,834.99 | 211.01 | 53.19 | -88.41 | -4,689.86 | -9,550.12 | 3,571.14 | 3,363.47 | 207.67 | 17.196 | |
| 14,400.00 | 6,923.96 | 7,248.89 | 6,836.77 | 213.83 | 53.20 | -88.45 | -4,689.89 | -9,550.16 | 3,515.55 | 3,303.09 | 212.46 | 16.547 | |
| 14,500.00 | 6,923.58 | 7,250.68 | 6,838.56 | 216.65 | 53.20 | -88.48 | -4,689.92 | -9,550.19 | 3,461.96 | 3,244.62 | 217.34 | 15.929 | |
| 14,600.00 | 6,923.20 | 7,252.47 | 6,840.35 | 219.48 | 53.21 | -88.51 | -4,689.95 | -9,550.23 | 3,410.46 | 3,188.17 | 222.29 | 15.342 | |
| 14,700.00 | 6,922.82 | 7,254.26 | 6,842.14 | 222.30 | 53.21 | -88.55 | -4,689.98 | -9,550.26 | 3,361.14 | 3,133.84 | 227.30 | 14.787 | |
| 14,800.00 | 6,922.44 | 7,256.06 | 6,843.94 | 225.13 | 53.22 | -88.58 | -4,690.01 | -9,550.30 | 3,314.11 | 3,081.74 | 232.37 | 14.262 | |
| 14,900.00 | 6,922.06 | 7,257.85 | 6,845.73 | 227.95 | 53.22 | -88.62 | -4,690.04 | -9,550.33 | 3,269.46 | 3,031.98 | 237.47 | 13.768 | |
| 14,915.55 | 6,922.00 | 7,258.13 | 6,846.01 | 228.39 | 53.22 | -88.63 | -4,690.04 | -9,550.34 | 3,262.73 | 3,024.46 | 238.27 | 13.693 CC, ES, SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 1 21-2(SI_75CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 63.00 | 3.28 | 3.28 | -129.02 | -3,982.82 | -4,914.98 | 6,326.44 | | | | |
| 100.00 | 100.00 | 47.67 | 110.67 | 3.28 | 3.28 | -129.02 | -3,982.67 | -4,915.05 | 6,326.09 | 6,319.53 | 6.57 | 963.398 | |
| 200.00 | 200.00 | 177.53 | 240.51 | 3.34 | 3.33 | -129.00 | -3,980.88 | -4,915.82 | 6,325.69 | 6,319.03 | 6.67 | 948.992 | |
| 300.00 | 299.98 | 274.66 | 337.63 | 3.44 | 3.43 | 45.67 | -3,979.01 | -4,916.51 | 6,323.81 | 6,316.94 | 6.87 | 921.128 | |
| 400.00 | 399.84 | 372.49 | 435.44 | 3.59 | 3.57 | 45.78 | -3,977.44 | -4,917.07 | 6,319.59 | 6,312.43 | 7.16 | 882.742 | |
| 500.00 | 499.45 | 475.74 | 538.68 | 3.79 | 3.76 | 45.95 | -3,975.99 | -4,917.46 | 6,312.92 | 6,305.37 | 7.55 | 835.828 | |
| 600.00 | 598.70 | 592.64 | 655.57 | 4.03 | 4.03 | 46.19 | -3,974.41 | -4,917.62 | 6,303.70 | 6,295.63 | 8.06 | 781.807 | |
| 700.00 | 697.47 | 681.82 | 744.74 | 4.31 | 4.26 | 46.46 | -3,973.27 | -4,917.57 | 6,291.98 | 6,283.41 | 8.58 | 733.696 | |
| 800.00 | 795.62 | 780.92 | 843.83 | 4.64 | 4.54 | 46.80 | -3,972.23 | -4,917.47 | 6,278.01 | 6,268.84 | 9.17 | 684.397 | |
| 900.00 | 893.06 | 868.97 | 931.87 | 5.00 | 4.81 | 47.18 | -3,971.30 | -4,917.39 | 6,261.74 | 6,251.95 | 9.79 | 639.708 | |
| 1,000.00 | 989.78 | 958.75 | 1,021.66 | 5.39 | 5.10 | 47.46 | -3,970.45 | -4,917.44 | 6,243.69 | 6,233.24 | 10.45 | 597.426 | |
| 1,100.00 | 1,086.42 | 1,060.62 | 1,123.52 | 5.81 | 5.44 | 47.65 | -3,969.46 | -4,917.54 | 6,225.49 | 6,214.31 | 11.18 | 556.664 | |
| 1,200.00 | 1,183.06 | 1,154.36 | 1,217.26 | 6.25 | 5.77 | 47.82 | -3,968.50 | -4,917.55 | 6,207.26 | 6,195.34 | 11.92 | 520.805 | |
| 1,300.00 | 1,279.69 | 1,238.55 | 1,301.44 | 6.71 | 6.07 | 47.98 | -3,967.66 | -4,917.71 | 6,189.24 | 6,176.60 | 12.64 | 489.511 | |
| 1,400.00 | 1,376.33 | 1,322.76 | 1,385.65 | 7.17 | 6.37 | 48.14 | -3,967.06 | -4,917.92 | 6,171.49 | 6,158.10 | 13.39 | 460.996 | |
| 1,500.00 | 1,472.97 | 1,412.35 | 1,475.24 | 7.65 | 6.70 | 48.30 | -3,966.67 | -4,918.14 | 6,153.95 | 6,139.79 | 14.17 | 434.422 | |
| 1,600.00 | 1,569.61 | 1,518.08 | 1,580.97 | 8.13 | 7.10 | 48.50 | -3,966.19 | -4,918.33 | 6,136.43 | 6,121.41 | 15.02 | 408.616 | |
| 1,700.00 | 1,666.24 | 1,611.90 | 1,674.79 | 8.62 | 7.46 | 48.68 | -3,965.90 | -4,918.37 | 6,118.94 | 6,103.10 | 15.84 | 386.330 | |
| 1,800.00 | 1,762.88 | 1,712.98 | 1,775.87 | 9.12 | 7.85 | 48.86 | -3,965.56 | -4,918.39 | 6,101.48 | 6,084.78 | 16.70 | 365.418 | |
| 1,900.00 | 1,859.52 | 1,803.92 | 1,866.80 | 9.62 | 8.21 | 49.03 | -3,965.28 | -4,918.40 | 6,084.10 | 6,066.57 | 17.53 | 347.127 | |
| 2,000.00 | 1,956.16 | 1,877.41 | 1,940.29 | 10.13 | 8.50 | 49.17 | -3,965.22 | -4,918.52 | 6,067.01 | 6,048.71 | 18.30 | 331.574 | |
| 2,100.00 | 2,052.79 | 1,959.89 | 2,022.78 | 10.64 | 8.82 | 49.33 | -3,965.30 | -4,918.87 | 6,050.30 | 6,031.19 | 19.11 | 316.638 | |
| 2,200.00 | 2,149.43 | 2,049.79 | 2,112.67 | 11.15 | 9.18 | 49.50 | -3,965.46 | -4,919.39 | 6,033.81 | 6,013.86 | 19.95 | 302.416 | |
| 2,300.00 | 2,246.07 | 2,144.26 | 2,207.15 | 11.66 | 9.56 | 49.68 | -3,965.73 | -4,919.93 | 6,017.45 | 5,996.63 | 20.82 | 289.035 | |
| 2,400.00 | 2,342.71 | 2,236.87 | 2,299.75 | 12.18 | 9.93 | 49.86 | -3,965.91 | -4,920.56 | 6,001.18 | 5,979.50 | 21.68 | 276.754 | |
| 2,500.00 | 2,439.34 | 2,328.16 | 2,391.03 | 12.70 | 10.30 | 50.03 | -3,966.09 | -4,921.31 | 5,985.09 | 5,962.54 | 22.55 | 265.428 | |
| 2,600.00 | 2,535.98 | 2,425.12 | 2,487.99 | 13.22 | 10.69 | 50.22 | -3,966.24 | -4,922.14 | 5,969.07 | 5,945.63 | 23.44 | 254.661 | |
| 2,700.00 | 2,632.62 | 2,515.59 | 2,578.46 | 13.75 | 11.06 | 50.40 | -3,966.44 | -4,922.95 | 5,953.18 | 5,928.87 | 24.31 | 244.901 | |
| 2,800.00 | 2,729.26 | 2,604.65 | 2,667.51 | 14.27 | 11.43 | 50.58 | -3,966.54 | -4,923.94 | 5,937.46 | 5,912.29 | 25.18 | 235.840 | |
| 2,900.00 | 2,825.89 | 2,686.18 | 2,749.04 | 14.80 | 11.76 | 50.74 | -3,966.64 | -4,925.03 | 5,922.01 | 5,895.99 | 26.02 | 227.620 | |
| 3,000.00 | 2,922.53 | 2,773.80 | 2,836.64 | 15.32 | 12.12 | 50.92 | -3,966.68 | -4,926.24 | 5,906.83 | 5,879.95 | 26.88 | 219.711 | |
| 3,100.00 | 3,019.17 | 2,863.88 | 2,926.71 | 15.85 | 12.49 | 51.10 | -3,967.29 | -4,927.72 | 5,891.84 | 5,864.08 | 27.76 | 212.210 | |
| 3,200.00 | 3,115.81 | 2,953.75 | 3,016.57 | 16.38 | 12.86 | 51.28 | -3,967.90 | -4,929.07 | 5,877.03 | 5,848.39 | 28.65 | 205.166 | |
| 3,300.00 | 3,212.44 | 3,052.72 | 3,115.52 | 16.91 | 13.27 | 51.48 | -3,968.56 | -4,930.67 | 5,862.38 | 5,832.81 | 29.56 | 198.294 | |
| 3,400.00 | 3,309.08 | 3,218.11 | 3,280.90 | 17.44 | 13.96 | 51.81 | -3,969.30 | -4,932.38 | 5,847.23 | 5,816.49 | 30.74 | 190.212 | |
| 3,500.00 | 3,405.72 | 3,301.87 | 3,364.67 | 17.97 | 14.31 | 51.98 | -3,969.46 | -4,932.88 | 5,831.63 | 5,800.03 | 31.60 | 184.516 | |
| 3,600.00 | 3,502.36 | 3,419.45 | 3,482.24 | 18.50 | 14.80 | 52.22 | -3,969.52 | -4,933.58 | 5,816.03 | 5,783.43 | 32.60 | 178.404 | |
| 3,700.00 | 3,598.99 | 3,505.20 | 3,567.99 | 19.03 | 15.16 | 52.40 | -3,969.66 | -4,933.99 | 5,800.46 | 5,766.99 | 33.48 | 173.273 | |
| 3,800.00 | 3,695.63 | 3,579.67 | 3,642.45 | 19.57 | 15.47 | 52.55 | -3,969.84 | -4,934.53 | 5,785.20 | 5,750.89 | 34.31 | 168.616 | |
| 3,900.00 | 3,792.27 | 3,656.36 | 3,719.14 | 20.10 | 15.79 | 52.71 | -3,970.01 | -4,935.42 | 5,770.37 | 5,735.21 | 35.15 | 164.146 | |
| 4,000.00 | 3,888.91 | 3,737.84 | 3,800.61 | 20.63 | 16.13 | 52.88 | -3,970.19 | -4,936.68 | 5,755.92 | 5,719.90 | 36.02 | 159.808 | |
| 4,100.00 | 3,985.54 | 3,825.72 | 3,888.47 | 21.17 | 16.50 | 53.07 | -3,970.51 | -4,938.16 | 5,741.73 | 5,704.82 | 36.91 | 155.571 | |
| 4,200.00 | 4,082.18 | 3,911.90 | 3,974.64 | 21.70 | 16.86 | 53.25 | -3,971.07 | -4,939.60 | 5,727.75 | 5,689.96 | 37.79 | 151.561 | |
| 4,300.00 | 4,178.82 | 3,980.41 | 4,043.14 | 22.24 | 17.15 | 53.40 | -3,971.77 | -4,940.88 | 5,714.20 | 5,675.60 | 38.61 | 148.003 | |
| 4,400.00 | 4,275.46 | 4,053.30 | 4,116.01 | 22.77 | 17.46 | 53.55 | -3,972.82 | -4,942.46 | 5,701.19 | 5,661.74 | 39.44 | 144.541 | |
| 4,500.00 | 4,372.09 | 4,126.69 | 4,189.36 | 23.31 | 17.77 | 53.70 | -3,974.25 | -4,944.16 | 5,688.63 | 5,648.35 | 40.28 | 141.225 | |
| 4,600.00 | 4,468.73 | 4,200.01 | 4,262.63 | 23.84 | 18.08 | 53.85 | -3,975.97 | -4,946.07 | 5,676.58 | 5,635.46 | 41.12 | 138.055 | |
| 4,700.00 | 4,565.37 | 4,329.44 | 4,391.99 | 24.38 | 18.62 | 54.11 | -3,978.84 | -4,949.38 | 5,664.50 | 5,622.32 | 42.18 | 134.298 | |
| 4,800.00 | 4,662.01 | 4,437.91 | 4,500.41 | 24.91 | 19.08 | 54.34 | -3,980.59 | -4,952.05 | 5,652.11 | 5,608.95 | 43.16 | 130.967 | |
| 4,900.00 | 4,758.64 | 4,564.63 | 4,627.08 | 25.45 | 19.62 | 54.62 | -3,982.06 | -4,955.15 | 5,639.58 | 5,595.38 | 44.21 | 127.573 | |
| 5,000.00 | 4,855.28 | 4,704.10 | 4,766.53 | 25.99 | 20.21 | 54.92 | -3,983.21 | -4,957.58 | 5,626.35 | 5,581.04 | 45.31 | 124.188 | |
| 5,100.00 | 4,951.92 | 4,824.16 | 4,886.58 | 26.53 | 20.71 | 55.18 | -3,983.96 | -4,958.98 | 5,612.61 | 5,566.28 | 46.33 | 121.149 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 1 21-2(SI_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,919.12 | 4,981.53 | 27.06 | 21.11 | 55.39 | -3,984.55 | -4,959.95 | 5,598.83 | 5,551.58 | 47.26 | 118.476 | | |
| 5,300.00 | 5,145.19 | 5,024.38 | 5,086.78 | 27.60 | 21.56 | 55.62 | -3,984.94 | -4,961.10 | 5,585.08 | 5,536.85 | 48.23 | 115.811 | | |
| 5,400.00 | 5,241.83 | 5,129.77 | 5,192.17 | 28.14 | 22.01 | 55.86 | -3,984.99 | -4,962.21 | 5,571.22 | 5,522.02 | 49.20 | 113.246 | | |
| 5,500.00 | 5,338.47 | 5,226.29 | 5,288.68 | 28.67 | 22.41 | 56.08 | -3,984.64 | -4,963.42 | 5,557.41 | 5,507.28 | 50.13 | 110.853 | | |
| 5,600.00 | 5,435.11 | 5,323.47 | 5,385.86 | 29.21 | 22.83 | 56.31 | -3,984.11 | -4,964.65 | 5,543.62 | 5,492.55 | 51.07 | 108.542 | | |
| 5,700.00 | 5,531.74 | 5,401.81 | 5,464.18 | 29.75 | 23.16 | 56.49 | -3,983.91 | -4,965.72 | 5,530.13 | 5,478.19 | 51.95 | 106.461 | | |
| 5,800.00 | 5,628.38 | 5,524.42 | 5,586.79 | 30.29 | 23.68 | 56.78 | -3,983.46 | -4,967.18 | 5,516.51 | 5,463.53 | 52.98 | 104.121 | | |
| 5,900.00 | 5,725.02 | 5,600.01 | 5,662.37 | 30.83 | 24.00 | 56.96 | -3,983.44 | -4,968.02 | 5,503.09 | 5,449.25 | 53.84 | 102.203 | | |
| 6,000.00 | 5,821.66 | 5,679.68 | 5,742.03 | 31.37 | 24.34 | 57.14 | -3,983.68 | -4,969.07 | 5,490.09 | 5,435.37 | 54.72 | 100.324 | | |
| 6,100.00 | 5,918.29 | 5,773.48 | 5,835.82 | 31.90 | 24.74 | 57.36 | -3,984.00 | -4,970.51 | 5,477.37 | 5,421.71 | 55.66 | 98.415 | | |
| 6,200.00 | 6,014.93 | 5,854.72 | 5,917.05 | 32.44 | 25.08 | 57.55 | -3,984.38 | -4,971.78 | 5,464.83 | 5,408.29 | 56.54 | 96.651 | | |
| 6,300.00 | 6,111.57 | 5,937.34 | 5,999.66 | 32.98 | 25.43 | 57.74 | -3,984.55 | -4,973.53 | 5,452.73 | 5,395.29 | 57.43 | 94.940 | | |
| 6,400.00 | 6,208.21 | 6,039.25 | 6,101.54 | 33.52 | 25.87 | 57.99 | -3,984.61 | -4,975.84 | 5,440.79 | 5,382.39 | 58.40 | 93.165 | | |
| 6,500.00 | 6,304.84 | 6,135.85 | 6,198.11 | 34.06 | 26.28 | 58.22 | -3,984.82 | -4,977.77 | 5,428.77 | 5,369.43 | 59.35 | 91.478 | | |
| 6,600.00 | 6,401.37 | 6,211.62 | 6,273.86 | 34.60 | 26.60 | 41.38 | -3,984.73 | -4,979.66 | 5,415.19 | 5,354.98 | 60.21 | 89.940 | | |
| 6,700.00 | 6,496.25 | 6,293.56 | 6,355.77 | 35.12 | 26.95 | 17.96 | -3,984.89 | -4,981.85 | 5,389.75 | 5,328.69 | 61.06 | 88.272 | | |
| 6,800.00 | 6,587.15 | 6,389.83 | 6,452.01 | 35.59 | 27.36 | 3.88 | -3,985.24 | -4,984.45 | 5,351.22 | 5,289.32 | 61.91 | 86.441 | | |
| 6,900.00 | 6,671.83 | 6,473.86 | 6,536.00 | 36.03 | 27.72 | -5.85 | -3,985.25 | -4,986.83 | 5,300.41 | 5,237.76 | 62.64 | 84.613 | | |
| 7,000.00 | 6,748.21 | 6,550.23 | 6,612.34 | 36.41 | 28.04 | -14.17 | -3,985.40 | -4,988.96 | 5,238.62 | 5,175.34 | 63.28 | 82.783 | | |
| 7,100.00 | 6,814.41 | 6,613.27 | 6,675.36 | 36.76 | 28.31 | -22.85 | -3,985.81 | -4,990.59 | 5,167.41 | 5,103.62 | 63.79 | 81.003 | | |
| 7,200.00 | 6,868.79 | 6,656.31 | 6,718.39 | 37.07 | 28.50 | -33.20 | -3,986.07 | -4,991.83 | 5,088.70 | 5,024.55 | 64.16 | 79.319 | | |
| 7,300.00 | 6,910.01 | 6,689.99 | 6,752.04 | 37.39 | 28.64 | -46.43 | -3,986.19 | -4,992.92 | 5,004.48 | 4,940.07 | 64.41 | 77.692 | | |
| 7,400.00 | 6,937.07 | 6,713.00 | 6,775.04 | 37.76 | 28.74 | -62.86 | -3,986.24 | -4,993.74 | 4,916.87 | 4,852.29 | 64.58 | 76.134 | | |
| 7,500.00 | 6,949.29 | 6,724.97 | 6,787.00 | 38.27 | 28.79 | -80.69 | -3,986.25 | -4,994.18 | 4,828.10 | 4,763.43 | 64.68 | 74.648 | | |
| 7,600.00 | 6,949.75 | 6,728.21 | 6,790.24 | 39.02 | 28.80 | -86.37 | -3,986.25 | -4,994.31 | 4,740.04 | 4,675.29 | 64.75 | 73.203 | | |
| 7,700.00 | 6,949.37 | 6,730.86 | 6,792.88 | 40.05 | 28.81 | -86.44 | -3,986.25 | -4,994.41 | 4,652.53 | 4,587.63 | 64.89 | 71.696 | | |
| 7,800.00 | 6,948.99 | 6,733.55 | 6,795.57 | 41.35 | 28.82 | -86.51 | -3,986.25 | -4,994.51 | 4,565.52 | 4,500.41 | 65.11 | 70.121 | | |
| 7,900.00 | 6,948.61 | 6,736.28 | 6,798.31 | 42.86 | 28.84 | -86.58 | -3,986.25 | -4,994.62 | 4,479.06 | 4,413.65 | 65.41 | 68.477 | | |
| 8,000.00 | 6,948.23 | 6,739.06 | 6,801.08 | 44.53 | 28.85 | -86.65 | -3,986.25 | -4,994.73 | 4,393.17 | 4,327.37 | 65.80 | 66.764 | | |
| 8,100.00 | 6,947.85 | 6,741.89 | 6,803.91 | 46.34 | 28.86 | -86.72 | -3,986.25 | -4,994.84 | 4,307.88 | 4,241.59 | 66.29 | 64.984 | | |
| 8,200.00 | 6,947.47 | 6,744.77 | 6,806.78 | 48.26 | 28.87 | -86.79 | -3,986.25 | -4,994.95 | 4,223.24 | 4,156.35 | 66.89 | 63.139 | | |
| 8,300.00 | 6,947.09 | 6,747.69 | 6,809.70 | 50.28 | 28.88 | -86.86 | -3,986.24 | -4,995.07 | 4,139.28 | 4,071.69 | 67.60 | 61.236 | | |
| 8,400.00 | 6,946.72 | 6,750.67 | 6,812.68 | 52.39 | 28.90 | -86.94 | -3,986.24 | -4,995.19 | 4,056.05 | 3,987.62 | 68.42 | 59.278 | | |
| 8,500.00 | 6,946.34 | 6,753.69 | 6,815.70 | 54.56 | 28.91 | -87.01 | -3,986.24 | -4,995.31 | 3,973.58 | 3,904.21 | 69.38 | 57.275 | | |
| 8,600.00 | 6,945.96 | 6,756.78 | 6,818.78 | 56.80 | 28.92 | -87.09 | -3,986.24 | -4,995.44 | 3,891.94 | 3,821.48 | 70.46 | 55.235 | | |
| 8,700.00 | 6,945.58 | 6,759.91 | 6,821.91 | 59.10 | 28.94 | -87.17 | -3,986.23 | -4,995.57 | 3,811.17 | 3,739.48 | 71.68 | 53.166 | | |
| 8,800.00 | 6,945.20 | 6,763.10 | 6,825.10 | 61.44 | 28.95 | -87.25 | -3,986.23 | -4,995.70 | 3,731.32 | 3,658.28 | 73.05 | 51.080 | | |
| 8,900.00 | 6,944.82 | 6,766.35 | 6,828.35 | 63.83 | 28.96 | -87.33 | -3,986.22 | -4,995.84 | 3,652.47 | 3,577.91 | 74.56 | 48.988 | | |
| 9,000.00 | 6,944.44 | 6,769.66 | 6,831.66 | 66.25 | 28.98 | -87.42 | -3,986.21 | -4,995.98 | 3,574.67 | 3,498.45 | 76.22 | 46.899 | | |
| 9,100.00 | 6,944.06 | 6,773.03 | 6,835.02 | 68.71 | 28.99 | -87.50 | -3,986.21 | -4,996.13 | 3,497.99 | 3,419.96 | 78.03 | 44.826 | | |
| 9,200.00 | 6,943.68 | 6,776.46 | 6,838.45 | 71.20 | 29.01 | -87.59 | -3,986.20 | -4,996.28 | 3,422.52 | 3,342.51 | 80.01 | 42.778 | | |
| 9,300.00 | 6,943.30 | 6,779.96 | 6,841.95 | 73.72 | 29.02 | -87.68 | -3,986.19 | -4,996.43 | 3,348.33 | 3,266.19 | 82.14 | 40.765 | | |
| 9,400.00 | 6,942.92 | 6,783.53 | 6,845.51 | 76.26 | 29.04 | -87.77 | -3,986.18 | -4,996.58 | 3,275.50 | 3,191.07 | 84.43 | 38.796 | | |
| 9,500.00 | 6,942.54 | 6,787.16 | 6,849.13 | 78.82 | 29.05 | -87.86 | -3,986.17 | -4,996.75 | 3,204.14 | 3,117.25 | 86.88 | 36.878 | | |
| 9,600.00 | 6,942.16 | 6,790.86 | 6,852.83 | 81.40 | 29.07 | -87.95 | -3,986.16 | -4,996.91 | 3,134.34 | 3,044.84 | 89.50 | 35.020 | | |
| 9,700.00 | 6,941.78 | 6,794.63 | 6,856.60 | 84.00 | 29.09 | -88.05 | -3,986.15 | -4,997.08 | 3,066.20 | 2,973.92 | 92.28 | 33.228 | | |
| 9,800.00 | 6,941.40 | 6,798.48 | 6,860.45 | 86.62 | 29.10 | -88.14 | -3,986.13 | -4,997.26 | 2,999.85 | 2,904.63 | 95.22 | 31.505 | | |
| 9,900.00 | 6,941.03 | 6,802.41 | 6,864.37 | 89.25 | 29.12 | -88.24 | -3,986.12 | -4,997.44 | 2,935.40 | 2,837.08 | 98.32 | 29.856 | | |
| 10,000.00 | 6,940.65 | 6,806.41 | 6,868.37 | 91.90 | 29.14 | -88.34 | -3,986.10 | -4,997.62 | 2,872.98 | 2,771.41 | 101.57 | 28.286 | | |
| 10,100.00 | 6,940.27 | 6,808.88 | 6,870.83 | 94.56 | 29.15 | -88.41 | -3,986.10 | -4,997.74 | 2,812.72 | 2,707.75 | 104.97 | 26.795 | | |
| 10,200.00 | 6,939.89 | 6,812.34 | 6,874.29 | 97.23 | 29.16 | -88.49 | -3,986.09 | -4,997.90 | 2,754.78 | 2,646.26 | 108.52 | 25.386 | | |
| 10,300.00 | 6,939.51 | 6,815.84 | 6,877.79 | 99.91 | 29.18 | -88.58 | -3,986.08 | -4,998.06 | 2,699.28 | 2,587.09 | 112.20 | 24.059 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 1 21-2(SI_75CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,400.00 | 6,939.13 | 6,819.37 | 6,881.32 | 102.60 | 29.19 | -88.67 | -3,986.07 | -4,998.23 | 2,646.40 | 2,530.41 | 116.00 | 22.814 | |
| 10,500.00 | 6,938.75 | 6,822.95 | 6,884.89 | 105.30 | 29.21 | -88.76 | -3,986.06 | -4,998.40 | 2,596.29 | 2,476.38 | 119.91 | 21.652 | |
| 10,600.00 | 6,938.37 | 6,826.56 | 6,888.49 | 108.00 | 29.22 | -88.85 | -3,986.05 | -4,998.57 | 2,549.12 | 2,425.20 | 123.92 | 20.571 | |
| 10,700.00 | 6,937.99 | 6,830.21 | 6,892.14 | 110.72 | 29.24 | -88.94 | -3,986.04 | -4,998.74 | 2,505.04 | 2,377.04 | 128.00 | 19.571 | |
| 10,800.00 | 6,937.61 | 6,833.89 | 6,895.82 | 113.44 | 29.25 | -89.04 | -3,986.04 | -4,998.92 | 2,464.23 | 2,332.10 | 132.13 | 18.649 | |
| 10,900.00 | 6,937.23 | 6,837.62 | 6,899.54 | 116.17 | 29.27 | -89.13 | -3,986.03 | -4,999.10 | 2,426.85 | 2,290.55 | 136.30 | 17.805 | |
| 11,000.00 | 6,936.85 | 6,841.39 | 6,903.31 | 118.90 | 29.28 | -89.23 | -3,986.02 | -4,999.28 | 2,393.06 | 2,252.59 | 140.47 | 17.037 | |
| 11,100.00 | 6,936.47 | 6,845.20 | 6,907.11 | 121.64 | 29.30 | -89.32 | -3,986.02 | -4,999.47 | 2,363.01 | 2,218.40 | 144.61 | 16.341 | |
| 11,200.00 | 6,936.09 | 6,849.05 | 6,910.95 | 124.39 | 29.32 | -89.42 | -3,986.02 | -4,999.65 | 2,336.85 | 2,188.16 | 148.69 | 15.716 | |
| 11,300.00 | 6,935.71 | 6,852.94 | 6,914.84 | 127.14 | 29.33 | -89.52 | -3,986.01 | -4,999.85 | 2,314.71 | 2,162.03 | 152.68 | 15.160 | |
| 11,400.00 | 6,935.34 | 6,856.87 | 6,918.77 | 129.90 | 29.35 | -89.62 | -3,986.01 | -5,000.04 | 2,296.71 | 2,140.15 | 156.56 | 14.670 | |
| 11,500.00 | 6,934.96 | 6,860.85 | 6,922.74 | 132.66 | 29.37 | -89.72 | -3,986.01 | -5,000.24 | 2,282.94 | 2,122.66 | 160.28 | 14.244 | |
| 11,600.00 | 6,934.58 | 6,864.87 | 6,926.76 | 135.42 | 29.38 | -89.82 | -3,986.01 | -5,000.44 | 2,273.49 | 2,109.67 | 163.82 | 13.878 | |
| 11,700.00 | 6,934.20 | 6,868.94 | 6,930.82 | 138.19 | 29.40 | -89.92 | -3,986.01 | -5,000.64 | 2,268.40 | 2,101.25 | 167.15 | 13.571 | |
| 11,765.83 | 6,933.95 | 6,871.64 | 6,933.52 | 140.01 | 29.41 | -89.99 | -3,986.01 | -5,000.78 | 2,267.44 | 2,098.23 | 169.22 | 13.400 CC | |
| 11,800.00 | 6,933.82 | 6,873.05 | 6,934.93 | 140.96 | 29.42 | -90.02 | -3,986.01 | -5,000.85 | 2,267.70 | 2,097.46 | 170.25 | 13.320 ES | |
| 11,900.00 | 6,933.44 | 6,877.21 | 6,939.09 | 143.74 | 29.44 | -90.13 | -3,986.02 | -5,001.06 | 2,271.40 | 2,098.31 | 173.09 | 13.123 | |
| 12,000.00 | 6,933.06 | 6,881.42 | 6,943.29 | 146.51 | 29.46 | -90.24 | -3,986.02 | -5,001.27 | 2,279.48 | 2,103.82 | 175.67 | 12.976 | |
| 12,100.00 | 6,932.68 | 6,885.68 | 6,947.54 | 149.30 | 29.47 | -90.34 | -3,986.03 | -5,001.49 | 2,291.89 | 2,113.93 | 177.96 | 12.878 | |
| 12,200.00 | 6,932.30 | 6,889.98 | 6,951.84 | 152.08 | 29.49 | -90.45 | -3,986.03 | -5,001.71 | 2,308.56 | 2,128.58 | 179.98 | 12.827 | |
| 12,300.00 | 6,931.92 | 6,894.33 | 6,956.19 | 154.87 | 29.51 | -90.56 | -3,986.04 | -5,001.94 | 2,329.39 | 2,147.68 | 181.71 | 12.819 SF | |
| 12,400.00 | 6,931.54 | 6,898.74 | 6,960.58 | 157.66 | 29.53 | -90.67 | -3,986.05 | -5,002.17 | 2,354.29 | 2,171.12 | 183.16 | 12.853 | |
| 12,500.00 | 6,931.16 | 6,903.20 | 6,965.04 | 160.45 | 29.55 | -90.79 | -3,986.06 | -5,002.40 | 2,383.11 | 2,198.77 | 184.35 | 12.927 | |
| 12,600.00 | 6,930.78 | 6,907.60 | 6,969.44 | 163.24 | 29.57 | -90.90 | -3,986.07 | -5,002.63 | 2,415.73 | 2,230.45 | 185.28 | 13.039 | |
| 12,700.00 | 6,930.40 | 6,912.16 | 6,973.98 | 166.04 | 29.59 | -91.01 | -3,986.08 | -5,002.88 | 2,451.98 | 2,266.02 | 185.96 | 13.185 | |
| 12,800.00 | 6,930.03 | 6,916.80 | 6,978.62 | 168.84 | 29.61 | -91.13 | -3,986.10 | -5,003.13 | 2,491.71 | 2,305.29 | 186.42 | 13.366 | |
| 12,900.00 | 6,929.65 | 6,921.54 | 6,983.35 | 171.64 | 29.63 | -91.25 | -3,986.12 | -5,003.38 | 2,534.76 | 2,348.08 | 186.68 | 13.578 | |
| 13,000.00 | 6,929.27 | 6,926.38 | 6,988.19 | 174.44 | 29.65 | -91.37 | -3,986.14 | -5,003.65 | 2,580.96 | 2,394.21 | 186.74 | 13.821 | |
| 13,100.00 | 6,928.89 | 6,931.32 | 6,993.12 | 177.24 | 29.67 | -91.50 | -3,986.16 | -5,003.92 | 2,630.13 | 2,443.49 | 186.64 | 14.092 | |
| 13,200.00 | 6,928.51 | 6,936.36 | 6,998.15 | 180.05 | 29.69 | -91.62 | -3,986.18 | -5,004.20 | 2,682.13 | 2,495.74 | 186.39 | 14.390 | |
| 13,300.00 | 6,928.13 | 6,941.52 | 7,003.30 | 182.86 | 29.71 | -91.75 | -3,986.21 | -5,004.50 | 2,736.79 | 2,550.77 | 186.01 | 14.713 | |
| 13,400.00 | 6,927.75 | 6,946.78 | 7,008.55 | 185.67 | 29.73 | -91.88 | -3,986.24 | -5,004.80 | 2,793.94 | 2,608.43 | 185.52 | 15.060 | |
| 13,500.00 | 6,927.37 | 6,952.16 | 7,013.92 | 188.48 | 29.76 | -92.02 | -3,986.27 | -5,005.11 | 2,853.45 | 2,668.52 | 184.93 | 15.430 | |
| 13,600.00 | 6,926.99 | 6,957.66 | 7,019.41 | 191.29 | 29.78 | -92.16 | -3,986.31 | -5,005.43 | 2,915.16 | 2,730.91 | 184.25 | 15.822 | |
| 13,700.00 | 6,926.61 | 6,963.28 | 7,025.02 | 194.10 | 29.80 | -92.30 | -3,986.35 | -5,005.76 | 2,978.95 | 2,795.44 | 183.51 | 16.234 | |
| 13,800.00 | 6,926.23 | 6,969.03 | 7,030.76 | 196.92 | 29.83 | -92.45 | -3,986.39 | -5,006.10 | 3,044.67 | 2,861.96 | 182.70 | 16.664 | |
| 13,900.00 | 6,925.85 | 6,974.91 | 7,036.63 | 199.73 | 29.85 | -92.59 | -3,986.44 | -5,006.45 | 3,112.20 | 2,930.35 | 181.86 | 17.113 | |
| 14,000.00 | 6,925.47 | 6,980.92 | 7,042.64 | 202.55 | 29.88 | -92.74 | -3,986.49 | -5,006.82 | 3,181.44 | 3,000.46 | 180.97 | 17.580 | |
| 14,100.00 | 6,925.09 | 6,987.08 | 7,048.78 | 205.37 | 29.91 | -92.90 | -3,986.55 | -5,007.19 | 3,252.26 | 3,072.20 | 180.06 | 18.062 | |
| 14,200.00 | 6,924.71 | 6,993.38 | 7,055.07 | 208.19 | 29.93 | -93.06 | -3,986.61 | -5,007.58 | 3,324.58 | 3,145.45 | 179.13 | 18.559 | |
| 14,300.00 | 6,924.34 | 6,999.84 | 7,061.51 | 211.01 | 29.96 | -93.22 | -3,986.67 | -5,007.99 | 3,398.29 | 3,220.10 | 178.19 | 19.071 | |
| 14,400.00 | 6,923.96 | 7,006.45 | 7,068.11 | 213.83 | 29.99 | -93.39 | -3,986.74 | -5,008.41 | 3,473.30 | 3,296.06 | 177.24 | 19.597 | |
| 14,500.00 | 6,923.58 | 7,013.22 | 7,074.86 | 216.65 | 30.02 | -93.56 | -3,986.82 | -5,008.84 | 3,549.53 | 3,373.24 | 176.29 | 20.135 | |
| 14,600.00 | 6,923.20 | 7,015.93 | 7,077.57 | 219.48 | 30.03 | -93.62 | -3,986.85 | -5,009.01 | 3,626.92 | 3,451.60 | 175.32 | 20.688 | |
| 14,700.00 | 6,922.82 | 7,021.30 | 7,082.93 | 222.30 | 30.05 | -93.76 | -3,986.91 | -5,009.34 | 3,705.37 | 3,531.01 | 174.36 | 21.251 | |
| 14,800.00 | 6,922.44 | 7,026.67 | 7,088.28 | 225.13 | 30.08 | -93.89 | -3,986.97 | -5,009.68 | 3,784.84 | 3,611.42 | 173.42 | 21.825 | |
| 14,900.00 | 6,922.06 | 7,032.04 | 7,093.65 | 227.95 | 30.10 | -94.03 | -3,987.04 | -5,010.02 | 3,865.25 | 3,692.76 | 172.48 | 22.410 | |
| 14,915.55 | 6,922.00 | 7,032.88 | 7,094.48 | 228.39 | 30.10 | -94.05 | -3,987.05 | -5,010.08 | 3,877.83 | 3,705.49 | 172.34 | 22.501 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 25.00 | 72.00 | 3.28 | 3.28 | -147.23 | -5,113.11 | -3,291.92 | 6,081.59 | | | | | |
| 100.00 | 100.00 | 90.01 | 137.01 | 3.28 | 3.28 | -147.23 | -5,112.96 | -3,291.79 | 6,081.08 | 6,074.52 | 6.57 | 925.867 | | |
| 200.00 | 200.00 | 191.96 | 238.96 | 3.34 | 3.33 | -147.22 | -5,112.20 | -3,291.60 | 6,080.36 | 6,073.69 | 6.67 | 912.205 | | |
| 300.00 | 299.98 | 263.35 | 310.35 | 3.44 | 3.39 | 27.42 | -5,111.70 | -3,291.81 | 6,078.38 | 6,071.55 | 6.83 | 889.536 | | |
| 400.00 | 399.84 | 354.14 | 401.14 | 3.59 | 3.51 | 27.49 | -5,111.61 | -3,291.93 | 6,073.72 | 6,066.61 | 7.10 | 854.906 | | |
| 500.00 | 499.45 | 1,500.00 | 1,533.17 | 3.79 | 7.65 | 29.12 | -4,967.00 | -3,323.46 | 6,051.47 | 6,040.13 | 11.34 | 533.673 | | |
| 600.00 | 598.70 | 1,556.24 | 1,587.94 | 4.03 | 7.95 | 29.51 | -4,954.42 | -3,325.54 | 6,024.32 | 6,012.49 | 11.83 | 509.453 | | |
| 700.00 | 697.47 | 1,639.35 | 1,668.89 | 4.31 | 8.40 | 30.02 | -4,935.88 | -3,329.04 | 5,994.67 | 5,982.19 | 12.49 | 480.111 | | |
| 800.00 | 795.62 | 1,700.00 | 1,727.95 | 4.64 | 8.74 | 30.52 | -4,922.42 | -3,331.90 | 5,962.57 | 5,949.49 | 13.07 | 456.069 | | |
| 900.00 | 893.06 | 1,815.29 | 1,840.27 | 5.00 | 9.39 | 31.23 | -4,896.97 | -3,337.51 | 5,927.96 | 5,913.99 | 13.97 | 424.302 | | |
| 1,000.00 | 989.78 | 1,903.84 | 1,926.42 | 5.39 | 9.90 | 31.69 | -4,877.02 | -3,341.84 | 5,890.73 | 5,875.96 | 14.77 | 398.953 | | |
| 1,100.00 | 1,086.42 | 1,992.22 | 2,012.43 | 5.81 | 10.41 | 31.98 | -4,857.10 | -3,346.15 | 5,853.35 | 5,837.78 | 15.57 | 375.880 | | |
| 1,200.00 | 1,183.06 | 2,080.60 | 2,098.43 | 6.25 | 10.93 | 32.26 | -4,837.19 | -3,350.47 | 5,816.11 | 5,799.70 | 16.40 | 354.561 | | |
| 1,300.00 | 1,279.69 | 2,168.99 | 2,184.43 | 6.71 | 11.45 | 32.55 | -4,817.27 | -3,354.79 | 5,779.00 | 5,761.75 | 17.26 | 334.901 | | |
| 1,400.00 | 1,376.33 | 2,257.37 | 2,270.43 | 7.17 | 11.98 | 32.84 | -4,797.35 | -3,359.11 | 5,742.04 | 5,723.91 | 18.13 | 316.784 | | |
| 1,500.00 | 1,472.97 | 2,345.75 | 2,356.43 | 7.65 | 12.51 | 33.14 | -4,777.44 | -3,363.43 | 5,705.22 | 5,686.21 | 19.01 | 300.086 | | |
| 1,600.00 | 1,569.61 | 2,434.13 | 2,442.43 | 8.13 | 13.04 | 33.44 | -4,757.52 | -3,367.75 | 5,668.55 | 5,648.63 | 19.91 | 284.685 | | |
| 1,700.00 | 1,666.24 | 2,522.52 | 2,528.43 | 8.62 | 13.58 | 33.74 | -4,737.61 | -3,372.07 | 5,632.02 | 5,611.20 | 20.82 | 270.463 | | |
| 1,800.00 | 1,762.88 | 2,610.90 | 2,614.43 | 9.12 | 14.12 | 34.04 | -4,717.69 | -3,376.39 | 5,595.65 | 5,573.91 | 21.75 | 257.312 | | |
| 1,900.00 | 1,859.52 | 2,700.72 | 2,700.43 | 9.62 | 14.67 | 34.35 | -4,697.77 | -3,380.71 | 5,559.44 | 5,536.75 | 22.69 | 245.046 | | |
| 2,000.00 | 1,956.16 | 2,787.67 | 2,788.43 | 10.13 | 15.20 | 34.67 | -4,677.86 | -3,385.02 | 5,523.39 | 5,499.76 | 23.62 | 233.832 | | |
| 2,100.00 | 2,052.79 | 2,876.05 | 2,872.44 | 10.64 | 15.75 | 34.98 | -4,657.94 | -3,389.34 | 5,487.49 | 5,462.92 | 24.57 | 223.329 | | |
| 2,200.00 | 2,149.43 | 2,964.43 | 2,958.44 | 11.15 | 16.29 | 35.30 | -4,638.03 | -3,393.66 | 5,451.76 | 5,426.24 | 25.53 | 213.551 | | |
| 2,300.00 | 2,246.07 | 3,052.81 | 3,044.44 | 11.66 | 16.84 | 35.63 | -4,618.11 | -3,397.98 | 5,416.20 | 5,389.71 | 26.49 | 204.431 | | |
| 2,400.00 | 2,342.71 | 3,141.20 | 3,130.44 | 12.18 | 17.38 | 35.96 | -4,598.19 | -3,402.30 | 5,380.82 | 5,353.35 | 27.47 | 195.910 | | |
| 2,500.00 | 2,439.34 | 3,229.58 | 3,216.44 | 12.70 | 17.93 | 36.29 | -4,578.28 | -3,406.62 | 5,345.60 | 5,317.16 | 28.44 | 187.935 | | |
| 2,600.00 | 2,535.98 | 3,317.96 | 3,302.44 | 13.22 | 18.48 | 36.62 | -4,558.36 | -3,410.94 | 5,310.57 | 5,281.14 | 29.43 | 180.460 | | |
| 2,700.00 | 2,632.62 | 3,406.34 | 3,388.44 | 13.75 | 19.03 | 36.96 | -4,538.45 | -3,415.26 | 5,275.72 | 5,245.30 | 30.42 | 173.442 | | |
| 2,800.00 | 2,729.26 | 3,494.73 | 3,474.44 | 14.27 | 19.59 | 37.31 | -4,518.53 | -3,419.58 | 5,241.05 | 5,209.64 | 31.41 | 166.842 | | |
| 2,900.00 | 2,825.89 | 3,583.11 | 3,560.44 | 14.80 | 20.14 | 37.66 | -4,498.61 | -3,423.89 | 5,206.58 | 5,174.16 | 32.41 | 160.627 | | |
| 3,000.00 | 2,922.53 | 3,671.49 | 3,646.45 | 15.32 | 20.69 | 38.01 | -4,478.70 | -3,428.21 | 5,172.29 | 5,138.87 | 33.42 | 154.766 | | |
| 3,100.00 | 3,019.17 | 3,759.87 | 3,732.45 | 15.85 | 21.24 | 38.36 | -4,458.78 | -3,432.53 | 5,138.21 | 5,103.77 | 34.43 | 149.231 | | |
| 3,200.00 | 3,115.81 | 10,701.53 | 7,244.65 | 16.38 | 120.25 | -11.44 | -3,631.93 | 19.11 | 5,080.19 | 4,993.08 | 87.11 | 58.318 | | |
| 3,300.00 | 3,212.44 | 10,694.27 | 7,244.73 | 16.91 | 120.02 | -11.31 | -3,631.94 | 14.92 | 4,986.90 | 4,899.17 | 87.73 | 56.843 | | |
| 3,400.00 | 3,309.08 | 10,690.07 | 7,244.80 | 17.44 | 119.88 | -11.17 | -3,631.96 | 10.72 | 4,893.88 | 4,805.43 | 88.45 | 55.331 | | |
| 3,500.00 | 3,405.72 | 10,685.88 | 7,244.87 | 17.97 | 119.75 | -11.04 | -3,631.97 | 6.53 | 4,801.13 | 4,711.93 | 89.20 | 53.827 | | |
| 3,600.00 | 3,502.36 | 10,681.68 | 7,244.95 | 18.50 | 119.62 | -10.91 | -3,631.98 | 2.33 | 4,708.68 | 4,618.70 | 89.98 | 52.329 | | |
| 3,700.00 | 3,598.99 | 10,677.48 | 7,245.02 | 19.03 | 119.49 | -10.78 | -3,632.00 | -1.87 | 4,616.53 | 4,525.73 | 90.80 | 50.841 | | |
| 3,800.00 | 3,695.63 | 10,673.29 | 7,245.09 | 19.57 | 119.35 | -10.65 | -3,632.01 | -6.06 | 4,524.72 | 4,433.06 | 91.66 | 49.363 | | |
| 3,900.00 | 3,792.27 | 10,669.09 | 7,245.17 | 20.10 | 119.22 | -10.52 | -3,632.03 | -10.26 | 4,433.26 | 4,340.70 | 92.56 | 47.895 | | |
| 4,000.00 | 3,888.91 | 10,664.89 | 7,245.24 | 20.63 | 119.09 | -10.38 | -3,632.04 | -14.45 | 4,342.17 | 4,248.67 | 93.50 | 46.440 | | |
| 4,100.00 | 3,985.54 | 10,660.70 | 7,245.32 | 21.17 | 118.95 | -10.25 | -3,632.05 | -18.65 | 4,251.47 | 4,156.99 | 94.48 | 44.999 | | |
| 4,200.00 | 4,082.18 | 10,656.50 | 7,245.39 | 21.70 | 118.82 | -10.12 | -3,632.07 | -22.85 | 4,161.20 | 4,065.70 | 95.50 | 43.571 | | |
| 4,300.00 | 4,178.82 | 10,652.30 | 7,245.46 | 22.24 | 118.69 | -9.99 | -3,632.08 | -27.04 | 4,071.38 | 3,974.81 | 96.57 | 42.159 | | |
| 4,400.00 | 4,275.46 | 10,648.11 | 7,245.54 | 22.77 | 118.56 | -9.85 | -3,632.10 | -31.24 | 3,982.04 | 3,884.35 | 97.69 | 40.764 | | |
| 4,500.00 | 4,372.09 | 10,643.91 | 7,245.61 | 23.31 | 118.42 | -9.72 | -3,632.11 | -35.43 | 3,893.21 | 3,794.36 | 98.85 | 39.386 | | |
| 4,600.00 | 4,468.73 | 10,639.71 | 7,245.68 | 23.84 | 118.29 | -9.59 | -3,632.12 | -39.63 | 3,804.93 | 3,704.88 | 100.06 | 38.028 | | |
| 4,700.00 | 4,565.37 | 10,635.52 | 7,245.76 | 24.38 | 118.16 | -9.46 | -3,632.14 | -43.83 | 3,717.25 | 3,615.93 | 101.32 | 36.689 | | |
| 4,800.00 | 4,662.01 | 10,631.32 | 7,245.83 | 24.91 | 118.03 | -9.32 | -3,632.15 | -48.02 | 3,630.19 | 3,527.56 | 102.63 | 35.371 | | |
| 4,900.00 | 4,758.64 | 10,627.12 | 7,245.91 | 25.45 | 117.89 | -9.19 | -3,632.17 | -52.22 | 3,543.81 | 3,439.81 | 104.00 | 34.075 | | |
| 5,000.00 | 4,855.28 | 10,622.93 | 7,245.98 | 25.99 | 117.76 | -9.06 | -3,632.18 | -56.41 | 3,458.16 | 3,352.74 | 105.42 | 32.803 | | |
| 5,100.00 | 4,951.92 | 10,618.73 | 7,246.05 | 26.53 | 117.63 | -8.93 | -3,632.19 | -60.61 | 3,373.30 | 3,266.40 | 106.90 | 31.555 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 10,614.53 | 7,246.13 | 27.06 | 117.49 | -8.79 | -3,632.21 | -64.81 | 3,289.28 | 3,180.84 | 108.44 | 30.332 | | |
| 5,300.00 | 5,145.19 | 10,610.34 | 7,246.20 | 27.60 | 117.36 | -8.66 | -3,632.22 | -69.00 | 3,206.17 | 3,096.14 | 110.04 | 29.137 | | |
| 5,400.00 | 5,241.83 | 10,606.14 | 7,246.28 | 28.14 | 117.23 | -8.53 | -3,632.24 | -73.20 | 3,124.05 | 3,012.36 | 111.70 | 27.969 | | |
| 5,500.00 | 5,338.47 | 10,601.94 | 7,246.35 | 28.67 | 117.10 | -8.40 | -3,632.25 | -77.39 | 3,042.99 | 2,929.58 | 113.41 | 26.831 | | |
| 5,600.00 | 5,435.11 | 10,602.25 | 7,246.42 | 29.21 | 117.11 | -8.26 | -3,632.26 | -81.59 | 2,963.09 | 2,847.78 | 115.31 | 25.698 | | |
| 5,700.00 | 5,531.74 | 10,593.55 | 7,246.50 | 29.75 | 116.83 | -8.13 | -3,632.28 | -85.79 | 2,884.43 | 2,767.40 | 117.03 | 24.648 | | |
| 5,800.00 | 5,628.38 | 10,589.35 | 7,246.57 | 30.29 | 116.70 | -8.00 | -3,632.29 | -89.98 | 2,807.12 | 2,688.20 | 118.92 | 23.605 | | |
| 5,900.00 | 5,725.02 | 10,585.16 | 7,246.64 | 30.83 | 116.57 | -7.86 | -3,632.31 | -94.18 | 2,731.28 | 2,610.42 | 120.87 | 22.597 | | |
| 6,000.00 | 5,821.66 | 10,580.96 | 7,246.72 | 31.37 | 116.43 | -7.73 | -3,632.32 | -98.37 | 2,657.04 | 2,534.17 | 122.86 | 21.626 | | |
| 6,100.00 | 5,918.29 | 10,576.76 | 7,246.79 | 31.90 | 116.30 | -7.60 | -3,632.33 | -102.57 | 2,584.52 | 2,459.62 | 124.91 | 20.692 | | |
| 6,200.00 | 6,014.93 | 10,572.57 | 7,246.87 | 32.44 | 116.17 | -7.46 | -3,632.35 | -106.77 | 2,513.89 | 2,386.90 | 126.99 | 19.797 | | |
| 6,300.00 | 6,111.57 | 10,568.37 | 7,246.94 | 32.98 | 116.04 | -7.33 | -3,632.36 | -110.96 | 2,445.29 | 2,316.20 | 129.09 | 18.942 | | |
| 6,400.00 | 6,208.21 | 10,564.17 | 7,247.01 | 33.52 | 115.90 | -7.20 | -3,632.38 | -115.16 | 2,378.92 | 2,247.70 | 131.21 | 18.130 | | |
| 6,500.00 | 6,304.84 | 10,559.98 | 7,247.09 | 34.06 | 115.77 | -7.07 | -3,632.39 | -119.35 | 2,314.95 | 2,181.62 | 133.33 | 17.362 | | |
| 6,600.00 | 6,401.37 | 10,553.60 | 7,247.20 | 34.60 | 115.57 | -6.93 | -3,632.41 | -123.54 | 2,253.68 | 2,118.31 | 135.37 | 16.649 | | |
| 6,700.00 | 6,496.25 | 10,533.43 | 7,247.55 | 35.12 | 114.93 | -6.79 | -3,632.48 | -127.73 | 2,196.24 | 2,059.34 | 136.90 | 16.043 | | |
| 6,800.00 | 6,587.15 | 10,498.20 | 7,248.17 | 35.59 | 113.82 | -6.65 | -3,632.60 | -131.92 | 2,143.99 | 2,006.18 | 137.81 | 15.558 | | |
| 6,900.00 | 6,671.83 | 10,448.78 | 7,249.04 | 36.03 | 112.27 | -6.51 | -3,632.76 | -136.11 | 2,097.91 | 1,959.86 | 138.05 | 15.197 | | |
| 7,000.00 | 6,748.21 | 10,386.85 | 7,250.13 | 36.41 | 110.32 | -6.37 | -3,632.97 | -140.30 | 2,058.62 | 1,920.95 | 137.67 | 14.953 | | |
| 7,100.00 | 6,814.41 | 10,304.88 | 7,250.62 | 36.76 | 107.76 | -6.23 | -3,633.24 | -134.49 | 2,026.20 | 1,889.78 | 136.41 | 14.853 | | |
| 7,200.00 | 6,868.79 | 10,222.38 | 7,250.62 | 37.07 | 105.18 | -6.09 | -3,633.52 | -128.68 | 2,000.76 | 1,865.70 | 135.06 | 14.814 | | |
| 7,300.00 | 6,910.01 | 10,132.09 | 7,250.62 | 37.39 | 102.37 | -5.95 | -3,633.82 | -122.87 | 1,982.23 | 1,848.83 | 133.40 | 14.860 | | |
| 7,400.00 | 6,937.07 | 10,036.22 | 7,250.62 | 37.76 | 99.40 | -5.81 | -3,634.14 | -117.06 | 1,970.34 | 1,838.80 | 131.54 | 14.979 | | |
| 7,500.00 | 6,949.29 | 9,937.14 | 7,250.62 | 38.27 | 96.35 | -5.67 | -3,634.47 | -111.25 | 1,964.88 | 1,835.26 | 129.61 | 15.160 ES | | |
| 7,600.00 | 6,949.75 | 9,837.15 | 7,250.62 | 39.02 | 93.28 | -5.53 | -3,634.80 | -105.44 | 1,964.32 | 1,836.61 | 127.71 | 15.381 | | |
| 7,700.00 | 6,949.37 | 9,737.15 | 7,250.62 | 40.05 | 90.24 | -5.39 | -3,635.14 | -99.63 | 1,964.12 | 1,838.12 | 126.00 | 15.588 | | |
| 7,800.00 | 6,948.99 | 9,637.15 | 7,250.62 | 41.35 | 87.22 | -5.25 | -3,635.47 | -93.82 | 1,963.92 | 1,839.44 | 124.47 | 15.778 | | |
| 7,900.00 | 6,948.61 | 9,537.15 | 7,250.62 | 42.86 | 84.22 | -5.11 | -3,635.81 | -88.01 | 1,963.71 | 1,840.60 | 123.11 | 15.951 | | |
| 8,000.00 | 6,948.23 | 9,437.15 | 7,250.62 | 44.53 | 81.24 | -4.97 | -3,636.14 | -82.20 | 1,963.51 | 1,841.61 | 121.90 | 16.108 | | |
| 8,100.00 | 6,947.85 | 9,337.15 | 7,250.62 | 46.34 | 78.30 | -4.83 | -3,636.47 | -76.39 | 1,963.31 | 1,842.49 | 120.82 | 16.250 | | |
| 8,200.00 | 6,947.47 | 9,237.16 | 7,250.62 | 48.26 | 75.39 | -4.69 | -3,636.81 | -70.58 | 1,963.10 | 1,843.23 | 119.87 | 16.377 | | |
| 8,300.00 | 6,947.09 | 9,137.16 | 7,250.62 | 50.28 | 72.51 | -4.55 | -3,637.14 | -64.77 | 1,962.90 | 1,843.86 | 119.04 | 16.490 | | |
| 8,400.00 | 6,946.72 | 9,037.16 | 7,250.62 | 52.39 | 69.68 | -4.41 | -3,637.48 | -58.96 | 1,962.70 | 1,844.38 | 118.32 | 16.588 | | |
| 8,500.00 | 6,946.34 | 8,937.16 | 7,250.62 | 54.56 | 66.90 | -4.27 | -3,637.81 | -53.15 | 1,962.50 | 1,844.79 | 117.71 | 16.673 | | |
| 8,600.00 | 6,945.96 | 8,837.16 | 7,250.62 | 56.80 | 64.18 | -4.13 | -3,638.14 | -47.34 | 1,962.29 | 1,845.09 | 117.20 | 16.743 | | |
| 8,700.00 | 6,945.58 | 8,737.16 | 7,250.62 | 59.10 | 61.52 | -4.00 | -3,638.48 | -41.53 | 1,962.09 | 1,845.29 | 116.80 | 16.799 | | |
| 8,800.00 | 6,945.20 | 8,637.16 | 7,250.62 | 61.44 | 58.93 | -3.86 | -3,638.81 | -35.72 | 1,961.89 | 1,845.39 | 116.50 | 16.840 | | |
| 8,900.00 | 6,944.82 | 8,537.16 | 7,250.62 | 63.83 | 56.44 | -3.72 | -3,639.15 | -29.91 | 1,961.69 | 1,845.37 | 116.31 | 16.865 | | |
| 9,000.00 | 6,944.44 | 8,437.16 | 7,250.62 | 66.25 | 54.05 | -3.58 | -3,639.48 | -24.10 | 1,961.48 | 1,845.24 | 116.24 | 16.874 | | |
| 9,100.00 | 6,944.06 | 8,337.16 | 7,250.62 | 68.71 | 51.80 | -3.44 | -3,639.81 | -18.29 | 1,961.28 | 1,844.99 | 116.30 | 16.865 | | |
| 9,200.00 | 6,943.68 | 8,237.17 | 7,250.62 | 71.20 | 49.71 | -3.30 | -3,640.15 | -12.48 | 1,961.08 | 1,844.60 | 116.48 | 16.836 | | |
| 9,300.00 | 6,943.30 | 8,137.17 | 7,250.62 | 73.72 | 47.84 | -3.16 | -3,640.48 | -6.67 | 1,960.88 | 1,844.06 | 116.82 | 16.786 | | |
| 9,400.00 | 6,942.92 | 8,037.17 | 7,250.62 | 76.26 | 46.24 | -3.02 | -3,640.82 | -0.86 | 1,960.68 | 1,843.36 | 117.31 | 16.713 | | |
| 9,500.00 | 6,942.54 | 7,937.17 | 7,250.62 | 78.82 | 44.97 | -2.88 | -3,641.15 | 4.95 | 1,960.47 | 1,842.48 | 117.99 | 16.615 | | |
| 9,600.00 | 6,942.16 | 7,837.17 | 7,250.62 | 81.40 | 44.07 | -2.74 | -3,641.48 | 9.14 | 1,960.27 | 1,841.40 | 118.88 | 16.490 | | |
| 9,700.00 | 6,941.78 | 7,739.02 | 7,250.62 | 84.00 | 43.50 | -2.60 | -3,641.82 | 13.33 | 1,960.07 | 1,840.07 | 120.01 | 16.333 | | |
| 9,721.49 | 6,941.70 | 7,719.63 | 7,250.36 | 84.57 | 43.42 | -2.56 | -3,641.94 | 17.52 | 1,960.05 | 1,839.72 | 120.33 | 16.289 CC | | |
| 9,800.00 | 6,941.40 | 7,655.37 | 7,245.39 | 86.62 | 43.19 | -2.42 | -3,643.30 | 21.71 | 1,960.33 | 1,838.68 | 121.66 | 16.114 | | |
| 9,900.00 | 6,941.03 | 7,575.98 | 7,230.62 | 89.25 | 42.97 | -2.28 | -3,646.99 | 25.90 | 1,961.61 | 1,838.03 | 123.58 | 15.874 | | |
| 10,000.00 | 6,940.65 | 7,501.33 | 7,208.22 | 91.90 | 42.81 | -2.14 | -3,652.41 | 30.09 | 1,964.17 | 1,838.44 | 125.74 | 15.621 | | |
| 10,100.00 | 6,940.27 | 7,432.83 | 7,180.68 | 94.56 | 42.67 | -2.00 | -3,659.00 | 34.28 | 1,968.42 | 1,840.32 | 128.10 | 15.367 | | |
| 10,200.00 | 6,939.89 | 7,371.14 | 7,150.42 | 97.23 | 42.54 | -1.86 | -3,666.20 | 38.47 | 1,974.78 | 1,844.23 | 130.55 | 15.126 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 7,317.32 | 7,120.02 | 99.91 | 42.43 | -95.23 | -3,673.39 | -3,331.88 | 1,983.70 | 1,850.67 | 133.03 | 14.912 | | |
| 10,400.00 | 6,939.13 | 7,267.86 | 7,088.99 | 102.60 | 42.31 | -94.32 | -3,680.70 | -3,369.69 | 1,995.54 | 1,860.07 | 135.47 | 14.731 | | |
| 10,500.00 | 6,938.75 | 7,225.28 | 7,060.06 | 105.30 | 42.20 | -93.47 | -3,687.51 | -3,400.17 | 2,010.61 | 1,872.81 | 137.81 | 14.590 | | |
| 10,600.00 | 6,938.37 | 7,187.86 | 7,033.04 | 108.00 | 42.10 | -92.69 | -3,693.86 | -3,425.26 | 2,029.13 | 1,889.12 | 140.01 | 14.493 | | |
| 10,700.00 | 6,937.99 | 7,152.01 | 7,005.86 | 110.72 | 41.99 | -91.90 | -3,700.23 | -3,447.73 | 2,051.24 | 1,909.19 | 142.05 | 14.440 | | |
| 10,800.00 | 6,937.61 | 7,125.87 | 6,985.28 | 113.44 | 41.90 | -91.31 | -3,705.05 | -3,463.11 | 2,077.01 | 1,933.10 | 143.91 | 14.433 SF | | |
| 10,900.00 | 6,937.23 | 7,100.00 | 6,964.32 | 116.17 | 41.82 | -90.70 | -3,709.96 | -3,477.46 | 2,106.47 | 1,960.89 | 145.58 | 14.469 | | |
| 11,000.00 | 6,936.85 | 7,077.30 | 6,945.47 | 118.90 | 41.74 | -90.17 | -3,714.36 | -3,489.32 | 2,139.59 | 1,992.52 | 147.08 | 14.548 | | |
| 11,100.00 | 6,936.47 | 7,052.01 | 6,924.01 | 121.64 | 41.65 | -89.55 | -3,719.38 | -3,501.71 | 2,176.31 | 2,027.93 | 148.38 | 14.667 | | |
| 11,200.00 | 6,936.09 | 7,038.62 | 6,912.45 | 124.39 | 41.59 | -89.23 | -3,722.08 | -3,507.92 | 2,216.48 | 2,066.99 | 149.50 | 14.826 | | |
| 11,300.00 | 6,935.71 | 7,022.16 | 6,898.08 | 127.14 | 41.53 | -88.82 | -3,725.43 | -3,515.20 | 2,260.03 | 2,109.59 | 150.44 | 15.022 | | |
| 11,400.00 | 6,935.34 | 7,007.30 | 6,884.95 | 129.90 | 41.47 | -88.45 | -3,728.50 | -3,521.45 | 2,306.80 | 2,155.57 | 151.23 | 15.254 | | |
| 11,500.00 | 6,934.96 | 7,000.00 | 6,878.45 | 132.66 | 41.44 | -88.27 | -3,730.01 | -3,524.40 | 2,356.66 | 2,204.81 | 151.85 | 15.520 | | |
| 11,600.00 | 6,934.58 | 6,981.55 | 6,861.87 | 135.42 | 41.36 | -87.80 | -3,733.88 | -3,531.52 | 2,409.38 | 2,257.02 | 152.36 | 15.814 | | |
| 11,700.00 | 6,934.20 | 6,970.34 | 6,851.70 | 138.19 | 41.31 | -87.52 | -3,736.25 | -3,535.60 | 2,464.88 | 2,312.15 | 152.72 | 16.139 | | |
| 11,800.00 | 6,933.82 | 6,952.01 | 6,834.94 | 140.96 | 41.23 | -87.05 | -3,740.16 | -3,541.88 | 2,523.01 | 2,370.02 | 152.99 | 16.491 | | |
| 11,900.00 | 6,933.44 | 6,952.01 | 6,834.94 | 143.74 | 41.23 | -87.05 | -3,740.16 | -3,541.88 | 2,583.49 | 2,430.36 | 153.12 | 16.872 | | |
| 12,000.00 | 6,933.06 | 6,952.01 | 6,834.94 | 146.51 | 41.23 | -87.05 | -3,740.16 | -3,541.88 | 2,646.36 | 2,493.20 | 153.16 | 17.278 | | |
| 12,100.00 | 6,932.68 | 6,933.85 | 6,818.15 | 149.30 | 41.14 | -86.59 | -3,744.07 | -3,547.61 | 2,711.23 | 2,558.06 | 153.17 | 17.701 | | |
| 12,200.00 | 6,932.30 | 6,926.38 | 6,811.20 | 152.08 | 41.11 | -86.40 | -3,745.68 | -3,549.83 | 2,778.16 | 2,625.08 | 153.08 | 18.149 | | |
| 12,300.00 | 6,931.92 | 6,919.44 | 6,804.72 | 154.87 | 41.08 | -86.22 | -3,747.19 | -3,551.81 | 2,846.96 | 2,694.03 | 152.93 | 18.617 | | |
| 12,400.00 | 6,931.54 | 6,900.00 | 6,786.47 | 157.66 | 40.98 | -85.72 | -3,751.44 | -3,556.97 | 2,917.63 | 2,764.88 | 152.75 | 19.101 | | |
| 12,500.00 | 6,931.16 | 6,900.00 | 6,786.47 | 160.45 | 40.98 | -85.72 | -3,751.44 | -3,556.97 | 2,989.70 | 2,837.21 | 152.49 | 19.606 | | |
| 12,600.00 | 6,930.78 | 6,900.00 | 6,786.47 | 163.24 | 40.98 | -85.72 | -3,751.44 | -3,556.97 | 3,063.34 | 2,911.15 | 152.19 | 20.128 | | |
| 12,700.00 | 6,930.40 | 6,900.00 | 6,786.47 | 166.04 | 40.98 | -85.72 | -3,751.44 | -3,556.97 | 3,138.44 | 2,986.58 | 151.86 | 20.666 | | |
| 12,800.00 | 6,930.03 | 6,900.00 | 6,786.47 | 168.84 | 40.98 | -85.72 | -3,751.44 | -3,556.97 | 3,214.90 | 3,063.39 | 151.51 | 21.219 | | |
| 12,900.00 | 6,929.65 | 6,900.00 | 6,786.47 | 171.64 | 40.98 | -85.72 | -3,751.44 | -3,556.97 | 3,292.62 | 3,141.49 | 151.13 | 21.786 | | |
| 13,000.00 | 6,929.27 | 6,900.00 | 6,786.47 | 174.44 | 40.98 | -85.72 | -3,751.44 | -3,556.97 | 3,371.51 | 3,220.77 | 150.74 | 22.367 | | |
| 13,100.00 | 6,928.89 | 6,877.73 | 6,765.38 | 177.24 | 40.87 | -85.14 | -3,756.34 | -3,562.18 | 3,451.11 | 3,300.71 | 150.40 | 22.946 | | |
| 13,200.00 | 6,928.51 | 6,873.79 | 6,761.63 | 180.05 | 40.85 | -85.04 | -3,757.21 | -3,563.02 | 3,531.96 | 3,381.96 | 150.00 | 23.547 | | |
| 13,300.00 | 6,928.13 | 6,852.01 | 6,740.83 | 182.86 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 3,614.01 | 3,464.38 | 149.63 | 24.153 | | |
| 13,400.00 | 6,927.75 | 6,852.01 | 6,740.83 | 185.67 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 3,696.58 | 3,547.37 | 149.21 | 24.774 | | |
| 13,500.00 | 6,927.37 | 6,852.01 | 6,740.83 | 188.48 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 3,780.00 | 3,631.21 | 148.79 | 25.406 | | |
| 13,600.00 | 6,926.99 | 6,852.01 | 6,740.83 | 191.29 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 3,864.20 | 3,715.84 | 148.36 | 26.046 | | |
| 13,700.00 | 6,926.61 | 6,852.01 | 6,740.83 | 194.10 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 3,949.14 | 3,801.20 | 147.94 | 26.695 | | |
| 13,800.00 | 6,926.23 | 6,852.01 | 6,740.83 | 196.92 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,034.77 | 3,887.25 | 147.52 | 27.351 | | |
| 13,900.00 | 6,925.85 | 6,852.01 | 6,740.83 | 199.73 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,121.04 | 3,973.95 | 147.10 | 28.016 | | |
| 14,000.00 | 6,925.47 | 6,852.01 | 6,740.83 | 202.55 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,207.93 | 4,061.24 | 146.68 | 28.687 | | |
| 14,100.00 | 6,925.09 | 6,852.01 | 6,740.83 | 205.37 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,295.38 | 4,149.11 | 146.27 | 29.365 | | |
| 14,200.00 | 6,924.71 | 6,852.01 | 6,740.83 | 208.19 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,383.37 | 4,237.50 | 145.87 | 30.050 | | |
| 14,300.00 | 6,924.34 | 6,852.01 | 6,740.83 | 211.01 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,471.87 | 4,326.40 | 145.47 | 30.740 | | |
| 14,400.00 | 6,923.96 | 6,852.01 | 6,740.83 | 213.83 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,560.84 | 4,415.76 | 145.08 | 31.436 | | |
| 14,500.00 | 6,923.58 | 6,852.01 | 6,740.83 | 216.65 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,650.26 | 4,505.56 | 144.70 | 32.137 | | |
| 14,600.00 | 6,923.20 | 6,852.01 | 6,740.83 | 219.48 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,740.10 | 4,595.78 | 144.33 | 32.843 | | |
| 14,700.00 | 6,922.82 | 6,852.01 | 6,740.83 | 222.30 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,830.35 | 4,686.39 | 143.96 | 33.554 | | |
| 14,800.00 | 6,922.44 | 6,852.01 | 6,740.83 | 225.13 | 40.74 | -84.47 | -3,762.05 | -3,567.25 | 4,920.97 | 4,777.37 | 143.60 | 34.269 | | |
| 14,900.00 | 6,922.06 | 6,829.32 | 6,719.01 | 227.95 | 40.61 | -83.89 | -3,767.12 | -3,570.87 | 5,011.52 | 4,868.21 | 143.31 | 34.971 | | |
| 14,915.55 | 6,922.00 | 6,829.04 | 6,718.74 | 228.39 | 40.61 | -83.88 | -3,767.18 | -3,570.91 | 5,025.68 | 4,882.43 | 143.25 | 35.083 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 25.00 | 72.00 | 3.28 | 3.28 | -147.12 | -5,093.07 | -3,291.92 | 6,064.76 | | | | | |
| 100.00 | 100.00 | 1,189.21 | 1,220.54 | 3.28 | 6.68 | -146.08 | -4,940.15 | -3,321.78 | 6,057.63 | 6,047.74 | 9.90 | 612.015 | | |
| 200.00 | 200.00 | 1,289.83 | 1,317.49 | 3.34 | 7.27 | -145.89 | -4,913.94 | -3,328.06 | 6,039.17 | 6,028.72 | 10.44 | 578.210 | | |
| 300.00 | 299.98 | 1,414.84 | 1,437.99 | 3.44 | 8.02 | 29.17 | -4,881.37 | -3,334.72 | 6,018.73 | 6,007.54 | 11.19 | 537.869 | | |
| 400.00 | 399.84 | 1,513.96 | 1,533.75 | 3.59 | 8.62 | 29.61 | -4,856.13 | -3,339.14 | 5,995.49 | 5,983.64 | 11.85 | 505.984 | | |
| 500.00 | 499.45 | 1,600.00 | 1,616.92 | 3.79 | 9.15 | 30.06 | -4,834.37 | -3,342.47 | 5,969.20 | 5,956.71 | 12.48 | 478.146 | | |
| 600.00 | 598.70 | 1,656.84 | 1,671.99 | 4.03 | 9.50 | 30.50 | -4,820.46 | -3,344.59 | 5,940.60 | 5,927.60 | 13.00 | 456.977 | | |
| 700.00 | 697.47 | 1,812.61 | 1,822.64 | 4.31 | 10.48 | 31.25 | -4,781.37 | -3,351.01 | 5,909.06 | 5,894.95 | 14.11 | 418.877 | | |
| 800.00 | 795.62 | 1,902.35 | 1,909.14 | 4.64 | 11.06 | 31.91 | -4,757.88 | -3,355.18 | 5,874.18 | 5,859.29 | 14.90 | 394.370 | | |
| 900.00 | 893.06 | 1,990.51 | 1,994.14 | 5.00 | 11.63 | 32.63 | -4,734.80 | -3,359.28 | 5,836.68 | 5,820.97 | 15.71 | 371.601 | | |
| 1,000.00 | 989.78 | 2,077.26 | 2,077.76 | 5.39 | 12.20 | 33.14 | -4,712.10 | -3,363.30 | 5,797.02 | 5,780.48 | 16.54 | 350.516 | | |
| 1,100.00 | 1,086.42 | 2,163.83 | 2,161.22 | 5.81 | 12.78 | 33.45 | -4,689.44 | -3,367.32 | 5,757.24 | 5,739.86 | 17.38 | 331.237 | | |
| 1,200.00 | 1,183.06 | 2,250.40 | 2,244.67 | 6.25 | 13.35 | 33.76 | -4,666.78 | -3,371.34 | 5,717.63 | 5,699.38 | 18.25 | 313.343 | | |
| 1,300.00 | 1,279.69 | 2,336.97 | 2,328.13 | 6.71 | 13.93 | 34.08 | -4,644.12 | -3,375.37 | 5,678.18 | 5,659.05 | 19.13 | 296.761 | | |
| 1,400.00 | 1,376.33 | 2,423.55 | 2,411.59 | 7.17 | 14.50 | 34.40 | -4,621.46 | -3,379.39 | 5,638.90 | 5,618.86 | 20.04 | 281.405 | | |
| 1,500.00 | 1,472.97 | 2,510.12 | 2,495.05 | 7.65 | 15.09 | 34.73 | -4,598.80 | -3,383.41 | 5,599.79 | 5,578.83 | 20.96 | 267.184 | | |
| 1,600.00 | 1,569.61 | 2,603.31 | 2,578.50 | 8.13 | 15.71 | 35.06 | -4,576.14 | -3,387.43 | 5,560.86 | 5,538.92 | 21.93 | 253.553 | | |
| 1,700.00 | 1,666.24 | 2,683.26 | 2,661.96 | 8.62 | 16.25 | 35.39 | -4,553.49 | -3,391.45 | 5,522.10 | 5,499.26 | 22.84 | 241.780 | | |
| 1,800.00 | 1,762.88 | 2,769.83 | 2,745.42 | 9.12 | 16.83 | 35.73 | -4,530.83 | -3,395.47 | 5,483.53 | 5,459.73 | 23.80 | 230.427 | | |
| 1,900.00 | 1,859.52 | 2,856.41 | 2,828.87 | 9.62 | 17.42 | 36.07 | -4,508.17 | -3,399.49 | 5,445.14 | 5,420.38 | 24.77 | 219.869 | | |
| 2,000.00 | 1,956.16 | 2,942.98 | 2,912.33 | 10.13 | 18.01 | 36.42 | -4,485.51 | -3,403.51 | 5,406.95 | 5,381.21 | 25.74 | 210.035 | | |
| 2,100.00 | 2,052.79 | 3,040.46 | 2,995.79 | 10.64 | 18.67 | 36.77 | -4,462.85 | -3,407.53 | 5,368.95 | 5,342.16 | 26.80 | 200.369 | | |
| 2,200.00 | 2,149.43 | 3,116.12 | 3,079.25 | 11.15 | 19.18 | 37.12 | -4,440.19 | -3,411.55 | 5,331.15 | 5,303.43 | 27.72 | 192.290 | | |
| 2,300.00 | 2,246.07 | 3,202.69 | 3,162.70 | 11.66 | 19.77 | 37.48 | -4,417.53 | -3,415.57 | 5,293.56 | 5,264.83 | 28.73 | 184.270 | | |
| 2,400.00 | 2,342.71 | 3,289.27 | 3,246.16 | 12.18 | 20.36 | 37.85 | -4,394.87 | -3,419.59 | 5,256.17 | 5,226.43 | 29.74 | 176.754 | | |
| 2,500.00 | 2,439.34 | 3,375.84 | 3,329.62 | 12.70 | 20.95 | 38.21 | -4,372.21 | -3,423.61 | 5,218.99 | 5,188.24 | 30.75 | 169.699 | | |
| 2,600.00 | 2,535.98 | 3,462.41 | 3,413.08 | 13.22 | 21.54 | 38.59 | -4,349.55 | -3,427.63 | 5,182.03 | 5,150.25 | 31.78 | 163.067 | | |
| 2,700.00 | 2,632.62 | 3,548.98 | 3,496.53 | 13.75 | 22.13 | 38.96 | -4,326.89 | -3,431.65 | 5,145.29 | 5,112.48 | 32.81 | 156.825 | | |
| 2,800.00 | 2,729.26 | 3,635.55 | 3,579.99 | 14.27 | 22.73 | 39.35 | -4,304.24 | -3,435.67 | 5,108.78 | 5,074.93 | 33.85 | 150.941 | | |
| 2,900.00 | 2,825.89 | 3,722.13 | 3,663.45 | 14.80 | 23.32 | 39.73 | -4,281.58 | -3,439.69 | 5,072.50 | 5,037.61 | 34.89 | 145.388 | | |
| 3,000.00 | 2,922.53 | 3,808.70 | 3,750.95 | 15.32 | 23.91 | 40.11 | -4,258.92 | -3,443.71 | 5,036.37 | 5,000.48 | 35.93 | 140.000 | | |
| 3,100.00 | 3,019.17 | 3,895.27 | 3,837.52 | 15.85 | 24.50 | 40.50 | -4,236.26 | -3,447.73 | 5,000.24 | 4,964.34 | 36.97 | 134.860 | | |
| 3,200.00 | 3,115.81 | 3,981.84 | 3,923.07 | 16.38 | 25.09 | 40.89 | -4,213.60 | -3,451.75 | 4,964.01 | 4,928.11 | 38.01 | 129.960 | | |
| 3,300.00 | 3,212.44 | 4,068.41 | 4,009.60 | 16.91 | 25.68 | 41.28 | -4,190.94 | -3,455.77 | 4,927.78 | 4,891.81 | 39.05 | 125.300 | | |
| 3,400.00 | 3,309.08 | 4,154.98 | 4,095.79 | 17.44 | 26.27 | 41.67 | -4,168.28 | -3,459.79 | 4,891.55 | 4,856.51 | 40.09 | 120.880 | | |
| 3,500.00 | 3,405.72 | 4,241.55 | 4,181.98 | 17.97 | 26.86 | 42.06 | -4,145.62 | -3,463.81 | 4,856.22 | 4,821.47 | 41.13 | 116.600 | | |
| 3,600.00 | 3,502.36 | 4,328.12 | 4,268.17 | 18.50 | 27.45 | 42.45 | -4,122.96 | -3,467.83 | 4,820.89 | 4,786.43 | 42.17 | 112.460 | | |
| 3,700.00 | 3,598.99 | 4,414.69 | 4,353.76 | 19.03 | 28.04 | 42.84 | -4,100.30 | -3,471.85 | 4,785.56 | 4,751.49 | 43.21 | 108.460 | | |
| 3,800.00 | 3,695.63 | 4,501.26 | 4,440.33 | 19.57 | 28.63 | 43.23 | -4,077.64 | -3,475.87 | 4,750.23 | 4,716.16 | 44.25 | 104.600 | | |
| 3,900.00 | 3,792.27 | 4,587.83 | 4,526.90 | 20.10 | 29.22 | 43.62 | -4,054.98 | -3,479.89 | 4,714.90 | 4,681.83 | 45.29 | 100.880 | | |
| 4,000.00 | 3,888.91 | 4,674.40 | 4,612.47 | 20.63 | 29.81 | 44.01 | -4,032.32 | -3,483.91 | 4,679.57 | 4,647.50 | 46.33 | 97.300 | | |
| 4,100.00 | 3,985.54 | 4,760.97 | 4,698.04 | 21.17 | 30.40 | 44.40 | -4,009.66 | -3,487.93 | 4,644.24 | 4,613.17 | 47.37 | 93.860 | | |
| 4,200.00 | 4,082.18 | 4,847.54 | 4,784.61 | 21.70 | 30.99 | 44.79 | -3,986.99 | -3,491.95 | 4,608.91 | 4,578.84 | 48.41 | 90.560 | | |
| 4,300.00 | 4,178.82 | 4,934.11 | 4,871.18 | 22.24 | 31.58 | 45.18 | -3,964.33 | -3,495.97 | 4,573.58 | 4,544.51 | 49.45 | 87.400 | | |
| 4,400.00 | 4,275.46 | 5,020.68 | 4,957.75 | 22.77 | 32.17 | 45.57 | -3,941.67 | -3,499.99 | 4,538.25 | 4,510.18 | 50.49 | 84.380 | | |
| 4,500.00 | 4,372.09 | 5,107.25 | 5,044.32 | 23.31 | 32.76 | 45.96 | -3,918.99 | -3,504.01 | 4,502.92 | 4,475.85 | 51.53 | 81.400 | | |
| 4,600.00 | 4,468.73 | 5,193.82 | 5,130.89 | 23.84 | 33.35 | 46.35 | -3,896.33 | -3,508.03 | 4,467.59 | 4,441.52 | 52.57 | 78.460 | | |
| 4,700.00 | 4,565.37 | 5,280.39 | 5,217.46 | 24.38 | 33.94 | 46.74 | -3,873.67 | -3,512.05 | 4,432.26 | 4,417.19 | 53.61 | 75.560 | | |
| 4,800.00 | 4,662.01 | 5,366.96 | 5,304.03 | 24.91 | 34.53 | 47.13 | -3,850.99 | -3,516.07 | 4,396.93 | 4,382.86 | 54.65 | 72.700 | | |
| 4,900.00 | 4,758.64 | 5,453.53 | 5,390.60 | 25.45 | 35.12 | 47.52 | -3,828.33 | -3,520.09 | 4,361.60 | 4,358.53 | 55.69 | 69.880 | | |
| 5,000.00 | 4,855.28 | 5,540.10 | 5,477.17 | 25.99 | 35.71 | 47.91 | -3,805.67 | -3,524.11 | 4,326.27 | 4,324.20 | 56.73 | 67.100 | | |
| 5,100.00 | 4,951.92 | 5,626.67 | 5,563.74 | 26.53 | 36.30 | 48.30 | -3,782.99 | -3,528.13 | 4,290.94 | 4,288.87 | 57.77 | 64.360 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 10,427.25 | 7,076.90 | 27.06 | 116.07 | -7.12 | -3,368.86 | -119.06 | 2,980.37 | 2,874.00 | 106.37 | 28.018 | | |
| 5,300.00 | 5,145.19 | 10,425.00 | 7,076.90 | 27.60 | 116.00 | -7.04 | -3,368.85 | -121.31 | 2,896.33 | 2,788.22 | 108.11 | 26.790 | | |
| 5,400.00 | 5,241.83 | 10,422.74 | 7,076.89 | 28.14 | 115.93 | -6.96 | -3,368.85 | -123.56 | 2,813.33 | 2,703.41 | 109.92 | 25.594 | | |
| 5,500.00 | 5,338.47 | 10,420.49 | 7,076.89 | 28.67 | 115.86 | -6.88 | -3,368.84 | -125.82 | 2,731.47 | 2,619.66 | 111.81 | 24.429 | | |
| 5,600.00 | 5,435.11 | 10,418.24 | 7,076.89 | 29.21 | 115.79 | -6.80 | -3,368.84 | -128.07 | 2,650.86 | 2,537.08 | 113.77 | 23.299 | | |
| 5,700.00 | 5,531.74 | 10,415.99 | 7,076.89 | 29.75 | 115.72 | -6.72 | -3,368.83 | -130.32 | 2,571.60 | 2,455.79 | 115.81 | 22.205 | | |
| 5,800.00 | 5,628.38 | 10,413.74 | 7,076.89 | 30.29 | 115.65 | -6.64 | -3,368.83 | -132.57 | 2,493.83 | 2,375.92 | 117.92 | 21.149 | | |
| 5,900.00 | 5,725.02 | 10,411.48 | 7,076.88 | 30.83 | 115.58 | -6.55 | -3,368.82 | -134.83 | 2,417.70 | 2,297.61 | 120.09 | 20.132 | | |
| 6,000.00 | 5,821.66 | 10,409.23 | 7,076.88 | 31.37 | 115.51 | -6.47 | -3,368.82 | -137.08 | 2,343.36 | 2,221.03 | 122.33 | 19.156 | | |
| 6,100.00 | 5,918.29 | 10,406.98 | 7,076.88 | 31.90 | 115.44 | -6.39 | -3,368.81 | -139.33 | 2,270.98 | 2,146.36 | 124.62 | 18.223 | | |
| 6,200.00 | 6,014.93 | 10,404.73 | 7,076.88 | 32.44 | 115.36 | -6.31 | -3,368.80 | -141.58 | 2,200.77 | 2,073.81 | 126.96 | 17.334 | | |
| 6,300.00 | 6,111.57 | 10,402.48 | 7,076.87 | 32.98 | 115.29 | -6.23 | -3,368.80 | -143.83 | 2,132.94 | 2,003.62 | 129.32 | 16.493 | | |
| 6,400.00 | 6,208.21 | 10,400.22 | 7,076.87 | 33.52 | 115.22 | -6.15 | -3,368.79 | -146.09 | 2,067.71 | 1,936.02 | 131.69 | 15.701 | | |
| 6,500.00 | 6,304.84 | 10,402.03 | 7,076.87 | 34.06 | 115.28 | -6.07 | -3,368.79 | -148.34 | 2,005.35 | 1,871.18 | 134.17 | 14.946 | | |
| 6,600.00 | 6,401.37 | 10,393.54 | 7,076.87 | 34.60 | 115.01 | -26.02 | -3,368.78 | -152.77 | 1,946.18 | 1,809.89 | 136.29 | 14.279 | | |
| 6,700.00 | 6,496.25 | 10,375.27 | 7,076.85 | 35.12 | 114.44 | -53.76 | -3,368.73 | -171.03 | 1,891.22 | 1,753.23 | 137.99 | 13.705 | | |
| 6,800.00 | 6,587.15 | 10,341.87 | 7,076.81 | 35.59 | 113.39 | -70.09 | -3,368.65 | -204.44 | 1,841.80 | 1,702.80 | 139.00 | 13.250 | | |
| 6,900.00 | 6,671.83 | 10,294.15 | 7,076.77 | 36.03 | 111.90 | -79.88 | -3,368.53 | -252.16 | 1,798.81 | 1,659.53 | 139.28 | 12.915 | | |
| 7,000.00 | 6,748.21 | 10,236.75 | 7,076.71 | 36.41 | 110.10 | -85.92 | -3,368.38 | -313.02 | 1,762.73 | 1,623.76 | 138.97 | 12.684 | | |
| 7,100.00 | 6,814.41 | 10,160.79 | 7,076.63 | 36.76 | 107.73 | -89.66 | -3,368.20 | -385.52 | 1,733.58 | 1,595.75 | 137.83 | 12.577 | | |
| 7,200.00 | 6,868.79 | 10,078.43 | 7,076.55 | 37.07 | 105.17 | -91.93 | -3,368.00 | -467.88 | 1,711.12 | 1,574.79 | 136.33 | 12.551 SF | | |
| 7,300.00 | 6,910.01 | 9,988.24 | 7,076.46 | 37.39 | 102.38 | -93.24 | -3,367.77 | -558.07 | 1,694.89 | 1,560.36 | 134.53 | 12.599 | | |
| 7,400.00 | 6,937.07 | 9,892.44 | 7,076.37 | 37.76 | 99.43 | -93.95 | -3,367.54 | -653.86 | 1,684.39 | 1,551.82 | 132.57 | 12.706 | | |
| 7,500.00 | 6,949.29 | 9,793.40 | 7,076.27 | 38.27 | 96.40 | -94.27 | -3,367.29 | -752.91 | 1,679.26 | 1,548.68 | 130.58 | 12.860 | | |
| 7,600.00 | 6,949.75 | 9,693.41 | 7,076.17 | 39.02 | 93.36 | -94.32 | -3,367.05 | -852.89 | 1,678.15 | 1,549.48 | 128.67 | 13.043 | | |
| 7,700.00 | 6,949.37 | 9,593.42 | 7,076.07 | 40.05 | 90.34 | -94.33 | -3,366.80 | -952.89 | 1,677.33 | 1,550.38 | 126.95 | 13.213 | | |
| 7,800.00 | 6,948.99 | 9,493.42 | 7,075.97 | 41.35 | 87.34 | -94.35 | -3,366.55 | -1,052.88 | 1,676.50 | 1,551.10 | 125.40 | 13.369 | | |
| 7,900.00 | 6,948.61 | 9,393.43 | 7,075.87 | 42.86 | 84.37 | -94.36 | -3,366.30 | -1,152.88 | 1,675.68 | 1,551.66 | 124.02 | 13.511 | | |
| 8,000.00 | 6,948.23 | 9,293.43 | 7,075.77 | 44.53 | 81.42 | -94.37 | -3,366.06 | -1,252.88 | 1,674.86 | 1,552.06 | 122.80 | 13.639 | | |
| 8,100.00 | 6,947.85 | 9,192.50 | 7,075.48 | 46.34 | 78.49 | -94.37 | -3,365.81 | -1,353.80 | 1,674.02 | 1,552.36 | 121.67 | 13.759 | | |
| 8,200.00 | 6,947.47 | 9,092.51 | 7,074.66 | 48.26 | 75.62 | -94.36 | -3,365.56 | -1,453.79 | 1,673.15 | 1,552.44 | 120.71 | 13.861 | | |
| 8,300.00 | 6,947.09 | 8,992.51 | 7,073.83 | 50.28 | 72.79 | -94.35 | -3,365.31 | -1,553.78 | 1,672.27 | 1,552.40 | 119.87 | 13.951 | | |
| 8,400.00 | 6,946.72 | 8,892.52 | 7,073.00 | 52.39 | 70.01 | -94.34 | -3,365.07 | -1,653.77 | 1,671.39 | 1,552.25 | 119.14 | 14.029 | | |
| 8,500.00 | 6,946.34 | 8,792.52 | 7,072.17 | 54.56 | 67.30 | -94.32 | -3,364.82 | -1,753.77 | 1,670.51 | 1,552.00 | 118.52 | 14.095 | | |
| 8,600.00 | 6,945.96 | 8,692.53 | 7,071.35 | 56.80 | 64.65 | -94.31 | -3,364.57 | -1,853.76 | 1,669.64 | 1,551.63 | 118.00 | 14.149 | | |
| 8,700.00 | 6,945.58 | 8,592.53 | 7,070.52 | 59.10 | 62.08 | -94.30 | -3,364.32 | -1,953.75 | 1,668.76 | 1,551.16 | 117.60 | 14.190 | | |
| 8,800.00 | 6,945.20 | 8,492.54 | 7,069.69 | 61.44 | 59.61 | -94.28 | -3,364.08 | -2,053.74 | 1,667.88 | 1,550.58 | 117.30 | 14.219 | | |
| 8,900.00 | 6,944.82 | 8,392.54 | 7,068.86 | 63.83 | 57.25 | -94.27 | -3,363.83 | -2,153.73 | 1,667.01 | 1,549.89 | 117.11 | 14.234 | | |
| 9,000.00 | 6,944.44 | 8,292.55 | 7,068.04 | 66.25 | 55.05 | -94.26 | -3,363.58 | -2,253.72 | 1,666.13 | 1,549.08 | 117.05 | 14.235 | | |
| 9,100.00 | 6,944.06 | 8,192.55 | 7,067.21 | 68.71 | 53.04 | -94.24 | -3,363.34 | -2,353.72 | 1,665.25 | 1,548.15 | 117.11 | 14.220 | | |
| 9,200.00 | 6,943.68 | 8,092.56 | 7,066.38 | 71.20 | 51.26 | -94.23 | -3,363.09 | -2,453.71 | 1,664.38 | 1,547.07 | 117.31 | 14.188 | | |
| 9,300.00 | 6,943.30 | 7,992.56 | 7,065.56 | 73.72 | 49.77 | -94.22 | -3,362.84 | -2,553.70 | 1,663.50 | 1,545.84 | 117.66 | 14.138 | | |
| 9,400.00 | 6,942.92 | 7,892.56 | 7,064.73 | 76.26 | 48.60 | -94.20 | -3,362.59 | -2,653.69 | 1,662.62 | 1,544.44 | 118.18 | 14.068 | | |
| 9,500.00 | 6,942.54 | 7,792.57 | 7,063.90 | 78.82 | 47.74 | -94.19 | -3,362.35 | -2,753.68 | 1,661.75 | 1,542.85 | 118.90 | 13.977 | | |
| 9,600.00 | 6,942.16 | 7,692.57 | 7,063.07 | 81.40 | 47.15 | -94.18 | -3,362.10 | -2,853.67 | 1,660.87 | 1,541.05 | 119.82 | 13.861 | | |
| 9,700.00 | 6,941.78 | 7,600.00 | 7,062.29 | 84.00 | 46.79 | -94.16 | -3,361.88 | -2,946.24 | 1,660.02 | 1,538.89 | 121.12 | 13.705 | | |
| 9,731.14 | 6,941.67 | 7,575.97 | 7,061.47 | 84.82 | 46.71 | -94.14 | -3,361.99 | -2,970.26 | 1,659.91 | 1,538.24 | 121.67 | 13.643 CC | | |
| 9,800.00 | 6,941.40 | 7,530.34 | 7,057.50 | 86.62 | 46.59 | -94.01 | -3,362.85 | -3,015.70 | 1,660.40 | 1,537.36 | 123.04 | 13.495 ES | | |
| 9,900.00 | 6,941.03 | 7,465.59 | 7,046.52 | 89.25 | 46.44 | -93.63 | -3,365.53 | -3,079.43 | 1,662.88 | 1,537.77 | 125.11 | 13.292 | | |
| 10,000.00 | 6,940.65 | 7,400.00 | 7,029.08 | 91.90 | 46.29 | -93.03 | -3,369.96 | -3,142.47 | 1,667.65 | 1,540.43 | 127.22 | 13.108 | | |
| 10,100.00 | 6,940.27 | 7,345.44 | 7,009.87 | 94.56 | 46.18 | -92.37 | -3,374.93 | -3,193.28 | 1,674.96 | 1,545.47 | 129.49 | 12.935 | | |
| 10,200.00 | 6,939.89 | 7,291.50 | 6,986.82 | 97.23 | 46.06 | -91.58 | -3,380.95 | -3,241.66 | 1,685.13 | 1,553.38 | 131.75 | 12.791 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 25-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 7,242.06 | 6,962.30 | 99.91 | 45.96 | -90.74 | -3,387.41 | -3,284.07 | 1,698.45 | 1,564.50 | 133.94 | 12.680 | | |
| 10,400.00 | 6,939.13 | 7,200.00 | 6,938.98 | 102.60 | 45.85 | -89.95 | -3,393.57 | -3,318.53 | 1,715.18 | 1,579.10 | 136.08 | 12.604 | | |
| 10,500.00 | 6,938.75 | 7,156.48 | 6,912.61 | 105.30 | 45.74 | -89.07 | -3,400.56 | -3,352.43 | 1,735.55 | 1,597.47 | 138.07 | 12.570 | | |
| 10,600.00 | 6,938.37 | 7,121.76 | 6,890.01 | 108.00 | 45.64 | -88.31 | -3,406.57 | -3,378.07 | 1,759.69 | 1,619.76 | 139.93 | 12.576 | | |
| 10,700.00 | 6,937.99 | 7,086.80 | 6,865.92 | 110.72 | 45.53 | -87.51 | -3,412.99 | -3,402.58 | 1,787.70 | 1,646.10 | 141.61 | 12.625 | | |
| 10,800.00 | 6,937.61 | 7,050.00 | 6,839.20 | 113.44 | 45.42 | -86.63 | -3,420.12 | -3,426.85 | 1,819.63 | 1,676.55 | 143.08 | 12.718 | | |
| 10,900.00 | 6,937.23 | 7,035.01 | 6,827.94 | 116.17 | 45.36 | -86.26 | -3,423.13 | -3,436.27 | 1,855.36 | 1,710.96 | 144.40 | 12.849 | | |
| 11,000.00 | 6,936.85 | 7,000.00 | 6,800.83 | 118.90 | 45.24 | -85.38 | -3,430.39 | -3,457.20 | 1,894.90 | 1,749.40 | 145.50 | 13.024 | | |
| 11,100.00 | 6,936.47 | 6,984.12 | 6,788.17 | 121.64 | 45.18 | -84.98 | -3,433.78 | -3,466.17 | 1,938.06 | 1,791.63 | 146.44 | 13.235 | | |
| 11,200.00 | 6,936.09 | 6,950.00 | 6,760.27 | 124.39 | 45.05 | -84.08 | -3,441.26 | -3,484.33 | 1,984.90 | 1,837.73 | 147.17 | 13.487 | | |
| 11,300.00 | 6,935.71 | 6,950.00 | 6,760.27 | 127.14 | 45.05 | -84.08 | -3,441.26 | -3,484.33 | 2,034.82 | 1,887.04 | 147.77 | 13.770 | | |
| 11,400.00 | 6,935.34 | 6,935.01 | 6,747.73 | 129.90 | 44.98 | -83.69 | -3,444.63 | -3,491.81 | 2,088.04 | 1,939.84 | 148.21 | 14.089 | | |
| 11,500.00 | 6,934.96 | 6,914.53 | 6,730.32 | 132.66 | 44.90 | -83.14 | -3,449.31 | -3,501.54 | 2,144.23 | 1,995.72 | 148.51 | 14.439 | | |
| 11,600.00 | 6,934.58 | 6,900.00 | 6,717.80 | 135.42 | 44.83 | -82.75 | -3,452.67 | -3,508.08 | 2,203.23 | 2,054.55 | 148.68 | 14.818 | | |
| 11,700.00 | 6,934.20 | 6,900.00 | 6,717.80 | 138.19 | 44.83 | -82.75 | -3,452.67 | -3,508.08 | 2,264.96 | 2,116.23 | 148.74 | 15.228 | | |
| 11,800.00 | 6,933.82 | 6,876.20 | 6,696.97 | 140.96 | 44.72 | -82.10 | -3,458.28 | -3,518.16 | 2,328.91 | 2,180.19 | 148.72 | 15.660 | | |
| 11,900.00 | 6,933.44 | 6,850.00 | 6,673.66 | 143.74 | 44.60 | -81.38 | -3,464.55 | -3,528.31 | 2,395.43 | 2,246.81 | 148.62 | 16.118 | | |
| 12,000.00 | 6,933.06 | 6,850.00 | 6,673.66 | 146.51 | 44.60 | -81.38 | -3,464.55 | -3,528.31 | 2,463.70 | 2,315.27 | 148.43 | 16.598 | | |
| 12,100.00 | 6,932.68 | 6,850.00 | 6,673.66 | 149.30 | 44.60 | -81.38 | -3,464.55 | -3,528.31 | 2,534.08 | 2,385.91 | 148.17 | 17.102 | | |
| 12,200.00 | 6,932.30 | 6,835.01 | 6,660.14 | 152.08 | 44.53 | -80.97 | -3,468.19 | -3,533.67 | 2,606.27 | 2,458.38 | 147.89 | 17.623 | | |
| 12,300.00 | 6,931.92 | 6,835.01 | 6,660.14 | 154.87 | 44.53 | -80.97 | -3,468.19 | -3,533.67 | 2,680.17 | 2,532.63 | 147.54 | 18.166 | | |
| 12,400.00 | 6,931.54 | 6,821.54 | 6,647.89 | 157.66 | 44.46 | -80.60 | -3,471.50 | -3,538.20 | 2,755.57 | 2,608.38 | 147.19 | 18.722 | | |
| 12,500.00 | 6,931.16 | 6,814.44 | 6,641.40 | 160.45 | 44.42 | -80.41 | -3,473.25 | -3,540.48 | 2,832.43 | 2,685.64 | 146.79 | 19.296 | | |
| 12,600.00 | 6,930.78 | 6,800.00 | 6,628.13 | 163.24 | 44.35 | -80.01 | -3,476.83 | -3,544.89 | 2,910.67 | 2,764.29 | 146.39 | 19.883 | | |
| 12,700.00 | 6,930.40 | 6,800.00 | 6,628.13 | 166.04 | 44.35 | -80.01 | -3,476.83 | -3,544.89 | 2,990.05 | 2,844.11 | 145.94 | 20.488 | | |
| 12,800.00 | 6,930.03 | 6,800.00 | 6,628.13 | 168.84 | 44.35 | -80.01 | -3,476.83 | -3,544.89 | 3,070.63 | 2,925.15 | 145.48 | 21.107 | | |
| 12,900.00 | 6,929.65 | 6,800.00 | 6,628.13 | 171.64 | 44.35 | -80.01 | -3,476.83 | -3,544.89 | 3,152.33 | 3,007.32 | 145.01 | 21.738 | | |
| 13,000.00 | 6,929.27 | 6,800.00 | 6,628.13 | 174.44 | 44.35 | -80.01 | -3,476.83 | -3,544.89 | 3,235.05 | 3,090.52 | 144.54 | 22.382 | | |
| 13,100.00 | 6,928.89 | 6,779.84 | 6,609.44 | 177.24 | 44.24 | -79.45 | -3,481.87 | -3,550.52 | 3,318.38 | 3,174.26 | 144.12 | 23.025 | | |
| 13,200.00 | 6,928.51 | 6,775.14 | 6,605.06 | 180.05 | 44.22 | -79.32 | -3,483.05 | -3,551.74 | 3,402.76 | 3,259.10 | 143.66 | 23.686 | | |
| 13,300.00 | 6,928.13 | 6,770.68 | 6,600.89 | 182.86 | 44.19 | -79.20 | -3,484.18 | -3,552.88 | 3,487.93 | 3,344.73 | 143.20 | 24.356 | | |
| 13,400.00 | 6,927.75 | 6,750.56 | 6,582.01 | 185.67 | 44.08 | -78.64 | -3,489.28 | -3,557.60 | 3,574.05 | 3,431.26 | 142.79 | 25.030 | | |
| 13,500.00 | 6,927.37 | 6,750.56 | 6,582.01 | 188.48 | 44.08 | -78.64 | -3,489.28 | -3,557.60 | 3,660.55 | 3,518.22 | 142.33 | 25.718 | | |
| 13,600.00 | 6,926.99 | 6,750.56 | 6,582.01 | 191.29 | 44.08 | -78.64 | -3,489.28 | -3,557.60 | 3,747.72 | 3,605.84 | 141.88 | 26.415 | | |
| 13,700.00 | 6,926.61 | 6,750.56 | 6,582.01 | 194.10 | 44.08 | -78.64 | -3,489.28 | -3,557.60 | 3,835.52 | 3,694.09 | 141.43 | 27.119 | | |
| 13,800.00 | 6,926.23 | 6,750.56 | 6,582.01 | 196.92 | 44.08 | -78.64 | -3,489.28 | -3,557.60 | 3,923.90 | 3,782.91 | 140.99 | 27.830 | | |
| 13,900.00 | 6,925.85 | 6,750.56 | 6,582.01 | 199.73 | 44.08 | -78.64 | -3,489.28 | -3,557.60 | 4,012.83 | 3,872.26 | 140.56 | 28.548 | | |
| 14,000.00 | 6,925.47 | 6,750.56 | 6,582.01 | 202.55 | 44.08 | -78.64 | -3,489.28 | -3,557.60 | 4,102.26 | 3,962.12 | 140.14 | 29.273 | | |
| 14,100.00 | 6,925.09 | 6,741.90 | 6,573.84 | 205.37 | 44.03 | -78.40 | -3,491.49 | -3,559.44 | 4,192.12 | 4,052.36 | 139.75 | 29.996 | | |
| 14,200.00 | 6,924.71 | 6,735.01 | 6,567.33 | 208.19 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,282.44 | 4,143.07 | 139.37 | 30.727 | | |
| 14,300.00 | 6,924.34 | 6,735.01 | 6,567.33 | 211.01 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,373.15 | 4,234.17 | 138.98 | 31.466 | | |
| 14,400.00 | 6,923.96 | 6,735.01 | 6,567.33 | 213.83 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,464.25 | 4,325.66 | 138.60 | 32.211 | | |
| 14,500.00 | 6,923.58 | 6,735.01 | 6,567.33 | 216.65 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,555.73 | 4,417.51 | 138.22 | 32.960 | | |
| 14,600.00 | 6,923.20 | 6,735.01 | 6,567.33 | 219.48 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,647.56 | 4,509.70 | 137.86 | 33.713 | | |
| 14,700.00 | 6,922.82 | 6,735.01 | 6,567.33 | 222.30 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,739.72 | 4,602.22 | 137.50 | 34.470 | | |
| 14,800.00 | 6,922.44 | 6,735.01 | 6,567.33 | 225.13 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,832.19 | 4,695.03 | 137.16 | 35.231 | | |
| 14,900.00 | 6,922.06 | 6,735.01 | 6,567.33 | 227.95 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,924.96 | 4,788.14 | 136.82 | 35.996 | | |
| 14,915.55 | 6,922.00 | 6,735.01 | 6,567.33 | 228.39 | 44.00 | -78.21 | -3,493.24 | -3,560.82 | 4,939.41 | 4,802.64 | 136.77 | 36.115 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER FARM 1-21(PA_75CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 65.00 | 3.28 | 3.28 | -123.58 | -4,210.54 | -6,343.24 | 7,613.78 | | | | |
| 100.00 | 100.00 | 35.00 | 100.00 | 3.28 | 3.34 | -123.58 | -4,210.54 | -6,343.24 | 7,613.50 | 7,606.88 | 6.62 | 1,149.879 | |
| 200.00 | 200.00 | 135.00 | 200.00 | 3.34 | 4.42 | -123.58 | -4,210.54 | -6,343.24 | 7,613.50 | 7,605.74 | 7.76 | 981.108 | |
| 300.00 | 299.98 | 234.98 | 299.98 | 3.44 | 7.24 | 51.07 | -4,210.54 | -6,343.24 | 7,612.40 | 7,601.72 | 10.68 | 712.605 | |
| 400.00 | 399.84 | 334.84 | 399.84 | 3.59 | 10.47 | 51.15 | -4,210.54 | -6,343.24 | 7,609.11 | 7,595.05 | 14.06 | 541.168 | |
| 500.00 | 499.45 | 434.45 | 499.45 | 3.79 | 13.82 | 51.29 | -4,210.54 | -6,343.24 | 7,603.64 | 7,586.04 | 17.60 | 431.908 | |
| 600.00 | 598.70 | 533.70 | 598.70 | 4.03 | 17.20 | 51.48 | -4,210.54 | -6,343.24 | 7,596.00 | 7,574.77 | 21.23 | 357.751 | |
| 700.00 | 697.47 | 632.47 | 697.47 | 4.31 | 20.60 | 51.73 | -4,210.54 | -6,343.24 | 7,586.21 | 7,561.30 | 24.91 | 304.549 | |
| 800.00 | 795.62 | 730.62 | 795.62 | 4.64 | 23.99 | 52.03 | -4,210.54 | -6,343.24 | 7,574.30 | 7,545.68 | 28.62 | 264.682 | |
| 900.00 | 893.06 | 828.06 | 893.06 | 5.00 | 27.36 | 52.38 | -4,210.54 | -6,343.24 | 7,560.29 | 7,527.95 | 32.34 | 233.770 | |
| 1,000.00 | 989.78 | 924.78 | 989.78 | 5.39 | 30.71 | 52.64 | -4,210.54 | -6,343.24 | 7,544.53 | 7,508.46 | 36.08 | 209.134 | |
| 1,100.00 | 1,086.42 | 1,021.42 | 1,086.42 | 5.81 | 34.07 | 52.80 | -4,210.54 | -6,343.24 | 7,528.62 | 7,488.79 | 39.83 | 189.021 | |
| 1,200.00 | 1,183.06 | 1,118.06 | 1,183.06 | 6.25 | 37.43 | 52.95 | -4,210.54 | -6,343.24 | 7,512.76 | 7,469.16 | 43.61 | 172.290 | |
| 1,300.00 | 1,279.69 | 1,214.69 | 1,279.69 | 6.71 | 40.79 | 53.10 | -4,210.54 | -6,343.24 | 7,496.96 | 7,449.56 | 47.40 | 158.170 | |
| 1,400.00 | 1,376.33 | 1,311.33 | 1,376.33 | 7.17 | 44.16 | 53.26 | -4,210.54 | -6,343.24 | 7,481.21 | 7,430.01 | 51.21 | 146.103 | |
| 1,500.00 | 1,472.97 | 1,407.97 | 1,472.97 | 7.65 | 47.52 | 53.41 | -4,210.54 | -6,343.24 | 7,465.52 | 7,410.50 | 55.02 | 135.679 | |
| 1,600.00 | 1,569.61 | 1,504.61 | 1,569.61 | 8.13 | 50.89 | 53.57 | -4,210.54 | -6,343.24 | 7,449.89 | 7,391.04 | 58.85 | 126.589 | |
| 1,700.00 | 1,666.24 | 1,601.24 | 1,666.24 | 8.62 | 54.25 | 53.72 | -4,210.54 | -6,343.24 | 7,434.31 | 7,371.62 | 62.69 | 118.594 | |
| 1,800.00 | 1,762.88 | 1,702.12 | 1,762.88 | 9.12 | 57.77 | 53.88 | -4,210.54 | -6,343.24 | 7,418.78 | 7,352.10 | 66.68 | 111.264 | |
| 1,900.00 | 1,859.52 | 1,805.48 | 1,859.52 | 9.62 | 61.37 | 54.04 | -4,210.54 | -6,343.24 | 7,403.32 | 7,332.55 | 70.76 | 104.626 | |
| 2,000.00 | 1,956.16 | 1,908.84 | 1,956.16 | 10.13 | 64.98 | 54.20 | -4,210.54 | -6,343.24 | 7,387.90 | 7,313.06 | 74.85 | 98.705 | |
| 2,100.00 | 2,052.79 | 1,987.79 | 2,052.79 | 10.64 | 67.73 | 54.35 | -4,210.54 | -6,343.24 | 7,372.55 | 7,294.46 | 78.09 | 94.412 | |
| 2,200.00 | 2,149.43 | 2,084.43 | 2,149.43 | 11.15 | 71.10 | 54.51 | -4,210.54 | -6,343.24 | 7,357.26 | 7,275.31 | 81.95 | 89.777 | |
| 2,300.00 | 2,246.07 | 2,181.07 | 2,246.07 | 11.66 | 74.47 | 54.67 | -4,210.54 | -6,343.24 | 7,342.02 | 7,256.21 | 85.82 | 85.556 | |
| 2,400.00 | 2,342.71 | 2,277.71 | 2,342.71 | 12.18 | 77.84 | 54.83 | -4,210.54 | -6,343.24 | 7,326.84 | 7,237.16 | 89.68 | 81.696 | |
| 2,500.00 | 2,439.34 | 2,374.34 | 2,439.34 | 12.70 | 81.21 | 54.99 | -4,210.54 | -6,343.24 | 7,311.72 | 7,218.17 | 93.55 | 78.155 | |
| 2,600.00 | 2,535.98 | 2,470.98 | 2,535.98 | 13.22 | 84.58 | 55.16 | -4,210.54 | -6,343.24 | 7,296.66 | 7,199.24 | 97.43 | 74.893 | |
| 2,700.00 | 2,632.62 | 2,567.62 | 2,632.62 | 13.75 | 87.95 | 55.32 | -4,210.54 | -6,343.24 | 7,281.66 | 7,180.36 | 101.30 | 71.880 | |
| 2,800.00 | 2,729.26 | 2,664.26 | 2,729.26 | 14.27 | 91.32 | 55.48 | -4,210.54 | -6,343.24 | 7,266.72 | 7,161.54 | 105.18 | 69.089 | |
| 2,900.00 | 2,825.89 | 2,760.89 | 2,825.89 | 14.80 | 94.69 | 55.64 | -4,210.54 | -6,343.24 | 7,251.84 | 7,142.79 | 109.06 | 66.495 | |
| 3,000.00 | 2,922.53 | 2,857.53 | 2,922.53 | 15.32 | 98.07 | 55.81 | -4,210.54 | -6,343.24 | 7,237.03 | 7,124.09 | 112.94 | 64.079 | |
| 3,100.00 | 3,019.17 | 2,954.17 | 3,019.17 | 15.85 | 101.44 | 55.97 | -4,210.54 | -6,343.24 | 7,222.27 | 7,105.45 | 116.82 | 61.823 | |
| 3,200.00 | 3,115.81 | 3,050.81 | 3,115.81 | 16.38 | 104.81 | 56.14 | -4,210.54 | -6,343.24 | 7,207.57 | 7,086.87 | 120.71 | 59.712 | |
| 3,300.00 | 3,212.44 | 3,147.44 | 3,212.44 | 16.91 | 108.18 | 56.31 | -4,210.54 | -6,343.24 | 7,192.94 | 7,068.35 | 124.59 | 57.733 | |
| 3,400.00 | 3,309.08 | 3,244.08 | 3,309.08 | 17.44 | 111.55 | 56.47 | -4,210.54 | -6,343.24 | 7,178.36 | 7,049.89 | 128.48 | 55.873 | |
| 3,500.00 | 3,405.72 | 3,340.72 | 3,405.72 | 17.97 | 114.93 | 56.64 | -4,210.54 | -6,343.24 | 7,163.86 | 7,031.49 | 132.36 | 54.123 | |
| 3,600.00 | 3,502.36 | 3,437.36 | 3,502.36 | 18.50 | 118.30 | 56.81 | -4,210.54 | -6,343.24 | 7,149.41 | 7,013.16 | 136.25 | 52.472 | |
| 3,700.00 | 3,598.99 | 3,533.99 | 3,598.99 | 19.03 | 121.67 | 56.98 | -4,210.54 | -6,343.24 | 7,135.03 | 6,994.88 | 140.14 | 50.913 | |
| 3,800.00 | 3,695.63 | 3,630.63 | 3,695.63 | 19.57 | 125.04 | 57.15 | -4,210.54 | -6,343.24 | 7,120.71 | 6,976.68 | 144.03 | 49.438 | |
| 3,900.00 | 3,792.27 | 3,727.27 | 3,792.27 | 20.10 | 128.42 | 57.32 | -4,210.54 | -6,343.24 | 7,106.45 | 6,958.53 | 147.92 | 48.042 | |
| 4,000.00 | 3,888.91 | 3,823.91 | 3,888.91 | 20.63 | 131.79 | 57.49 | -4,210.54 | -6,343.24 | 7,092.26 | 6,940.45 | 151.82 | 46.716 | |
| 4,100.00 | 3,985.54 | 3,920.54 | 3,985.54 | 21.17 | 135.16 | 57.66 | -4,210.54 | -6,343.24 | 7,078.14 | 6,922.43 | 155.71 | 45.458 | |
| 4,200.00 | 4,082.18 | 4,017.18 | 4,082.18 | 21.70 | 138.53 | 57.83 | -4,210.54 | -6,343.24 | 7,064.08 | 6,904.47 | 159.60 | 44.261 | |
| 4,300.00 | 4,178.82 | 4,113.82 | 4,178.82 | 22.24 | 141.91 | 58.00 | -4,210.54 | -6,343.24 | 7,050.08 | 6,886.58 | 163.50 | 43.121 | |
| 4,400.00 | 4,275.46 | 4,210.46 | 4,275.46 | 22.77 | 145.28 | 58.18 | -4,210.54 | -6,343.24 | 7,036.15 | 6,868.76 | 167.39 | 42.034 | |
| 4,500.00 | 4,372.09 | 4,307.09 | 4,372.09 | 23.31 | 148.65 | 58.35 | -4,210.54 | -6,343.24 | 7,022.29 | 6,851.00 | 171.29 | 40.997 | |
| 4,600.00 | 4,468.73 | 4,403.73 | 4,468.73 | 23.84 | 152.02 | 58.52 | -4,210.54 | -6,343.24 | 7,008.50 | 6,833.31 | 175.19 | 40.006 | |
| 4,700.00 | 4,565.37 | 4,500.37 | 4,565.37 | 24.38 | 155.40 | 58.70 | -4,210.54 | -6,343.24 | 6,994.77 | 6,815.69 | 179.08 | 39.059 | |
| 4,800.00 | 4,662.01 | 4,602.99 | 4,662.01 | 24.91 | 158.98 | 58.88 | -4,210.54 | -6,343.24 | 6,981.11 | 6,797.92 | 183.19 | 38.109 | |
| 4,900.00 | 4,758.64 | 4,706.36 | 4,758.64 | 25.45 | 162.59 | 59.05 | -4,210.54 | -6,343.24 | 6,967.52 | 6,780.19 | 187.32 | 37.195 | |
| 5,000.00 | 4,855.28 | 4,809.72 | 4,855.28 | 25.99 | 166.19 | 59.23 | -4,210.54 | -6,343.24 | 6,954.00 | 6,762.54 | 191.46 | 36.321 | |
| 5,100.00 | 4,951.92 | 4,886.92 | 4,951.92 | 26.53 | 168.89 | 59.41 | -4,210.54 | -6,343.24 | 6,940.54 | 6,745.86 | 194.68 | 35.651 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER FARM 1-21(PA_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,983.56 | 5,048.56 | 27.06 | 172.26 | 59.59 | -4,210.54 | -6,343.24 | 6,927.16 | 6,728.58 | 198.58 | 34.883 | | |
| 5,300.00 | 5,145.19 | 5,080.19 | 5,145.19 | 27.60 | 175.64 | 59.76 | -4,210.54 | -6,343.24 | 6,913.84 | 6,711.36 | 202.48 | 34.146 | | |
| 5,400.00 | 5,241.83 | 5,176.83 | 5,241.83 | 28.14 | 179.01 | 59.94 | -4,210.54 | -6,343.24 | 6,900.60 | 6,694.21 | 206.38 | 33.436 | | |
| 5,500.00 | 5,338.47 | 5,273.47 | 5,338.47 | 28.67 | 182.38 | 60.12 | -4,210.54 | -6,343.24 | 6,887.42 | 6,677.14 | 210.29 | 32.753 | | |
| 5,600.00 | 5,435.11 | 5,370.11 | 5,435.11 | 29.21 | 185.75 | 60.31 | -4,210.54 | -6,343.24 | 6,874.32 | 6,660.13 | 214.19 | 32.095 | | |
| 5,700.00 | 5,531.74 | 5,466.74 | 5,531.74 | 29.75 | 189.13 | 60.49 | -4,210.54 | -6,343.24 | 6,861.29 | 6,643.19 | 218.09 | 31.460 | | |
| 5,800.00 | 5,628.38 | 5,563.38 | 5,628.38 | 30.29 | 192.50 | 60.67 | -4,210.54 | -6,343.24 | 6,848.33 | 6,626.33 | 222.00 | 30.849 | | |
| 5,900.00 | 5,725.02 | 5,660.02 | 5,725.02 | 30.83 | 195.87 | 60.85 | -4,210.54 | -6,343.24 | 6,835.44 | 6,609.54 | 225.90 | 30.259 | | |
| 6,000.00 | 5,821.66 | 5,756.66 | 5,821.66 | 31.37 | 199.25 | 61.04 | -4,210.54 | -6,343.24 | 6,822.62 | 6,592.82 | 229.81 | 29.689 | | |
| 6,100.00 | 5,918.29 | 5,853.29 | 5,918.29 | 31.90 | 202.62 | 61.22 | -4,210.54 | -6,343.24 | 6,809.88 | 6,576.17 | 233.71 | 29.138 | | |
| 6,200.00 | 6,014.93 | 5,949.93 | 6,014.93 | 32.44 | 205.99 | 61.41 | -4,210.54 | -6,343.24 | 6,797.21 | 6,559.59 | 237.62 | 28.606 | | |
| 6,300.00 | 6,111.57 | 6,046.57 | 6,111.57 | 32.98 | 209.37 | 61.59 | -4,210.54 | -6,343.24 | 6,784.61 | 6,543.09 | 241.52 | 28.091 | | |
| 6,400.00 | 6,208.21 | 6,143.21 | 6,208.21 | 33.52 | 212.74 | 61.78 | -4,210.54 | -6,343.24 | 6,772.09 | 6,526.66 | 245.43 | 27.593 | | |
| 6,500.00 | 6,304.84 | 6,239.84 | 6,304.84 | 34.06 | 216.11 | 61.97 | -4,210.54 | -6,343.24 | 6,759.65 | 6,510.31 | 249.34 | 27.110 | | |
| 6,600.00 | 6,401.37 | 6,336.37 | 6,401.37 | 34.60 | 219.48 | 45.15 | -4,210.54 | -6,343.24 | 6,745.28 | 6,492.04 | 253.24 | 26.636 | | |
| 6,700.00 | 6,496.25 | 6,431.25 | 6,496.25 | 35.12 | 222.79 | 21.82 | -4,210.54 | -6,343.24 | 6,718.39 | 6,461.35 | 257.05 | 26.137 | | |
| 6,800.00 | 6,587.15 | 6,522.15 | 6,587.15 | 35.59 | 225.97 | 7.87 | -4,210.54 | -6,343.24 | 6,677.99 | 6,417.34 | 260.66 | 25.620 | | |
| 6,900.00 | 6,671.83 | 6,606.83 | 6,671.83 | 36.03 | 228.92 | -1.63 | -4,210.54 | -6,343.24 | 6,625.04 | 6,361.05 | 263.99 | 25.096 | | |
| 7,000.00 | 6,748.21 | 6,683.21 | 6,748.21 | 36.41 | 231.59 | -9.67 | -4,210.54 | -6,343.24 | 6,560.84 | 6,293.88 | 266.97 | 24.575 | | |
| 7,100.00 | 6,814.41 | 6,749.41 | 6,814.41 | 36.76 | 233.90 | -18.10 | -4,210.54 | -6,343.24 | 6,486.99 | 6,217.47 | 269.52 | 24.069 | | |
| 7,200.00 | 6,868.79 | 6,803.79 | 6,868.79 | 37.07 | 235.80 | -28.56 | -4,210.54 | -6,343.24 | 6,405.34 | 6,133.76 | 271.58 | 23.586 | | |
| 7,300.00 | 6,910.01 | 6,845.01 | 6,910.01 | 37.39 | 237.24 | -42.88 | -4,210.54 | -6,343.24 | 6,317.95 | 6,044.84 | 273.11 | 23.133 | | |
| 7,400.00 | 6,937.07 | 6,872.07 | 6,937.07 | 37.76 | 238.18 | -62.11 | -4,210.54 | -6,343.24 | 6,227.07 | 5,952.98 | 274.09 | 22.719 | | |
| 7,500.00 | 6,949.29 | 6,884.29 | 6,949.29 | 38.27 | 238.61 | -83.75 | -4,210.54 | -6,343.24 | 6,135.00 | 5,860.48 | 274.52 | 22.348 | | |
| 7,600.00 | 6,949.75 | 6,884.75 | 6,949.75 | 39.02 | 238.62 | -90.48 | -4,210.54 | -6,343.24 | 6,043.62 | 5,769.08 | 274.55 | 22.013 | | |
| 7,700.00 | 6,949.37 | 6,884.37 | 6,949.37 | 40.05 | 238.61 | -90.47 | -4,210.54 | -6,343.24 | 5,952.60 | 5,678.02 | 274.58 | 21.679 | | |
| 7,800.00 | 6,948.99 | 6,883.99 | 6,948.99 | 41.35 | 238.60 | -90.46 | -4,210.54 | -6,343.24 | 5,861.87 | 5,587.20 | 274.68 | 21.341 | | |
| 7,900.00 | 6,948.61 | 6,883.61 | 6,948.61 | 42.86 | 238.58 | -90.46 | -4,210.54 | -6,343.24 | 5,771.45 | 5,496.63 | 274.82 | 21.001 | | |
| 8,000.00 | 6,948.23 | 6,883.23 | 6,948.23 | 44.53 | 238.57 | -90.45 | -4,210.54 | -6,343.24 | 5,681.35 | 5,406.32 | 275.03 | 20.657 | | |
| 8,100.00 | 6,947.85 | 6,882.85 | 6,947.85 | 46.34 | 238.56 | -90.44 | -4,210.54 | -6,343.24 | 5,591.59 | 5,316.28 | 275.31 | 20.310 | | |
| 8,200.00 | 6,947.47 | 6,882.47 | 6,947.47 | 48.26 | 238.54 | -90.43 | -4,210.54 | -6,343.24 | 5,502.18 | 5,226.53 | 275.65 | 19.961 | | |
| 8,300.00 | 6,947.09 | 6,882.09 | 6,947.09 | 50.28 | 238.53 | -90.42 | -4,210.54 | -6,343.24 | 5,413.14 | 5,137.07 | 276.07 | 19.608 | | |
| 8,400.00 | 6,946.72 | 6,881.72 | 6,946.72 | 52.39 | 238.52 | -90.41 | -4,210.54 | -6,343.24 | 5,324.48 | 5,047.92 | 276.57 | 19.252 | | |
| 8,500.00 | 6,946.34 | 6,881.34 | 6,946.34 | 54.56 | 238.50 | -90.40 | -4,210.54 | -6,343.24 | 5,236.24 | 4,959.10 | 277.14 | 18.894 | | |
| 8,600.00 | 6,945.96 | 6,880.96 | 6,945.96 | 56.80 | 238.49 | -90.39 | -4,210.54 | -6,343.24 | 5,148.43 | 4,870.62 | 277.81 | 18.532 | | |
| 8,700.00 | 6,945.58 | 6,880.58 | 6,945.58 | 59.10 | 238.48 | -90.39 | -4,210.54 | -6,343.24 | 5,061.07 | 4,782.50 | 278.57 | 18.168 | | |
| 8,800.00 | 6,945.20 | 6,880.20 | 6,945.20 | 61.44 | 238.47 | -90.38 | -4,210.54 | -6,343.24 | 4,974.18 | 4,694.76 | 279.42 | 17.802 | | |
| 8,900.00 | 6,944.82 | 6,879.82 | 6,944.82 | 63.83 | 238.45 | -90.37 | -4,210.54 | -6,343.24 | 4,887.80 | 4,607.42 | 280.37 | 17.433 | | |
| 9,000.00 | 6,944.44 | 6,879.44 | 6,944.44 | 66.25 | 238.44 | -90.36 | -4,210.54 | -6,343.24 | 4,801.94 | 4,520.52 | 281.43 | 17.063 | | |
| 9,100.00 | 6,944.06 | 6,879.06 | 6,944.06 | 68.71 | 238.43 | -90.35 | -4,210.54 | -6,343.24 | 4,716.65 | 4,434.06 | 282.58 | 16.691 | | |
| 9,200.00 | 6,943.68 | 6,878.68 | 6,943.68 | 71.20 | 238.41 | -90.34 | -4,210.54 | -6,343.24 | 4,631.94 | 4,348.08 | 283.85 | 16.318 | | |
| 9,300.00 | 6,943.30 | 6,878.30 | 6,943.30 | 73.72 | 238.40 | -90.33 | -4,210.54 | -6,343.24 | 4,547.85 | 4,262.62 | 285.23 | 15.945 | | |
| 9,400.00 | 6,942.92 | 6,877.92 | 6,942.92 | 76.26 | 238.39 | -90.32 | -4,210.54 | -6,343.24 | 4,464.42 | 4,177.69 | 286.72 | 15.571 | | |
| 9,500.00 | 6,942.54 | 6,877.54 | 6,942.54 | 78.82 | 238.37 | -90.32 | -4,210.54 | -6,343.24 | 4,381.68 | 4,093.35 | 288.33 | 15.197 | | |
| 9,600.00 | 6,942.16 | 6,877.16 | 6,942.16 | 81.40 | 238.36 | -90.31 | -4,210.54 | -6,343.24 | 4,299.67 | 4,009.61 | 290.06 | 14.823 | | |
| 9,700.00 | 6,941.78 | 6,876.78 | 6,941.78 | 84.00 | 238.35 | -90.30 | -4,210.54 | -6,343.24 | 4,218.44 | 3,926.53 | 291.91 | 14.451 | | |
| 9,800.00 | 6,941.40 | 6,876.40 | 6,941.40 | 86.62 | 238.33 | -90.29 | -4,210.54 | -6,343.24 | 4,138.04 | 3,844.15 | 293.89 | 14.080 | | |
| 9,900.00 | 6,941.03 | 6,876.03 | 6,941.03 | 89.25 | 238.32 | -90.28 | -4,210.54 | -6,343.24 | 4,058.50 | 3,762.51 | 295.99 | 13.712 | | |
| 10,000.00 | 6,940.65 | 6,875.65 | 6,940.65 | 91.90 | 238.31 | -90.27 | -4,210.54 | -6,343.24 | 3,979.89 | 3,681.67 | 298.22 | 13.346 | | |
| 10,100.00 | 6,940.27 | 6,875.27 | 6,940.27 | 94.56 | 238.29 | -90.26 | -4,210.54 | -6,343.24 | 3,902.26 | 3,601.68 | 300.58 | 12.982 | | |
| 10,200.00 | 6,939.89 | 6,874.89 | 6,939.89 | 97.23 | 238.28 | -90.25 | -4,210.54 | -6,343.24 | 3,825.66 | 3,522.59 | 303.07 | 12.623 | | |
| 10,300.00 | 6,939.51 | 6,874.51 | 6,939.51 | 99.91 | 238.27 | -90.25 | -4,210.54 | -6,343.24 | 3,750.17 | 3,444.47 | 305.70 | 12.267 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LEFFLER FARM 1-21(PA_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,874.13 | 6,939.13 | 102.60 | 238.25 | -90.24 | -4,210.54 | -6,343.24 | 3,675.85 | 3,367.38 | 308.47 | 11.916 | | |
| 10,500.00 | 6,938.75 | 6,873.75 | 6,938.75 | 105.30 | 238.24 | -90.23 | -4,210.54 | -6,343.24 | 3,602.77 | 3,291.40 | 311.37 | 11.571 | | |
| 10,600.00 | 6,938.37 | 6,873.37 | 6,938.37 | 108.00 | 238.23 | -90.22 | -4,210.54 | -6,343.24 | 3,531.01 | 3,216.60 | 314.41 | 11.231 | | |
| 10,700.00 | 6,937.99 | 6,872.99 | 6,937.99 | 110.72 | 238.21 | -90.21 | -4,210.54 | -6,343.24 | 3,460.65 | 3,143.06 | 317.59 | 10.897 | | |
| 10,800.00 | 6,937.61 | 6,872.61 | 6,937.61 | 113.44 | 238.20 | -90.20 | -4,210.54 | -6,343.24 | 3,391.78 | 3,070.88 | 320.91 | 10.569 | | |
| 10,900.00 | 6,937.23 | 6,872.23 | 6,937.23 | 116.17 | 238.19 | -90.19 | -4,210.54 | -6,343.24 | 3,324.50 | 3,000.13 | 324.36 | 10.249 | | |
| 11,000.00 | 6,936.85 | 6,871.85 | 6,936.85 | 118.90 | 238.17 | -90.18 | -4,210.54 | -6,343.24 | 3,258.89 | 2,930.93 | 327.95 | 9.937 | | |
| 11,100.00 | 6,936.47 | 6,871.47 | 6,936.47 | 121.64 | 238.16 | -90.18 | -4,210.54 | -6,343.24 | 3,195.06 | 2,863.39 | 331.68 | 9.633 | | |
| 11,200.00 | 6,936.09 | 6,871.09 | 6,936.09 | 124.39 | 238.15 | -90.17 | -4,210.54 | -6,343.24 | 3,133.13 | 2,797.60 | 335.53 | 9.338 | | |
| 11,300.00 | 6,935.71 | 6,870.71 | 6,935.71 | 127.14 | 238.13 | -90.16 | -4,210.54 | -6,343.24 | 3,073.21 | 2,733.70 | 339.51 | 9.052 | | |
| 11,400.00 | 6,935.34 | 6,870.34 | 6,935.34 | 129.90 | 238.12 | -90.15 | -4,210.54 | -6,343.24 | 3,015.41 | 2,671.80 | 343.61 | 8.776 | | |
| 11,500.00 | 6,934.96 | 6,869.96 | 6,934.96 | 132.66 | 238.11 | -90.14 | -4,210.54 | -6,343.24 | 2,959.86 | 2,612.05 | 347.81 | 8.510 | | |
| 11,600.00 | 6,934.58 | 6,869.58 | 6,934.58 | 135.42 | 238.09 | -90.13 | -4,210.54 | -6,343.24 | 2,906.69 | 2,554.58 | 352.11 | 8.255 | | |
| 11,700.00 | 6,934.20 | 6,869.20 | 6,934.20 | 138.19 | 238.08 | -90.12 | -4,210.54 | -6,343.24 | 2,856.03 | 2,499.53 | 356.50 | 8.011 | | |
| 11,800.00 | 6,933.82 | 6,868.82 | 6,933.82 | 140.96 | 238.07 | -90.11 | -4,210.54 | -6,343.24 | 2,808.03 | 2,447.07 | 360.96 | 7.779 | | |
| 11,900.00 | 6,933.44 | 6,868.44 | 6,933.44 | 143.74 | 238.05 | -90.11 | -4,210.54 | -6,343.24 | 2,762.80 | 2,397.33 | 365.47 | 7.560 | | |
| 12,000.00 | 6,933.06 | 6,868.06 | 6,933.06 | 146.51 | 238.04 | -90.10 | -4,210.54 | -6,343.24 | 2,720.51 | 2,350.49 | 370.02 | 7.352 | | |
| 12,100.00 | 6,932.68 | 6,867.68 | 6,932.68 | 149.30 | 238.03 | -90.09 | -4,210.54 | -6,343.24 | 2,681.28 | 2,306.70 | 374.58 | 7.158 | | |
| 12,200.00 | 6,932.30 | 6,867.30 | 6,932.30 | 152.08 | 238.02 | -90.08 | -4,210.54 | -6,343.24 | 2,645.25 | 2,266.12 | 379.12 | 6.977 | | |
| 12,300.00 | 6,931.92 | 6,866.92 | 6,931.92 | 154.87 | 238.00 | -90.07 | -4,210.54 | -6,343.24 | 2,612.55 | 2,228.91 | 383.63 | 6.810 | | |
| 12,400.00 | 6,931.54 | 6,866.54 | 6,931.54 | 157.66 | 237.99 | -90.06 | -4,210.54 | -6,343.24 | 2,583.31 | 2,195.23 | 388.08 | 6.657 | | |
| 12,500.00 | 6,931.16 | 6,866.16 | 6,931.16 | 160.45 | 237.98 | -90.05 | -4,210.54 | -6,343.24 | 2,557.65 | 2,165.22 | 392.43 | 6.517 | | |
| 12,600.00 | 6,930.78 | 6,865.78 | 6,930.78 | 163.24 | 237.96 | -90.04 | -4,210.54 | -6,343.24 | 2,535.67 | 2,139.01 | 396.66 | 6.393 | | |
| 12,700.00 | 6,930.40 | 6,865.40 | 6,930.40 | 166.04 | 237.95 | -90.04 | -4,210.54 | -6,343.24 | 2,517.48 | 2,116.74 | 400.74 | 6.282 | | |
| 12,800.00 | 6,930.03 | 6,865.03 | 6,930.03 | 168.84 | 237.94 | -90.03 | -4,210.54 | -6,343.24 | 2,503.16 | 2,098.52 | 404.64 | 6.186 | | |
| 12,900.00 | 6,929.65 | 6,864.65 | 6,929.65 | 171.64 | 237.92 | -90.02 | -4,210.54 | -6,343.24 | 2,492.76 | 2,084.44 | 408.33 | 6.105 | | |
| 13,000.00 | 6,929.27 | 6,864.27 | 6,929.27 | 174.44 | 237.91 | -90.01 | -4,210.54 | -6,343.24 | 2,486.35 | 2,074.56 | 411.79 | 6.038 | | |
| 13,100.00 | 6,928.89 | 6,863.89 | 6,928.89 | 177.24 | 237.90 | -90.00 | -4,210.54 | -6,343.24 | 2,483.95 | 2,068.96 | 415.00 | 5.985 | | |
| 13,109.62 | 6,928.85 | 6,863.85 | 6,928.85 | 177.51 | 237.89 | -90.00 | -4,210.54 | -6,343.24 | 2,483.93 | 2,068.64 | 415.29 | 5.981 CC | | |
| 13,200.00 | 6,928.51 | 6,863.51 | 6,928.51 | 180.05 | 237.88 | -89.99 | -4,210.54 | -6,343.24 | 2,485.58 | 2,067.65 | 417.93 | 5.947 ES | | |
| 13,300.00 | 6,928.13 | 6,863.13 | 6,928.13 | 182.86 | 237.87 | -89.98 | -4,210.54 | -6,343.24 | 2,491.22 | 2,070.63 | 420.59 | 5.923 | | |
| 13,400.00 | 6,927.75 | 6,862.75 | 6,927.75 | 185.67 | 237.86 | -89.97 | -4,210.54 | -6,343.24 | 2,500.85 | 2,077.90 | 422.95 | 5.913 SF | | |
| 13,500.00 | 6,927.37 | 6,862.37 | 6,927.37 | 188.48 | 237.84 | -89.97 | -4,210.54 | -6,343.24 | 2,514.42 | 2,089.42 | 425.01 | 5.916 | | |
| 13,600.00 | 6,926.99 | 6,861.99 | 6,926.99 | 191.29 | 237.83 | -89.96 | -4,210.54 | -6,343.24 | 2,531.88 | 2,105.11 | 426.77 | 5.933 | | |
| 13,700.00 | 6,926.61 | 6,861.61 | 6,926.61 | 194.10 | 237.82 | -89.95 | -4,210.54 | -6,343.24 | 2,553.13 | 2,124.90 | 428.23 | 5.962 | | |
| 13,800.00 | 6,926.23 | 6,861.23 | 6,926.23 | 196.92 | 237.80 | -89.94 | -4,210.54 | -6,343.24 | 2,578.09 | 2,148.68 | 429.41 | 6.004 | | |
| 13,900.00 | 6,925.85 | 6,860.85 | 6,925.85 | 199.73 | 237.79 | -89.93 | -4,210.54 | -6,343.24 | 2,606.65 | 2,176.34 | 430.31 | 6.058 | | |
| 14,000.00 | 6,925.47 | 6,860.47 | 6,925.47 | 202.55 | 237.78 | -89.92 | -4,210.54 | -6,343.24 | 2,638.69 | 2,207.75 | 430.94 | 6.123 | | |
| 14,100.00 | 6,925.09 | 6,860.09 | 6,925.09 | 205.37 | 237.76 | -89.91 | -4,210.54 | -6,343.24 | 2,674.09 | 2,242.77 | 431.33 | 6.200 | | |
| 14,200.00 | 6,924.71 | 6,859.71 | 6,924.71 | 208.19 | 237.75 | -89.90 | -4,210.54 | -6,343.24 | 2,712.72 | 2,281.24 | 431.48 | 6.287 | | |
| 14,300.00 | 6,924.34 | 6,859.34 | 6,924.34 | 211.01 | 237.74 | -89.90 | -4,210.54 | -6,343.24 | 2,754.44 | 2,323.01 | 431.42 | 6.385 | | |
| 14,400.00 | 6,923.96 | 6,858.96 | 6,923.96 | 213.83 | 237.72 | -89.89 | -4,210.54 | -6,343.24 | 2,799.10 | 2,367.94 | 431.17 | 6.492 | | |
| 14,500.00 | 6,923.58 | 6,858.58 | 6,923.58 | 216.65 | 237.71 | -89.88 | -4,210.54 | -6,343.24 | 2,846.59 | 2,415.85 | 430.74 | 6.609 | | |
| 14,600.00 | 6,923.20 | 6,858.20 | 6,923.20 | 219.48 | 237.70 | -89.87 | -4,210.54 | -6,343.24 | 2,896.75 | 2,466.59 | 430.15 | 6.734 | | |
| 14,700.00 | 6,922.82 | 6,857.82 | 6,922.82 | 222.30 | 237.68 | -89.86 | -4,210.54 | -6,343.24 | 2,949.44 | 2,520.01 | 429.43 | 6.868 | | |
| 14,800.00 | 6,922.44 | 6,857.44 | 6,922.44 | 225.13 | 237.67 | -89.85 | -4,210.54 | -6,343.24 | 3,004.54 | 2,575.95 | 428.59 | 7.010 | | |
| 14,900.00 | 6,922.06 | 6,857.06 | 6,922.06 | 227.95 | 237.66 | -89.84 | -4,210.54 | -6,343.24 | 3,061.92 | 2,634.28 | 427.64 | 7.160 | | |
| 14,915.55 | 6,922.00 | 6,857.00 | 6,922.00 | 228.39 | 237.66 | -89.84 | -4,210.54 | -6,343.24 | 3,071.04 | 2,643.55 | 427.48 | 7.184 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LOVELY 1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 18.00 | 3.28 | 3.28 | -67.84 | 2,588.49 | -6,355.68 | 6,862.59 | | | | | |
| 100.00 | 100.00 | 82.00 | 100.00 | 3.28 | 3.58 | -67.84 | 2,588.49 | -6,355.68 | 6,862.57 | 6,855.71 | 6.86 | 999.878 | | |
| 200.00 | 200.00 | 182.00 | 200.00 | 3.34 | 5.66 | -67.84 | 2,588.49 | -6,355.68 | 6,862.57 | 6,853.58 | 8.99 | 763.077 | | |
| 300.00 | 299.98 | 281.98 | 299.98 | 3.44 | 8.74 | 106.78 | 2,588.49 | -6,355.68 | 6,863.07 | 6,850.90 | 12.18 | 563.619 | | |
| 400.00 | 399.84 | 381.84 | 399.84 | 3.59 | 12.04 | 106.80 | 2,588.49 | -6,355.68 | 6,864.59 | 6,848.96 | 15.63 | 439.234 | | |
| 500.00 | 499.45 | 481.45 | 499.45 | 3.79 | 15.42 | 106.82 | 2,588.49 | -6,355.68 | 6,867.12 | 6,847.92 | 19.20 | 357.630 | | |
| 600.00 | 598.70 | 580.70 | 598.70 | 4.03 | 18.81 | 106.84 | 2,588.49 | -6,355.68 | 6,870.67 | 6,847.83 | 22.84 | 300.758 | | |
| 700.00 | 697.47 | 679.47 | 697.47 | 4.31 | 22.22 | 106.88 | 2,588.49 | -6,355.68 | 6,875.26 | 6,848.73 | 26.53 | 259.131 | | |
| 800.00 | 795.62 | 777.62 | 795.62 | 4.64 | 25.61 | 106.92 | 2,588.49 | -6,355.68 | 6,880.90 | 6,850.65 | 30.25 | 227.476 | | |
| 900.00 | 893.06 | 875.06 | 893.06 | 5.00 | 28.99 | 106.97 | 2,588.49 | -6,355.68 | 6,887.62 | 6,853.63 | 33.98 | 202.670 | | |
| 1,000.00 | 989.78 | 971.78 | 989.78 | 5.39 | 32.35 | 107.10 | 2,588.49 | -6,355.68 | 6,895.27 | 6,857.54 | 37.73 | 182.742 | | |
| 1,100.00 | 1,086.42 | 1,068.42 | 1,086.42 | 5.81 | 35.70 | 107.30 | 2,588.49 | -6,355.68 | 6,903.11 | 6,861.61 | 41.50 | 166.321 | | |
| 1,200.00 | 1,183.06 | 1,165.06 | 1,183.06 | 6.25 | 39.06 | 107.49 | 2,588.49 | -6,355.68 | 6,911.04 | 6,865.74 | 45.30 | 152.567 | | |
| 1,300.00 | 1,279.69 | 1,261.69 | 1,279.69 | 6.71 | 42.43 | 107.69 | 2,588.49 | -6,355.68 | 6,919.06 | 6,869.95 | 49.11 | 140.892 | | |
| 1,400.00 | 1,376.33 | 1,358.33 | 1,376.33 | 7.17 | 45.79 | 107.89 | 2,588.49 | -6,355.68 | 6,927.16 | 6,874.23 | 52.93 | 130.867 | | |
| 1,500.00 | 1,472.97 | 1,454.97 | 1,472.97 | 7.65 | 49.16 | 108.08 | 2,588.49 | -6,355.68 | 6,935.35 | 6,878.58 | 56.77 | 122.171 | | |
| 1,600.00 | 1,569.61 | 1,551.61 | 1,569.61 | 8.13 | 52.52 | 108.28 | 2,588.49 | -6,355.68 | 6,943.62 | 6,883.01 | 60.61 | 114.560 | | |
| 1,700.00 | 1,666.24 | 1,648.24 | 1,666.24 | 8.62 | 55.89 | 108.47 | 2,588.49 | -6,355.68 | 6,951.98 | 6,887.52 | 64.46 | 107.846 | | |
| 1,800.00 | 1,762.88 | 1,744.88 | 1,762.88 | 9.12 | 59.26 | 108.67 | 2,588.49 | -6,355.68 | 6,960.43 | 6,892.11 | 68.32 | 101.880 | | |
| 1,900.00 | 1,859.52 | 1,841.52 | 1,859.52 | 9.62 | 62.63 | 108.86 | 2,588.49 | -6,355.68 | 6,968.96 | 6,896.77 | 72.18 | 96.547 | | |
| 2,000.00 | 1,956.16 | 1,938.16 | 1,956.16 | 10.13 | 66.00 | 109.06 | 2,588.49 | -6,355.68 | 6,977.57 | 6,901.52 | 76.05 | 91.751 | | |
| 2,100.00 | 2,052.79 | 2,034.79 | 2,052.79 | 10.64 | 69.37 | 109.25 | 2,588.49 | -6,355.68 | 6,986.27 | 6,906.35 | 79.92 | 87.416 | | |
| 2,200.00 | 2,149.43 | 2,131.43 | 2,149.43 | 11.15 | 72.74 | 109.44 | 2,588.49 | -6,355.68 | 6,995.05 | 6,911.25 | 83.79 | 83.480 | | |
| 2,300.00 | 2,246.07 | 2,228.07 | 2,246.07 | 11.66 | 76.11 | 109.64 | 2,588.49 | -6,355.68 | 7,003.91 | 6,916.24 | 87.67 | 79.890 | | |
| 2,400.00 | 2,342.71 | 2,324.71 | 2,342.71 | 12.18 | 79.48 | 109.83 | 2,588.49 | -6,355.68 | 7,012.86 | 6,921.31 | 91.55 | 76.603 | | |
| 2,500.00 | 2,439.34 | 2,421.34 | 2,439.34 | 12.70 | 82.85 | 110.02 | 2,588.49 | -6,355.68 | 7,021.89 | 6,926.46 | 95.43 | 73.583 | | |
| 2,600.00 | 2,535.98 | 2,517.98 | 2,535.98 | 13.22 | 86.22 | 110.21 | 2,588.49 | -6,355.68 | 7,031.00 | 6,931.69 | 99.31 | 70.798 | | |
| 2,700.00 | 2,632.62 | 2,614.62 | 2,632.62 | 13.75 | 89.59 | 110.40 | 2,588.49 | -6,355.68 | 7,040.20 | 6,937.00 | 103.19 | 68.222 | | |
| 2,800.00 | 2,729.26 | 2,711.26 | 2,729.26 | 14.27 | 92.96 | 110.59 | 2,588.49 | -6,355.68 | 7,049.47 | 6,942.39 | 107.08 | 65.834 | | |
| 2,900.00 | 2,825.89 | 2,807.89 | 2,825.89 | 14.80 | 96.33 | 110.78 | 2,588.49 | -6,355.68 | 7,058.83 | 6,947.86 | 110.97 | 63.612 | | |
| 3,000.00 | 2,922.53 | 2,904.53 | 2,922.53 | 15.32 | 99.71 | 110.97 | 2,588.49 | -6,355.68 | 7,068.27 | 6,953.42 | 114.85 | 61.542 | | |
| 3,100.00 | 3,019.17 | 3,001.17 | 3,019.17 | 15.85 | 103.08 | 111.16 | 2,588.49 | -6,355.68 | 7,077.79 | 6,959.05 | 118.74 | 59.607 | | |
| 3,200.00 | 3,115.81 | 3,102.19 | 3,115.81 | 16.38 | 106.60 | 111.35 | 2,588.49 | -6,355.68 | 7,087.39 | 6,964.61 | 122.78 | 57.723 | | |
| 3,300.00 | 3,212.44 | 3,205.56 | 3,212.44 | 16.91 | 110.21 | 111.53 | 2,588.49 | -6,355.68 | 7,097.07 | 6,970.16 | 126.91 | 55.923 | | |
| 3,400.00 | 3,309.08 | 3,308.92 | 3,309.08 | 17.44 | 113.82 | 111.72 | 2,588.49 | -6,355.68 | 7,106.83 | 6,975.80 | 131.03 | 54.237 | | |
| 3,500.00 | 3,405.72 | 3,387.72 | 3,405.72 | 17.97 | 116.57 | 111.91 | 2,588.49 | -6,355.68 | 7,116.67 | 6,982.37 | 134.30 | 52.991 | | |
| 3,600.00 | 3,502.36 | 3,484.36 | 3,502.36 | 18.50 | 119.94 | 112.09 | 2,588.49 | -6,355.68 | 7,126.59 | 6,988.40 | 138.19 | 51.570 | | |
| 3,700.00 | 3,598.99 | 3,580.99 | 3,598.99 | 19.03 | 123.31 | 112.28 | 2,588.49 | -6,355.68 | 7,136.59 | 6,994.51 | 142.08 | 50.228 | | |
| 3,800.00 | 3,695.63 | 3,677.63 | 3,695.63 | 19.57 | 126.68 | 112.47 | 2,588.49 | -6,355.68 | 7,146.66 | 7,000.69 | 145.97 | 48.958 | | |
| 3,900.00 | 3,792.27 | 3,774.27 | 3,792.27 | 20.10 | 130.06 | 112.65 | 2,588.49 | -6,355.68 | 7,156.82 | 7,006.95 | 149.87 | 47.755 | | |
| 4,000.00 | 3,888.91 | 3,870.91 | 3,888.91 | 20.63 | 133.43 | 112.83 | 2,588.49 | -6,355.68 | 7,167.05 | 7,013.29 | 153.76 | 46.613 | | |
| 4,100.00 | 3,985.54 | 3,967.54 | 3,985.54 | 21.17 | 136.80 | 113.02 | 2,588.49 | -6,355.68 | 7,177.36 | 7,019.71 | 157.65 | 45.527 | | |
| 4,200.00 | 4,082.18 | 4,064.18 | 4,082.18 | 21.70 | 140.17 | 113.20 | 2,588.49 | -6,355.68 | 7,187.75 | 7,026.21 | 161.54 | 44.495 | | |
| 4,300.00 | 4,178.82 | 4,160.82 | 4,178.82 | 22.24 | 143.55 | 113.38 | 2,588.49 | -6,355.68 | 7,198.21 | 7,032.78 | 165.43 | 43.511 | | |
| 4,400.00 | 4,275.46 | 4,257.46 | 4,275.46 | 22.77 | 146.92 | 113.57 | 2,588.49 | -6,355.68 | 7,208.75 | 7,039.43 | 169.33 | 42.573 | | |
| 4,500.00 | 4,372.09 | 4,354.09 | 4,372.09 | 23.31 | 150.29 | 113.75 | 2,588.49 | -6,355.68 | 7,219.37 | 7,046.15 | 173.22 | 41.678 | | |
| 4,600.00 | 4,468.73 | 4,450.73 | 4,468.73 | 23.84 | 153.66 | 113.93 | 2,588.49 | -6,355.68 | 7,230.06 | 7,052.95 | 177.11 | 40.822 | | |
| 4,700.00 | 4,565.37 | 4,547.37 | 4,565.37 | 24.38 | 157.04 | 114.11 | 2,588.49 | -6,355.68 | 7,240.83 | 7,059.83 | 181.00 | 40.004 | | |
| 4,800.00 | 4,662.01 | 4,644.01 | 4,662.01 | 24.91 | 160.41 | 114.29 | 2,588.49 | -6,355.68 | 7,251.68 | 7,066.78 | 184.90 | 39.220 | | |
| 4,900.00 | 4,758.64 | 4,740.64 | 4,758.64 | 25.45 | 163.78 | 114.47 | 2,588.49 | -6,355.68 | 7,262.59 | 7,073.81 | 188.79 | 38.469 | | |
| 5,000.00 | 4,855.28 | 4,837.28 | 4,855.28 | 25.99 | 167.16 | 114.65 | 2,588.49 | -6,355.68 | 7,273.59 | 7,080.91 | 192.68 | 37.749 | | |
| 5,100.00 | 4,951.92 | 4,933.92 | 4,951.92 | 26.53 | 170.53 | 114.83 | 2,588.49 | -6,355.68 | 7,284.65 | 7,088.08 | 196.57 | 37.058 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LOVELY 1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,030.56 | 5,048.56 | 27.06 | 173.90 | 115.01 | 2,588.49 | -6,355.68 | 7,295.80 | 7,095.33 | 200.47 | 36.394 | | |
| 5,300.00 | 5,145.19 | 5,127.19 | 5,145.19 | 27.60 | 177.28 | 115.18 | 2,588.49 | -6,355.68 | 7,307.01 | 7,102.65 | 204.36 | 35.756 | | |
| 5,400.00 | 5,241.83 | 5,223.83 | 5,241.83 | 28.14 | 180.65 | 115.36 | 2,588.49 | -6,355.68 | 7,318.30 | 7,110.05 | 208.25 | 35.142 | | |
| 5,500.00 | 5,338.47 | 5,320.47 | 5,338.47 | 28.67 | 184.02 | 115.54 | 2,588.49 | -6,355.68 | 7,329.66 | 7,117.52 | 212.14 | 34.551 | | |
| 5,600.00 | 5,435.11 | 5,417.11 | 5,435.11 | 29.21 | 187.39 | 115.71 | 2,588.49 | -6,355.68 | 7,341.09 | 7,125.06 | 216.03 | 33.981 | | |
| 5,700.00 | 5,531.74 | 5,513.74 | 5,531.74 | 29.75 | 190.77 | 115.89 | 2,588.49 | -6,355.68 | 7,352.60 | 7,132.67 | 219.92 | 33.432 | | |
| 5,800.00 | 5,628.38 | 5,610.38 | 5,628.38 | 30.29 | 194.14 | 116.07 | 2,588.49 | -6,355.68 | 7,364.17 | 7,140.36 | 223.82 | 32.903 | | |
| 5,900.00 | 5,725.02 | 5,707.02 | 5,725.02 | 30.83 | 197.51 | 116.24 | 2,588.49 | -6,355.68 | 7,375.82 | 7,148.11 | 227.71 | 32.392 | | |
| 6,000.00 | 5,821.66 | 5,803.66 | 5,821.66 | 31.37 | 200.89 | 116.41 | 2,588.49 | -6,355.68 | 7,387.54 | 7,155.94 | 231.60 | 31.898 | | |
| 6,100.00 | 5,918.29 | 5,900.29 | 5,918.29 | 31.90 | 204.26 | 116.59 | 2,588.49 | -6,355.68 | 7,399.33 | 7,163.84 | 235.49 | 31.421 | | |
| 6,200.00 | 6,014.93 | 6,003.07 | 6,014.93 | 32.44 | 207.85 | 116.76 | 2,588.49 | -6,355.68 | 7,411.19 | 7,171.60 | 239.59 | 30.932 | | |
| 6,300.00 | 6,111.57 | 6,106.43 | 6,111.57 | 32.98 | 211.46 | 116.93 | 2,588.49 | -6,355.68 | 7,423.12 | 7,179.40 | 243.72 | 30.458 | | |
| 6,400.00 | 6,208.21 | 6,209.79 | 6,208.21 | 33.52 | 215.06 | 117.11 | 2,588.49 | -6,355.68 | 7,435.12 | 7,187.28 | 247.84 | 29.999 | | |
| 6,500.00 | 6,304.84 | 6,286.84 | 6,304.84 | 34.06 | 217.75 | 117.28 | 2,588.49 | -6,355.68 | 7,447.19 | 7,196.14 | 251.05 | 29.664 | | |
| 6,600.00 | 6,401.37 | 6,383.37 | 6,401.37 | 34.60 | 221.12 | 100.53 | 2,588.49 | -6,355.68 | 7,457.51 | 7,202.57 | 254.94 | 29.252 | | |
| 6,700.00 | 6,496.25 | 6,478.25 | 6,496.25 | 35.12 | 224.43 | 78.33 | 2,588.49 | -6,355.68 | 7,456.23 | 7,197.47 | 258.76 | 28.815 | | |
| 6,800.00 | 6,587.15 | 6,569.15 | 6,587.15 | 35.59 | 227.61 | 66.93 | 2,588.49 | -6,355.68 | 7,442.02 | 7,179.60 | 262.42 | 28.359 | | |
| 6,900.00 | 6,671.83 | 6,653.83 | 6,671.83 | 36.03 | 230.56 | 61.64 | 2,588.49 | -6,355.68 | 7,415.36 | 7,149.53 | 265.83 | 27.895 | | |
| 7,000.00 | 6,748.21 | 6,730.21 | 6,748.21 | 36.41 | 233.23 | 59.98 | 2,588.49 | -6,355.68 | 7,377.01 | 7,108.07 | 268.94 | 27.430 | | |
| 7,100.00 | 6,814.41 | 6,803.59 | 6,814.41 | 36.76 | 235.79 | 60.90 | 2,588.49 | -6,355.68 | 7,328.03 | 7,056.09 | 271.94 | 26.948 | | |
| 7,200.00 | 6,868.79 | 6,850.79 | 6,868.79 | 37.07 | 237.44 | 64.03 | 2,588.49 | -6,355.68 | 7,269.72 | 6,995.68 | 274.04 | 26.528 | | |
| 7,300.00 | 6,910.01 | 6,907.99 | 6,910.01 | 37.39 | 239.44 | 69.35 | 2,588.49 | -6,355.68 | 7,203.60 | 6,927.06 | 276.54 | 26.049 | | |
| 7,400.00 | 6,937.07 | 6,919.07 | 6,937.07 | 37.76 | 239.82 | 76.91 | 2,588.49 | -6,355.68 | 7,131.32 | 6,853.84 | 277.48 | 25.700 | | |
| 7,500.00 | 6,949.29 | 6,931.29 | 6,949.29 | 38.27 | 240.25 | 86.64 | 2,588.49 | -6,355.68 | 7,054.69 | 6,776.17 | 278.52 | 25.329 | | |
| 7,600.00 | 6,949.75 | 6,931.75 | 6,949.75 | 39.02 | 240.26 | 90.28 | 2,588.49 | -6,355.68 | 6,975.99 | 6,696.79 | 279.20 | 24.986 | | |
| 7,700.00 | 6,949.37 | 6,931.37 | 6,949.37 | 40.05 | 240.25 | 90.27 | 2,588.49 | -6,355.68 | 6,897.69 | 6,617.75 | 279.94 | 24.640 | | |
| 7,800.00 | 6,948.99 | 6,930.99 | 6,948.99 | 41.35 | 240.24 | 90.27 | 2,588.49 | -6,355.68 | 6,819.96 | 6,539.19 | 280.77 | 24.290 | | |
| 7,900.00 | 6,948.61 | 6,930.61 | 6,948.61 | 42.86 | 240.23 | 90.26 | 2,588.49 | -6,355.68 | 6,742.82 | 6,461.13 | 281.70 | 23.936 | | |
| 8,000.00 | 6,948.23 | 6,930.23 | 6,948.23 | 44.53 | 240.21 | 90.26 | 2,588.49 | -6,355.68 | 6,666.29 | 6,383.58 | 282.71 | 23.580 | | |
| 8,100.00 | 6,947.85 | 6,929.85 | 6,947.85 | 46.34 | 240.20 | 90.25 | 2,588.49 | -6,355.68 | 6,590.38 | 6,306.56 | 283.82 | 23.220 | | |
| 8,200.00 | 6,947.47 | 6,929.47 | 6,947.47 | 48.26 | 240.19 | 90.25 | 2,588.49 | -6,355.68 | 6,515.13 | 6,230.11 | 285.02 | 22.859 | | |
| 8,300.00 | 6,947.09 | 6,929.09 | 6,947.09 | 50.28 | 240.17 | 90.24 | 2,588.49 | -6,355.68 | 6,440.55 | 6,154.24 | 286.31 | 22.495 | | |
| 8,400.00 | 6,946.72 | 6,928.72 | 6,946.72 | 52.39 | 240.16 | 90.24 | 2,588.49 | -6,355.68 | 6,366.66 | 6,078.97 | 287.69 | 22.130 | | |
| 8,500.00 | 6,946.34 | 6,928.34 | 6,946.34 | 54.56 | 240.15 | 90.23 | 2,588.49 | -6,355.68 | 6,293.50 | 6,004.34 | 289.16 | 21.765 | | |
| 8,600.00 | 6,945.96 | 6,927.96 | 6,945.96 | 56.80 | 240.13 | 90.23 | 2,588.49 | -6,355.68 | 6,221.08 | 5,930.36 | 290.72 | 21.399 | | |
| 8,700.00 | 6,945.58 | 6,927.58 | 6,945.58 | 59.10 | 240.12 | 90.22 | 2,588.49 | -6,355.68 | 6,149.44 | 5,857.08 | 292.36 | 21.034 | | |
| 8,800.00 | 6,945.20 | 6,927.20 | 6,945.20 | 61.44 | 240.11 | 90.22 | 2,588.49 | -6,355.68 | 6,078.60 | 5,784.50 | 294.09 | 20.669 | | |
| 8,900.00 | 6,944.82 | 6,926.82 | 6,944.82 | 63.83 | 240.09 | 90.21 | 2,588.49 | -6,355.68 | 6,008.58 | 5,712.68 | 295.91 | 20.306 | | |
| 9,000.00 | 6,944.44 | 6,926.44 | 6,944.44 | 66.25 | 240.08 | 90.21 | 2,588.49 | -6,355.68 | 5,939.43 | 5,641.62 | 297.81 | 19.944 | | |
| 9,100.00 | 6,944.06 | 6,926.06 | 6,944.06 | 68.71 | 240.07 | 90.20 | 2,588.49 | -6,355.68 | 5,871.16 | 5,571.38 | 299.78 | 19.585 | | |
| 9,200.00 | 6,943.68 | 6,925.68 | 6,943.68 | 71.20 | 240.05 | 90.20 | 2,588.49 | -6,355.68 | 5,803.82 | 5,501.97 | 301.84 | 19.228 | | |
| 9,300.00 | 6,943.30 | 6,925.30 | 6,943.30 | 73.72 | 240.04 | 90.19 | 2,588.49 | -6,355.68 | 5,737.43 | 5,433.44 | 303.98 | 18.874 | | |
| 9,400.00 | 6,942.92 | 6,924.92 | 6,942.92 | 76.26 | 240.03 | 90.19 | 2,588.49 | -6,355.68 | 5,672.02 | 5,365.82 | 306.20 | 18.524 | | |
| 9,500.00 | 6,942.54 | 6,924.54 | 6,942.54 | 78.82 | 240.01 | 90.18 | 2,588.49 | -6,355.68 | 5,607.63 | 5,299.14 | 308.49 | 18.178 | | |
| 9,600.00 | 6,942.16 | 6,924.16 | 6,942.16 | 81.40 | 240.00 | 90.18 | 2,588.49 | -6,355.68 | 5,544.30 | 5,233.45 | 310.85 | 17.836 | | |
| 9,700.00 | 6,941.78 | 6,923.78 | 6,941.78 | 84.00 | 239.99 | 90.17 | 2,588.49 | -6,355.68 | 5,482.06 | 5,168.77 | 313.29 | 17.498 | | |
| 9,800.00 | 6,941.40 | 6,923.40 | 6,941.40 | 86.62 | 239.97 | 90.17 | 2,588.49 | -6,355.68 | 5,420.95 | 5,105.15 | 315.80 | 17.166 | | |
| 9,900.00 | 6,941.03 | 6,923.03 | 6,941.03 | 89.25 | 239.96 | 90.16 | 2,588.49 | -6,355.68 | 5,361.02 | 5,042.63 | 318.38 | 16.838 | | |
| 10,000.00 | 6,940.65 | 6,922.65 | 6,940.65 | 91.90 | 239.95 | 90.16 | 2,588.49 | -6,355.68 | 5,302.28 | 4,981.26 | 321.03 | 16.517 | | |
| 10,100.00 | 6,940.27 | 6,922.27 | 6,940.27 | 94.56 | 239.93 | 90.15 | 2,588.49 | -6,355.68 | 5,244.80 | 4,921.07 | 323.74 | 16.201 | | |
| 10,200.00 | 6,939.89 | 6,921.89 | 6,939.89 | 97.23 | 239.92 | 90.15 | 2,588.49 | -6,355.68 | 5,188.61 | 4,862.10 | 326.51 | 15.891 | | |
| 10,300.00 | 6,939.51 | 6,921.51 | 6,939.51 | 99.91 | 239.91 | 90.14 | 2,588.49 | -6,355.68 | 5,133.75 | 4,804.41 | 329.35 | 15.588 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LOVELY 1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,921.13 | 6,939.13 | 102.60 | 239.89 | 90.14 | 2,588.49 | -6,355.68 | 5,080.27 | 4,748.03 | 332.24 | 15.291 | | |
| 10,500.00 | 6,938.75 | 6,920.75 | 6,938.75 | 105.30 | 239.88 | 90.13 | 2,588.49 | -6,355.68 | 5,028.21 | 4,693.02 | 335.19 | 15.001 | | |
| 10,600.00 | 6,938.37 | 6,920.37 | 6,938.37 | 108.00 | 239.87 | 90.12 | 2,588.49 | -6,355.68 | 4,977.61 | 4,639.42 | 338.20 | 14.718 | | |
| 10,700.00 | 6,937.99 | 6,919.99 | 6,937.99 | 110.72 | 239.85 | 90.12 | 2,588.49 | -6,355.68 | 4,928.53 | 4,587.28 | 341.25 | 14.443 | | |
| 10,800.00 | 6,937.61 | 6,919.61 | 6,937.61 | 113.44 | 239.84 | 90.11 | 2,588.49 | -6,355.68 | 4,881.00 | 4,536.65 | 344.35 | 14.175 | | |
| 10,900.00 | 6,937.23 | 6,919.23 | 6,937.23 | 116.17 | 239.83 | 90.11 | 2,588.49 | -6,355.68 | 4,835.07 | 4,487.58 | 347.49 | 13.914 | | |
| 11,000.00 | 6,936.85 | 6,918.85 | 6,936.85 | 118.90 | 239.81 | 90.10 | 2,588.49 | -6,355.68 | 4,790.78 | 4,440.12 | 350.67 | 13.662 | | |
| 11,100.00 | 6,936.47 | 6,918.47 | 6,936.47 | 121.64 | 239.80 | 90.10 | 2,588.49 | -6,355.68 | 4,748.19 | 4,394.31 | 353.88 | 13.418 | | |
| 11,200.00 | 6,936.09 | 6,918.09 | 6,936.09 | 124.39 | 239.79 | 90.09 | 2,588.49 | -6,355.68 | 4,707.34 | 4,350.22 | 357.12 | 13.181 | | |
| 11,300.00 | 6,935.71 | 6,917.71 | 6,935.71 | 127.14 | 239.77 | 90.09 | 2,588.49 | -6,355.68 | 4,668.28 | 4,307.89 | 360.39 | 12.953 | | |
| 11,400.00 | 6,935.34 | 6,917.34 | 6,935.34 | 129.90 | 239.76 | 90.08 | 2,588.49 | -6,355.68 | 4,631.04 | 4,267.36 | 363.68 | 12.734 | | |
| 11,500.00 | 6,934.96 | 6,916.96 | 6,934.96 | 132.66 | 239.75 | 90.08 | 2,588.49 | -6,355.68 | 4,595.68 | 4,228.70 | 366.98 | 12.523 | | |
| 11,600.00 | 6,934.58 | 6,916.58 | 6,934.58 | 135.42 | 239.74 | 90.07 | 2,588.49 | -6,355.68 | 4,562.24 | 4,191.95 | 370.29 | 12.321 | | |
| 11,700.00 | 6,934.20 | 6,916.20 | 6,934.20 | 138.19 | 239.72 | 90.07 | 2,588.49 | -6,355.68 | 4,530.75 | 4,157.15 | 373.60 | 12.127 | | |
| 11,800.00 | 6,933.82 | 6,915.82 | 6,933.82 | 140.96 | 239.71 | 90.06 | 2,588.49 | -6,355.68 | 4,501.27 | 4,124.37 | 376.91 | 11.943 | | |
| 11,900.00 | 6,933.44 | 6,915.44 | 6,933.44 | 143.74 | 239.70 | 90.06 | 2,588.49 | -6,355.68 | 4,473.84 | 4,093.63 | 380.21 | 11.767 | | |
| 12,000.00 | 6,933.06 | 6,915.06 | 6,933.06 | 146.51 | 239.68 | 90.05 | 2,588.49 | -6,355.68 | 4,448.48 | 4,064.99 | 383.49 | 11.600 | | |
| 12,100.00 | 6,932.68 | 6,914.68 | 6,932.68 | 149.30 | 239.67 | 90.05 | 2,588.49 | -6,355.68 | 4,425.23 | 4,038.48 | 386.75 | 11.442 | | |
| 12,200.00 | 6,932.30 | 6,914.30 | 6,932.30 | 152.08 | 239.66 | 90.04 | 2,588.49 | -6,355.68 | 4,404.13 | 4,014.16 | 389.98 | 11.293 | | |
| 12,300.00 | 6,931.92 | 6,913.92 | 6,931.92 | 154.87 | 239.64 | 90.04 | 2,588.49 | -6,355.68 | 4,385.22 | 3,992.05 | 393.17 | 11.153 | | |
| 12,400.00 | 6,931.54 | 6,913.54 | 6,931.54 | 157.66 | 239.63 | 90.03 | 2,588.49 | -6,355.68 | 4,368.51 | 3,972.19 | 396.32 | 11.023 | | |
| 12,500.00 | 6,931.16 | 6,913.16 | 6,931.16 | 160.45 | 239.62 | 90.03 | 2,588.49 | -6,355.68 | 4,354.03 | 3,954.61 | 399.42 | 10.901 | | |
| 12,600.00 | 6,930.78 | 6,912.78 | 6,930.78 | 163.24 | 239.60 | 90.02 | 2,588.49 | -6,355.68 | 4,341.81 | 3,939.35 | 402.47 | 10.788 | | |
| 12,700.00 | 6,930.40 | 6,912.40 | 6,930.40 | 166.04 | 239.59 | 90.02 | 2,588.49 | -6,355.68 | 4,331.87 | 3,926.42 | 405.45 | 10.684 | | |
| 12,800.00 | 6,930.03 | 6,912.03 | 6,930.03 | 168.84 | 239.58 | 90.01 | 2,588.49 | -6,355.68 | 4,324.21 | 3,915.85 | 408.36 | 10.589 | | |
| 12,900.00 | 6,929.65 | 6,911.65 | 6,929.65 | 171.64 | 239.56 | 90.01 | 2,588.49 | -6,355.68 | 4,318.86 | 3,907.66 | 411.20 | 10.503 | | |
| 13,000.00 | 6,929.27 | 6,911.27 | 6,929.27 | 174.44 | 239.55 | 90.00 | 2,588.49 | -6,355.68 | 4,315.81 | 3,901.86 | 413.96 | 10.426 | | |
| 13,081.35 | 6,928.96 | 6,910.96 | 6,928.96 | 176.72 | 239.54 | 90.00 | 2,588.49 | -6,355.68 | 4,315.05 | 3,898.91 | 416.14 | 10.369 CC | | |
| 13,100.00 | 6,928.89 | 6,910.89 | 6,928.89 | 177.24 | 239.54 | 90.00 | 2,588.49 | -6,355.68 | 4,315.09 | 3,898.45 | 416.63 | 10.357 | | |
| 13,200.00 | 6,928.51 | 6,910.51 | 6,928.51 | 180.05 | 239.52 | 89.99 | 2,588.49 | -6,355.68 | 4,316.68 | 3,897.46 | 419.22 | 10.297 ES | | |
| 13,300.00 | 6,928.13 | 6,910.13 | 6,928.13 | 182.86 | 239.51 | 89.99 | 2,588.49 | -6,355.68 | 4,320.58 | 3,898.87 | 421.71 | 10.245 | | |
| 13,400.00 | 6,927.75 | 6,909.75 | 6,927.75 | 185.67 | 239.50 | 89.98 | 2,588.49 | -6,355.68 | 4,326.80 | 3,902.69 | 424.10 | 10.202 | | |
| 13,500.00 | 6,927.37 | 6,909.37 | 6,927.37 | 188.48 | 239.48 | 89.98 | 2,588.49 | -6,355.68 | 4,335.31 | 3,908.91 | 426.39 | 10.167 | | |
| 13,600.00 | 6,926.99 | 6,908.99 | 6,926.99 | 191.29 | 239.47 | 89.97 | 2,588.49 | -6,355.68 | 4,346.10 | 3,917.52 | 428.58 | 10.141 | | |
| 13,700.00 | 6,926.61 | 6,908.61 | 6,926.61 | 194.10 | 239.46 | 89.97 | 2,588.49 | -6,355.68 | 4,359.17 | 3,928.50 | 430.67 | 10.122 | | |
| 13,800.00 | 6,926.23 | 6,908.23 | 6,926.23 | 196.92 | 239.44 | 89.96 | 2,588.49 | -6,355.68 | 4,374.48 | 3,941.84 | 432.65 | 10.111 | | |
| 13,900.00 | 6,925.85 | 6,907.85 | 6,925.85 | 199.73 | 239.43 | 89.96 | 2,588.49 | -6,355.68 | 4,392.02 | 3,957.50 | 434.51 | 10.108 SF | | |
| 14,000.00 | 6,925.47 | 6,907.47 | 6,925.47 | 202.55 | 239.42 | 89.95 | 2,588.49 | -6,355.68 | 4,411.75 | 3,975.48 | 436.27 | 10.112 | | |
| 14,100.00 | 6,925.09 | 6,907.09 | 6,925.09 | 205.37 | 239.40 | 89.95 | 2,588.49 | -6,355.68 | 4,433.65 | 3,995.72 | 437.93 | 10.124 | | |
| 14,200.00 | 6,924.71 | 6,906.71 | 6,924.71 | 208.19 | 239.39 | 89.94 | 2,588.49 | -6,355.68 | 4,457.69 | 4,018.22 | 439.47 | 10.143 | | |
| 14,300.00 | 6,924.34 | 6,906.34 | 6,924.34 | 211.01 | 239.38 | 89.94 | 2,588.49 | -6,355.68 | 4,483.83 | 4,042.92 | 440.91 | 10.170 | | |
| 14,400.00 | 6,923.96 | 6,905.96 | 6,923.96 | 213.83 | 239.36 | 89.93 | 2,588.49 | -6,355.68 | 4,512.03 | 4,069.80 | 442.24 | 10.203 | | |
| 14,500.00 | 6,923.58 | 6,905.58 | 6,923.58 | 216.65 | 239.35 | 89.93 | 2,588.49 | -6,355.68 | 4,542.26 | 4,098.80 | 443.46 | 10.243 | | |
| 14,600.00 | 6,923.20 | 6,905.20 | 6,923.20 | 219.48 | 239.34 | 89.92 | 2,588.49 | -6,355.68 | 4,574.48 | 4,129.89 | 444.59 | 10.289 | | |
| 14,700.00 | 6,922.82 | 6,904.82 | 6,922.82 | 222.30 | 239.32 | 89.92 | 2,588.49 | -6,355.68 | 4,608.65 | 4,163.03 | 445.61 | 10.342 | | |
| 14,800.00 | 6,922.44 | 6,904.44 | 6,922.44 | 225.13 | 239.31 | 89.91 | 2,588.49 | -6,355.68 | 4,644.71 | 4,198.17 | 446.54 | 10.401 | | |
| 14,900.00 | 6,922.06 | 6,904.06 | 6,922.06 | 227.95 | 239.30 | 89.91 | 2,588.49 | -6,355.68 | 4,682.63 | 4,235.26 | 447.38 | 10.467 | | |
| 14,915.55 | 6,922.00 | 6,904.00 | 6,922.00 | 228.39 | 239.30 | 89.91 | 2,588.49 | -6,355.68 | 4,688.70 | 4,241.20 | 447.50 | 10.478 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LOVELY 14-9(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 15.00 | 3.28 | 3.28 | -72.18 | 2,523.34 | -7,851.93 | 8,247.45 | | | | | |
| 100.00 | 100.00 | 85.00 | 100.00 | 3.28 | 3.60 | -72.18 | 2,523.34 | -7,851.93 | 8,247.43 | 8,240.55 | 6.88 | 1,197.942 | | |
| 200.00 | 200.00 | 185.00 | 200.00 | 3.34 | 5.74 | -72.18 | 2,523.34 | -7,851.93 | 8,247.43 | 8,238.35 | 9.08 | 908.415 | | |
| 300.00 | 299.98 | 284.98 | 299.98 | 3.44 | 8.83 | 102.44 | 2,523.34 | -7,851.93 | 8,247.81 | 8,235.53 | 12.27 | 671.978 | | |
| 400.00 | 399.84 | 384.84 | 399.84 | 3.59 | 12.14 | 102.45 | 2,523.34 | -7,851.93 | 8,248.94 | 8,233.21 | 15.73 | 524.435 | | |
| 500.00 | 499.45 | 484.45 | 499.45 | 3.79 | 15.52 | 102.47 | 2,523.34 | -7,851.93 | 8,250.83 | 8,231.52 | 19.30 | 427.419 | | |
| 600.00 | 598.70 | 583.70 | 598.70 | 4.03 | 18.92 | 102.50 | 2,523.34 | -7,851.93 | 8,253.48 | 8,230.53 | 22.95 | 359.669 | | |
| 700.00 | 697.47 | 682.47 | 697.47 | 4.31 | 22.32 | 102.54 | 2,523.34 | -7,851.93 | 8,256.91 | 8,230.28 | 26.64 | 309.995 | | |
| 800.00 | 795.62 | 780.62 | 795.62 | 4.64 | 25.72 | 102.59 | 2,523.34 | -7,851.93 | 8,261.14 | 8,230.78 | 30.35 | 272.166 | | |
| 900.00 | 893.06 | 878.06 | 893.06 | 5.00 | 29.09 | 102.64 | 2,523.34 | -7,851.93 | 8,266.17 | 8,232.08 | 34.09 | 242.480 | | |
| 1,000.00 | 989.78 | 974.78 | 989.78 | 5.39 | 32.45 | 102.75 | 2,523.34 | -7,851.93 | 8,271.92 | 8,234.08 | 37.84 | 218.605 | | |
| 1,100.00 | 1,086.42 | 1,071.42 | 1,086.42 | 5.81 | 35.81 | 102.92 | 2,523.34 | -7,851.93 | 8,277.82 | 8,236.21 | 41.61 | 198.917 | | |
| 1,200.00 | 1,183.06 | 1,168.06 | 1,183.06 | 6.25 | 39.17 | 103.09 | 2,523.34 | -7,851.93 | 8,283.80 | 8,238.39 | 45.41 | 182.420 | | |
| 1,300.00 | 1,279.69 | 1,264.69 | 1,279.69 | 6.71 | 42.53 | 103.26 | 2,523.34 | -7,851.93 | 8,289.85 | 8,240.63 | 49.22 | 168.412 | | |
| 1,400.00 | 1,376.33 | 1,361.33 | 1,376.33 | 7.17 | 45.90 | 103.42 | 2,523.34 | -7,851.93 | 8,295.98 | 8,242.93 | 53.05 | 156.379 | | |
| 1,500.00 | 1,472.97 | 1,457.97 | 1,472.97 | 7.65 | 49.26 | 103.59 | 2,523.34 | -7,851.93 | 8,302.18 | 8,245.30 | 56.89 | 145.939 | | |
| 1,600.00 | 1,569.61 | 1,554.61 | 1,569.61 | 8.13 | 52.63 | 103.76 | 2,523.34 | -7,851.93 | 8,308.46 | 8,247.73 | 60.73 | 136.799 | | |
| 1,700.00 | 1,666.24 | 1,651.24 | 1,666.24 | 8.62 | 56.00 | 103.92 | 2,523.34 | -7,851.93 | 8,314.81 | 8,250.23 | 64.59 | 128.734 | | |
| 1,800.00 | 1,762.88 | 1,747.88 | 1,762.88 | 9.12 | 59.36 | 104.09 | 2,523.34 | -7,851.93 | 8,321.24 | 8,252.79 | 68.45 | 121.567 | | |
| 1,900.00 | 1,859.52 | 1,844.52 | 1,859.52 | 9.62 | 62.73 | 104.26 | 2,523.34 | -7,851.93 | 8,327.74 | 8,255.43 | 72.32 | 115.158 | | |
| 2,000.00 | 1,956.16 | 1,941.16 | 1,956.16 | 10.13 | 66.10 | 104.42 | 2,523.34 | -7,851.93 | 8,334.32 | 8,258.13 | 76.19 | 109.395 | | |
| 2,100.00 | 2,052.79 | 2,037.79 | 2,052.79 | 10.64 | 69.47 | 104.59 | 2,523.34 | -7,851.93 | 8,340.97 | 8,260.91 | 80.06 | 104.184 | | |
| 2,200.00 | 2,149.43 | 2,134.43 | 2,149.43 | 11.15 | 72.84 | 104.75 | 2,523.34 | -7,851.93 | 8,347.69 | 8,263.76 | 83.94 | 99.452 | | |
| 2,300.00 | 2,246.07 | 2,231.07 | 2,246.07 | 11.66 | 76.21 | 104.92 | 2,523.34 | -7,851.93 | 8,354.49 | 8,266.67 | 87.82 | 95.135 | | |
| 2,400.00 | 2,342.71 | 2,327.71 | 2,342.71 | 12.18 | 79.58 | 105.08 | 2,523.34 | -7,851.93 | 8,361.36 | 8,269.66 | 91.70 | 91.182 | | |
| 2,500.00 | 2,439.34 | 2,424.34 | 2,439.34 | 12.70 | 82.95 | 105.25 | 2,523.34 | -7,851.93 | 8,368.31 | 8,272.72 | 95.58 | 87.549 | | |
| 2,600.00 | 2,535.98 | 2,520.98 | 2,535.98 | 13.22 | 86.32 | 105.41 | 2,523.34 | -7,851.93 | 8,375.33 | 8,275.86 | 99.47 | 84.199 | | |
| 2,700.00 | 2,632.62 | 2,617.62 | 2,632.62 | 13.75 | 89.70 | 105.58 | 2,523.34 | -7,851.93 | 8,382.42 | 8,279.06 | 103.36 | 81.101 | | |
| 2,800.00 | 2,729.26 | 2,714.26 | 2,729.26 | 14.27 | 93.07 | 105.74 | 2,523.34 | -7,851.93 | 8,389.58 | 8,282.33 | 107.25 | 78.226 | | |
| 2,900.00 | 2,825.89 | 2,810.89 | 2,825.89 | 14.80 | 96.44 | 105.91 | 2,523.34 | -7,851.93 | 8,396.82 | 8,285.68 | 111.14 | 75.553 | | |
| 3,000.00 | 2,922.53 | 2,907.53 | 2,922.53 | 15.32 | 99.81 | 106.07 | 2,523.34 | -7,851.93 | 8,404.13 | 8,289.10 | 115.03 | 73.061 | | |
| 3,100.00 | 3,019.17 | 3,004.17 | 3,019.17 | 15.85 | 103.18 | 106.23 | 2,523.34 | -7,851.93 | 8,411.51 | 8,292.58 | 118.92 | 70.731 | | |
| 3,200.00 | 3,115.81 | 3,100.81 | 3,115.81 | 16.38 | 106.55 | 106.39 | 2,523.34 | -7,851.93 | 8,418.96 | 8,296.14 | 122.82 | 68.550 | | |
| 3,300.00 | 3,212.44 | 3,202.56 | 3,212.44 | 16.91 | 110.10 | 106.56 | 2,523.34 | -7,851.93 | 8,426.48 | 8,299.60 | 126.89 | 66.409 | | |
| 3,400.00 | 3,309.08 | 3,305.92 | 3,309.08 | 17.44 | 113.71 | 106.72 | 2,523.34 | -7,851.93 | 8,434.08 | 8,303.06 | 131.02 | 64.374 | | |
| 3,500.00 | 3,405.72 | 3,409.28 | 3,405.72 | 17.97 | 117.32 | 106.88 | 2,523.34 | -7,851.93 | 8,441.75 | 8,306.60 | 135.15 | 62.464 | | |
| 3,600.00 | 3,502.36 | 3,487.36 | 3,502.36 | 18.50 | 120.04 | 107.04 | 2,523.34 | -7,851.93 | 8,449.49 | 8,311.09 | 138.39 | 61.054 | | |
| 3,700.00 | 3,598.99 | 3,583.99 | 3,598.99 | 19.03 | 123.42 | 107.20 | 2,523.34 | -7,851.93 | 8,457.30 | 8,315.01 | 142.29 | 59.437 | | |
| 3,800.00 | 3,695.63 | 3,680.63 | 3,695.63 | 19.57 | 126.79 | 107.37 | 2,523.34 | -7,851.93 | 8,465.18 | 8,318.99 | 146.19 | 57.906 | | |
| 3,900.00 | 3,792.27 | 3,777.27 | 3,792.27 | 20.10 | 130.16 | 107.53 | 2,523.34 | -7,851.93 | 8,473.13 | 8,323.05 | 150.08 | 56.456 | | |
| 4,000.00 | 3,888.91 | 3,873.91 | 3,888.91 | 20.63 | 133.53 | 107.69 | 2,523.34 | -7,851.93 | 8,481.16 | 8,327.17 | 153.98 | 55.079 | | |
| 4,100.00 | 3,985.54 | 3,970.54 | 3,985.54 | 21.17 | 136.91 | 107.85 | 2,523.34 | -7,851.93 | 8,489.25 | 8,331.37 | 157.88 | 53.771 | | |
| 4,200.00 | 4,082.18 | 4,067.18 | 4,082.18 | 21.70 | 140.28 | 108.01 | 2,523.34 | -7,851.93 | 8,497.41 | 8,335.64 | 161.78 | 52.526 | | |
| 4,300.00 | 4,178.82 | 4,163.82 | 4,178.82 | 22.24 | 143.65 | 108.17 | 2,523.34 | -7,851.93 | 8,505.65 | 8,339.97 | 165.67 | 51.340 | | |
| 4,400.00 | 4,275.46 | 4,260.46 | 4,275.46 | 22.77 | 147.02 | 108.33 | 2,523.34 | -7,851.93 | 8,513.95 | 8,344.38 | 169.57 | 50.208 | | |
| 4,500.00 | 4,372.09 | 4,357.09 | 4,372.09 | 23.31 | 150.40 | 108.49 | 2,523.34 | -7,851.93 | 8,522.32 | 8,348.85 | 173.47 | 49.129 | | |
| 4,600.00 | 4,468.73 | 4,453.73 | 4,468.73 | 23.84 | 153.77 | 108.64 | 2,523.34 | -7,851.93 | 8,530.76 | 8,353.39 | 177.37 | 48.096 | | |
| 4,700.00 | 4,565.37 | 4,550.37 | 4,565.37 | 24.38 | 157.14 | 108.80 | 2,523.34 | -7,851.93 | 8,539.27 | 8,358.01 | 181.27 | 47.109 | | |
| 4,800.00 | 4,662.01 | 4,647.01 | 4,662.01 | 24.91 | 160.52 | 108.96 | 2,523.34 | -7,851.93 | 8,547.85 | 8,362.69 | 185.16 | 46.164 | | |
| 4,900.00 | 4,758.64 | 4,743.64 | 4,758.64 | 25.45 | 163.89 | 109.12 | 2,523.34 | -7,851.93 | 8,556.50 | 8,367.44 | 189.06 | 45.257 | | |
| 5,000.00 | 4,855.28 | 4,840.28 | 4,855.28 | 25.99 | 167.26 | 109.28 | 2,523.34 | -7,851.93 | 8,565.22 | 8,372.26 | 192.96 | 44.388 | | |
| 5,100.00 | 4,951.92 | 4,936.92 | 4,951.92 | 26.53 | 170.63 | 109.43 | 2,523.34 | -7,851.93 | 8,574.00 | 8,377.14 | 196.86 | 43.554 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LOVELY 14-9(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,033.56 | 5,048.56 | 27.06 | 174.01 | 109.59 | 2,523.34 | -7,851.93 | 8,582.85 | 8,382.10 | 200.76 | 42.752 | | |
| 5,300.00 | 5,145.19 | 5,130.19 | 5,145.19 | 27.60 | 177.38 | 109.75 | 2,523.34 | -7,851.93 | 8,591.77 | 8,387.12 | 204.66 | 41.982 | | |
| 5,400.00 | 5,241.83 | 5,226.83 | 5,241.83 | 28.14 | 180.75 | 109.90 | 2,523.34 | -7,851.93 | 8,600.76 | 8,392.21 | 208.55 | 41.240 | | |
| 5,500.00 | 5,338.47 | 5,323.47 | 5,338.47 | 28.67 | 184.13 | 110.06 | 2,523.34 | -7,851.93 | 8,609.82 | 8,397.37 | 212.45 | 40.526 | | |
| 5,600.00 | 5,435.11 | 5,420.11 | 5,435.11 | 29.21 | 187.50 | 110.22 | 2,523.34 | -7,851.93 | 8,618.94 | 8,402.59 | 216.35 | 39.838 | | |
| 5,700.00 | 5,531.74 | 5,516.74 | 5,531.74 | 29.75 | 190.87 | 110.37 | 2,523.34 | -7,851.93 | 8,628.13 | 8,407.88 | 220.25 | 39.175 | | |
| 5,800.00 | 5,628.38 | 5,613.38 | 5,628.38 | 30.29 | 194.25 | 110.53 | 2,523.34 | -7,851.93 | 8,637.39 | 8,413.24 | 224.15 | 38.535 | | |
| 5,900.00 | 5,725.02 | 5,710.02 | 5,725.02 | 30.83 | 197.62 | 110.68 | 2,523.34 | -7,851.93 | 8,646.71 | 8,418.67 | 228.04 | 37.917 | | |
| 6,000.00 | 5,821.66 | 5,806.66 | 5,821.66 | 31.37 | 200.99 | 110.84 | 2,523.34 | -7,851.93 | 8,656.10 | 8,424.16 | 231.94 | 37.320 | | |
| 6,100.00 | 5,918.29 | 5,903.29 | 5,918.29 | 31.90 | 204.37 | 110.99 | 2,523.34 | -7,851.93 | 8,665.56 | 8,429.72 | 235.84 | 36.744 | | |
| 6,200.00 | 6,014.93 | 6,000.07 | 6,014.93 | 32.44 | 207.74 | 111.14 | 2,523.34 | -7,851.93 | 8,675.08 | 8,435.34 | 239.74 | 36.185 | | |
| 6,300.00 | 6,111.57 | 6,103.43 | 6,111.57 | 32.98 | 211.35 | 111.30 | 2,523.34 | -7,851.93 | 8,684.67 | 8,440.79 | 243.87 | 35.611 | | |
| 6,400.00 | 6,208.21 | 6,206.79 | 6,208.21 | 33.52 | 214.96 | 111.45 | 2,523.34 | -7,851.93 | 8,694.32 | 8,446.31 | 248.00 | 35.057 | | |
| 6,500.00 | 6,304.84 | 6,289.84 | 6,304.84 | 34.06 | 217.86 | 111.60 | 2,523.34 | -7,851.93 | 8,704.04 | 8,452.61 | 251.43 | 34.618 | | |
| 6,600.00 | 6,401.37 | 6,386.37 | 6,401.37 | 34.60 | 221.23 | 94.93 | 2,523.34 | -7,851.93 | 8,711.89 | 8,456.56 | 255.32 | 34.121 | | |
| 6,700.00 | 6,496.25 | 6,481.25 | 6,496.25 | 35.12 | 224.54 | 72.82 | 2,523.34 | -7,851.93 | 8,707.44 | 8,448.28 | 259.15 | 33.600 | | |
| 6,800.00 | 6,587.15 | 6,572.15 | 6,587.15 | 35.59 | 227.71 | 61.44 | 2,523.34 | -7,851.93 | 8,689.32 | 8,426.50 | 262.81 | 33.063 | | |
| 6,900.00 | 6,671.83 | 6,656.83 | 6,671.83 | 36.03 | 230.67 | 56.12 | 2,523.34 | -7,851.93 | 8,658.05 | 8,391.83 | 266.22 | 32.522 | | |
| 7,000.00 | 6,748.21 | 6,733.21 | 6,748.21 | 36.41 | 233.33 | 54.42 | 2,523.34 | -7,851.93 | 8,614.49 | 8,345.17 | 269.32 | 31.986 | | |
| 7,100.00 | 6,814.41 | 6,800.59 | 6,814.41 | 36.76 | 235.69 | 55.37 | 2,523.34 | -7,851.93 | 8,559.76 | 8,287.67 | 272.09 | 31.459 | | |
| 7,200.00 | 6,868.79 | 6,853.79 | 6,868.79 | 37.07 | 237.54 | 58.71 | 2,523.34 | -7,851.93 | 8,495.27 | 8,220.90 | 274.38 | 30.962 | | |
| 7,300.00 | 6,910.01 | 6,904.99 | 6,910.01 | 37.39 | 239.33 | 64.65 | 2,523.34 | -7,851.93 | 8,422.65 | 8,146.04 | 276.61 | 30.450 | | |
| 7,400.00 | 6,937.07 | 6,922.07 | 6,937.07 | 37.76 | 239.93 | 73.57 | 2,523.34 | -7,851.93 | 8,343.69 | 8,066.02 | 277.67 | 30.049 | | |
| 7,500.00 | 6,949.29 | 6,934.29 | 6,949.29 | 38.27 | 240.35 | 85.69 | 2,523.34 | -7,851.93 | 8,260.33 | 7,981.73 | 278.60 | 29.650 | | |
| 7,600.00 | 6,949.75 | 6,934.75 | 6,949.75 | 39.02 | 240.37 | 90.36 | 2,523.34 | -7,851.93 | 8,174.93 | 7,895.79 | 279.14 | 29.286 | | |
| 7,700.00 | 6,949.37 | 6,934.37 | 6,949.37 | 40.05 | 240.36 | 90.35 | 2,523.34 | -7,851.93 | 8,089.74 | 7,810.02 | 279.72 | 28.921 | | |
| 7,800.00 | 6,948.99 | 6,933.99 | 6,948.99 | 41.35 | 240.34 | 90.35 | 2,523.34 | -7,851.93 | 8,004.89 | 7,724.53 | 280.36 | 28.552 | | |
| 7,900.00 | 6,948.61 | 6,933.61 | 6,948.61 | 42.86 | 240.33 | 90.34 | 2,523.34 | -7,851.93 | 7,920.40 | 7,639.32 | 281.08 | 28.179 | | |
| 8,000.00 | 6,948.23 | 6,933.23 | 6,948.23 | 44.53 | 240.32 | 90.34 | 2,523.34 | -7,851.93 | 7,836.27 | 7,554.41 | 281.86 | 27.802 | | |
| 8,100.00 | 6,947.85 | 6,932.85 | 6,947.85 | 46.34 | 240.30 | 90.33 | 2,523.34 | -7,851.93 | 7,752.52 | 7,469.81 | 282.71 | 27.422 | | |
| 8,200.00 | 6,947.47 | 6,932.47 | 6,947.47 | 48.26 | 240.29 | 90.33 | 2,523.34 | -7,851.93 | 7,669.16 | 7,385.52 | 283.64 | 27.039 | | |
| 8,300.00 | 6,947.09 | 6,932.09 | 6,947.09 | 50.28 | 240.28 | 90.32 | 2,523.34 | -7,851.93 | 7,586.20 | 7,301.57 | 284.63 | 26.653 | | |
| 8,400.00 | 6,946.72 | 6,931.72 | 6,946.72 | 52.39 | 240.26 | 90.32 | 2,523.34 | -7,851.93 | 7,503.66 | 7,217.96 | 285.70 | 26.264 | | |
| 8,500.00 | 6,946.34 | 6,931.34 | 6,946.34 | 54.56 | 240.25 | 90.31 | 2,523.34 | -7,851.93 | 7,421.54 | 7,134.71 | 286.83 | 25.874 | | |
| 8,600.00 | 6,945.96 | 6,930.96 | 6,945.96 | 56.80 | 240.24 | 90.31 | 2,523.34 | -7,851.93 | 7,339.87 | 7,051.83 | 288.04 | 25.482 | | |
| 8,700.00 | 6,945.58 | 6,930.58 | 6,945.58 | 59.10 | 240.22 | 90.30 | 2,523.34 | -7,851.93 | 7,258.66 | 6,969.34 | 289.32 | 25.089 | | |
| 8,800.00 | 6,945.20 | 6,930.20 | 6,945.20 | 61.44 | 240.21 | 90.29 | 2,523.34 | -7,851.93 | 7,177.92 | 6,887.26 | 290.66 | 24.695 | | |
| 8,900.00 | 6,944.82 | 6,929.82 | 6,944.82 | 63.83 | 240.20 | 90.29 | 2,523.34 | -7,851.93 | 7,097.67 | 6,805.59 | 292.08 | 24.300 | | |
| 9,000.00 | 6,944.44 | 6,929.44 | 6,944.44 | 66.25 | 240.18 | 90.28 | 2,523.34 | -7,851.93 | 7,017.93 | 6,724.36 | 293.57 | 23.906 | | |
| 9,100.00 | 6,944.06 | 6,929.06 | 6,944.06 | 68.71 | 240.17 | 90.28 | 2,523.34 | -7,851.93 | 6,938.72 | 6,643.59 | 295.13 | 23.511 | | |
| 9,200.00 | 6,943.68 | 6,928.68 | 6,943.68 | 71.20 | 240.16 | 90.27 | 2,523.34 | -7,851.93 | 6,860.04 | 6,563.29 | 296.76 | 23.117 | | |
| 9,300.00 | 6,943.30 | 6,928.30 | 6,943.30 | 73.72 | 240.14 | 90.27 | 2,523.34 | -7,851.93 | 6,781.93 | 6,483.48 | 298.46 | 22.723 | | |
| 9,400.00 | 6,942.92 | 6,927.92 | 6,942.92 | 76.26 | 240.13 | 90.26 | 2,523.34 | -7,851.93 | 6,704.40 | 6,404.18 | 300.22 | 22.331 | | |
| 9,500.00 | 6,942.54 | 6,927.54 | 6,942.54 | 78.82 | 240.12 | 90.26 | 2,523.34 | -7,851.93 | 6,627.48 | 6,325.42 | 302.06 | 21.941 | | |
| 9,600.00 | 6,942.16 | 6,927.16 | 6,942.16 | 81.40 | 240.10 | 90.25 | 2,523.34 | -7,851.93 | 6,551.17 | 6,247.21 | 303.97 | 21.552 | | |
| 9,700.00 | 6,941.78 | 6,926.78 | 6,941.78 | 84.00 | 240.09 | 90.25 | 2,523.34 | -7,851.93 | 6,475.52 | 6,169.57 | 305.94 | 21.166 | | |
| 9,800.00 | 6,941.40 | 6,926.40 | 6,941.40 | 86.62 | 240.08 | 90.24 | 2,523.34 | -7,851.93 | 6,400.52 | 6,092.54 | 307.99 | 20.782 | | |
| 9,900.00 | 6,941.03 | 6,926.03 | 6,941.03 | 89.25 | 240.06 | 90.24 | 2,523.34 | -7,851.93 | 6,326.23 | 6,016.12 | 310.10 | 20.400 | | |
| 10,000.00 | 6,940.65 | 6,925.65 | 6,940.65 | 91.90 | 240.05 | 90.23 | 2,523.34 | -7,851.93 | 6,252.64 | 5,940.36 | 312.29 | 20.022 | | |
| 10,100.00 | 6,940.27 | 6,925.27 | 6,940.27 | 94.56 | 240.04 | 90.23 | 2,523.34 | -7,851.93 | 6,179.80 | 5,865.26 | 314.54 | 19.647 | | |
| 10,200.00 | 6,939.89 | 6,924.89 | 6,939.89 | 97.23 | 240.03 | 90.22 | 2,523.34 | -7,851.93 | 6,107.73 | 5,790.87 | 316.86 | 19.276 | | |
| 10,300.00 | 6,939.51 | 6,924.51 | 6,939.51 | 99.91 | 240.01 | 90.22 | 2,523.34 | -7,851.93 | 6,036.46 | 5,717.21 | 319.25 | 18.908 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LOVELY 14-9(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,924.13 | 6,939.13 | 102.60 | 240.00 | 90.21 | 2,523.34 | -7,851.93 | 5,966.00 | 5,644.30 | 321.70 | 18.545 | | |
| 10,500.00 | 6,938.75 | 6,923.75 | 6,938.75 | 105.30 | 239.99 | 90.21 | 2,523.34 | -7,851.93 | 5,896.41 | 5,572.18 | 324.23 | 18.186 | | |
| 10,600.00 | 6,938.37 | 6,923.37 | 6,938.37 | 108.00 | 239.97 | 90.20 | 2,523.34 | -7,851.93 | 5,827.70 | 5,500.88 | 326.82 | 17.831 | | |
| 10,700.00 | 6,937.99 | 6,922.99 | 6,937.99 | 110.72 | 239.96 | 90.20 | 2,523.34 | -7,851.93 | 5,759.90 | 5,430.42 | 329.48 | 17.482 | | |
| 10,800.00 | 6,937.61 | 6,922.61 | 6,937.61 | 113.44 | 239.95 | 90.19 | 2,523.34 | -7,851.93 | 5,693.05 | 5,360.85 | 332.21 | 17.137 | | |
| 10,900.00 | 6,937.23 | 6,922.23 | 6,937.23 | 116.17 | 239.93 | 90.19 | 2,523.34 | -7,851.93 | 5,627.19 | 5,292.19 | 335.00 | 16.798 | | |
| 11,000.00 | 6,936.85 | 6,921.85 | 6,936.85 | 118.90 | 239.92 | 90.18 | 2,523.34 | -7,851.93 | 5,562.35 | 5,224.49 | 337.86 | 16.464 | | |
| 11,100.00 | 6,936.47 | 6,921.47 | 6,936.47 | 121.64 | 239.91 | 90.18 | 2,523.34 | -7,851.93 | 5,498.56 | 5,157.78 | 340.78 | 16.135 | | |
| 11,200.00 | 6,936.09 | 6,921.09 | 6,936.09 | 124.39 | 239.89 | 90.17 | 2,523.34 | -7,851.93 | 5,435.86 | 5,092.09 | 343.77 | 15.813 | | |
| 11,300.00 | 6,935.71 | 6,920.71 | 6,935.71 | 127.14 | 239.88 | 90.17 | 2,523.34 | -7,851.93 | 5,374.28 | 5,027.47 | 346.81 | 15.496 | | |
| 11,400.00 | 6,935.34 | 6,920.34 | 6,935.34 | 129.90 | 239.87 | 90.16 | 2,523.34 | -7,851.93 | 5,313.88 | 4,963.96 | 349.92 | 15.186 | | |
| 11,500.00 | 6,934.96 | 6,919.96 | 6,934.96 | 132.66 | 239.85 | 90.16 | 2,523.34 | -7,851.93 | 5,254.69 | 4,901.60 | 353.09 | 14.882 | | |
| 11,600.00 | 6,934.58 | 6,919.58 | 6,934.58 | 135.42 | 239.84 | 90.15 | 2,523.34 | -7,851.93 | 5,196.75 | 4,840.43 | 356.32 | 14.584 | | |
| 11,700.00 | 6,934.20 | 6,919.20 | 6,934.20 | 138.19 | 239.83 | 90.15 | 2,523.34 | -7,851.93 | 5,140.10 | 4,780.49 | 359.60 | 14.294 | | |
| 11,800.00 | 6,933.82 | 6,918.82 | 6,933.82 | 140.96 | 239.81 | 90.14 | 2,523.34 | -7,851.93 | 5,084.78 | 4,721.84 | 362.94 | 14.010 | | |
| 11,900.00 | 6,933.44 | 6,918.44 | 6,933.44 | 143.74 | 239.80 | 90.14 | 2,523.34 | -7,851.93 | 5,030.85 | 4,664.52 | 366.33 | 13.733 | | |
| 12,000.00 | 6,933.06 | 6,918.06 | 6,933.06 | 146.51 | 239.79 | 90.13 | 2,523.34 | -7,851.93 | 4,978.33 | 4,608.57 | 369.76 | 13.464 | | |
| 12,100.00 | 6,932.68 | 6,917.68 | 6,932.68 | 149.30 | 239.77 | 90.13 | 2,523.34 | -7,851.93 | 4,927.29 | 4,554.06 | 373.24 | 13.201 | | |
| 12,200.00 | 6,932.30 | 6,917.30 | 6,932.30 | 152.08 | 239.76 | 90.12 | 2,523.34 | -7,851.93 | 4,877.77 | 4,501.01 | 376.76 | 12.947 | | |
| 12,300.00 | 6,931.92 | 6,916.92 | 6,931.92 | 154.87 | 239.75 | 90.12 | 2,523.34 | -7,851.93 | 4,829.81 | 4,449.49 | 380.32 | 12.699 | | |
| 12,400.00 | 6,931.54 | 6,916.54 | 6,931.54 | 157.66 | 239.73 | 90.11 | 2,523.34 | -7,851.93 | 4,783.46 | 4,399.55 | 383.91 | 12.460 | | |
| 12,500.00 | 6,931.16 | 6,916.16 | 6,931.16 | 160.45 | 239.72 | 90.11 | 2,523.34 | -7,851.93 | 4,738.76 | 4,351.24 | 387.52 | 12.228 | | |
| 12,600.00 | 6,930.78 | 6,915.78 | 6,930.78 | 163.24 | 239.71 | 90.10 | 2,523.34 | -7,851.93 | 4,695.77 | 4,304.61 | 391.16 | 12.005 | | |
| 12,700.00 | 6,930.40 | 6,915.40 | 6,930.40 | 166.04 | 239.69 | 90.10 | 2,523.34 | -7,851.93 | 4,654.53 | 4,259.71 | 394.82 | 11.789 | | |
| 12,800.00 | 6,930.03 | 6,915.03 | 6,930.03 | 168.84 | 239.68 | 90.09 | 2,523.34 | -7,851.93 | 4,615.09 | 4,216.60 | 398.50 | 11.581 | | |
| 12,900.00 | 6,929.65 | 6,914.65 | 6,929.65 | 171.64 | 239.67 | 90.09 | 2,523.34 | -7,851.93 | 4,577.50 | 4,175.33 | 402.17 | 11.382 | | |
| 13,000.00 | 6,929.27 | 6,914.27 | 6,929.27 | 174.44 | 239.65 | 90.08 | 2,523.34 | -7,851.93 | 4,541.80 | 4,135.94 | 405.85 | 11.191 | | |
| 13,100.00 | 6,928.89 | 6,913.89 | 6,928.89 | 177.24 | 239.64 | 90.08 | 2,523.34 | -7,851.93 | 4,508.03 | 4,098.51 | 409.52 | 11.008 | | |
| 13,200.00 | 6,928.51 | 6,913.51 | 6,928.51 | 180.05 | 239.63 | 90.07 | 2,523.34 | -7,851.93 | 4,476.24 | 4,063.06 | 413.18 | 10.834 | | |
| 13,300.00 | 6,928.13 | 6,913.13 | 6,928.13 | 182.86 | 239.61 | 90.07 | 2,523.34 | -7,851.93 | 4,446.47 | 4,029.66 | 416.82 | 10.668 | | |
| 13,400.00 | 6,927.75 | 6,912.75 | 6,927.75 | 185.67 | 239.60 | 90.06 | 2,523.34 | -7,851.93 | 4,418.77 | 3,998.35 | 420.42 | 10.510 | | |
| 13,500.00 | 6,927.37 | 6,912.37 | 6,927.37 | 188.48 | 239.59 | 90.06 | 2,523.34 | -7,851.93 | 4,393.17 | 3,969.17 | 424.00 | 10.361 | | |
| 13,600.00 | 6,926.99 | 6,911.99 | 6,926.99 | 191.29 | 239.58 | 90.05 | 2,523.34 | -7,851.93 | 4,369.71 | 3,942.18 | 427.52 | 10.221 | | |
| 13,700.00 | 6,926.61 | 6,911.61 | 6,926.61 | 194.10 | 239.56 | 90.04 | 2,523.34 | -7,851.93 | 4,348.42 | 3,917.42 | 431.00 | 10.089 | | |
| 13,800.00 | 6,926.23 | 6,911.23 | 6,926.23 | 196.92 | 239.55 | 90.04 | 2,523.34 | -7,851.93 | 4,329.34 | 3,894.92 | 434.42 | 9.966 | | |
| 13,900.00 | 6,925.85 | 6,910.85 | 6,925.85 | 199.73 | 239.54 | 90.03 | 2,523.34 | -7,851.93 | 4,312.49 | 3,874.72 | 437.77 | 9.851 | | |
| 14,000.00 | 6,925.47 | 6,910.47 | 6,925.47 | 202.55 | 239.52 | 90.03 | 2,523.34 | -7,851.93 | 4,297.90 | 3,856.85 | 441.05 | 9.745 | | |
| 14,100.00 | 6,925.09 | 6,910.09 | 6,925.09 | 205.37 | 239.51 | 90.02 | 2,523.34 | -7,851.93 | 4,285.60 | 3,841.35 | 444.25 | 9.647 | | |
| 14,200.00 | 6,924.71 | 6,909.71 | 6,924.71 | 208.19 | 239.50 | 90.02 | 2,523.34 | -7,851.93 | 4,275.60 | 3,828.24 | 447.36 | 9.557 | | |
| 14,300.00 | 6,924.34 | 6,909.34 | 6,924.34 | 211.01 | 239.48 | 90.01 | 2,523.34 | -7,851.93 | 4,267.92 | 3,817.55 | 450.37 | 9.476 | | |
| 14,400.00 | 6,923.96 | 6,908.96 | 6,923.96 | 213.83 | 239.47 | 90.01 | 2,523.34 | -7,851.93 | 4,262.58 | 3,809.29 | 453.29 | 9.404 | | |
| 14,500.00 | 6,923.58 | 6,908.58 | 6,923.58 | 216.65 | 239.46 | 90.00 | 2,523.34 | -7,851.93 | 4,259.58 | 3,803.48 | 456.09 | 9.339 | | |
| 14,577.98 | 6,923.28 | 6,908.28 | 6,923.28 | 218.86 | 239.45 | 90.00 | 2,523.34 | -7,851.93 | 4,258.86 | 3,800.66 | 458.21 | 9.295 CC | | |
| 14,600.00 | 6,923.20 | 6,908.20 | 6,923.20 | 219.48 | 239.44 | 90.00 | 2,523.34 | -7,851.93 | 4,258.92 | 3,800.13 | 458.79 | 9.283 | | |
| 14,700.00 | 6,922.82 | 6,907.82 | 6,922.82 | 222.30 | 239.43 | 89.99 | 2,523.34 | -7,851.93 | 4,260.61 | 3,799.24 | 461.37 | 9.235 ES | | |
| 14,800.00 | 6,922.44 | 6,907.44 | 6,922.44 | 225.13 | 239.42 | 89.99 | 2,523.34 | -7,851.93 | 4,264.64 | 3,800.82 | 463.82 | 9.195 | | |
| 14,900.00 | 6,922.06 | 6,907.06 | 6,922.06 | 227.95 | 239.40 | 89.98 | 2,523.34 | -7,851.93 | 4,271.02 | 3,804.86 | 466.16 | 9.162 | | |
| 14,915.55 | 6,922.00 | 6,907.00 | 6,922.00 | 228.39 | 239.40 | 89.98 | 2,523.34 | -7,851.93 | 4,272.22 | 3,805.71 | 466.51 | 9.158 SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LUCAS SCHOOL 1(TA_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 2.00 | 0.00 | 3.28 | 3.28 | -53.96 | 2,638.94 | -3,627.40 | 4,485.75 | | | | | |
| 100.00 | 100.00 | 102.00 | 100.00 | 3.28 | 3.75 | -53.96 | 2,638.94 | -3,627.40 | 4,485.75 | 4,478.72 | 7.03 | 637.767 | | |
| 200.00 | 200.00 | 202.00 | 200.00 | 3.34 | 6.24 | -53.96 | 2,638.94 | -3,627.40 | 4,485.75 | 4,476.18 | 9.58 | 468.473 | | |
| 300.00 | 299.98 | 301.98 | 299.98 | 3.44 | 9.39 | 120.66 | 2,638.94 | -3,627.40 | 4,486.64 | 4,473.82 | 12.83 | 349.761 | | |
| 400.00 | 399.84 | 401.84 | 399.84 | 3.59 | 12.71 | 120.67 | 2,638.94 | -3,627.40 | 4,489.32 | 4,473.01 | 16.30 | 275.377 | | |
| 500.00 | 499.45 | 501.45 | 499.45 | 3.79 | 16.10 | 120.69 | 2,638.94 | -3,627.40 | 4,493.78 | 4,473.89 | 19.89 | 225.979 | | |
| 600.00 | 598.70 | 600.70 | 598.70 | 4.03 | 19.50 | 120.71 | 2,638.94 | -3,627.40 | 4,500.03 | 4,476.50 | 23.53 | 191.218 | | |
| 700.00 | 697.47 | 700.53 | 697.47 | 4.31 | 22.95 | 120.74 | 2,638.94 | -3,627.40 | 4,508.10 | 4,480.84 | 27.26 | 165.377 | | |
| 800.00 | 795.62 | 802.38 | 795.62 | 4.64 | 26.47 | 120.78 | 2,638.94 | -3,627.40 | 4,517.99 | 4,486.89 | 31.10 | 145.258 | | |
| 900.00 | 893.06 | 904.94 | 893.06 | 5.00 | 30.03 | 120.82 | 2,638.94 | -3,627.40 | 4,529.73 | 4,494.72 | 35.01 | 129.370 | | |
| 1,000.00 | 989.78 | 1,008.22 | 989.78 | 5.39 | 33.61 | 120.98 | 2,638.94 | -3,627.40 | 4,543.07 | 4,504.09 | 38.98 | 116.539 | | |
| 1,100.00 | 1,086.42 | 1,088.42 | 1,086.42 | 5.81 | 36.40 | 121.25 | 2,638.94 | -3,627.40 | 4,556.69 | 4,514.52 | 42.17 | 108.043 | | |
| 1,200.00 | 1,183.06 | 1,185.06 | 1,183.06 | 6.25 | 39.76 | 121.52 | 2,638.94 | -3,627.40 | 4,570.42 | 4,524.46 | 45.96 | 99.449 | | |
| 1,300.00 | 1,279.69 | 1,281.69 | 1,279.69 | 6.71 | 43.12 | 121.79 | 2,638.94 | -3,627.40 | 4,584.25 | 4,534.50 | 49.76 | 92.135 | | |
| 1,400.00 | 1,376.33 | 1,378.33 | 1,376.33 | 7.17 | 46.49 | 122.05 | 2,638.94 | -3,627.40 | 4,598.18 | 4,544.62 | 53.57 | 85.839 | | |
| 1,500.00 | 1,472.97 | 1,474.97 | 1,472.97 | 7.65 | 49.85 | 122.32 | 2,638.94 | -3,627.40 | 4,612.22 | 4,554.83 | 57.39 | 80.367 | | |
| 1,600.00 | 1,569.61 | 1,571.61 | 1,569.61 | 8.13 | 53.22 | 122.58 | 2,638.94 | -3,627.40 | 4,626.35 | 4,565.13 | 61.22 | 75.569 | | |
| 1,700.00 | 1,666.24 | 1,668.24 | 1,666.24 | 8.62 | 56.59 | 122.84 | 2,638.94 | -3,627.40 | 4,640.58 | 4,575.53 | 65.06 | 71.330 | | |
| 1,800.00 | 1,762.88 | 1,764.88 | 1,762.88 | 9.12 | 59.96 | 123.10 | 2,638.94 | -3,627.40 | 4,654.92 | 4,586.01 | 68.90 | 67.559 | | |
| 1,900.00 | 1,859.52 | 1,861.52 | 1,859.52 | 9.62 | 63.33 | 123.36 | 2,638.94 | -3,627.40 | 4,669.34 | 4,596.60 | 72.75 | 64.184 | | |
| 2,000.00 | 1,956.16 | 1,958.16 | 1,956.16 | 10.13 | 66.69 | 123.62 | 2,638.94 | -3,627.40 | 4,683.87 | 4,607.27 | 76.60 | 61.146 | | |
| 2,100.00 | 2,052.79 | 2,054.79 | 2,052.79 | 10.64 | 70.06 | 123.87 | 2,638.94 | -3,627.40 | 4,698.49 | 4,618.03 | 80.46 | 58.397 | | |
| 2,200.00 | 2,149.43 | 2,151.43 | 2,149.43 | 11.15 | 73.43 | 124.13 | 2,638.94 | -3,627.40 | 4,713.21 | 4,628.89 | 84.32 | 55.899 | | |
| 2,300.00 | 2,246.07 | 2,248.07 | 2,246.07 | 11.66 | 76.80 | 124.38 | 2,638.94 | -3,627.40 | 4,728.02 | 4,639.84 | 88.18 | 53.619 | | |
| 2,400.00 | 2,342.71 | 2,344.71 | 2,342.71 | 12.18 | 80.18 | 124.63 | 2,638.94 | -3,627.40 | 4,742.92 | 4,650.88 | 92.04 | 51.531 | | |
| 2,500.00 | 2,439.34 | 2,441.34 | 2,439.34 | 12.70 | 83.55 | 124.88 | 2,638.94 | -3,627.40 | 4,757.92 | 4,662.01 | 95.91 | 49.611 | | |
| 2,600.00 | 2,535.98 | 2,537.98 | 2,535.98 | 13.22 | 86.92 | 125.12 | 2,638.94 | -3,627.40 | 4,773.01 | 4,673.24 | 99.77 | 47.839 | | |
| 2,700.00 | 2,632.62 | 2,634.62 | 2,632.62 | 13.75 | 90.29 | 125.37 | 2,638.94 | -3,627.40 | 4,788.19 | 4,684.55 | 103.64 | 46.200 | | |
| 2,800.00 | 2,729.26 | 2,731.26 | 2,729.26 | 14.27 | 93.66 | 125.62 | 2,638.94 | -3,627.40 | 4,803.45 | 4,695.95 | 107.51 | 44.680 | | |
| 2,900.00 | 2,825.89 | 2,827.89 | 2,825.89 | 14.80 | 97.03 | 125.86 | 2,638.94 | -3,627.40 | 4,818.81 | 4,707.43 | 111.38 | 43.265 | | |
| 3,000.00 | 2,922.53 | 2,924.53 | 2,922.53 | 15.32 | 100.40 | 126.10 | 2,638.94 | -3,627.40 | 4,834.26 | 4,719.01 | 115.25 | 41.946 | | |
| 3,100.00 | 3,019.17 | 3,021.17 | 3,019.17 | 15.85 | 103.78 | 126.34 | 2,638.94 | -3,627.40 | 4,849.79 | 4,730.67 | 119.12 | 40.714 | | |
| 3,200.00 | 3,115.81 | 3,117.81 | 3,115.81 | 16.38 | 107.15 | 126.58 | 2,638.94 | -3,627.40 | 4,865.41 | 4,742.41 | 122.99 | 39.559 | | |
| 3,300.00 | 3,212.44 | 3,214.44 | 3,212.44 | 16.91 | 110.52 | 126.82 | 2,638.94 | -3,627.40 | 4,881.11 | 4,754.25 | 126.86 | 38.475 | | |
| 3,400.00 | 3,309.08 | 3,311.08 | 3,309.08 | 17.44 | 113.89 | 127.05 | 2,638.94 | -3,627.40 | 4,896.90 | 4,766.16 | 130.74 | 37.456 | | |
| 3,500.00 | 3,405.72 | 3,407.72 | 3,405.72 | 17.97 | 117.26 | 127.29 | 2,638.94 | -3,627.40 | 4,912.77 | 4,778.16 | 134.61 | 36.497 | | |
| 3,600.00 | 3,502.36 | 3,504.36 | 3,502.36 | 18.50 | 120.64 | 127.52 | 2,638.94 | -3,627.40 | 4,928.72 | 4,790.24 | 138.48 | 35.591 | | |
| 3,700.00 | 3,598.99 | 3,600.99 | 3,598.99 | 19.03 | 124.01 | 127.75 | 2,638.94 | -3,627.40 | 4,944.76 | 4,802.41 | 142.35 | 34.736 | | |
| 3,800.00 | 3,695.63 | 3,702.37 | 3,695.63 | 19.57 | 127.55 | 127.98 | 2,638.94 | -3,627.40 | 4,960.88 | 4,814.49 | 146.39 | 33.887 | | |
| 3,900.00 | 3,792.27 | 3,805.73 | 3,792.27 | 20.10 | 131.15 | 128.21 | 2,638.94 | -3,627.40 | 4,977.08 | 4,826.58 | 150.50 | 33.070 | | |
| 4,000.00 | 3,888.91 | 3,909.09 | 3,888.91 | 20.63 | 134.76 | 128.44 | 2,638.94 | -3,627.40 | 4,993.36 | 4,838.75 | 154.61 | 32.297 | | |
| 4,100.00 | 3,985.54 | 3,987.54 | 3,985.54 | 21.17 | 137.50 | 128.66 | 2,638.94 | -3,627.40 | 5,009.72 | 4,851.87 | 157.85 | 31.738 | | |
| 4,200.00 | 4,082.18 | 4,084.18 | 4,082.18 | 21.70 | 140.87 | 128.89 | 2,638.94 | -3,627.40 | 5,026.15 | 4,864.43 | 161.72 | 31.079 | | |
| 4,300.00 | 4,178.82 | 4,180.82 | 4,178.82 | 22.24 | 144.24 | 129.11 | 2,638.94 | -3,627.40 | 5,042.67 | 4,877.07 | 165.60 | 30.452 | | |
| 4,400.00 | 4,275.46 | 4,277.46 | 4,275.46 | 22.77 | 147.62 | 129.33 | 2,638.94 | -3,627.40 | 5,059.26 | 4,889.79 | 169.47 | 29.854 | | |
| 4,500.00 | 4,372.09 | 4,374.09 | 4,372.09 | 23.31 | 150.99 | 129.55 | 2,638.94 | -3,627.40 | 5,075.93 | 4,902.59 | 173.34 | 29.283 | | |
| 4,600.00 | 4,468.73 | 4,470.73 | 4,468.73 | 23.84 | 154.36 | 129.77 | 2,638.94 | -3,627.40 | 5,092.67 | 4,915.45 | 177.22 | 28.737 | | |
| 4,700.00 | 4,565.37 | 4,567.37 | 4,565.37 | 24.38 | 157.74 | 129.99 | 2,638.94 | -3,627.40 | 5,109.49 | 4,928.40 | 181.09 | 28.215 | | |
| 4,800.00 | 4,662.01 | 4,664.01 | 4,662.01 | 24.91 | 161.11 | 130.20 | 2,638.94 | -3,627.40 | 5,126.38 | 4,941.42 | 184.96 | 27.716 | | |
| 4,900.00 | 4,758.64 | 4,760.64 | 4,758.64 | 25.45 | 164.48 | 130.42 | 2,638.94 | -3,627.40 | 5,143.34 | 4,954.51 | 188.83 | 27.237 | | |
| 5,000.00 | 4,855.28 | 4,857.28 | 4,855.28 | 25.99 | 167.85 | 130.63 | 2,638.94 | -3,627.40 | 5,160.38 | 4,967.67 | 192.71 | 26.778 | | |
| 5,100.00 | 4,951.92 | 4,953.92 | 4,951.92 | 26.53 | 171.23 | 130.84 | 2,638.94 | -3,627.40 | 5,177.49 | 4,980.91 | 196.58 | 26.338 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LUCAS SCHOOL 1(TA_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 5,200.00 | 5,048.56 | 5,050.56 | 5,048.56 | 27.06 | 174.60 | 131.05 | 2,638.94 | -3,627.40 | 5,194.66 | 4,994.21 | 200.45 | 25.915 | | |
| 5,300.00 | 5,145.19 | 5,147.19 | 5,145.19 | 27.60 | 177.97 | 131.26 | 2,638.94 | -3,627.40 | 5,211.91 | 5,007.59 | 204.32 | 25.508 | | |
| 5,400.00 | 5,241.83 | 5,243.83 | 5,241.83 | 28.14 | 181.35 | 131.47 | 2,638.94 | -3,627.40 | 5,229.23 | 5,021.04 | 208.20 | 25.117 | | |
| 5,500.00 | 5,338.47 | 5,340.47 | 5,338.47 | 28.67 | 184.72 | 131.68 | 2,638.94 | -3,627.40 | 5,246.62 | 5,034.55 | 212.07 | 24.740 | | |
| 5,600.00 | 5,435.11 | 5,437.11 | 5,435.11 | 29.21 | 188.09 | 131.88 | 2,638.94 | -3,627.40 | 5,264.08 | 5,048.14 | 215.94 | 24.378 | | |
| 5,700.00 | 5,531.74 | 5,533.74 | 5,531.74 | 29.75 | 191.47 | 132.08 | 2,638.94 | -3,627.40 | 5,281.60 | 5,061.79 | 219.81 | 24.028 | | |
| 5,800.00 | 5,628.38 | 5,630.38 | 5,628.38 | 30.29 | 194.84 | 132.29 | 2,638.94 | -3,627.40 | 5,299.19 | 5,075.51 | 223.68 | 23.691 | | |
| 5,900.00 | 5,725.02 | 5,727.02 | 5,725.02 | 30.83 | 198.21 | 132.49 | 2,638.94 | -3,627.40 | 5,316.84 | 5,089.29 | 227.55 | 23.365 | | |
| 6,000.00 | 5,821.66 | 5,823.66 | 5,821.66 | 31.37 | 201.59 | 132.69 | 2,638.94 | -3,627.40 | 5,334.57 | 5,103.14 | 231.42 | 23.051 | | |
| 6,100.00 | 5,918.29 | 5,920.29 | 5,918.29 | 31.90 | 204.96 | 132.89 | 2,638.94 | -3,627.40 | 5,352.35 | 5,117.06 | 235.29 | 22.748 | | |
| 6,200.00 | 6,014.93 | 6,016.93 | 6,014.93 | 32.44 | 208.33 | 133.08 | 2,638.94 | -3,627.40 | 5,370.20 | 5,131.04 | 239.16 | 22.454 | | |
| 6,300.00 | 6,111.57 | 6,113.57 | 6,111.57 | 32.98 | 211.70 | 133.28 | 2,638.94 | -3,627.40 | 5,388.12 | 5,145.09 | 243.03 | 22.170 | | |
| 6,400.00 | 6,208.21 | 6,210.21 | 6,208.21 | 33.52 | 215.08 | 133.48 | 2,638.94 | -3,627.40 | 5,406.10 | 5,159.19 | 246.90 | 21.896 | | |
| 6,500.00 | 6,304.84 | 6,306.84 | 6,304.84 | 34.06 | 218.45 | 133.67 | 2,638.94 | -3,627.40 | 5,424.13 | 5,173.36 | 250.77 | 21.630 | | |
| 6,600.00 | 6,401.37 | 6,403.37 | 6,401.37 | 34.60 | 221.82 | 116.62 | 2,638.94 | -3,627.40 | 5,440.83 | 5,186.19 | 254.64 | 21.367 | | |
| 6,700.00 | 6,496.25 | 6,501.75 | 6,496.25 | 35.12 | 225.25 | 93.91 | 2,638.94 | -3,627.40 | 5,448.54 | 5,189.97 | 258.57 | 21.072 | | |
| 6,800.00 | 6,587.15 | 6,589.15 | 6,587.15 | 35.59 | 228.31 | 82.07 | 2,638.94 | -3,627.40 | 5,446.15 | 5,184.06 | 262.09 | 20.780 | | |
| 6,900.00 | 6,671.83 | 6,673.83 | 6,671.83 | 36.03 | 231.26 | 76.34 | 2,638.94 | -3,627.40 | 5,433.95 | 5,168.46 | 265.49 | 20.467 | | |
| 7,000.00 | 6,748.21 | 6,750.21 | 6,748.21 | 36.41 | 233.93 | 74.12 | 2,638.94 | -3,627.40 | 5,412.52 | 5,143.92 | 268.60 | 20.151 | | |
| 7,100.00 | 6,814.41 | 6,816.41 | 6,814.41 | 36.76 | 236.24 | 74.18 | 2,638.94 | -3,627.40 | 5,382.67 | 5,111.30 | 271.37 | 19.835 | | |
| 7,200.00 | 6,868.79 | 6,870.79 | 6,868.79 | 37.07 | 238.14 | 75.93 | 2,638.94 | -3,627.40 | 5,345.41 | 5,071.61 | 273.80 | 19.523 | | |
| 7,300.00 | 6,910.01 | 6,912.01 | 6,910.01 | 37.39 | 239.58 | 79.03 | 2,638.94 | -3,627.40 | 5,301.89 | 5,026.03 | 275.86 | 19.219 | | |
| 7,400.00 | 6,937.07 | 6,939.07 | 6,937.07 | 37.76 | 240.52 | 83.22 | 2,638.94 | -3,627.40 | 5,253.36 | 4,975.80 | 277.56 | 18.927 | | |
| 7,500.00 | 6,949.29 | 6,951.29 | 6,949.29 | 38.27 | 240.95 | 88.30 | 2,638.94 | -3,627.40 | 5,201.11 | 4,922.26 | 278.86 | 18.651 | | |
| 7,600.00 | 6,949.75 | 6,951.75 | 6,949.75 | 39.02 | 240.96 | 90.14 | 2,638.94 | -3,627.40 | 5,147.14 | 4,867.27 | 279.87 | 18.391 | | |
| 7,700.00 | 6,949.37 | 6,951.37 | 6,949.37 | 40.05 | 240.95 | 90.13 | 2,638.94 | -3,627.40 | 5,094.36 | 4,813.36 | 281.00 | 18.130 | | |
| 7,800.00 | 6,948.99 | 6,950.99 | 6,948.99 | 41.35 | 240.94 | 90.13 | 2,638.94 | -3,627.40 | 5,043.01 | 4,760.74 | 282.27 | 17.866 | | |
| 7,900.00 | 6,948.61 | 6,950.61 | 6,948.61 | 42.86 | 240.92 | 90.12 | 2,638.94 | -3,627.40 | 4,993.13 | 4,709.45 | 283.68 | 17.601 | | |
| 8,000.00 | 6,948.23 | 6,950.23 | 6,948.23 | 44.53 | 240.91 | 90.12 | 2,638.94 | -3,627.40 | 4,944.78 | 4,659.55 | 285.22 | 17.336 | | |
| 8,100.00 | 6,947.85 | 6,949.85 | 6,947.85 | 46.34 | 240.90 | 90.11 | 2,638.94 | -3,627.40 | 4,897.99 | 4,611.09 | 286.89 | 17.072 | | |
| 8,200.00 | 6,947.47 | 6,949.47 | 6,947.47 | 48.26 | 240.88 | 90.11 | 2,638.94 | -3,627.40 | 4,852.80 | 4,564.12 | 288.68 | 16.810 | | |
| 8,300.00 | 6,947.09 | 6,949.09 | 6,947.09 | 50.28 | 240.87 | 90.10 | 2,638.94 | -3,627.40 | 4,809.28 | 4,518.70 | 290.58 | 16.551 | | |
| 8,400.00 | 6,946.72 | 6,948.72 | 6,946.72 | 52.39 | 240.86 | 90.10 | 2, | | | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LUCAS SCHOOL 1(TA_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,352.80 | 6,939.31 | 6,941.31 | 6,939.31 | 101.33 | 240.60 | 90.00 | 2,638.94 | -3,627.40 | 4,349.16 | 4,007.46 | 341.71 | 12.728 | CC | |
| 10,400.00 | 6,939.13 | 6,941.13 | 6,939.13 | 102.60 | 240.59 | 90.00 | 2,638.94 | -3,627.40 | 4,349.42 | 4,006.52 | 342.90 | 12.684 | | |
| 10,500.00 | 6,938.75 | 6,940.75 | 6,938.75 | 105.30 | 240.58 | 89.99 | 2,638.94 | -3,627.40 | 4,351.65 | 4,006.25 | 345.40 | 12.599 | ES | |
| 10,600.00 | 6,938.37 | 6,940.37 | 6,938.37 | 108.00 | 240.57 | 89.99 | 2,638.94 | -3,627.40 | 4,356.18 | 4,008.32 | 347.86 | 12.523 | | |
| 10,700.00 | 6,937.99 | 6,939.99 | 6,937.99 | 110.72 | 240.55 | 89.98 | 2,638.94 | -3,627.40 | 4,363.00 | 4,012.73 | 350.27 | 12.456 | | |
| 10,800.00 | 6,937.61 | 6,939.61 | 6,937.61 | 113.44 | 240.54 | 89.98 | 2,638.94 | -3,627.40 | 4,372.09 | 4,019.47 | 352.62 | 12.399 | | |
| 10,900.00 | 6,937.23 | 6,939.23 | 6,937.23 | 116.17 | 240.53 | 89.97 | 2,638.94 | -3,627.40 | 4,383.45 | 4,028.54 | 354.92 | 12.351 | | |
| 11,000.00 | 6,936.85 | 6,938.85 | 6,936.85 | 118.90 | 240.51 | 89.97 | 2,638.94 | -3,627.40 | 4,397.05 | 4,039.90 | 357.15 | 12.311 | | |
| 11,100.00 | 6,936.47 | 6,938.47 | 6,936.47 | 121.64 | 240.50 | 89.96 | 2,638.94 | -3,627.40 | 4,412.88 | 4,053.56 | 359.32 | 12.281 | | |
| 11,200.00 | 6,936.09 | 6,938.09 | 6,936.09 | 124.39 | 240.49 | 89.96 | 2,638.94 | -3,627.40 | 4,430.91 | 4,069.48 | 361.43 | 12.260 | | |
| 11,300.00 | 6,935.71 | 6,937.71 | 6,935.71 | 127.14 | 240.47 | 89.95 | 2,638.94 | -3,627.40 | 4,451.11 | 4,087.65 | 363.46 | 12.246 | | |
| 11,400.00 | 6,935.34 | 6,937.34 | 6,935.34 | 129.90 | 240.46 | 89.95 | 2,638.94 | -3,627.40 | 4,473.46 | 4,108.03 | 365.43 | 12.242 | SF | |
| 11,500.00 | 6,934.96 | 6,936.96 | 6,934.96 | 132.66 | 240.45 | 89.94 | 2,638.94 | -3,627.40 | 4,497.92 | 4,130.60 | 367.32 | 12.245 | | |
| 11,600.00 | 6,934.58 | 6,936.58 | 6,934.58 | 135.42 | 240.43 | 89.94 | 2,638.94 | -3,627.40 | 4,524.46 | 4,155.32 | 369.14 | 12.257 | | |
| 11,700.00 | 6,934.20 | 6,936.20 | 6,934.20 | 138.19 | 240.42 | 89.93 | 2,638.94 | -3,627.40 | 4,553.04 | 4,182.15 | 370.89 | 12.276 | | |
| 11,800.00 | 6,933.82 | 6,935.82 | 6,933.82 | 140.96 | 240.41 | 89.93 | 2,638.94 | -3,627.40 | 4,583.62 | 4,211.06 | 372.56 | 12.303 | | |
| 11,900.00 | 6,933.44 | 6,935.44 | 6,933.44 | 143.74 | 240.39 | 89.92 | 2,638.94 | -3,627.40 | 4,616.17 | 4,242.00 | 374.17 | 12.337 | | |
| 12,000.00 | 6,933.06 | 6,935.06 | 6,933.06 | 146.51 | 240.38 | 89.92 | 2,638.94 | -3,627.40 | 4,650.64 | 4,274.95 | 375.69 | 12.379 | | |
| 12,100.00 | 6,932.68 | 6,934.68 | 6,932.68 | 149.30 | 240.37 | 89.91 | 2,638.94 | -3,627.40 | 4,686.99 | 4,309.84 | 377.15 | 12.427 | | |
| 12,200.00 | 6,932.30 | 6,934.30 | 6,932.30 | 152.08 | 240.35 | 89.91 | 2,638.94 | -3,627.40 | 4,725.18 | 4,346.64 | 378.54 | 12.483 | | |
| 12,300.00 | 6,931.92 | 6,933.92 | 6,931.92 | 154.87 | 240.34 | 89.90 | 2,638.94 | -3,627.40 | 4,765.16 | 4,385.31 | 379.85 | 12.545 | | |
| 12,400.00 | 6,931.54 | 6,933.54 | 6,931.54 | 157.66 | 240.33 | 89.90 | 2,638.94 | -3,627.40 | 4,806.89 | 4,425.79 | 381.10 | 12.613 | | |
| 12,500.00 | 6,931.16 | 6,933.16 | 6,931.16 | 160.45 | 240.31 | 89.89 | 2,638.94 | -3,627.40 | 4,850.32 | 4,468.05 | 382.28 | 12.688 | | |
| 12,600.00 | 6,930.78 | 6,932.78 | 6,930.78 | 163.24 | 240.30 | 89.89 | 2,638.94 | -3,627.40 | 4,895.41 | 4,512.02 | 383.39 | 12.769 | | |
| 12,700.00 | 6,930.40 | 6,932.40 | 6,930.40 | 166.04 | 240.29 | 89.88 | 2,638.94 | -3,627.40 | 4,942.11 | 4,557.68 | 384.44 | 12.855 | | |
| 12,800.00 | 6,930.03 | 6,932.03 | 6,930.03 | 168.84 | 240.27 | 89.88 | 2,638.94 | -3,627.40 | 4,990.38 | 4,604.96 | 385.43 | 12.948 | | |
| 12,900.00 | 6,929.65 | 6,931.65 | 6,929.65 | 171.64 | 240.26 | 89.87 | 2,638.94 | -3,627.40 | 5,040.17 | 4,653.82 | 386.35 | 13.045 | | |
| 13,000.00 | 6,929.27 | 6,931.27 | 6,929.27 | 174.44 | 240.25 | 89.87 | 2,638.94 | -3,627.40 | 5,091.44 | 4,704.22 | 387.23 | 13.149 | | |
| 13,100.00 | 6,928.89 | 6,930.89 | 6,928.89 | 177.24 | 240.23 | 89.86 | 2,638.94 | -3,627.40 | 5,144.14 | 4,756.10 | 388.04 | 13.257 | | |
| 13,200.00 | 6,928.51 | 6,930.51 | 6,928.51 | 180.05 | 240.22 | 89.86 | 2,638.94 | -3,627.40 | 5,198.24 | 4,809.43 | 388.80 | 13.370 | | |
| 13,300.00 | 6,928.13 | 6,930.13 | 6,928.13 | 182.86 | 240.21 | 89.85 | 2,638.94 | -3,627.40 | 5,253.67 | 4,864.16 | 389.51 | 13.488 | | |
| 13,400.00 | 6,927.75 | 6,929.75 | 6,927.75 | 185.67 | 240.19 | 89.85 | 2,638.94 | -3,627.40 | 5,310.42 | 4,920.24 | 390.17 | 13.610 | | |
| 13,500.00 | 6,927.37 | 6,929.37 | 6,927.37 | 188.48 | 240.18 | 89.84 | 2,638.94 | -3,627.40 | 5,368.42 | 4,977.63 | 390.79 | 13.737 | | |
| 13,600.00 | 6,926.99 | 6,928.99 | 6,926.99 | 191.29 | 240.17 | 89.84 | 2,638.94 | -3,627.40 | 5,427.65 | 5,036.29 | 391.36 | 13.869 | | |
| 13,700.00 | 6,926.61 | 6,928.61 | 6,926.61 | 194.10 | 240.16 | 89.83 | 2,638.94 | -3,627.40 | 5,488.06 | 5,096.17 | 391.89 | 14.004 | | |
| 13,800.00 | 6,926.23 | 6,928.23 | 6,926.23 | 196.92 | 240.14 | 89.83 | 2,638.94 | -3,627.40 | 5,549.62 | 5,157.24 | 392.37 | 14.144 | | |
| 13,900.00 | 6,925.85 | 6,927.85 | 6,925.85 | 199.73 | 240.13 | 89.82 | 2,638.94 | -3,627.40 | 5,612.28 | 5,219.46 | 392.82 | 14.287 | | |
| 14,000.00 | 6,925.47 | 6,927.47 | 6,925.47 | 202.55 | 240.12 | 89.82 | 2,638.94 | -3,627.40 | 5,676.01 | 5,282.78 | 393.23 | 14.434 | | |
| 14,100.00 | 6,925.09 | 6,927.09 | 6,925.09 | 205.37 | 240.10 | 89.81 | 2,638.94 | -3,627.40 | 5,740.78 | 5,347.17 | 393.61 | 14.585 | | |
| 14,200.00 | 6,924.71 | 6,926.71 | 6,924.71 | 208.19 | 240.09 | 89.81 | 2,638.94 | -3,627.40 | 5,806.54 | 5,412.59 | 393.95 | 14.739 | | |
| 14,300.00 | 6,924.34 | 6,926.34 | 6,924.34 | 211.01 | 240.08 | 89.80 | 2,638.94 | -3,627.40 | 5,873.28 | 5,479.02 | 394.26 | 14.897 | | |
| 14,400.00 | 6,923.96 | 6,925.96 | 6,923.96 | 213.83 | 240.06 | 89.80 | 2,638.94 | -3,627.40 | 5,940.94 | 5,546.40 | 394.54 | 15.058 | | |
| 14,500.00 | 6,923.58 | 6,925.58 | 6,923.58 | 216.65 | 240.05 | 89.79 | 2,638.94 | -3,627.40 | 6,009.51 | 5,614.71 | 394.80 | 15.222 | | |
| 14,600.00 | 6,923.20 | 6,925.20 | 6,923.20 | 219.48 | 240.04 | 89.79 | 2,638.94 | -3,627.40 | 6,078.95 | 5,683.93 | 395.03 | 15.389 | | |
| 14,700.00 | 6,922.82 | 6,924.82 | 6,922.82 | 222.30 | 240.02 | 89.78 | 2,638.94 | -3,627.40 | 6,149.24 | 5,754.01 | 395.23 | 15.559 | | |
| 14,800.00 | 6,922.44 | 6,924.44 | 6,922.44 | 225.13 | 240.01 | 89.78 | 2,638.94 | -3,627.40 | 6,220.33 | 5,824.92 | 395.41 | 15.731 | | |
| 14,900.00 | 6,922.06 | 6,924.06 | 6,922.06 | 227.95 | 240.00 | 89.77 | 2,638.94 | -3,627.40 | 6,292.21 | 5,896.65 | 395.57 | 15.907 | | |
| 14,915.55 | 6,922.00 | 6,924.00 | 6,922.00 | 228.39 | 239.99 | 89.77 | 2,638.94 | -3,627.40 | 6,303.46 | 5,907.87 | 395.59 | 15.934 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LUCAS SCHOOL 34-9(TA_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 38.00 | 3.28 | 3.28 | -61.68 | 2,610.00 | -4,842.75 | 5,501.43 | | | | | |
| 100.00 | 100.00 | 62.00 | 100.00 | 3.28 | 3.45 | -61.68 | 2,610.00 | -4,842.75 | 5,501.30 | 5,494.56 | 6.74 | 816.381 | | |
| 200.00 | 200.00 | 162.00 | 200.00 | 3.34 | 5.10 | -61.68 | 2,610.00 | -4,842.75 | 5,501.30 | 5,492.86 | 8.44 | 651.770 | | |
| 300.00 | 299.98 | 261.98 | 299.98 | 3.44 | 8.09 | 112.95 | 2,610.00 | -4,842.75 | 5,501.98 | 5,490.45 | 11.53 | 477.024 | | |
| 400.00 | 399.84 | 361.84 | 399.84 | 3.59 | 11.37 | 112.96 | 2,610.00 | -4,842.75 | 5,504.02 | 5,489.06 | 14.96 | 367.950 | | |
| 500.00 | 499.45 | 461.45 | 499.45 | 3.79 | 14.73 | 112.98 | 2,610.00 | -4,842.75 | 5,507.44 | 5,488.91 | 18.52 | 297.366 | | |
| 600.00 | 598.70 | 560.70 | 598.70 | 4.03 | 18.13 | 113.01 | 2,610.00 | -4,842.75 | 5,512.23 | 5,490.07 | 22.16 | 248.771 | | |
| 700.00 | 697.47 | 659.47 | 697.47 | 4.31 | 21.53 | 113.04 | 2,610.00 | -4,842.75 | 5,518.41 | 5,492.57 | 25.84 | 213.547 | | |
| 800.00 | 795.62 | 757.62 | 795.62 | 4.64 | 24.92 | 113.08 | 2,610.00 | -4,842.75 | 5,526.00 | 5,496.45 | 29.56 | 186.970 | | |
| 900.00 | 893.06 | 855.06 | 893.06 | 5.00 | 28.30 | 113.12 | 2,610.00 | -4,842.75 | 5,535.02 | 5,501.74 | 33.29 | 166.278 | | |
| 1,000.00 | 989.78 | 951.78 | 989.78 | 5.39 | 31.65 | 113.27 | 2,610.00 | -4,842.75 | 5,545.29 | 5,508.26 | 37.03 | 149.743 | | |
| 1,100.00 | 1,086.42 | 1,048.42 | 1,086.42 | 5.81 | 35.01 | 113.51 | 2,610.00 | -4,842.75 | 5,555.80 | 5,515.00 | 40.80 | 136.172 | | |
| 1,200.00 | 1,183.06 | 1,145.06 | 1,183.06 | 6.25 | 38.37 | 113.75 | 2,610.00 | -4,842.75 | 5,566.40 | 5,521.81 | 44.59 | 124.840 | | |
| 1,300.00 | 1,279.69 | 1,241.69 | 1,279.69 | 6.71 | 41.73 | 113.98 | 2,610.00 | -4,842.75 | 5,577.10 | 5,528.71 | 48.39 | 115.245 | | |
| 1,400.00 | 1,376.33 | 1,338.33 | 1,376.33 | 7.17 | 45.10 | 114.21 | 2,610.00 | -4,842.75 | 5,587.90 | 5,535.69 | 52.21 | 107.023 | | |
| 1,500.00 | 1,472.97 | 1,434.97 | 1,472.97 | 7.65 | 48.46 | 114.45 | 2,610.00 | -4,842.75 | 5,598.80 | 5,542.76 | 56.04 | 99.905 | | |
| 1,600.00 | 1,569.61 | 1,531.61 | 1,569.61 | 8.13 | 51.83 | 114.68 | 2,610.00 | -4,842.75 | 5,609.80 | 5,549.92 | 59.88 | 93.685 | | |
| 1,700.00 | 1,666.24 | 1,628.24 | 1,666.24 | 8.62 | 55.19 | 114.91 | 2,610.00 | -4,842.75 | 5,620.89 | 5,557.16 | 63.72 | 88.205 | | |
| 1,800.00 | 1,762.88 | 1,724.88 | 1,762.88 | 9.12 | 58.56 | 115.14 | 2,610.00 | -4,842.75 | 5,632.07 | 5,564.50 | 67.58 | 83.344 | | |
| 1,900.00 | 1,859.52 | 1,821.52 | 1,859.52 | 9.62 | 61.93 | 115.37 | 2,610.00 | -4,842.75 | 5,643.35 | 5,571.92 | 71.43 | 79.002 | | |
| 2,000.00 | 1,956.16 | 1,918.16 | 1,956.16 | 10.13 | 65.30 | 115.60 | 2,610.00 | -4,842.75 | 5,654.73 | 5,579.44 | 75.29 | 75.102 | | |
| 2,100.00 | 2,052.79 | 2,014.79 | 2,052.79 | 10.64 | 68.67 | 115.83 | 2,610.00 | -4,842.75 | 5,666.20 | 5,587.04 | 79.16 | 71.581 | | |
| 2,200.00 | 2,149.43 | 2,111.43 | 2,149.43 | 11.15 | 72.04 | 116.06 | 2,610.00 | -4,842.75 | 5,677.76 | 5,594.74 | 83.03 | 68.386 | | |
| 2,300.00 | 2,246.07 | 2,208.07 | 2,246.07 | 11.66 | 75.41 | 116.28 | 2,610.00 | -4,842.75 | 5,689.42 | 5,602.52 | 86.90 | 65.474 | | |
| 2,400.00 | 2,342.71 | 2,304.71 | 2,342.71 | 12.18 | 78.78 | 116.51 | 2,610.00 | -4,842.75 | 5,701.16 | 5,610.40 | 90.77 | 62.811 | | |
| 2,500.00 | 2,439.34 | 2,401.34 | 2,439.34 | 12.70 | 82.15 | 116.73 | 2,610.00 | -4,842.75 | 5,713.00 | 5,618.36 | 94.64 | 60.365 | | |
| 2,600.00 | 2,535.98 | 2,502.02 | 2,535.98 | 13.22 | 85.66 | 116.96 | 2,610.00 | -4,842.75 | 5,724.93 | 5,626.28 | 98.66 | 58.028 | | |
| 2,700.00 | 2,632.62 | 2,605.38 | 2,632.62 | 13.75 | 89.27 | 117.18 | 2,610.00 | -4,842.75 | 5,736.95 | 5,634.18 | 102.77 | 55.824 | | |
| 2,800.00 | 2,729.26 | 2,708.74 | 2,729.26 | 14.27 | 92.87 | 117.40 | 2,610.00 | -4,842.75 | 5,749.06 | 5,642.18 | 106.88 | 53.789 | | |
| 2,900.00 | 2,825.89 | 2,787.89 | 2,825.89 | 14.80 | 95.64 | 117.62 | 2,610.00 | -4,842.75 | 5,761.26 | 5,651.11 | 110.15 | 52.303 | | |
| 3,000.00 | 2,922.53 | 2,884.53 | 2,922.53 | 15.32 | 99.01 | 117.84 | 2,610.00 | -4,842.75 | 5,773.55 | 5,659.52 | 114.03 | 50.631 | | |
| 3,100.00 | 3,019.17 | 2,981.17 | 3,019.17 | 15.85 | 102.38 | 118.06 | 2,610.00 | -4,842.75 | 5,785.93 | 5,668.02 | 117.91 | 49.070 | | |
| 3,200.00 | 3,115.81 | 3,077.81 | 3,115.81 | 16.38 | 105.75 | 118.28 | 2,610.00 | -4,842.75 | 5,798.39 | 5,676.60 | 121.79 | 47.609 | | |
| 3,300.00 | 3,212.44 | 3,174.44 | 3,212.44 | 16.91 | 109.12 | 118.50 | 2,610.00 | -4,842.75 | 5,810.95 | 5,685.27 | 125.68 | 46.238 | | |
| 3,400.00 | 3,309.08 | 3,271.08 | 3,309.08 | 17.44 | 112.50 | 118.71 | 2,610.00 | -4,842.75 | 5,823.58 | 5,694.03 | 129.56 | 44.950 | | |
| 3,500.00 | 3,405.72 | 3,367.72 | 3,405.72 | 17.97 | 115.87 | 118.93 | 2,610.00 | -4,842.75 | 5,836.31 | 5,702.87 | 133.44 | 43.737 | | |
| 3,600.00 | 3,502.36 | 3,464.36 | 3,502.36 | 18.50 | 119.24 | 119.15 | 2,610.00 | -4,842.75 | 5,849.12 | 5,711.79 | 137.32 | 42.594 | | |
| 3,700.00 | 3,598.99 | 3,560.99 | 3,598.99 | 19.03 | 122.61 | 119.36 | 2,610.00 | -4,842.75 | 5,862.01 | 5,720.80 | 141.21 | 41.514 | | |
| 3,800.00 | 3,695.63 | 3,657.63 | 3,695.63 | 19.57 | 125.99 | 119.57 | 2,610.00 | -4,842.75 | 5,874.99 | 5,729.90 | 145.09 | 40.492 | | |
| 3,900.00 | 3,792.27 | 3,754.27 | 3,792.27 | 20.10 | 129.36 | 119.78 | 2,610.00 | -4,842.75 | 5,888.05 | 5,739.08 | 148.97 | 39.524 | | |
| 4,000.00 | 3,888.91 | 3,850.91 | 3,888.91 | 20.63 | 132.73 | 120.00 | 2,610.00 | -4,842.75 | 5,901.19 | 5,748.34 | 152.86 | 38.606 | | |
| 4,100.00 | 3,985.54 | 3,947.54 | 3,985.54 | 21.17 | 136.10 | 120.21 | 2,610.00 | -4,842.75 | 5,914.42 | 5,757.68 | 156.74 | 37.734 | | |
| 4,200.00 | 4,082.18 | 4,044.18 | 4,082.18 | 21.70 | 139.48 | 120.42 | 2,610.00 | -4,842.75 | 5,927.73 | 5,767.11 | 160.62 | 36.904 | | |
| 4,300.00 | 4,178.82 | 4,140.82 | 4,178.82 | 22.24 | 142.85 | 120.62 | 2,610.00 | -4,842.75 | 5,941.12 | 5,776.61 | 164.51 | 36.114 | | |
| 4,400.00 | 4,275.46 | 4,237.46 | 4,275.46 | 22.77 | 146.22 | 120.83 | 2,610.00 | -4,842.75 | 5,954.59 | 5,786.20 | 168.39 | 35.361 | | |
| 4,500.00 | 4,372.09 | 4,334.09 | 4,372.09 | 23.31 | 149.59 | 121.04 | 2,610.00 | -4,842.75 | 5,968.15 | 5,795.87 | 172.28 | 34.643 | | |
| 4,600.00 | 4,468.73 | 4,430.73 | 4,468.73 | 23.84 | 152.97 | 121.24 | 2,610.00 | -4,842.75 | 5,981.78 | 5,805.62 | 176.16 | 33.957 | | |
| 4,700.00 | 4,565.37 | 4,527.37 | 4,565.37 | 24.38 | 156.34 | 121.45 | 2,610.00 | -4,842.75 | 5,995.49 | 5,815.45 | 180.04 | 33.300 | | |
| 4,800.00 | 4,662.01 | 4,624.01 | 4,662.01 | 24.91 | 159.71 | 121.65 | 2,610.00 | -4,842.75 | 6,009.28 | 5,825.35 | 183.93 | 32.672 | | |
| 4,900.00 | 4,758.64 | 4,720.64 | 4,758.64 | 25.45 | 163.09 | 121.86 | 2,610.00 | -4,842.75 | 6,023.15 | 5,835.34 | 187.81 | 32.070 | | |
| 5,000.00 | 4,855.28 | 4,817.28 | 4,855.28 | 25.99 | 166.46 | 122.06 | 2,610.00 | -4,842.75 | 6,037.10 | 5,845.40 | 191.69 | 31.494 | | |
| 5,100.00 | 4,951.92 | 4,913.92 | 4,951.92 | 26.53 | 169.83 | 122.26 | 2,610.00 | -4,842.75 | 6,051.12 | 5,855.54 | 195.58 | 30.940 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LUCAS SCHOOL 34-9(TA_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,010.56 | 5,048.56 | 27.06 | 173.20 | 122.46 | 2,610.00 | -4,842.75 | 6,065.22 | 5,865.76 | 199.46 | 30.408 | | |
| 5,300.00 | 5,145.19 | 5,107.19 | 5,145.19 | 27.60 | 176.58 | 122.66 | 2,610.00 | -4,842.75 | 6,079.39 | 5,876.05 | 203.34 | 29.897 | | |
| 5,400.00 | 5,241.83 | 5,203.83 | 5,241.83 | 28.14 | 179.95 | 122.86 | 2,610.00 | -4,842.75 | 6,093.65 | 5,886.42 | 207.22 | 29.406 | | |
| 5,500.00 | 5,338.47 | 5,300.47 | 5,338.47 | 28.67 | 183.32 | 123.06 | 2,610.00 | -4,842.75 | 6,107.97 | 5,896.87 | 211.11 | 28.933 | | |
| 5,600.00 | 5,435.11 | 5,402.89 | 5,435.11 | 29.21 | 186.90 | 123.25 | 2,610.00 | -4,842.75 | 6,122.37 | 5,907.18 | 215.19 | 28.451 | | |
| 5,700.00 | 5,531.74 | 5,506.26 | 5,531.74 | 29.75 | 190.51 | 123.45 | 2,610.00 | -4,842.75 | 6,136.85 | 5,917.54 | 219.31 | 27.983 | | |
| 5,800.00 | 5,628.38 | 5,609.62 | 5,628.38 | 30.29 | 194.11 | 123.65 | 2,610.00 | -4,842.75 | 6,151.40 | 5,927.97 | 223.42 | 27.532 | | |
| 5,900.00 | 5,725.02 | 5,687.02 | 5,725.02 | 30.83 | 196.82 | 123.84 | 2,610.00 | -4,842.75 | 6,166.02 | 5,939.38 | 226.63 | 27.207 | | |
| 6,000.00 | 5,821.66 | 5,783.66 | 5,821.66 | 31.37 | 200.19 | 124.03 | 2,610.00 | -4,842.75 | 6,180.71 | 5,950.20 | 230.51 | 26.813 | | |
| 6,100.00 | 5,918.29 | 5,880.29 | 5,918.29 | 31.90 | 203.56 | 124.23 | 2,610.00 | -4,842.75 | 6,195.48 | 5,961.08 | 234.40 | 26.432 | | |
| 6,200.00 | 6,014.93 | 5,976.93 | 6,014.93 | 32.44 | 206.94 | 124.42 | 2,610.00 | -4,842.75 | 6,210.31 | 5,972.04 | 238.28 | 26.063 | | |
| 6,300.00 | 6,111.57 | 6,073.57 | 6,111.57 | 32.98 | 210.31 | 124.61 | 2,610.00 | -4,842.75 | 6,225.22 | 5,983.06 | 242.16 | 25.707 | | |
| 6,400.00 | 6,208.21 | 6,170.21 | 6,208.21 | 33.52 | 213.68 | 124.80 | 2,610.00 | -4,842.75 | 6,240.20 | 5,994.16 | 246.04 | 25.363 | | |
| 6,500.00 | 6,304.84 | 6,266.84 | 6,304.84 | 34.06 | 217.06 | 124.99 | 2,610.00 | -4,842.75 | 6,255.25 | 6,005.33 | 249.92 | 25.029 | | |
| 6,600.00 | 6,401.37 | 6,363.37 | 6,401.37 | 34.60 | 220.42 | 108.11 | 2,610.00 | -4,842.75 | 6,268.72 | 6,014.93 | 253.79 | 24.700 | | |
| 6,700.00 | 6,496.25 | 6,458.25 | 6,496.25 | 35.12 | 223.74 | 85.72 | 2,610.00 | -4,842.75 | 6,271.73 | 6,014.12 | 257.61 | 24.346 | | |
| 6,800.00 | 6,587.15 | 6,549.15 | 6,587.15 | 35.59 | 226.91 | 74.18 | 2,610.00 | -4,842.75 | 6,263.03 | 6,001.77 | 261.26 | 23.972 | | |
| 6,900.00 | 6,671.83 | 6,633.83 | 6,671.83 | 36.03 | 229.87 | 68.77 | 2,610.00 | -4,842.75 | 6,243.01 | 5,978.34 | 264.67 | 23.588 | | |
| 7,000.00 | 6,748.21 | 6,710.21 | 6,748.21 | 36.41 | 232.53 | 66.95 | 2,610.00 | -4,842.75 | 6,212.35 | 5,944.57 | 267.78 | 23.199 | | |
| 7,100.00 | 6,814.41 | 6,776.41 | 6,814.41 | 36.76 | 234.84 | 67.58 | 2,610.00 | -4,842.75 | 6,172.00 | 5,901.45 | 270.55 | 22.813 | | |
| 7,200.00 | 6,868.79 | 6,830.79 | 6,868.79 | 37.07 | 236.74 | 70.16 | 2,610.00 | -4,842.75 | 6,123.11 | 5,850.17 | 272.94 | 22.434 | | |
| 7,300.00 | 6,910.01 | 6,872.01 | 6,910.01 | 37.39 | 238.18 | 74.46 | 2,610.00 | -4,842.75 | 6,067.05 | 5,792.10 | 274.95 | 22.066 | | |
| 7,400.00 | 6,937.07 | 6,900.93 | 6,937.07 | 37.76 | 239.19 | 80.33 | 2,610.00 | -4,842.75 | 6,005.28 | 5,728.67 | 276.62 | 21.710 | | |
| 7,500.00 | 6,949.29 | 6,911.29 | 6,949.29 | 38.27 | 239.55 | 87.55 | 2,610.00 | -4,842.75 | 5,939.38 | 5,661.65 | 277.73 | 21.386 | | |
| 7,600.00 | 6,949.75 | 6,911.75 | 6,949.75 | 39.02 | 239.57 | 90.20 | 2,610.00 | -4,842.75 | 5,871.50 | 5,592.92 | 278.58 | 21.076 | | |
| 7,700.00 | 6,949.37 | 6,911.37 | 6,949.37 | 40.05 | 239.55 | 90.19 | 2,610.00 | -4,842.75 | 5,804.39 | 5,524.86 | 279.53 | 20.765 | | |
| 7,800.00 | 6,948.99 | 6,910.99 | 6,948.99 | 41.35 | 239.54 | 90.19 | 2,610.00 | -4,842.75 | 5,738.23 | 5,457.63 | 280.60 | 20.450 | | |
| 7,900.00 | 6,948.61 | 6,910.61 | 6,948.61 | 42.86 | 239.53 | 90.18 | 2,610.00 | -4,842.75 | 5,673.06 | 5,391.28 | 281.78 | 20.133 | | |
| 8,000.00 | 6,948.23 | 6,910.23 | 6,948.23 | 44.53 | 239.51 | 90.18 | 2,610.00 | -4,842.75 | 5,608.92 | 5,325.83 | 283.09 | 19.813 | | |
| 8,100.00 | 6,947.85 | 6,909.85 | 6,947.85 | 46.34 | 239.50 | 90.17 | 2,610.00 | -4,842.75 | 5,545.84 | 5,261.33 | 284.51 | 19.493 | | |
| 8,200.00 | 6,947.47 | 6,909.47 | 6,947.47 | 48.26 | 239.49 | 90.17 | 2,610.00 | -4,842.75 | 5,483.85 | 5,197.82 | 286.04 | 19.172 | | |
| 8,300.00 | 6,947.09 | 6,909.09 | 6,947.09 | 50.28 | 239.47 | 90.16 | 2,610.00 | -4,842.75 | 5,423.01 | 5,135.33 | 287.68 | 18.851 | | |
| 8,400.00 | 6,946.72 | 6,908.72 | 6,946.72 | 52.39 | 239.46 | 90.16 | 2,610.00 | -4,842.75 | 5,363.33 | 5,073.91 | 289.43 | 18.531 | | |
| 8,500.00 | 6,946.34 | 6,908.34 | 6,946.34 | 54.56 | 239.45 | 90.15 | 2,610.00 | -4,842.75 | 5,304.87 | 5,013.60 | 291.27 | 18.213 | | |
| 8,600.00 | 6,945.96 | 6,907.96 | 6,945.96 | 56.80 | 239.43 | 90.15 | 2,610.00 | -4,842.75 | 5,247.67 | 4,954.45 | 293.22 | 17.897 | | |
| 8,700.00 | 6,945.58 | 6,907.58 | 6,945.58 | 59.10 | 239.42 | 90.14 | 2,610.00 | -4,842.75 | 5,191.76 | 4,896.50 | 295.26 | 17.584 | | |
| 8,800.00 | 6,945.20 | 6,907.20 | 6,945.20 | 61.44 | 239.41 | 90.14 | 2,610.00 | -4,842.75 | 5,137.19 | 4,839.80 | 297.39 | 17.274 | | |
| 8,900.00 | 6,944.82 | 6,906.82 | 6,944.82 | 63.83 | 239.39 | 90.13 | 2,610.00 | -4,842.75 | 5,084.00 | 4,784.39 | 299.61 | 16.969 | | |
| 9,000.00 | 6,944.44 | 6,906.44 | 6,944.44 | 66.25 | 239.38 | 90.13 | 2,610.00 | -4,842.75 | 5,032.24 | 4,730.33 | 301.90 | 16.668 | | |
| 9,100.00 | 6,944.06 | 6,906.06 | 6,944.06 | 68.71 | 239.37 | 90.12 | 2,610.00 | -4,842.75 | 4,981.94 | 4,677.66 | 304.28 | 16.373 | | |
| 9,200.00 | 6,943.68 | 6,905.68 | 6,943.68 | 71.20 | 239.35 | 90.12 | 2,610.00 | -4,842.75 | 4,933.16 | 4,626.44 | 306.73 | 16.083 | | |
| 9,300.00 | 6,943.30 | 6,905.30 | 6,943.30 | 73.72 | 239.34 | 90.11 | 2,610.00 | -4,842.75 | 4,885.94 | 4,576.70 | 309.25 | 15.800 | | |
| 9,400.00 | 6,942.92 | 6,904.92 | 6,942.92 | 76.26 | 239.33 | 90.11 | 2,610.00 | -4,842.75 | 4,840.33 | 4,528.50 | 311.83 | 15.522 | | |
| 9,500.00 | 6,942.54 | 6,904.54 | 6,942.54 | 78.82 | 239.32 | 90.10 | 2,610.00 | -4,842.75 | 4,796.37 | 4,481.90 | 314.47 | 15.252 | | |
| 9,600.00 | 6,942.16 | 6,904.16 | 6,942.16 | 81.40 | 239.30 | 90.10 | 2,610.00 | -4,842.75 | 4,754.10 | 4,436.93 | 317.17 | 14.989 | | |
| 9,700.00 | 6,941.78 | 6,903.78 | 6,941.78 | 84.00 | 239.29 | 90.09 | 2,610.00 | -4,842.75 | 4,713.58 | 4,393.66 | 319.92 | 14.734 | | |
| 9,800.00 | 6,941.40 | 6,903.40 | 6,941.40 | 86.62 | 239.28 | 90.09 | 2,610.00 | -4,842.75 | 4,674.84 | 4,352.14 | 322.71 | 14.486 | | |
| 9,900.00 | 6,941.03 | 6,903.03 | 6,941.03 | 89.25 | 239.26 | 90.08 | 2,610.00 | -4,842.75 | 4,637.94 | 4,312.40 | 325.54 | 14.247 | | |
| 10,000.00 | 6,940.65 | 6,902.65 | 6,940.65 | 91.90 | 239.25 | 90.08 | 2,610.00 | -4,842.75 | 4,602.92 | 4,274.51 | 328.41 | 14.016 | | |
| 10,100.00 | 6,940.27 | 6,902.27 | 6,940.27 | 94.56 | 239.24 | 90.07 | 2,610.00 | -4,842.75 | 4,569.81 | 4,238.50 | 331.31 | 13.793 | | |
| 10,200.00 | 6,939.89 | 6,901.89 | 6,939.89 | 97.23 | 239.22 | 90.07 | 2,610.00 | -4,842.75 | 4,538.67 | 4,204.44 | 334.23 | 13.579 | | |
| 10,300.00 | 6,939.51 | 6,901.51 | 6,939.51 | 99.91 | 239.21 | 90.06 | 2,610.00 | -4,842.75 | 4,509.53 | 4,172.36 | 337.17 | 13.375 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - LUCAS SCHOOL 34-9(TA_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,901.13 | 6,939.13 | 102.60 | 239.20 | 90.06 | 2,610.00 | -4,842.75 | 4,482.44 | 4,142.31 | 340.12 | 13.179 | | |
| 10,500.00 | 6,938.75 | 6,900.75 | 6,938.75 | 105.30 | 239.18 | 90.05 | 2,610.00 | -4,842.75 | 4,457.42 | 4,114.34 | 343.08 | 12.992 | | |
| 10,600.00 | 6,938.37 | 6,900.37 | 6,938.37 | 108.00 | 239.17 | 90.05 | 2,610.00 | -4,842.75 | 4,434.51 | 4,088.48 | 346.04 | 12.815 | | |
| 10,700.00 | 6,937.99 | 6,900.01 | 6,937.99 | 110.72 | 239.16 | 90.04 | 2,610.00 | -4,842.75 | 4,413.76 | 4,064.77 | 348.99 | 12.647 | | |
| 10,800.00 | 6,937.61 | 6,900.39 | 6,937.61 | 113.44 | 239.17 | 90.04 | 2,610.00 | -4,842.75 | 4,395.18 | 4,043.22 | 351.95 | 12.488 | | |
| 10,900.00 | 6,937.23 | 6,900.77 | 6,937.23 | 116.17 | 239.18 | 90.03 | 2,610.00 | -4,842.75 | 4,378.80 | 4,023.90 | 354.90 | 12.338 | | |
| 11,000.00 | 6,936.85 | 6,901.15 | 6,936.85 | 118.90 | 239.20 | 90.03 | 2,610.00 | -4,842.75 | 4,364.66 | 4,006.84 | 357.82 | 12.198 | | |
| 11,100.00 | 6,936.47 | 6,901.53 | 6,936.47 | 121.64 | 239.21 | 90.02 | 2,610.00 | -4,842.75 | 4,352.77 | 3,992.06 | 360.71 | 12.067 | | |
| 11,200.00 | 6,936.09 | 6,901.91 | 6,936.09 | 124.39 | 239.22 | 90.02 | 2,610.00 | -4,842.75 | 4,343.15 | 3,979.58 | 363.56 | 11.946 | | |
| 11,300.00 | 6,935.71 | 6,902.29 | 6,935.71 | 127.14 | 239.24 | 90.01 | 2,610.00 | -4,842.75 | 4,335.81 | 3,969.44 | 366.37 | 11.834 | | |
| 11,400.00 | 6,935.34 | 6,902.66 | 6,935.34 | 129.90 | 239.25 | 90.01 | 2,610.00 | -4,842.75 | 4,330.78 | 3,961.64 | 369.14 | 11.732 | | |
| 11,500.00 | 6,934.96 | 6,903.04 | 6,934.96 | 132.66 | 239.26 | 90.00 | 2,610.00 | -4,842.75 | 4,328.04 | 3,956.20 | 371.84 | 11.639 | | |
| 11,568.31 | 6,934.70 | 6,903.30 | 6,934.70 | 134.55 | 239.27 | 90.00 | 2,610.00 | -4,842.75 | 4,327.50 | 3,953.85 | 373.66 | 11.581 CC | | |
| 11,600.00 | 6,934.58 | 6,903.42 | 6,934.58 | 135.42 | 239.28 | 90.00 | 2,610.00 | -4,842.75 | 4,327.62 | 3,953.13 | 374.49 | 11.556 | | |
| 11,700.00 | 6,934.20 | 6,903.80 | 6,934.20 | 138.19 | 239.29 | 89.99 | 2,610.00 | -4,842.75 | 4,329.51 | 3,952.44 | 377.07 | 11.482 ES | | |
| 11,800.00 | 6,933.82 | 6,904.18 | 6,933.82 | 140.96 | 239.30 | 89.99 | 2,610.00 | -4,842.75 | 4,333.70 | 3,954.11 | 379.59 | 11.417 | | |
| 11,900.00 | 6,933.44 | 6,904.56 | 6,933.44 | 143.74 | 239.32 | 89.98 | 2,610.00 | -4,842.75 | 4,340.20 | 3,958.17 | 382.03 | 11.361 | | |
| 12,000.00 | 6,933.06 | 6,904.94 | 6,933.06 | 146.51 | 239.33 | 89.98 | 2,610.00 | -4,842.75 | 4,348.98 | 3,964.59 | 384.40 | 11.314 | | |
| 12,100.00 | 6,932.68 | 6,905.32 | 6,932.68 | 149.30 | 239.34 | 89.97 | 2,610.00 | -4,842.75 | 4,360.04 | 3,973.36 | 386.68 | 11.275 | | |
| 12,200.00 | 6,932.30 | 6,905.70 | 6,932.30 | 152.08 | 239.36 | 89.97 | 2,610.00 | -4,842.75 | 4,373.37 | 3,984.47 | 388.89 | 11.246 | | |
| 12,300.00 | 6,931.92 | 6,906.08 | 6,931.92 | 154.87 | 239.37 | 89.96 | 2,610.00 | -4,842.75 | 4,388.92 | 3,997.91 | 391.01 | 11.225 | | |
| 12,400.00 | 6,931.54 | 6,906.46 | 6,931.54 | 157.66 | 239.38 | 89.96 | 2,610.00 | -4,842.75 | 4,406.70 | 4,013.65 | 393.05 | 11.212 | | |
| 12,500.00 | 6,931.16 | 6,906.84 | 6,931.16 | 160.45 | 239.40 | 89.95 | 2,610.00 | -4,842.75 | 4,426.66 | 4,031.66 | 395.00 | 11.207 SF | | |
| 12,600.00 | 6,930.78 | 6,907.22 | 6,930.78 | 163.24 | 239.41 | 89.95 | 2,610.00 | -4,842.75 | 4,448.78 | 4,051.93 | 396.86 | 11.210 | | |
| 12,700.00 | 6,930.40 | 6,907.60 | 6,930.40 | 166.04 | 239.42 | 89.94 | 2,610.00 | -4,842.75 | 4,473.03 | 4,074.40 | 398.63 | 11.221 | | |
| 12,800.00 | 6,930.03 | 6,907.98 | 6,930.03 | 168.84 | 239.43 | 89.94 | 2,610.00 | -4,842.75 | 4,499.37 | 4,099.06 | 400.31 | 11.240 | | |
| 12,900.00 | 6,929.65 | 6,908.35 | 6,929.65 | 171.64 | 239.45 | 89.93 | 2,610.00 | -4,842.75 | 4,527.77 | 4,125.86 | 401.91 | 11.266 | | |
| 13,000.00 | 6,929.27 | 6,908.73 | 6,929.27 | 174.44 | 239.46 | 89.93 | 2,610.00 | -4,842.75 | 4,558.18 | 4,154.77 | 403.41 | 11.299 | | |
| 13,100.00 | 6,928.89 | 6,909.11 | 6,928.89 | 177.24 | 239.47 | 89.92 | 2,610.00 | -4,842.75 | 4,590.57 | 4,185.73 | 404.84 | 11.339 | | |
| 13,200.00 | 6,928.51 | 6,909.49 | 6,928.51 | 180.05 | 239.49 | 89.92 | 2,610.00 | -4,842.75 | 4,624.90 | 4,218.73 | 406.17 | 11.387 | | |
| 13,300.00 | 6,928.13 | 6,909.87 | 6,928.13 | 182.86 | 239.50 | 89.91 | 2,610.00 | -4,842.75 | 4,661.12 | 4,253.69 | 407.42 | 11.440 | | |
| 13,400.00 | 6,927.75 | 6,889.75 | 6,927.75 | 185.67 | 238.80 | 89.91 | 2,610.00 | -4,842.75 | 4,699.18 | 4,291.31 | 407.88 | 11.521 | | |
| 13,500.00 | 6,927.37 | 6,889.37 | 6,927.37 | 188.48 | 238.79 | 89.90 | 2,610.00 | -4,842.75 | 4,739.06 | 4,330.11 | 408.94 | 11.589 | | |
| 13,600.00 | 6,926.99 | 6,888.99 | 6,926.99 | 191.29 | 238.77 | 89.90 | 2,610.00 | -4,842.75 | 4,780.69 | 4,370.76 | 409.93 | 11.662 | | |
| 13,700.00 | 6,926.61 | 6,888.61 | 6,926.61 | 194.10 | 238.76 | 89.89 | 2,610.00 | -4,842.75 | 4,824.04 | 4,413.19 | 410.84 | 11.742 | | |
| 13,800.00 | 6,926.23 | 6,888.23 | 6,926.23 | 196.92 | 238.75 | 89.89 | 2,610.00 | -4,842.75 | 4,869.05 | 4,457.37 | 411.68 | 11.827 | | |
| 13,900.00 | 6,925.85 | 6,887.85 | 6,925.85 | 199.73 | 238.73 | 89.88 | 2,610.00 | -4,842.75 | 4,915.69 | 4,503.24 | 412.45 | 11.918 | | |
| 14,000.00 | 6,925.47 | 6,887.47 | 6,925.47 | 202.55 | 238.72 | 89.88 | 2,610.00 | -4,842.75 | 4,963.90 | 4,550.75 | 413.16 | 12.015 | | |
| 14,100.00 | 6,925.09 | 6,887.09 | 6,925.09 | 205.37 | 238.71 | 89.87 | 2,610.00 | -4,842.75 | 5,013.65 | 4,599.85 | 413.80 | 12.116 | | |
| 14,200.00 | 6,924.71 | 6,886.71 | 6,924.71 | 208.19 | 238.69 | 89.87 | 2,610.00 | -4,842.75 | 5,064.88 | 4,650.51 | 414.37 | 12.223 | | |
| 14,300.00 | 6,924.34 | 6,886.34 | 6,924.34 | 211.01 | 238.68 | 89.86 | 2,610.00 | -4,842.75 | 5,117.55 | 4,702.66 | 414.89 | 12.335 | | |
| 14,400.00 | 6,923.96 | 6,885.96 | 6,923.96 | 213.83 | 238.67 | 89.86 | 2,610.00 | -4,842.75 | 5,171.62 | 4,756.27 | 415.35 | 12.451 | | |
| 14,500.00 | 6,923.58 | 6,885.58 | 6,923.58 | 216.65 | 238.65 | 89.85 | 2,610.00 | -4,842.75 | 5,227.04 | 4,811.28 | 415.76 | 12.572 | | |
| 14,600.00 | 6,923.20 | 6,885.20 | 6,923.20 | 219.48 | 238.64 | 89.85 | 2,610.00 | -4,842.75 | 5,283.78 | 4,867.65 | 416.12 | 12.698 | | |
| 14,700.00 | 6,922.82 | 6,884.82 | 6,922.82 | 222.30 | 238.63 | 89.84 | 2,610.00 | -4,842.75 | 5,341.78 | 4,925.35 | 416.44 | 12.827 | | |
| 14,800.00 | 6,922.44 | 6,884.44 | 6,922.44 | 225.13 | 238.61 | 89.84 | 2,610.00 | -4,842.75 | 5,401.02 | 4,984.31 | 416.70 | 12.961 | | |
| 14,900.00 | 6,922.06 | 6,884.06 | 6,922.06 | 227.95 | 238.60 | 89.83 | 2,610.00 | -4,842.75 | 5,461.44 | 5,044.51 | 416.93 | 13.099 | | |
| 14,915.55 | 6,922.00 | 6,884.00 | 6,922.00 | 228.39 | 238.60 | 89.83 | 2,610.00 | -4,842.75 | 5,470.94 | 5,053.98 | 416.96 | 13.121 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MAURICE LEFFLER 1(AB_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 65.00 | 3.28 | 3.28 | -122.28 | -4,011.63 | -6,349.87 | 7,511.21 | | | | |
| 100.00 | 100.00 | 35.00 | 100.00 | 3.28 | 3.34 | -122.28 | -4,011.63 | -6,349.87 | 7,510.92 | 7,504.30 | 6.62 | 1,134.387 | |
| 200.00 | 200.00 | 135.00 | 200.00 | 3.34 | 4.42 | -122.28 | -4,011.63 | -6,349.87 | 7,510.92 | 7,503.16 | 7.76 | 967.890 | |
| 300.00 | 299.98 | 234.98 | 299.98 | 3.44 | 7.24 | 52.36 | -4,011.63 | -6,349.87 | 7,509.86 | 7,499.18 | 10.68 | 703.007 | |
| 400.00 | 399.84 | 334.84 | 399.84 | 3.59 | 10.47 | 52.45 | -4,011.63 | -6,349.87 | 7,506.66 | 7,492.60 | 14.06 | 533.885 | |
| 500.00 | 499.45 | 434.45 | 499.45 | 3.79 | 13.82 | 52.58 | -4,011.63 | -6,349.87 | 7,501.35 | 7,483.74 | 17.60 | 426.101 | |
| 600.00 | 598.70 | 533.70 | 598.70 | 4.03 | 17.20 | 52.77 | -4,011.63 | -6,349.87 | 7,493.92 | 7,472.69 | 21.23 | 352.945 | |
| 700.00 | 697.47 | 632.47 | 697.47 | 4.31 | 20.60 | 53.02 | -4,011.63 | -6,349.87 | 7,484.41 | 7,459.50 | 24.91 | 300.462 | |
| 800.00 | 795.62 | 730.62 | 795.62 | 4.64 | 23.99 | 53.32 | -4,011.63 | -6,349.87 | 7,472.84 | 7,444.22 | 28.62 | 261.133 | |
| 900.00 | 893.06 | 828.06 | 893.06 | 5.00 | 27.36 | 53.68 | -4,011.63 | -6,349.87 | 7,459.23 | 7,426.89 | 32.34 | 230.639 | |
| 1,000.00 | 989.78 | 924.78 | 989.78 | 5.39 | 30.71 | 53.95 | -4,011.63 | -6,349.87 | 7,443.94 | 7,407.86 | 36.08 | 206.335 | |
| 1,100.00 | 1,086.42 | 1,021.42 | 1,086.42 | 5.81 | 34.07 | 54.10 | -4,011.63 | -6,349.87 | 7,428.49 | 7,388.66 | 39.83 | 186.492 | |
| 1,200.00 | 1,183.06 | 1,118.06 | 1,183.06 | 6.25 | 37.43 | 54.26 | -4,011.63 | -6,349.87 | 7,413.11 | 7,369.50 | 43.61 | 169.987 | |
| 1,300.00 | 1,279.69 | 1,214.69 | 1,279.69 | 6.71 | 40.79 | 54.42 | -4,011.63 | -6,349.87 | 7,397.78 | 7,350.37 | 47.40 | 156.058 | |
| 1,400.00 | 1,376.33 | 1,311.33 | 1,376.33 | 7.17 | 44.16 | 54.58 | -4,011.63 | -6,349.87 | 7,382.51 | 7,331.29 | 51.21 | 144.155 | |
| 1,500.00 | 1,472.97 | 1,407.97 | 1,472.97 | 7.65 | 47.52 | 54.74 | -4,011.63 | -6,349.87 | 7,367.29 | 7,312.26 | 55.03 | 133.873 | |
| 1,600.00 | 1,569.61 | 1,504.61 | 1,569.61 | 8.13 | 50.89 | 54.90 | -4,011.63 | -6,349.87 | 7,352.14 | 7,293.28 | 58.86 | 124.906 | |
| 1,700.00 | 1,666.24 | 1,601.24 | 1,666.24 | 8.62 | 54.25 | 55.06 | -4,011.63 | -6,349.87 | 7,337.04 | 7,274.34 | 62.70 | 117.021 | |
| 1,800.00 | 1,762.88 | 1,702.12 | 1,762.88 | 9.12 | 57.77 | 55.22 | -4,011.63 | -6,349.87 | 7,322.01 | 7,255.32 | 66.69 | 109.791 | |
| 1,900.00 | 1,859.52 | 1,805.48 | 1,859.52 | 9.62 | 61.37 | 55.38 | -4,011.63 | -6,349.87 | 7,307.03 | 7,236.25 | 70.77 | 103.243 | |
| 2,000.00 | 1,956.16 | 1,908.84 | 1,956.16 | 10.13 | 64.98 | 55.54 | -4,011.63 | -6,349.87 | 7,292.11 | 7,217.25 | 74.86 | 97.405 | |
| 2,100.00 | 2,052.79 | 1,987.79 | 2,052.79 | 10.64 | 67.73 | 55.71 | -4,011.63 | -6,349.87 | 7,277.25 | 7,199.15 | 78.11 | 93.171 | |
| 2,200.00 | 2,149.43 | 2,084.43 | 2,149.43 | 11.15 | 71.10 | 55.87 | -4,011.63 | -6,349.87 | 7,262.46 | 7,180.49 | 81.97 | 88.599 | |
| 2,300.00 | 2,246.07 | 2,181.07 | 2,246.07 | 11.66 | 74.47 | 56.03 | -4,011.63 | -6,349.87 | 7,247.72 | 7,161.89 | 85.84 | 84.436 | |
| 2,400.00 | 2,342.71 | 2,277.71 | 2,342.71 | 12.18 | 77.84 | 56.20 | -4,011.63 | -6,349.87 | 7,233.05 | 7,143.34 | 89.71 | 80.631 | |
| 2,500.00 | 2,439.34 | 2,374.34 | 2,439.34 | 12.70 | 81.21 | 56.36 | -4,011.63 | -6,349.87 | 7,218.44 | 7,124.86 | 93.58 | 77.138 | |
| 2,600.00 | 2,535.98 | 2,470.98 | 2,535.98 | 13.22 | 84.58 | 56.53 | -4,011.63 | -6,349.87 | 7,203.89 | 7,106.43 | 97.45 | 73.922 | |
| 2,700.00 | 2,632.62 | 2,567.62 | 2,632.62 | 13.75 | 87.95 | 56.70 | -4,011.63 | -6,349.87 | 7,189.40 | 7,088.07 | 101.33 | 70.951 | |
| 2,800.00 | 2,729.26 | 2,664.26 | 2,729.26 | 14.27 | 91.32 | 56.86 | -4,011.63 | -6,349.87 | 7,174.97 | 7,069.77 | 105.21 | 68.198 | |
| 2,900.00 | 2,825.89 | 2,760.89 | 2,825.89 | 14.80 | 94.69 | 57.03 | -4,011.63 | -6,349.87 | 7,160.61 | 7,051.52 | 109.09 | 65.640 | |
| 3,000.00 | 2,922.53 | 2,857.53 | 2,922.53 | 15.32 | 98.07 | 57.20 | -4,011.63 | -6,349.87 | 7,146.31 | 7,033.34 | 112.97 | 63.258 | |
| 3,100.00 | 3,019.17 | 2,954.17 | 3,019.17 | 15.85 | 101.44 | 57.37 | -4,011.63 | -6,349.87 | 7,132.08 | 7,015.23 | 116.85 | 61.034 | |
| 3,200.00 | 3,115.81 | 3,050.81 | 3,115.81 | 16.38 | 104.81 | 57.54 | -4,011.63 | -6,349.87 | 7,117.91 | 6,997.17 | 120.74 | 58.953 | |
| 3,300.00 | 3,212.44 | 3,147.44 | 3,212.44 | 16.91 | 108.18 | 57.71 | -4,011.63 | -6,349.87 | 7,103.81 | 6,979.18 | 124.63 | 57.001 | |
| 3,400.00 | 3,309.08 | 3,244.08 | 3,309.08 | 17.44 | 111.55 | 57.88 | -4,011.63 | -6,349.87 | 7,089.77 | 6,961.25 | 128.51 | 55.168 | |
| 3,500.00 | 3,405.72 | 3,340.72 | 3,405.72 | 17.97 | 114.93 | 58.06 | -4,011.63 | -6,349.87 | 7,075.79 | 6,943.39 | 132.40 | 53.442 | |
| 3,600.00 | 3,502.36 | 3,437.36 | 3,502.36 | 18.50 | 118.30 | 58.23 | -4,011.63 | -6,349.87 | 7,061.89 | 6,925.59 | 136.29 | 51.814 | |
| 3,700.00 | 3,598.99 | 3,533.99 | 3,598.99 | 19.03 | 121.67 | 58.40 | -4,011.63 | -6,349.87 | 7,048.04 | 6,907.86 | 140.18 | 50.277 | |
| 3,800.00 | 3,695.63 | 3,630.63 | 3,695.63 | 19.57 | 125.04 | 58.58 | -4,011.63 | -6,349.87 | 7,034.27 | 6,890.20 | 144.08 | 48.824 | |
| 3,900.00 | 3,792.27 | 3,727.27 | 3,792.27 | 20.10 | 128.42 | 58.75 | -4,011.63 | -6,349.87 | 7,020.56 | 6,872.60 | 147.97 | 47.447 | |
| 4,000.00 | 3,888.91 | 3,823.91 | 3,888.91 | 20.63 | 131.79 | 58.93 | -4,011.63 | -6,349.87 | 7,006.92 | 6,855.06 | 151.86 | 46.140 | |
| 4,100.00 | 3,985.54 | 3,920.54 | 3,985.54 | 21.17 | 135.16 | 59.10 | -4,011.63 | -6,349.87 | 6,993.35 | 6,837.59 | 155.76 | 44.899 | |
| 4,200.00 | 4,082.18 | 4,017.18 | 4,082.18 | 21.70 | 138.53 | 59.28 | -4,011.63 | -6,349.87 | 6,979.85 | 6,820.20 | 159.65 | 43.719 | |
| 4,300.00 | 4,178.82 | 4,113.82 | 4,178.82 | 22.24 | 141.91 | 59.46 | -4,011.63 | -6,349.87 | 6,966.41 | 6,802.86 | 163.55 | 42.596 | |
| 4,400.00 | 4,275.46 | 4,210.46 | 4,275.46 | 22.77 | 145.28 | 59.63 | -4,011.63 | -6,349.87 | 6,953.05 | 6,785.60 | 167.44 | 41.524 | |
| 4,500.00 | 4,372.09 | 4,307.09 | 4,372.09 | 23.31 | 148.65 | 59.81 | -4,011.63 | -6,349.87 | 6,939.75 | 6,768.41 | 171.34 | 40.502 | |
| 4,600.00 | 4,468.73 | 4,403.73 | 4,468.73 | 23.84 | 152.02 | 59.99 | -4,011.63 | -6,349.87 | 6,926.52 | 6,751.28 | 175.24 | 39.526 | |
| 4,700.00 | 4,565.37 | 4,450.37 | 4,565.37 | 24.38 | 155.39 | 60.08 | -4,011.63 | -6,349.87 | 6,913.54 | 6,736.07 | 179.14 | 38.597 | |
| 4,800.00 | 4,662.01 | 4,452.00 | 4,662.01 | 24.91 | 158.76 | 60.08 | -4,011.63 | -6,349.87 | 6,901.81 | 6,723.82 | 179.99 | 38.776 | |
| 4,900.00 | 4,758.64 | 4,452.00 | 4,758.64 | 25.45 | 162.13 | 60.08 | -4,011.63 | -6,349.87 | 6,891.51 | 6,713.02 | 178.48 | 38.612 | |
| 5,000.00 | 4,855.28 | 4,452.00 | 4,855.28 | 25.99 | 165.50 | 60.08 | -4,011.63 | -6,349.87 | 6,882.65 | 6,703.70 | 178.94 | 38.463 | |
| 5,100.00 | 4,951.92 | 4,452.00 | 4,951.92 | 26.53 | 168.87 | 60.08 | -4,011.63 | -6,349.87 | 6,875.23 | 6,695.86 | 179.37 | 38.331 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MAURICE LEFFLER 1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,452.00 | 4,517.00 | 27.06 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,869.26 | 6,689.50 | 179.75 | 38.215 | | |
| 5,300.00 | 5,145.19 | 4,452.00 | 4,517.00 | 27.60 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,864.74 | 6,684.63 | 180.11 | 38.115 | | |
| 5,400.00 | 5,241.83 | 4,452.00 | 4,517.00 | 28.14 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,861.67 | 6,681.25 | 180.43 | 38.031 | | |
| 5,500.00 | 5,338.47 | 4,452.00 | 4,517.00 | 28.67 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,860.06 | 6,679.36 | 180.71 | 37.962 | | |
| 5,560.33 | 5,396.77 | 4,452.00 | 4,517.00 | 29.00 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,859.80 | 6,678.94 | 180.86 | 37.929 | | |
| 5,600.00 | 5,435.11 | 4,452.00 | 4,517.00 | 29.21 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,859.91 | 6,678.96 | 180.95 | 37.910 | | |
| 5,700.00 | 5,531.74 | 4,452.00 | 4,517.00 | 29.75 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,861.22 | 6,680.06 | 181.16 | 37.874 | | |
| 5,800.00 | 5,628.38 | 4,452.00 | 4,517.00 | 30.29 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,863.98 | 6,682.65 | 181.33 | 37.854 | | |
| 5,900.00 | 5,725.02 | 4,452.00 | 4,517.00 | 30.83 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,868.20 | 6,686.74 | 181.46 | 37.849 | | |
| 6,000.00 | 5,821.66 | 4,452.00 | 4,517.00 | 31.37 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,873.87 | 6,692.31 | 181.56 | 37.860 | | |
| 6,100.00 | 5,918.29 | 4,452.00 | 4,517.00 | 31.90 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,880.99 | 6,699.37 | 181.62 | 37.886 | | |
| 6,200.00 | 6,014.93 | 4,452.00 | 4,517.00 | 32.44 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,889.56 | 6,707.91 | 181.65 | 37.928 | | |
| 6,300.00 | 6,111.57 | 4,452.00 | 4,517.00 | 32.98 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,899.56 | 6,717.92 | 181.64 | 37.985 | | |
| 6,400.00 | 6,208.21 | 4,452.00 | 4,517.00 | 33.52 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,911.00 | 6,729.40 | 181.59 | 38.058 | | |
| 6,500.00 | 6,304.84 | 4,452.00 | 4,517.00 | 34.06 | 153.71 | 60.08 | -4,011.63 | -6,349.87 | 6,923.86 | 6,742.35 | 181.51 | 38.146 | | |
| 6,600.00 | 6,401.37 | 4,452.00 | 4,517.00 | 34.60 | 153.71 | 43.60 | -4,011.63 | -6,349.87 | 6,936.16 | 6,754.77 | 181.39 | 38.239 | | |
| 6,700.00 | 6,496.25 | 4,452.00 | 4,517.00 | 35.12 | 153.71 | 21.14 | -4,011.63 | -6,349.87 | 6,937.20 | 6,756.01 | 181.19 | 38.286 | | |
| 6,800.00 | 6,587.15 | 4,452.00 | 4,517.00 | 35.59 | 153.71 | 8.30 | -4,011.63 | -6,349.87 | 6,925.38 | 6,744.45 | 180.93 | 38.277 | | |
| 6,900.00 | 6,671.83 | 4,452.00 | 4,517.00 | 36.03 | 153.71 | 0.30 | -4,011.63 | -6,349.87 | 6,900.92 | 6,720.31 | 180.61 | 38.209 | | |
| 7,000.00 | 6,748.21 | 4,452.00 | 4,517.00 | 36.41 | 153.71 | -5.55 | -4,011.63 | -6,349.87 | 6,864.30 | 6,684.05 | 180.25 | 38.083 | | |
| 7,100.00 | 6,814.41 | 4,452.00 | 4,517.00 | 36.76 | 153.71 | -10.64 | -4,011.63 | -6,349.87 | 6,816.22 | 6,636.37 | 179.86 | 37.898 | | |
| 7,200.00 | 6,868.79 | 4,452.00 | 4,517.00 | 37.07 | 153.71 | -15.79 | -4,011.63 | -6,349.87 | 6,757.65 | 6,578.20 | 179.45 | 37.657 | | |
| 7,300.00 | 6,910.01 | 4,452.00 | 4,517.00 | 37.39 | 153.71 | -21.74 | -4,011.63 | -6,349.87 | 6,689.77 | 6,510.72 | 179.06 | 37.361 | | |
| 7,400.00 | 6,937.07 | 4,452.00 | 4,517.00 | 37.76 | 153.71 | -29.28 | -4,011.63 | -6,349.87 | 6,614.00 | 6,435.30 | 178.70 | 37.012 | | |
| 7,500.00 | 6,949.29 | 4,452.00 | 4,517.00 | 38.27 | 153.71 | -39.37 | -4,011.63 | -6,349.87 | 6,531.96 | 6,353.55 | 178.41 | 36.612 | | |
| 7,600.00 | 6,949.75 | 4,452.00 | 4,517.00 | 39.02 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 6,446.30 | 6,268.11 | 178.19 | 36.176 | | |
| 7,700.00 | 6,949.37 | 4,452.00 | 4,517.00 | 40.05 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 6,360.82 | 6,182.81 | 178.01 | 35.733 | | |
| 7,800.00 | 6,948.99 | 4,452.00 | 4,517.00 | 41.35 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 6,275.76 | 6,097.90 | 177.86 | 35.285 | | |
| 7,900.00 | 6,948.61 | 4,452.00 | 4,517.00 | 42.86 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 6,191.15 | 6,013.40 | 177.74 | 34.832 | | |
| 8,000.00 | 6,948.23 | 4,452.00 | 4,517.00 | 44.53 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 6,107.00 | 5,929.33 | 177.67 | 34.373 | | |
| 8,100.00 | 6,947.85 | 4,452.00 | 4,517.00 | 46.34 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 6,023.34 | 5,845.71 | 177.63 | 33.909 | | |
| 8,200.00 | 6,947.47 | 4,452.00 | 4,517.00 | 48.26 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,940.18 | 5,762.54 | 177.64 | 33.440 | | |
| 8,300.00 | 6,947.09 | 4,452.00 | 4,517.00 | 50.28 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,857.55 | 5,679.86 | 177.69 | 32.965 | | |
| 8,400.00 | 6,946.72 | 4,452.00 | 4,517.00 | 52.39 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,775.47 | 5,597.68 | 177.79 | 32.485 | | |
| 8,500.00 | 6,946.34 | 4,452.00 | 4,517.00 | 54.56 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,693.97 | 5,516.03 | 177.94 | 32.000 | | |
| 8,600.00 | 6,945.96 | 4,452.00 | 4,517.00 | 56.80 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,613.06 | 5,434.92 | 178.14 | 31.510 | | |
| 8,700.00 | 6,945.58 | 4,452.00 | 4,517.00 | 59.10 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,532.77 | 5,354.39 | 178.38 | 31.016 | | |
| 8,800.00 | 6,945.20 | 4,452.00 | 4,517.00 | 61.44 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,453.14 | 5,274.45 | 178.69 | 30.518 | | |
| 8,900.00 | 6,944.82 | 4,452.00 | 4,517.00 | 63.83 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,374.19 | 5,195.14 | 179.04 | 30.016 | | |
| 9,000.00 | 6,944.44 | 4,452.00 | 4,517.00 | 66.25 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,295.95 | 5,116.49 | 179.46 | 29.511 | | |
| 9,100.00 | 6,944.06 | 4,452.00 | 4,517.00 | 68.71 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,218.45 | 5,038.53 | 179.92 | 29.004 | | |
| 9,200.00 | 6,943.68 | 4,452.00 | 4,517.00 | 71.20 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,141.73 | 4,961.28 | 180.45 | 28.494 | | |
| 9,300.00 | 6,943.30 | 4,452.00 | 4,517.00 | 73.72 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 5,065.82 | 4,884.79 | 181.03 | 27.984 | | |
| 9,400.00 | 6,942.92 | 4,452.00 | 4,517.00 | 76.26 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,990.76 | 4,809.09 | 181.67 | 27.472 | | |
| 9,500.00 | 6,942.54 | 4,452.00 | 4,517.00 | 78.82 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,916.59 | 4,734.23 | 182.36 | 26.961 | | |
| 9,600.00 | 6,942.16 | 4,452.00 | 4,517.00 | 81.40 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,843.35 | 4,660.23 | 183.11 | 26.450 | | |
| 9,700.00 | 6,941.78 | 4,452.00 | 4,517.00 | 84.00 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,771.08 | 4,587.15 | 183.92 | 25.941 | | |
| 9,800.00 | 6,941.40 | 4,452.00 | 4,517.00 | 86.62 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,699.82 | 4,515.03 | 184.79 | 25.433 | | |
| 9,900.00 | 6,941.03 | 4,452.00 | 4,517.00 | 89.25 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,629.63 | 4,443.92 | 185.71 | 24.929 | | |
| 10,000.00 | 6,940.65 | 4,452.00 | 4,517.00 | 91.90 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,560.55 | 4,373.86 | 186.69 | 24.428 | | |
| 10,100.00 | 6,940.27 | 4,452.00 | 4,517.00 | 94.56 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,492.64 | 4,304.91 | 187.73 | 23.932 | | |
| 10,200.00 | 6,939.89 | 4,452.00 | 4,517.00 | 97.23 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,425.94 | 4,237.12 | 188.82 | 23.440 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MAURICE LEFFLER 1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: 0.00 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: 3.28 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 4,452.00 | 4,517.00 | 99.91 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,360.52 | 4,170.56 | 189.96 | 22.955 | | |
| 10,400.00 | 6,939.13 | 4,452.00 | 4,517.00 | 102.60 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,296.43 | 4,105.27 | 191.16 | 22.476 | | |
| 10,500.00 | 6,938.75 | 4,452.00 | 4,517.00 | 105.30 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,233.73 | 4,041.32 | 192.41 | 22.004 | | |
| 10,600.00 | 6,938.37 | 4,452.00 | 4,517.00 | 108.00 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,172.48 | 3,978.77 | 193.71 | 21.540 | | |
| 10,700.00 | 6,937.99 | 4,452.00 | 4,517.00 | 110.72 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,112.76 | 3,917.69 | 195.06 | 21.084 | | |
| 10,800.00 | 6,937.61 | 4,452.00 | 4,517.00 | 113.44 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 4,054.62 | 3,858.15 | 196.47 | 20.638 | | |
| 10,900.00 | 6,937.23 | 4,452.00 | 4,517.00 | 116.17 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,998.13 | 3,800.22 | 197.92 | 20.201 | | |
| 11,000.00 | 6,936.85 | 4,452.00 | 4,517.00 | 118.90 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,943.38 | 3,743.96 | 199.42 | 19.775 | | |
| 11,100.00 | 6,936.47 | 4,452.00 | 4,517.00 | 121.64 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,890.42 | 3,689.46 | 200.96 | 19.359 | | |
| 11,200.00 | 6,936.09 | 4,452.00 | 4,517.00 | 124.39 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,839.34 | 3,636.79 | 202.56 | 18.954 | | |
| 11,300.00 | 6,935.71 | 4,452.00 | 4,517.00 | 127.14 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,790.21 | 3,586.02 | 204.19 | 18.562 | | |
| 11,400.00 | 6,935.34 | 4,452.00 | 4,517.00 | 129.90 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,743.11 | 3,537.24 | 205.88 | 18.181 | | |
| 11,500.00 | 6,934.96 | 4,452.00 | 4,517.00 | 132.66 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,698.11 | 3,490.51 | 207.60 | 17.814 | | |
| 11,600.00 | 6,934.58 | 4,452.00 | 4,517.00 | 135.42 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,655.30 | 3,445.93 | 209.36 | 17.459 | | |
| 11,700.00 | 6,934.20 | 4,452.00 | 4,517.00 | 138.19 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,614.74 | 3,403.57 | 211.17 | 17.118 | | |
| 11,800.00 | 6,933.82 | 4,452.00 | 4,517.00 | 140.96 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,576.52 | 3,363.51 | 213.02 | 16.790 | | |
| 11,900.00 | 6,933.44 | 4,452.00 | 4,517.00 | 143.74 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,540.72 | 3,325.82 | 214.90 | 16.476 | | |
| 12,000.00 | 6,933.06 | 4,452.00 | 4,517.00 | 146.51 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,507.40 | 3,290.58 | 216.82 | 16.177 | | |
| 12,100.00 | 6,932.68 | 4,452.00 | 4,517.00 | 149.30 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,476.64 | 3,257.86 | 218.77 | 15.891 | | |
| 12,200.00 | 6,932.30 | 4,452.00 | 4,517.00 | 152.08 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,448.50 | 3,227.73 | 220.77 | 15.621 | | |
| 12,300.00 | 6,931.92 | 4,452.00 | 4,517.00 | 154.87 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,423.06 | 3,200.27 | 222.79 | 15.365 | | |
| 12,400.00 | 6,931.54 | 4,452.00 | 4,517.00 | 157.66 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,400.36 | 3,175.52 | 224.84 | 15.123 | | |
| 12,500.00 | 6,931.16 | 4,452.00 | 4,517.00 | 160.45 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,380.48 | 3,153.55 | 226.92 | 14.897 | | |
| 12,600.00 | 6,930.78 | 4,452.00 | 4,517.00 | 163.24 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,363.45 | 3,134.42 | 229.03 | 14.686 | | |
| 12,700.00 | 6,930.40 | 4,452.00 | 4,517.00 | 166.04 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,349.32 | 3,118.16 | 231.16 | 14.489 | | |
| 12,800.00 | 6,930.03 | 4,452.00 | 4,517.00 | 168.84 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,338.13 | 3,104.82 | 233.31 | 14.308 | | |
| 12,900.00 | 6,929.65 | 4,452.00 | 4,517.00 | 171.64 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,329.91 | 3,094.43 | 235.48 | 14.141 | | |
| 13,000.00 | 6,929.27 | 4,452.00 | 4,517.00 | 174.44 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,324.67 | 3,087.02 | 237.65 | 13.990 | | |
| 13,100.00 | 6,928.89 | 4,452.00 | 4,517.00 | 177.24 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,322.44 | 3,082.61 | 239.83 | 13.853 | | |
| 13,124.20 | 6,928.80 | 4,452.00 | 4,517.00 | 177.92 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,322.35 | 3,081.99 | 240.36 | 13.823 CC | | |
| 13,200.00 | 6,928.51 | 4,452.00 | 4,517.00 | 180.05 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,323.21 | 3,081.21 | 242.01 | 13.732 ES | | |
| 13,300.00 | 6,928.13 | 4,452.00 | 4,517.00 | 182.86 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,327.00 | 3,082.82 | 244.18 | 13.625 | | |
| 13,400.00 | 6,927.75 | 4,452.00 | 4,517.00 | 185.67 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,333.78 | 3,087.45 | 246.33 | 13.534 | | |
| 13,500.00 | 6,927.37 | 4,452.00 | 4,517.00 | 188.48 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,343.53 | 3,095.07 | 248.46 | 13.457 | | |
| 13,600.00 | 6,926.99 | 4,452.00 | 4,517.00 | 191.29 | 153.71 | -43.45 | -4,011.63 | -6,349.87 | 3,356.25 | 3,105.68 | 250.56 | 13.395 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MCGLOTHLIN 8-6-17 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 82-MWVD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 1,377.00 | 1,306.28 | 3.28 | 7.39 | -106.37 | -2,588.98 | -8,813.50 | 9,278.30 | | | | | |
| 100.00 | 100.00 | 1,377.00 | 1,306.28 | 3.28 | 7.39 | -106.37 | -2,588.98 | -8,813.50 | 9,264.75 | 9,254.61 | 10.14 | 913.385 | | |
| 200.00 | 200.00 | 1,438.54 | 1,367.07 | 3.34 | 7.69 | -106.34 | -2,581.76 | -8,807.23 | 9,251.74 | 9,241.30 | 10.44 | 885.914 | | |
| 300.00 | 299.98 | 1,486.26 | 1,414.22 | 3.44 | 7.92 | 68.56 | -2,575.78 | -8,802.91 | 9,238.81 | 9,228.07 | 10.74 | 860.551 | | |
| 400.00 | 399.84 | 1,660.00 | 1,585.91 | 3.59 | 8.77 | 68.98 | -2,555.16 | -8,786.16 | 9,224.17 | 9,212.52 | 11.64 | 792.134 | | |
| 500.00 | 499.45 | 1,701.32 | 1,626.76 | 3.79 | 8.97 | 69.31 | -2,550.70 | -8,781.78 | 9,208.22 | 9,196.21 | 12.01 | 766.978 | | |
| 600.00 | 598.70 | 1,755.00 | 1,679.96 | 4.03 | 9.23 | 69.69 | -2,545.24 | -8,777.24 | 9,192.44 | 9,179.97 | 12.47 | 737.272 | | |
| 700.00 | 697.47 | 700.00 | 1,714.72 | 4.31 | 4.60 | 70.06 | -2,541.53 | -8,774.27 | 9,175.62 | 9,166.98 | 8.64 | 1,061.647 | | |
| 800.00 | 795.62 | 1,996.12 | 1,918.36 | 4.64 | 10.43 | 70.77 | -2,516.17 | -8,756.04 | 9,156.82 | 9,142.68 | 14.14 | 647.435 | | |
| 900.00 | 893.06 | 2,297.83 | 2,215.73 | 5.00 | 12.03 | 71.78 | -2,475.86 | -8,724.95 | 9,135.24 | 9,119.33 | 15.91 | 574.208 | | |
| 1,000.00 | 989.78 | 1,000.00 | 2,407.38 | 5.39 | 5.28 | 72.41 | -2,448.87 | -8,702.27 | 9,112.05 | 9,101.51 | 10.54 | 864.800 | | |
| 1,100.00 | 1,086.42 | 2,548.63 | 2,462.35 | 5.81 | 13.40 | 72.54 | -2,441.38 | -8,695.26 | 9,088.21 | 9,070.33 | 17.88 | 508.342 | | |
| 1,200.00 | 1,183.06 | 1,200.00 | 2,522.49 | 6.25 | 6.37 | 72.67 | -2,433.89 | -8,688.18 | 9,065.33 | 9,053.08 | 12.24 | 740.470 | | |
| 1,300.00 | 1,279.69 | 2,762.36 | 2,672.78 | 6.71 | 14.57 | 73.00 | -2,414.34 | -8,669.46 | 9,041.98 | 9,022.24 | 19.74 | 457.979 | | |
| 1,400.00 | 1,376.33 | 2,792.00 | 2,701.94 | 7.17 | 14.74 | 73.07 | -2,410.46 | -8,665.80 | 9,018.78 | 8,998.44 | 20.34 | 443.403 | | |
| 1,500.00 | 1,472.97 | 2,792.00 | 2,701.94 | 7.65 | 14.74 | 73.07 | -2,410.46 | -8,665.80 | 8,996.56 | 8,975.74 | 20.81 | 432.315 | | |
| 1,600.00 | 1,569.61 | 2,832.25 | 2,741.61 | 8.13 | 14.95 | 73.16 | -2,405.49 | -8,661.22 | 8,974.88 | 8,953.41 | 21.48 | 417.917 | | |
| 1,700.00 | 1,666.24 | 2,848.89 | 2,758.06 | 8.62 | 15.03 | 73.19 | -2,403.61 | -8,659.53 | 8,954.28 | 8,932.24 | 22.04 | 406.245 | | |
| 1,800.00 | 1,762.88 | 2,887.00 | 2,795.81 | 9.12 | 15.23 | 73.27 | -2,399.64 | -8,656.10 | 8,934.72 | 8,912.01 | 22.71 | 393.361 | | |
| 1,900.00 | 1,859.52 | 3,035.66 | 2,942.83 | 9.62 | 16.00 | 73.60 | -2,382.53 | -8,642.33 | 8,915.19 | 8,891.29 | 23.90 | 373.018 | | |
| 2,000.00 | 1,956.16 | 2,000.00 | 3,047.40 | 10.13 | 10.58 | 73.84 | -2,369.27 | -8,632.26 | 8,895.28 | 8,875.77 | 19.51 | 456.030 | | |
| 2,100.00 | 2,052.79 | 3,233.62 | 3,138.29 | 10.64 | 17.05 | 74.05 | -2,357.60 | -8,623.30 | 8,875.25 | 8,849.40 | 25.85 | 343.317 | | |
| 2,200.00 | 2,149.43 | 2,200.00 | 3,243.57 | 11.15 | 11.64 | 74.29 | -2,344.85 | -8,612.81 | 8,855.40 | 8,833.91 | 21.49 | 412.046 | | |
| 2,300.00 | 2,246.07 | 3,418.39 | 3,320.80 | 11.66 | 18.03 | 74.47 | -2,335.33 | -8,605.03 | 8,835.57 | 8,807.81 | 27.76 | 318.336 | | |
| 2,400.00 | 2,342.71 | 3,524.32 | 3,425.45 | 12.18 | 18.59 | 74.71 | -2,322.52 | -8,594.80 | 8,816.13 | 8,787.36 | 28.78 | 306.367 | | |
| 2,500.00 | 2,439.34 | 4,109.00 | 3,999.00 | 12.70 | 21.92 | 76.14 | -2,235.53 | -8,526.98 | 8,796.79 | 8,764.69 | 32.10 | 274.045 | | |
| 2,600.00 | 2,535.98 | 4,488.00 | 4,367.51 | 13.22 | 24.30 | 77.12 | -2,171.85 | -8,466.45 | 8,771.48 | 8,737.00 | 34.48 | 254.406 | | |
| 2,700.00 | 2,632.62 | 4,534.04 | 4,412.16 | 13.75 | 24.59 | 77.23 | -2,164.31 | -8,458.14 | 8,744.27 | 8,709.01 | 35.26 | 247.996 | | |
| 2,800.00 | 2,729.26 | 4,583.00 | 4,459.81 | 14.27 | 24.90 | 77.36 | -2,156.62 | -8,449.89 | 8,718.05 | 8,682.00 | 36.06 | 241.777 | | |
| 2,900.00 | 2,825.89 | 4,583.00 | 4,459.81 | 14.80 | 24.90 | 77.36 | -2,156.62 | -8,449.89 | 8,692.43 | 8,655.80 | 36.63 | 237.310 | | |
| 3,000.00 | 2,922.53 | 4,583.00 | 4,459.81 | 15.32 | 24.90 | 77.36 | -2,156.62 | -8,449.89 | 8,667.88 | 8,630.68 | 37.20 | 233.003 | | |
| 3,100.00 | 3,019.17 | 4,583.00 | 4,459.81 | 15.85 | 24.90 | 77.36 | -2,156.62 | -8,449.89 | 8,644.42 | 8,606.65 | 37.77 | 228.851 | | |
| 3,200.00 | 3,115.81 | 4,633.52 | 4,509.21 | 16.38 | 25.20 | 77.48 | -2,149.33 | -8,442.27 | 8,621.24 | 8,582.66 | 38.58 | 223.475 | | |
| 3,300.00 | 3,212.44 | 4,678.00 | 4,552.95 | 16.91 | 25.46 | 77.59 | -2,143.67 | -8,436.52 | 8,599.61 | 8,560.25 | 39.36 | 218.502 | | |
| 3,400.00 | 3,309.08 | 4,678.00 | 4,552.95 | 17.44 | 25.46 | 77.59 | -2,143.67 | -8,436.52 | 8,578.45 | 8,538.52 | 39.93 | 214.825 | | |
| 3,500.00 | 3,405.72 | 4,678.00 | 4,552.95 | 17.97 | 25.46 | 77.59 | -2,143.67 | -8,436.52 | 8,558.41 | 8,517.90 | 40.51 | 211.286 | | |
| 3,600.00 | 3,502.36 | 4,729.94 | 4,604.20 | 18.50 | 25.74 | 77.71 | -2,137.72 | -8,430.52 | 8,539.12 | 8,497.81 | 41.31 | 206.704 | | |
| 3,700.00 | 3,598.99 | 4,772.00 | 4,645.77 | 19.03 | 25.96 | 77.81 | -2,133.26 | -8,425.91 | 8,520.56 | 8,478.49 | 42.07 | 202.520 | | |
| 3,800.00 | 3,695.63 | 4,819.66 | 4,692.93 | 19.57 | 26.21 | 77.92 | -2,128.52 | -8,420.90 | 8,502.65 | 8,459.79 | 42.85 | 198.409 | | |
| 3,900.00 | 3,792.27 | 4,867.00 | 4,739.81 | 20.10 | 26.45 | 78.02 | -2,124.03 | -8,416.11 | 8,485.32 | 8,441.68 | 43.63 | 194.462 | | |
| 4,000.00 | 3,888.91 | 4,904.99 | 4,777.47 | 20.63 | 26.64 | 78.11 | -2,120.60 | -8,412.46 | 8,468.67 | 8,424.30 | 44.37 | 190.858 | | |
| 4,100.00 | 3,985.54 | 4,961.00 | 4,833.06 | 21.17 | 26.92 | 78.23 | -2,115.81 | -8,407.55 | 8,452.85 | 8,407.66 | 45.19 | 187.068 | | |
| 4,200.00 | 4,082.18 | 4,985.81 | 4,857.70 | 21.70 | 27.04 | 78.29 | -2,113.79 | -8,405.52 | 8,437.64 | 8,391.77 | 45.86 | 183.972 | | |
| 4,300.00 | 4,178.82 | 5,056.00 | 4,927.46 | 22.24 | 27.37 | 78.44 | -2,108.31 | -8,399.97 | 8,423.04 | 8,376.30 | 46.73 | 180.230 | | |
| 4,400.00 | 4,275.46 | 5,056.00 | 4,927.46 | 22.77 | 27.37 | 78.44 | -2,108.31 | -8,399.97 | 8,409.15 | 8,361.84 | 47.30 | 177.766 | | |
| 4,500.00 | 4,372.09 | 5,104.80 | 4,976.01 | 23.31 | 27.60 | 78.54 | -2,104.79 | -8,396.54 | 8,395.92 | 8,347.84 | 48.08 | 174.630 | | |
| 4,600.00 | 4,468.73 | 5,150.00 | 5,021.04 | 23.84 | 27.80 | 78.64 | -2,101.83 | -8,393.96 | 8,383.74 | 8,334.91 | 48.84 | 171.670 | | |
| 4,700.00 | 4,565.37 | 5,172.50 | 5,043.46 | 24.38 | 27.90 | 78.69 | -2,100.46 | -8,392.83 | 8,372.27 | 8,322.78 | 49.49 | 169.160 | | |
| 4,800.00 | 4,662.01 | 5,243.00 | 5,113.77 | 24.91 | 28.20 | 78.83 | -2,096.60 | -8,389.36 | 8,361.36 | 8,311.01 | 50.35 | 166.064 | | |
| 4,900.00 | 4,758.64 | 5,275.78 | 5,146.48 | 25.45 | 28.34 | 78.90 | -2,095.02 | -8,387.89 | 8,351.04 | 8,300.00 | 51.04 | 163.605 | | |
| 5,000.00 | 4,855.28 | 5,308.03 | 5,178.68 | 25.99 | 28.47 | 78.96 | -2,093.62 | -8,386.67 | 8,341.55 | 8,289.81 | 51.73 | 161.241 | | |
| 5,100.00 | 4,951.92 | 5,336.00 | 5,206.61 | 26.53 | 28.59 | 79.02 | -2,092.50 | -8,385.80 | 8,332.88 | 8,280.47 | 52.40 | 159.015 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MCGLOTHLIN 8-6-17 (PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 82-MWDD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,402.15 | 5,272.71 | 27.06 | 28.84 | 79.14 | -2,090.44 | -8,384.07 | 8,324.83 | 8,271.60 | 53.22 | 156.420 | | |
| 5,300.00 | 5,145.19 | 5,462.35 | 5,332.88 | 27.60 | 29.07 | 79.26 | -2,089.20 | -8,382.71 | 8,317.30 | 8,263.28 | 54.01 | 153.986 | | |
| 5,400.00 | 5,241.83 | 5,523.93 | 5,394.43 | 28.14 | 29.31 | 79.37 | -2,087.81 | -8,381.59 | 8,310.26 | 8,255.45 | 54.81 | 151.619 | | |
| 5,500.00 | 5,338.47 | 5,585.40 | 5,455.88 | 28.67 | 29.54 | 79.49 | -2,086.21 | -8,380.75 | 8,303.71 | 8,248.10 | 55.61 | 149.332 | | |
| 5,600.00 | 5,435.11 | 5,646.77 | 5,517.21 | 29.21 | 29.77 | 79.61 | -2,084.41 | -8,380.18 | 8,297.65 | 8,241.25 | 56.40 | 147.120 | | |
| 5,700.00 | 5,531.74 | 5,711.00 | 5,581.41 | 29.75 | 30.01 | 79.74 | -2,082.29 | -8,379.89 | 8,292.08 | 8,234.87 | 57.21 | 144.950 | | |
| 5,800.00 | 5,628.38 | 5,776.20 | 5,646.58 | 30.29 | 30.25 | 79.86 | -2,080.06 | -8,379.84 | 8,286.97 | 8,228.95 | 58.02 | 142.837 | | |
| 5,900.00 | 5,725.02 | 5,844.81 | 5,715.14 | 30.83 | 30.51 | 80.00 | -2,077.80 | -8,380.01 | 8,282.27 | 8,223.43 | 58.84 | 140.757 | | |
| 6,000.00 | 5,821.66 | 5,913.47 | 5,783.77 | 31.37 | 30.76 | 80.14 | -2,075.62 | -8,380.39 | 8,277.98 | 8,218.32 | 59.66 | 138.743 | | |
| 6,100.00 | 5,918.29 | 5,995.00 | 5,865.26 | 31.90 | 31.07 | 80.30 | -2,073.16 | -8,381.13 | 8,274.12 | 8,213.58 | 60.54 | 136.668 | | |
| 6,200.00 | 6,014.93 | 6,083.41 | 5,953.63 | 32.44 | 31.39 | 80.47 | -2,070.61 | -8,382.04 | 8,270.49 | 8,209.04 | 61.45 | 134.599 | | |
| 6,300.00 | 6,111.57 | 6,192.14 | 6,062.31 | 32.98 | 31.79 | 80.68 | -2,067.64 | -8,382.99 | 8,266.83 | 8,204.39 | 62.43 | 132.409 | | |
| 6,400.00 | 6,208.21 | 6,300.96 | 6,171.10 | 33.52 | 32.19 | 80.89 | -2,064.83 | -8,383.76 | 8,263.11 | 8,199.69 | 63.42 | 130.286 | | |
| 6,500.00 | 6,304.84 | 6,380.59 | 6,250.69 | 34.06 | 32.50 | 81.05 | -2,062.37 | -8,384.40 | 8,259.54 | 8,195.24 | 64.30 | 128.449 | | |
| 6,600.00 | 6,401.37 | 6,464.85 | 6,334.88 | 34.60 | 32.82 | 81.30 | -2,059.23 | -8,385.22 | 8,254.02 | 8,188.83 | 65.20 | 126.603 | | |
| 6,700.00 | 6,496.25 | 6,547.48 | 6,417.43 | 35.12 | 33.13 | 81.57 | -2,055.57 | -8,386.17 | 8,234.94 | 8,168.88 | 66.06 | 124.660 | | |
| 6,800.00 | 6,587.15 | 6,662.17 | 6,531.95 | 35.59 | 33.59 | 81.86 | -2,049.49 | -8,387.49 | 8,200.82 | 8,133.78 | 67.04 | 122.330 | | |
| 6,900.00 | 6,671.83 | 6,776.20 | 6,645.74 | 36.03 | 34.05 | 82.17 | -2,042.16 | -8,388.45 | 8,152.22 | 8,084.26 | 67.97 | 119.946 | | |
| 7,000.00 | 6,748.21 | 6,878.04 | 6,747.29 | 36.41 | 34.47 | 82.49 | -2,034.55 | -8,389.01 | 8,090.39 | 8,021.61 | 68.78 | 117.626 | | |
| 7,100.00 | 6,814.41 | 6,908.77 | 6,777.92 | 36.76 | 34.60 | 82.77 | -2,032.19 | -8,389.28 | 8,017.23 | 7,948.01 | 69.22 | 115.816 | | |
| 7,200.00 | 6,868.79 | 6,946.91 | 6,815.94 | 37.07 | 34.76 | 83.00 | -2,029.18 | -8,389.63 | 7,934.48 | 7,864.85 | 69.63 | 113.950 | | |
| 7,300.00 | 6,910.01 | 6,976.18 | 6,845.12 | 37.39 | 34.88 | 83.21 | -2,026.84 | -8,389.95 | 7,844.11 | 7,774.18 | 69.93 | 112.173 | | |
| 7,400.00 | 6,937.07 | 6,995.81 | 6,864.69 | 37.76 | 34.96 | 83.43 | -2,025.26 | -8,390.19 | 7,748.26 | 7,678.14 | 70.11 | 110.510 | | |
| 7,500.00 | 6,949.29 | 7,005.23 | 6,874.08 | 38.27 | 35.00 | 83.57 | -2,024.49 | -8,390.32 | 7,649.23 | 7,579.04 | 70.19 | 108.979 | | |
| 7,600.00 | 6,949.75 | 7,006.48 | 6,875.32 | 39.02 | 35.01 | 83.66 | -2,024.39 | -8,390.33 | 7,549.32 | 7,479.13 | 70.19 | 107.560 | | |
| 7,700.00 | 6,949.37 | 7,007.14 | 6,875.97 | 40.05 | 35.01 | 83.71 | -2,024.34 | -8,390.34 | 7,449.39 | 7,379.21 | 70.18 | 106.149 | | |
| 7,800.00 | 6,948.99 | 7,007.80 | 6,876.64 | 41.35 | 35.02 | 83.74 | -2,024.29 | -8,390.35 | 7,349.47 | 7,279.30 | 70.17 | 104.736 | | |
| 7,900.00 | 6,948.61 | 7,008.47 | 6,877.30 | 42.86 | 35.02 | 83.76 | -2,024.23 | -8,390.36 | 7,249.55 | 7,179.38 | 70.16 | 103.322 | | |
| 8,000.00 | 6,948.23 | 7,009.15 | 6,877.98 | 44.53 | 35.02 | 83.77 | -2,024.18 | -8,390.37 | 7,149.63 | 7,079.47 | 70.16 | 101.906 | | |
| 8,100.00 | 6,947.85 | 7,009.83 | 6,878.66 | 46.34 | 35.02 | 83.77 | -2,024.12 | -8,390.38 | 7,049.71 | 6,979.56 | 70.15 | 100.489 | | |
| 8,200.00 | 6,947.47 | 7,010.51 | 6,879.34 | 48.26 | 35.03 | 83.77 | -2,024.07 | -8,390.39 | 6,949.79 | 6,879.64 | 70.15 | 99.070 | | |
| 8,300.00 | 6,947.09 | 7,011.21 | 6,880.03 | 50.28 | 35.03 | 83.77 | -2,024.01 | -8,390.40 | 6,849.88 | 6,779.73 | 70.15 | 97.650 | | |
| 8,400.00 | 6,946.72 | 7,011.90 | 6,880.72 | 52.39 | 35.03 | 83.77 | -2,023.95 | -8,390.41 | 6,749.97 | 6,679.83 | 70.14 | 96.229 | | |
| 8,500.00 | 6,946.34 | 7,012.60 | 6,881.42 | 54.56 | 35.04 | 83.77 | -2,023.90 | -8,390.42 | 6,650.06 | 6,579.92 | 70.14 | 94.806 | | |
| 8,600.00 | 6,945.96 | 7,013.31 | 6,882.13 | 56.80 | 35.04 | 83.77 | -2,023.84 | -8,390.43 | 6,550.16 | 6,480.02 | 70.14 | 93.383 | | |
| 8,700.00 | 6,945.58 | 7,014.02 | 6,882.84 | 59.10 | 35.04 | 83.77 | -2,023.78 | -8,390.43 | 6,450.26 | 6,380.11 | 70.14 | 91.958 | | |
| 8,800.00 | 6,945.20 | 7,014.74 | 6,883.55 | 61.44 | 35.04 | 83.77 | -2,023.72 | -8,390.44 | 6,350.36 | 6,280.21 | 70.15 | 90.531 | | |
| 8,900.00 | 6,944.82 | 7,015.47 | 6,884.28 | 63.83 | 35.05 | 83.77 | -2,023.66 | -8,390.45 | 6,250.46 | 6,180.31 | 70.15 | 89.104 | | |
| 9,000.00 | 6,944.44 | 7,016.20 | 6,885.00 | 66.25 | 35.05 | 83.77 | -2,023.60 | -8,390.46 | 6,150.57 | 6,080.42 | 70.15 | 87.675 | | |
| 9,100.00 | 6,944.06 | 7,016.93 | 6,885.74 | 68.71 | 35.05 | 83.77 | -2,023.54 | -8,390.48 | 6,050.68 | 5,980.52 | 70.16 | 86.245 | | |
| 9,200.00 | 6,943.68 | 7,017.68 | 6,886.48 | 71.20 | 35.06 | 83.77 | -2,023.48 | -8,390.49 | 5,950.79 | 5,880.63 | 70.16 | 84.814 | | |
| 9,300.00 | 6,943.30 | 7,018.43 | 6,887.22 | 73.72 | 35.06 | 83.77 | -2,023.42 | -8,390.50 | 5,850.91 | 5,780.74 | 70.17 | 83.382 | | |
| 9,400.00 | 6,942.92 | 7,019.18 | 6,887.98 | 76.26 | 35.06 | 83.77 | -2,023.36 | -8,390.51 | 5,751.03 | 5,680.86 | 70.18 | 81.949 | | |
| 9,500.00 | 6,942.54 | 7,019.94 | 6,888.73 | 78.82 | 35.07 | 83.77 | -2,023.30 | -8,390.52 | 5,651.16 | 5,580.97 | 70.19 | 80.514 | | |
| 9,600.00 | 6,942.16 | 7,020.71 | 6,889.50 | 81.40 | 35.07 | 83.77 | -2,023.23 | -8,390.53 | 5,551.29 | 5,481.09 | 70.20 | 79.079 | | |
| 9,700.00 | 6,941.78 | 7,021.48 | 6,890.27 | 84.00 | 35.07 | 83.77 | -2,023.17 | -8,390.54 | 5,451.43 | 5,381.21 | 70.21 | 77.642 | | |
| 9,800.00 | 6,941.40 | 7,022.26 | 6,891.04 | 86.62 | 35.08 | 83.77 | -2,023.11 | -8,390.55 | 5,351.57 | 5,281.34 | 70.23 | 76.204 | | |
| 9,900.00 | 6,941.03 | 7,023.05 | 6,891.83 | 89.25 | 35.08 | 83.77 | -2,023.04 | -8,390.56 | 5,251.71 | 5,181.47 | 70.24 | 74.765 | | |
| 10,000.00 | 6,940.65 | 7,023.84 | 6,892.62 | 91.90 | 35.08 | 83.77 | -2,022.98 | -8,390.57 | 5,151.86 | 5,081.60 | 70.26 | 73.325 | | |
| 10,100.00 | 6,940.27 | 7,024.64 | 6,893.41 | 94.56 | 35.09 | 83.77 | -2,022.91 | -8,390.58 | 5,052.02 | 4,981.74 | 70.28 | 71.883 | | |
| 10,200.00 | 6,939.89 | 7,025.44 | 6,894.22 | 97.23 | 35.09 | 83.77 | -2,022.85 | -8,390.60 | 4,952.18 | 4,881.88 | 70.30 | 70.441 | | |
| 10,300.00 | 6,939.51 | 7,026.26 | 6,895.03 | 99.91 | 35.09 | 83.77 | -2,022.78 | -8,390.61 | 4,852.35 | 4,782.02 | 70.33 | 68.997 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MCGLOTHLIN 8-6-17 (PR_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 82-MWD | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,400.00 | 6,939.13 | 7,027.07 | 6,895.84 | 102.60 | 35.10 | -84.91 | -2,022.71 | -8,390.62 | 4,752.53 | 4,682.17 | 70.35 | 67.551 | |
| 10,500.00 | 6,938.75 | 7,027.90 | 6,896.67 | 105.30 | 35.10 | -85.07 | -2,022.65 | -8,390.63 | 4,652.71 | 4,582.33 | 70.38 | 66.105 | |
| 10,600.00 | 6,938.37 | 7,028.73 | 6,897.50 | 108.00 | 35.10 | -85.24 | -2,022.58 | -8,390.64 | 4,552.90 | 4,482.49 | 70.42 | 64.657 | |
| 10,700.00 | 6,937.99 | 7,029.58 | 6,898.34 | 110.72 | 35.11 | -85.41 | -2,022.51 | -8,390.66 | 4,453.10 | 4,382.65 | 70.45 | 63.207 | |
| 10,800.00 | 6,937.61 | 7,030.42 | 6,899.18 | 113.44 | 35.11 | -85.57 | -2,022.44 | -8,390.67 | 4,353.31 | 4,282.82 | 70.49 | 61.756 | |
| 10,900.00 | 6,937.23 | 7,031.28 | 6,900.03 | 116.17 | 35.11 | -85.74 | -2,022.37 | -8,390.68 | 4,253.53 | 4,183.00 | 70.54 | 60.303 | |
| 11,000.00 | 6,936.85 | 7,032.14 | 6,900.89 | 118.90 | 35.12 | -85.92 | -2,022.30 | -8,390.69 | 4,153.76 | 4,083.18 | 70.58 | 58.849 | |
| 11,100.00 | 6,936.47 | 7,033.01 | 6,901.76 | 121.64 | 35.12 | -86.09 | -2,022.23 | -8,390.71 | 4,054.00 | 3,983.36 | 70.64 | 57.392 | |
| 11,200.00 | 6,936.09 | 7,033.89 | 6,902.64 | 124.39 | 35.12 | -86.26 | -2,022.15 | -8,390.72 | 3,954.25 | 3,883.56 | 70.70 | 55.934 | |
| 11,300.00 | 6,935.71 | 7,034.78 | 6,903.52 | 127.14 | 35.13 | -86.44 | -2,022.08 | -8,390.73 | 3,854.52 | 3,783.76 | 70.76 | 54.473 | |
| 11,400.00 | 6,935.34 | 7,035.67 | 6,904.41 | 129.90 | 35.13 | -86.62 | -2,022.01 | -8,390.75 | 3,754.80 | 3,683.96 | 70.83 | 53.010 | |
| 11,500.00 | 6,934.96 | 7,036.57 | 6,905.31 | 132.66 | 35.14 | -86.80 | -2,021.93 | -8,390.76 | 3,655.09 | 3,584.18 | 70.91 | 51.544 | |
| 11,600.00 | 6,934.58 | 7,037.48 | 6,906.21 | 135.42 | 35.14 | -86.98 | -2,021.86 | -8,390.77 | 3,555.40 | 3,484.40 | 71.00 | 50.075 | |
| 11,700.00 | 6,934.20 | 7,038.40 | 6,907.13 | 138.19 | 35.14 | -87.17 | -2,021.78 | -8,390.79 | 3,455.73 | 3,384.63 | 71.10 | 48.604 | |
| 11,800.00 | 6,933.82 | 7,039.32 | 6,908.05 | 140.96 | 35.15 | -87.35 | -2,021.71 | -8,390.80 | 3,356.07 | 3,284.86 | 71.21 | 47.129 | |
| 11,900.00 | 6,933.44 | 7,040.26 | 6,908.98 | 143.74 | 35.15 | -87.54 | -2,021.63 | -8,390.82 | 3,256.44 | 3,185.11 | 71.33 | 45.651 | |
| 12,000.00 | 6,933.06 | 7,041.20 | 6,909.92 | 146.51 | 35.16 | -87.73 | -2,021.55 | -8,390.83 | 3,156.83 | 3,085.36 | 71.47 | 44.168 | |
| 12,100.00 | 6,932.68 | 7,042.15 | 6,910.87 | 149.30 | 35.16 | -87.92 | -2,021.48 | -8,390.84 | 3,057.25 | 2,985.62 | 71.63 | 42.682 | |
| 12,200.00 | 6,932.30 | 7,043.11 | 6,911.83 | 152.08 | 35.16 | -88.11 | -2,021.40 | -8,390.86 | 2,957.69 | 2,885.88 | 71.80 | 41.191 | |
| 12,300.00 | 6,931.92 | 7,044.08 | 6,912.79 | 154.87 | 35.17 | -88.31 | -2,021.32 | -8,390.87 | 2,858.16 | 2,786.16 | 72.00 | 39.695 | |
| 12,400.00 | 6,931.54 | 7,045.06 | 6,913.77 | 157.66 | 35.17 | -88.51 | -2,021.24 | -8,390.89 | 2,758.67 | 2,686.44 | 72.23 | 38.193 | |
| 12,500.00 | 6,931.16 | 7,046.05 | 6,914.75 | 160.45 | 35.18 | -88.70 | -2,021.15 | -8,390.90 | 2,659.22 | 2,586.73 | 72.49 | 36.686 | |
| 12,600.00 | 6,930.78 | 7,047.04 | 6,915.74 | 163.24 | 35.18 | -88.91 | -2,021.07 | -8,390.92 | 2,559.80 | 2,487.02 | 72.78 | 35.172 | |
| 12,700.00 | 6,930.40 | 7,048.05 | 6,916.75 | 166.04 | 35.18 | -89.11 | -2,020.99 | -8,390.93 | 2,460.44 | 2,387.32 | 73.12 | 33.651 | |
| 12,800.00 | 6,930.03 | 7,049.07 | 6,917.76 | 168.84 | 35.19 | -89.31 | -2,020.91 | -8,390.95 | 2,361.12 | 2,287.62 | 73.50 | 32.123 | |
| 12,900.00 | 6,929.65 | 7,050.09 | 6,918.78 | 171.64 | 35.19 | -89.52 | -2,020.82 | -8,390.97 | 2,261.87 | 2,187.92 | 73.95 | 30.587 | |
| 13,000.00 | 6,929.27 | 7,051.13 | 6,919.81 | 174.44 | 35.20 | -89.73 | -2,020.74 | -8,390.98 | 2,162.69 | 2,088.22 | 74.47 | 29.042 | |
| 13,100.00 | 6,928.89 | 7,052.17 | 6,920.85 | 177.24 | 35.20 | -89.94 | -2,020.65 | -8,391.00 | 2,063.58 | 1,988.51 | 75.07 | 27.489 | |
| 13,200.00 | 6,928.51 | 7,053.22 | 6,921.90 | 180.05 | 35.21 | -90.16 | -2,020.56 | -8,391.02 | 1,964.57 | 1,888.79 | 75.77 | 25.927 | |
| 13,300.00 | 6,928.13 | 7,054.29 | 6,922.96 | 182.86 | 35.21 | -90.37 | -2,020.47 | -8,391.03 | 1,865.65 | 1,789.06 | 76.60 | 24.356 | |
| 13,400.00 | 6,927.75 | 7,055.36 | 6,924.03 | 185.67 | 35.21 | -90.59 | -2,020.39 | -8,391.05 | 1,766.86 | 1,689.29 | 77.57 | 22.777 | |
| 13,500.00 | 6,927.37 | 7,056.45 | 6,925.12 | 188.48 | 35.22 | -90.81 | -2,020.30 | -8,391.07 | 1,668.22 | 1,589.49 | 78.73 | 21.189 | |
| 13,600.00 | 6,926.99 | 7,057.55 | 6,926.21 | 191.29 | 35.22 | -91.03 | -2,020.20 | -8,391.09 | 1,569.74 | 1,489.63 | 80.11 | 19.595 | |
| 13,700.00 | 6,926.61 | 7,058.65 | 6,927.31 | 194.10 | 35.23 | -91.26 | -2,020.11 | -8,391.10 | 1,471.47 | 1,389.71 | 81.76 | 17.997 | |
| 13,800.00 | 6,926.23 | 7,059.77 | 6,928.43 | 196.92 | 35.23 | -91.49 | -2,020.02 | -8,391.12 | 1,373.45 | 1,289.69 | 83.76 | 16.397 | |
| 13,900.00 | 6,925.85 | 7,060.90 | 6,929.55 | 199.73 | 35.24 | -91.72 | -2,019.93 | -8,391.14 | 1,275.73 | 1,189.54 | 86.19 | 14.802 | |
| 14,000.00 | 6,925.47 | 7,062.04 | 6,930.69 | 202.55 | 35.24 | -91.95 | -2,019.83 | -8,391.16 | 1,178.40 | 1,089.24 | 89.16 | 13.216 | |
| 14,100.00 | 6,925.09 | 7,063.19 | 6,931.84 | 205.37 | 35.25 | -92.18 | -2,019.74 | -8,391.18 | 1,081.55 | 988.71 | 92.84 | 11.650 | |
| 14,200.00 | 6,924.71 | 7,064.36 | 6,933.00 | 208.19 | 35.25 | -92.42 | -2,019.64 | -8,391.20 | 985.33 | 887.90 | 97.42 | 10.114 | |
| 14,300.00 | 6,924.34 | 7,065.53 | 6,934.17 | 211.01 | 35.26 | -92.66 | -2,019.54 | -8,391.22 | 889.94 | 786.74 | 103.20 | 8.623 | |
| 14,400.00 | 6,923.96 | 7,066.72 | 6,935.35 | 213.83 | 35.26 | -92.90 | -2,019.44 | -8,391.24 | 795.68 | 685.10 | 110.58 | 7.195 | |
| 14,500.00 | 6,923.58 | 7,067.92 | 6,936.55 | 216.65 | 35.27 | -93.15 | -2,019.34 | -8,391.26 | 703.01 | 582.89 | 120.12 | 5.852 | |
| 14,600.00 | 6,923.20 | 7,069.13 | 6,937.75 | 219.48 | 35.27 | -93.39 | -2,019.24 | -8,391.28 | 612.65 | 480.00 | 132.65 | 4.619 | |
| 14,700.00 | 6,922.82 | 7,070.36 | 6,938.97 | 222.30 | 35.28 | -93.64 | -2,019.14 | -8,391.30 | 525.78 | 376.50 | 149.28 | 3.522 | |
| 14,800.00 | 6,922.44 | 7,071.60 | 6,940.21 | 225.13 | 35.28 | -93.89 | -2,019.04 | -8,391.32 | 444.46 | 273.02 | 171.44 | 2.593 | |
| 14,900.00 | 6,922.06 | 7,072.85 | 6,941.45 | 227.95 | 35.29 | -94.15 | -2,018.94 | -8,391.34 | 372.36 | 172.15 | 200.20 | 1.860 | |
| 14,915.55 | 6,922.00 | 7,073.04 | 6,941.65 | 228.39 | 35.29 | -94.19 | -2,018.92 | -8,391.34 | 362.34 | 157.11 | 205.23 | 1.766 CC, ES, SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MCGLOTHLIN 17-11(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 29.00 | 3.28 | 3.28 | -81.31 | 1,398.08 | -9,142.79 | 9,249.11 | | | | | |
| 100.00 | 100.00 | 71.00 | 100.00 | 3.28 | 3.51 | -81.31 | 1,398.08 | -9,142.79 | 9,249.07 | 9,242.28 | 6.79 | 1,361.952 | | |
| 200.00 | 200.00 | 171.00 | 200.00 | 3.34 | 5.35 | -81.31 | 1,398.08 | -9,142.79 | 9,249.07 | 9,240.38 | 8.69 | 1,064.939 | | |
| 300.00 | 299.98 | 270.98 | 299.98 | 3.44 | 8.38 | 93.32 | 1,398.08 | -9,142.79 | 9,249.17 | 9,237.35 | 11.82 | 782.366 | | |
| 400.00 | 399.84 | 370.84 | 399.84 | 3.59 | 11.67 | 93.35 | 1,398.08 | -9,142.79 | 9,249.47 | 9,234.22 | 15.26 | 606.158 | | |
| 500.00 | 499.45 | 470.45 | 499.45 | 3.79 | 15.04 | 93.39 | 1,398.08 | -9,142.79 | 9,249.99 | 9,231.16 | 18.83 | 491.337 | | |
| 600.00 | 598.70 | 569.70 | 598.70 | 4.03 | 18.44 | 93.45 | 1,398.08 | -9,142.79 | 9,250.72 | 9,228.26 | 22.47 | 411.766 | | |
| 700.00 | 697.47 | 668.47 | 697.47 | 4.31 | 21.84 | 93.53 | 1,398.08 | -9,142.79 | 9,251.69 | 9,225.53 | 26.15 | 353.763 | | |
| 800.00 | 795.62 | 766.62 | 795.62 | 4.64 | 25.23 | 93.62 | 1,398.08 | -9,142.79 | 9,252.90 | 9,223.03 | 29.87 | 309.780 | | |
| 900.00 | 893.06 | 864.06 | 893.06 | 5.00 | 28.61 | 93.73 | 1,398.08 | -9,142.79 | 9,254.38 | 9,220.77 | 33.61 | 275.377 | | |
| 1,000.00 | 989.78 | 960.78 | 989.78 | 5.39 | 31.96 | 93.86 | 1,398.08 | -9,142.79 | 9,256.11 | 9,218.75 | 37.36 | 247.776 | | |
| 1,100.00 | 1,086.42 | 1,057.42 | 1,086.42 | 5.81 | 35.32 | 94.02 | 1,398.08 | -9,142.79 | 9,257.94 | 9,216.80 | 41.13 | 225.068 | | |
| 1,200.00 | 1,183.06 | 1,154.06 | 1,183.06 | 6.25 | 38.68 | 94.17 | 1,398.08 | -9,142.79 | 9,259.83 | 9,214.90 | 44.93 | 206.082 | | |
| 1,300.00 | 1,279.69 | 1,250.69 | 1,279.69 | 6.71 | 42.04 | 94.32 | 1,398.08 | -9,142.79 | 9,261.80 | 9,213.06 | 48.75 | 189.991 | | |
| 1,400.00 | 1,376.33 | 1,347.33 | 1,376.33 | 7.17 | 45.41 | 94.48 | 1,398.08 | -9,142.79 | 9,263.84 | 9,211.27 | 52.58 | 176.191 | | |
| 1,500.00 | 1,472.97 | 1,443.97 | 1,472.97 | 7.65 | 48.77 | 94.63 | 1,398.08 | -9,142.79 | 9,265.96 | 9,209.54 | 56.42 | 164.234 | | |
| 1,600.00 | 1,569.61 | 1,540.61 | 1,569.61 | 8.13 | 52.14 | 94.78 | 1,398.08 | -9,142.79 | 9,268.14 | 9,207.87 | 60.27 | 153.778 | | |
| 1,700.00 | 1,666.24 | 1,637.24 | 1,666.24 | 8.62 | 55.51 | 94.93 | 1,398.08 | -9,142.79 | 9,270.39 | 9,206.26 | 64.13 | 144.562 | | |
| 1,800.00 | 1,762.88 | 1,733.88 | 1,762.88 | 9.12 | 58.88 | 95.09 | 1,398.08 | -9,142.79 | 9,272.71 | 9,204.72 | 67.99 | 136.380 | | |
| 1,900.00 | 1,859.52 | 1,830.52 | 1,859.52 | 9.62 | 62.24 | 95.24 | 1,398.08 | -9,142.79 | 9,275.11 | 9,203.25 | 71.86 | 129.070 | | |
| 2,000.00 | 1,956.16 | 1,927.16 | 1,956.16 | 10.13 | 65.61 | 95.39 | 1,398.08 | -9,142.79 | 9,277.57 | 9,201.84 | 75.74 | 122.500 | | |
| 2,100.00 | 2,052.79 | 2,023.79 | 2,052.79 | 10.64 | 68.98 | 95.55 | 1,398.08 | -9,142.79 | 9,280.11 | 9,200.49 | 79.61 | 116.564 | | |
| 2,200.00 | 2,149.43 | 2,120.43 | 2,149.43 | 11.15 | 72.35 | 95.70 | 1,398.08 | -9,142.79 | 9,282.71 | 9,199.22 | 83.50 | 111.177 | | |
| 2,300.00 | 2,246.07 | 2,217.07 | 2,246.07 | 11.66 | 75.72 | 95.85 | 1,398.08 | -9,142.79 | 9,285.39 | 9,198.01 | 87.38 | 106.265 | | |
| 2,400.00 | 2,342.71 | 2,313.71 | 2,342.71 | 12.18 | 79.09 | 96.00 | 1,398.08 | -9,142.79 | 9,288.14 | 9,196.87 | 91.27 | 101.769 | | |
| 2,500.00 | 2,439.34 | 2,410.34 | 2,439.34 | 12.70 | 82.47 | 96.16 | 1,398.08 | -9,142.79 | 9,290.96 | 9,195.80 | 95.16 | 97.640 | | |
| 2,600.00 | 2,535.98 | 2,506.98 | 2,535.98 | 13.22 | 85.84 | 96.31 | 1,398.08 | -9,142.79 | 9,293.84 | 9,194.80 | 99.05 | 93.833 | | |
| 2,700.00 | 2,632.62 | 2,603.62 | 2,632.62 | 13.75 | 89.21 | 96.46 | 1,398.08 | -9,142.79 | 9,296.80 | 9,193.86 | 102.94 | 90.313 | | |
| 2,800.00 | 2,729.26 | 2,700.26 | 2,729.26 | 14.27 | 92.58 | 96.61 | 1,398.08 | -9,142.79 | 9,299.83 | 9,192.99 | 106.83 | 87.050 | | |
| 2,900.00 | 2,825.89 | 2,803.11 | 2,825.89 | 14.80 | 96.17 | 96.77 | 1,398.08 | -9,142.79 | 9,302.93 | 9,191.98 | 110.95 | 83.851 | | |
| 3,000.00 | 2,922.53 | 2,906.47 | 2,922.53 | 15.32 | 99.77 | 96.92 | 1,398.08 | -9,142.79 | 9,306.09 | 9,191.02 | 115.08 | 80.868 | | |
| 3,100.00 | 3,019.17 | 3,009.83 | 3,019.17 | 15.85 | 103.38 | 97.07 | 1,398.08 | -9,142.79 | 9,309.33 | 9,190.12 | 119.21 | 78.092 | | |
| 3,200.00 | 3,115.81 | 3,086.81 | 3,115.81 | 16.38 | 106.07 | 97.22 | 1,398.08 | -9,142.79 | 9,312.64 | 9,190.22 | 122.42 | 76.070 | | |
| 3,300.00 | 3,212.44 | 3,183.44 | 3,212.44 | 16.91 | 109.44 | 97.37 | 1,398.08 | -9,142.79 | 9,316.02 | 9,189.70 | 126.32 | 73.748 | | |
| 3,400.00 | 3,309.08 | 3,280.08 | 3,309.08 | 17.44 | 112.81 | 97.52 | 1,398.08 | -9,142.79 | 9,319.47 | 9,189.24 | 130.22 | 71.566 | | |
| 3,500.00 | 3,405.72 | 3,376.72 | 3,405.72 | 17.97 | 116.18 | 97.68 | 1,398.08 | -9,142.79 | 9,322.98 | 9,188.86 | 134.12 | 69.511 | | |
| 3,600.00 | 3,502.36 | 3,473.36 | 3,502.36 | 18.50 | 119.55 | 97.83 | 1,398.08 | -9,142.79 | 9,326.57 | 9,188.54 | 138.02 | 67.572 | | |
| 3,700.00 | 3,598.99 | 3,569.99 | 3,598.99 | 19.03 | 122.93 | 97.98 | 1,398.08 | -9,142.79 | 9,330.23 | 9,188.30 | 141.93 | 65.740 | | |
| 3,800.00 | 3,695.63 | 3,666.63 | 3,695.63 | 19.57 | 126.30 | 98.13 | 1,398.08 | -9,142.79 | 9,333.95 | 9,188.12 | 145.83 | 64.006 | | |
| 3,900.00 | 3,792.27 | 3,763.27 | 3,792.27 | 20.10 | 129.67 | 98.28 | 1,398.08 | -9,142.79 | 9,337.75 | 9,188.01 | 149.73 | 62.363 | | |
| 4,000.00 | 3,888.91 | 3,859.91 | 3,888.91 | 20.63 | 133.04 | 98.43 | 1,398.08 | -9,142.79 | 9,341.61 | 9,187.97 | 153.64 | 60.804 | | |
| 4,100.00 | 3,985.54 | 3,956.54 | 3,985.54 | 21.17 | 136.42 | 98.58 | 1,398.08 | -9,142.79 | 9,345.54 | 9,188.00 | 157.54 | 59.322 | | |
| 4,200.00 | 4,082.18 | 4,053.18 | 4,082.18 | 21.70 | 139.79 | 98.73 | 1,398.08 | -9,142.79 | 9,349.55 | 9,188.10 | 161.44 | 57.912 | | |
| 4,300.00 | 4,178.82 | 4,149.82 | 4,178.82 | 22.24 | 143.16 | 98.88 | 1,398.08 | -9,142.79 | 9,353.62 | 9,188.27 | 165.35 | 56.569 | | |
| 4,400.00 | 4,275.46 | 4,246.46 | 4,275.46 | 22.77 | 146.54 | 99.03 | 1,398.08 | -9,142.79 | 9,357.76 | 9,188.50 | 169.25 | 55.289 | | |
| 4,500.00 | 4,372.09 | 4,343.09 | 4,372.09 | 23.31 | 149.91 | 99.18 | 1,398.08 | -9,142.79 | 9,361.97 | 9,188.81 | 173.16 | 54.066 | | |
| 4,600.00 | 4,468.73 | 4,439.73 | 4,468.73 | 23.84 | 153.28 | 99.33 | 1,398.08 | -9,142.79 | 9,366.24 | 9,189.18 | 177.06 | 52.898 | | |
| 4,700.00 | 4,565.37 | 4,536.37 | 4,565.37 | 24.38 | 156.65 | 99.48 | 1,398.08 | -9,142.79 | 9,370.59 | 9,189.62 | 180.97 | 51.780 | | |
| 4,800.00 | 4,662.01 | 4,633.01 | 4,662.01 | 24.91 | 160.03 | 99.63 | 1,398.08 | -9,142.79 | 9,375.00 | 9,190.13 | 184.87 | 50.710 | | |
| 4,900.00 | 4,758.64 | 4,729.64 | 4,758.64 | 25.45 | 163.40 | 99.78 | 1,398.08 | -9,142.79 | 9,379.49 | 9,190.71 | 188.78 | 49.685 | | |
| 5,000.00 | 4,855.28 | 4,826.28 | 4,855.28 | 25.99 | 166.77 | 99.93 | 1,398.08 | -9,142.79 | 9,384.04 | 9,191.36 | 192.68 | 48.702 | | |
| 5,100.00 | 4,951.92 | 4,922.92 | 4,951.92 | 26.53 | 170.15 | 100.08 | 1,398.08 | -9,142.79 | 9,388.66 | 9,192.07 | 196.59 | 47.758 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MCGLOTHLIN 17-11(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,019.56 | 5,048.56 | 27.06 | 173.52 | 100.23 | 1,398.08 | -9,142.79 | 9,393.35 | 9,192.85 | 200.50 | 46.851 | | |
| 5,300.00 | 5,145.19 | 5,116.19 | 5,145.19 | 27.60 | 176.89 | 100.38 | 1,398.08 | -9,142.79 | 9,398.10 | 9,193.70 | 204.40 | 45.979 | | |
| 5,400.00 | 5,241.83 | 5,212.83 | 5,241.83 | 28.14 | 180.26 | 100.53 | 1,398.08 | -9,142.79 | 9,402.93 | 9,194.62 | 208.31 | 45.140 | | |
| 5,500.00 | 5,338.47 | 5,309.47 | 5,338.47 | 28.67 | 183.64 | 100.68 | 1,398.08 | -9,142.79 | 9,407.82 | 9,195.61 | 212.21 | 44.332 | | |
| 5,600.00 | 5,435.11 | 5,406.11 | 5,435.11 | 29.21 | 187.01 | 100.83 | 1,398.08 | -9,142.79 | 9,412.78 | 9,196.66 | 216.12 | 43.554 | | |
| 5,700.00 | 5,531.74 | 5,502.74 | 5,531.74 | 29.75 | 190.38 | 100.98 | 1,398.08 | -9,142.79 | 9,417.80 | 9,197.78 | 220.02 | 42.803 | | |
| 5,800.00 | 5,628.38 | 5,600.62 | 5,628.38 | 30.29 | 193.80 | 101.13 | 1,398.08 | -9,142.79 | 9,422.90 | 9,198.93 | 223.97 | 42.071 | | |
| 5,900.00 | 5,725.02 | 5,703.98 | 5,725.02 | 30.83 | 197.41 | 101.27 | 1,398.08 | -9,142.79 | 9,428.06 | 9,199.95 | 228.11 | 41.330 | | |
| 6,000.00 | 5,821.66 | 5,807.34 | 5,821.66 | 31.37 | 201.02 | 101.42 | 1,398.08 | -9,142.79 | 9,433.29 | 9,201.03 | 232.26 | 40.616 | | |
| 6,100.00 | 5,918.29 | 5,889.29 | 5,918.29 | 31.90 | 203.88 | 101.57 | 1,398.08 | -9,142.79 | 9,438.59 | 9,202.94 | 235.65 | 40.054 | | |
| 6,200.00 | 6,014.93 | 5,985.93 | 6,014.93 | 32.44 | 207.25 | 101.72 | 1,398.08 | -9,142.79 | 9,443.95 | 9,204.40 | 239.55 | 39.423 | | |
| 6,300.00 | 6,111.57 | 6,082.57 | 6,111.57 | 32.98 | 210.62 | 101.87 | 1,398.08 | -9,142.79 | 9,449.38 | 9,205.92 | 243.46 | 38.813 | | |
| 6,400.00 | 6,208.21 | 6,179.21 | 6,208.21 | 33.52 | 214.00 | 102.01 | 1,398.08 | -9,142.79 | 9,454.88 | 9,207.51 | 247.37 | 38.222 | | |
| 6,500.00 | 6,304.84 | 6,275.84 | 6,304.84 | 34.06 | 217.37 | 102.16 | 1,398.08 | -9,142.79 | 9,460.44 | 9,209.17 | 251.27 | 37.650 | | |
| 6,600.00 | 6,401.37 | 6,372.37 | 6,401.37 | 34.60 | 220.74 | 85.59 | 1,398.08 | -9,142.79 | 9,463.99 | 9,208.82 | 255.17 | 37.089 | | |
| 6,700.00 | 6,496.25 | 6,467.25 | 6,496.25 | 35.12 | 224.05 | 63.54 | 1,398.08 | -9,142.79 | 9,454.38 | 9,195.37 | 259.01 | 36.503 | | |
| 6,800.00 | 6,587.15 | 6,558.15 | 6,587.15 | 35.59 | 227.22 | 52.07 | 1,398.08 | -9,142.79 | 9,430.21 | 9,167.54 | 262.67 | 35.902 | | |
| 6,900.00 | 6,671.83 | 6,642.83 | 6,671.83 | 36.03 | 230.18 | 46.52 | 1,398.08 | -9,142.79 | 9,392.11 | 9,126.04 | 266.07 | 35.299 | | |
| 7,000.00 | 6,748.21 | 6,719.21 | 6,748.21 | 36.41 | 232.85 | 44.48 | 1,398.08 | -9,142.79 | 9,341.05 | 9,071.90 | 269.15 | 34.706 | | |
| 7,100.00 | 6,814.41 | 6,785.41 | 6,814.41 | 36.76 | 235.16 | 45.04 | 1,398.08 | -9,142.79 | 9,278.32 | 9,006.48 | 271.84 | 34.131 | | |
| 7,200.00 | 6,868.79 | 6,839.79 | 6,868.79 | 37.07 | 237.05 | 48.16 | 1,398.08 | -9,142.79 | 9,205.48 | 8,931.38 | 274.10 | 33.584 | | |
| 7,300.00 | 6,910.01 | 6,881.01 | 6,910.01 | 37.39 | 238.49 | 54.50 | 1,398.08 | -9,142.79 | 9,124.32 | 8,848.44 | 275.88 | 33.073 | | |
| 7,400.00 | 6,937.07 | 6,908.07 | 6,937.07 | 37.76 | 239.44 | 65.53 | 1,398.08 | -9,142.79 | 9,036.83 | 8,759.67 | 277.16 | 32.605 | | |
| 7,500.00 | 6,949.29 | 6,920.29 | 6,949.29 | 38.27 | 239.86 | 83.17 | 1,398.08 | -9,142.79 | 8,945.14 | 8,667.24 | 277.91 | 32.188 | | |
| 7,600.00 | 6,949.75 | 6,920.75 | 6,949.75 | 39.02 | 239.88 | 90.57 | 1,398.08 | -9,142.79 | 8,851.67 | 8,573.43 | 278.24 | 31.813 | | |
| 7,700.00 | 6,949.37 | 6,920.37 | 6,949.37 | 40.05 | 239.87 | 90.57 | 1,398.08 | -9,142.79 | 8,758.25 | 8,479.68 | 278.57 | 31.440 | | |
| 7,800.00 | 6,948.99 | 6,919.99 | 6,948.99 | 41.35 | 239.85 | 90.56 | 1,398.08 | -9,142.79 | 8,664.98 | 8,386.04 | 278.94 | 31.064 | | |
| 7,900.00 | 6,948.61 | 6,919.61 | 6,948.61 | 42.86 | 239.84 | 90.55 | 1,398.08 | -9,142.79 | 8,571.86 | 8,292.51 | 279.35 | 30.685 | | |
| 8,000.00 | 6,948.23 | 6,919.23 | 6,948.23 | 44.53 | 239.83 | 90.54 | 1,398.08 | -9,142.79 | 8,478.90 | 8,199.10 | 279.79 | 30.304 | | |
| 8,100.00 | 6,947.85 | 6,918.85 | 6,947.85 | 46.34 | 239.81 | 90.54 | 1,398.08 | -9,142.79 | 8,386.10 | 8,105.82 | 280.28 | 29.921 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MCGLOTHLIN 17-11(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,910.13 | 6,939.13 | 102.60 | 239.51 | 90.38 | 1,398.08 | -9,142.79 | 6,312.64 | 6,008.19 | 304.45 | 20.735 | | |
| 10,500.00 | 6,938.75 | 6,909.75 | 6,938.75 | 105.30 | 239.50 | 90.37 | 1,398.08 | -9,142.79 | 6,226.10 | 5,919.93 | 306.17 | 20.335 | | |
| 10,600.00 | 6,938.37 | 6,909.37 | 6,938.37 | 108.00 | 239.48 | 90.36 | 1,398.08 | -9,142.79 | 6,139.97 | 5,832.01 | 307.96 | 19.938 | | |
| 10,700.00 | 6,937.99 | 6,908.99 | 6,937.99 | 110.72 | 239.47 | 90.36 | 1,398.08 | -9,142.79 | 6,054.27 | 5,744.45 | 309.81 | 19.542 | | |
| 10,800.00 | 6,937.61 | 6,908.61 | 6,937.61 | 113.44 | 239.46 | 90.35 | 1,398.08 | -9,142.79 | 5,969.01 | 5,657.27 | 311.74 | 19.148 | | |
| 10,900.00 | 6,937.23 | 6,908.23 | 6,937.23 | 116.17 | 239.44 | 90.34 | 1,398.08 | -9,142.79 | 5,884.21 | 5,570.48 | 313.73 | 18.756 | | |
| 11,000.00 | 6,936.85 | 6,907.85 | 6,936.85 | 118.90 | 239.43 | 90.34 | 1,398.08 | -9,142.79 | 5,799.90 | 5,484.11 | 315.79 | 18.366 | | |
| 11,100.00 | 6,936.47 | 6,907.47 | 6,936.47 | 121.64 | 239.42 | 90.33 | 1,398.08 | -9,142.79 | 5,716.10 | 5,398.17 | 317.93 | 17.979 | | |
| 11,200.00 | 6,936.09 | 6,907.09 | 6,936.09 | 124.39 | 239.40 | 90.32 | 1,398.08 | -9,142.79 | 5,632.82 | 5,312.68 | 320.14 | 17.595 | | |
| 11,300.00 | 6,935.71 | 6,906.71 | 6,935.71 | 127.14 | 239.39 | 90.32 | 1,398.08 | -9,142.79 | 5,550.10 | 5,227.66 | 322.43 | 17.213 | | |
| 11,400.00 | 6,935.34 | 6,906.34 | 6,935.34 | 129.90 | 239.38 | 90.31 | 1,398.08 | -9,142.79 | 5,467.95 | 5,143.15 | 324.80 | 16.835 | | |
| 11,500.00 | 6,934.96 | 6,905.96 | 6,934.96 | 132.66 | 239.36 | 90.30 | 1,398.08 | -9,142.79 | 5,386.41 | 5,059.16 | 327.25 | 16.460 | | |
| 11,600.00 | 6,934.58 | 6,905.58 | 6,934.58 | 135.42 | 239.35 | 90.30 | 1,398.08 | -9,142.79 | 5,305.49 | 4,975.72 | 329.77 | 16.088 | | |
| 11,700.00 | 6,934.20 | 6,905.20 | 6,934.20 | 138.19 | 239.34 | 90.29 | 1,398.08 | -9,142.79 | 5,225.24 | 4,892.86 | 332.39 | 15.720 | | |
| 11,800.00 | 6,933.82 | 6,904.82 | 6,933.82 | 140.96 | 239.32 | 90.28 | 1,398.08 | -9,142.79 | 5,145.68 | 4,810.60 | 335.08 | 15.357 | | |
| 11,900.00 | 6,933.44 | 6,904.44 | 6,933.44 | 143.74 | 239.31 | 90.28 | 1,398.08 | -9,142.79 | 5,066.85 | 4,728.99 | 337.86 | 14.997 | | |
| 12,000.00 | 6,933.06 | 6,904.06 | 6,933.06 | 146.51 | 239.30 | 90.27 | 1,398.08 | -9,142.79 | 4,988.77 | 4,648.04 | 340.73 | 14.641 | | |
| 12,100.00 | 6,932.68 | 6,903.68 | 6,932.68 | 149.30 | 239.28 | 90.26 | 1,398.08 | -9,142.79 | 4,911.49 | 4,567.80 | 343.69 | 14.290 | | |
| 12,200.00 | 6,932.30 | 6,903.30 | 6,932.30 | 152.08 | 239.27 | 90.25 | 1,398.08 | -9,142.79 | 4,835.04 | 4,488.30 | 346.74 | 13.944 | | |
| 12,300.00 | 6,931.92 | 6,902.92 | 6,931.92 | 154.87 | 239.26 | 90.25 | 1,398.08 | -9,142.79 | 4,759.47 | 4,409.58 | 349.89 | 13.603 | | |
| 12,400.00 | 6,931.54 | 6,902.54 | 6,931.54 | 157.66 | 239.25 | 90.24 | 1,398.08 | -9,142.79 | 4,684.81 | 4,331.69 | 353.12 | 13.267 | | |
| 12,500.00 | 6,931.16 | 6,902.16 | 6,931.16 | 160.45 | 239.23 | 90.23 | 1,398.08 | -9,142.79 | 4,611.11 | 4,254.66 | 356.45 | 12.936 | | |
| 12,600.00 | 6,930.78 | 6,901.78 | 6,930.78 | 163.24 | 239.22 | 90.23 | 1,398.08 | -9,142.79 | 4,538.42 | 4,178.54 | 359.88 | 12.611 | | |
| 12,700.00 | 6,930.40 | 6,901.40 | 6,930.40 | 166.04 | 239.21 | 90.22 | 1,398.08 | -9,142.79 | 4,466.78 | 4,103.38 | 363.40 | 12.292 | | |
| 12,800.00 | 6,930.03 | 6,901.03 | 6,930.03 | 168.84 | 239.19 | 90.21 | 1,398.08 | -9,142.79 | 4,396.25 | 4,029.24 | 367.02 | 11.978 | | |
| 12,900.00 | 6,929.65 | 6,900.65 | 6,929.65 | 171.64 | 239.18 | 90.21 | 1,398.08 | -9,142.79 | 4,326.88 | 3,956.16 | 370.73 | 11.671 | | |
| 13,000.00 | 6,929.27 | 6,900.27 | 6,929.27 | 174.44 | 239.17 | 90.20 | 1,398.08 | -9,142.79 | 4,258.74 | 3,884.20 | 374.53 | 11.371 | | |
| 13,100.00 | 6,928.89 | 6,900.11 | 6,928.89 | 177.24 | 239.16 | 90.19 | 1,398.08 | -9,142.79 | 4,191.86 | 3,813.42 | 378.44 | 11.077 | | |
| 13,200.00 | 6,928.51 | 6,900.49 | 6,928.51 | 180.05 | 239.17 | 90.19 | 1,398.08 | -9,142.79 | 4,126.33 | 3,743.87 | 382.46 | 10.789 | | |
| 13,300.00 | 6,928.13 | 6,900.87 | 6,928.13 | 182.86 | 239.19 | 90.18 | 1,398.08 | -9,142.79 | 4,062.21 | 3,675.64 | 386.57 | 10.508 | | |
| 13,400.00 | 6,927.75 | 6,901.25 | 6,927.75 | 185.67 | 239.20 | 90.17 | 1,398.08 | -9,142.79 | 3,999.55 | 3,608.79 | 390.76 | 10.235 | | |
| 13,500.00 | 6,927.37 | 6,901.63 | 6,927.37 | 188.48 | 239.21 | 90.16 | 1,398.08 | -9,142.79 | 3,938.44 | 3,543.40 | 395.04 | 9.970 | | |
| 13,600.00 | 6,926.99 | 6,902.01 | 6,926.99 | 191.29 | 239.23 | 90.16 | 1,398.08 | -9,142.79 | 3,878.94 | 3,479.55 | 399.40 | 9.712 | | |
| 13,700.00 | 6,926.61 | 6,902.39 | 6,926.61 | 194.10 | 239.24 | 90.15 | 1,398.08 | -9,142.79 | 3,821.14 | 3,417.31 | 403.83 | 9.462 | | |
| 13,800.00 | 6,926.23 | 6,902.77 | 6,926.23 | 196.92 | 239.25 | 90.14 | 1,398.08 | -9,142.79 | 3,765.10 | 3,356.78 | 408.32 | 9.221 | | |
| 13,900.00 | 6,925.85 | 6,903.15 | 6,925.85 | 199.73 | 239.27 | 90.14 | 1,398.08 | -9,142.79 | 3,710.91 | 3,298.04 | 412.88 | 8.988 | | |
| 14,000.00 | 6,925.47 | 6,903.53 | 6,925.47 | 202.55 | 239.28 | 90.13 | 1,398.08 | -9,142.79 | 3,658.66 | 3,241.17 | 417.48 | 8.764 | | |
| 14,100.00 | 6,925.09 | 6,903.91 | 6,925.09 | 205.37 | 239.29 | 90.12 | 1,398.08 | -9,142.79 | 3,608.42 | 3,186.29 | 422.13 | 8.548 | | |
| 14,200.00 | 6,924.71 | 6,904.29 | 6,924.71 | 208.19 | 239.31 | 90.12 | 1,398.08 | -9,142.79 | 3,560.27 | 3,133.47 | 426.80 | 8.342 | | |
| 14,300.00 | 6,924.34 | 6,904.67 | 6,924.34 | 211.01 | 239.32 | 90.11 | 1,398.08 | -9,142.79 | 3,514.32 | 3,082.82 | 431.50 | 8.144 | | |
| 14,400.00 | 6,923.96 | 6,905.04 | 6,923.96 | 213.83 | 239.33 | 90.10 | 1,398.08 | -9,142.79 | 3,470.64 | 3,034.44 | 436.20 | 7.957 | | |
| 14,500.00 | 6,923.58 | 6,905.42 | 6,923.58 | 216.65 | 239.35 | 90.10 | 1,398.08 | -9,142.79 | 3,429.32 | 2,988.43 | 440.88 | 7.778 | | |
| 14,600.00 | 6,923.20 | 6,905.80 | 6,923.20 | 219.48 | 239.36 | 90.09 | 1,398.08 | -9,142.79 | 3,390.45 | 2,944.90 | 445.55 | 7.610 | | |
| 14,700.00 | 6,922.82 | 6,906.18 | 6,922.82 | 222.30 | 239.37 | 90.08 | 1,398.08 | -9,142.79 | 3,354.10 | 2,903.94 | 450.17 | 7.451 | | |
| 14,800.00 | 6,922.44 | 6,906.56 | 6,922.44 | 225.13 | 239.39 | 90.07 | 1,398.08 | -9,142.79 | 3,320.38 | 2,865.65 | 454.73 | 7.302 | | |
| 14,900.00 | 6,922.06 | 6,906.94 | 6,922.06 | 227.95 | 239.40 | 90.07 | 1,398.08 | -9,142.79 | 3,289.34 | 2,830.14 | 459.21 | 7.163 | | |
| 14,915.55 | 6,922.00 | 6,907.00 | 6,922.00 | 228.39 | 239.40 | 90.07 | 1,398.08 | -9,142.79 | 3,284.77 | 2,824.87 | 459.89 | 7.142 | CC, ES, SF | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MONTERA 10-34 (PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 15.41 | 1.41 | 3.28 | 3.28 | 2.79 | 2,444.48 | 119.30 | 2,447.39 | | | | | |
| 100.00 | 100.00 | 126.38 | 112.38 | 3.28 | 3.30 | 2.79 | 2,444.20 | 118.92 | 2,447.13 | 2,440.54 | 6.58 | 371.832 | | |
| 200.00 | 200.00 | 235.64 | 221.64 | 3.34 | 3.38 | 2.78 | 2,443.39 | 118.79 | 2,446.37 | 2,439.65 | 6.71 | 364.429 | | |
| 225.55 | 225.55 | 261.35 | 247.34 | 3.36 | 3.40 | 177.40 | 2,443.16 | 118.80 | 2,446.25 | 2,439.49 | 6.76 | 361.759 CC, ES | | |
| 300.00 | 299.98 | 332.62 | 318.61 | 3.44 | 3.50 | 177.40 | 2,442.54 | 118.76 | 2,447.24 | 2,440.30 | 6.94 | 352.783 | | |
| 400.00 | 399.84 | 422.58 | 408.57 | 3.59 | 3.65 | 177.39 | 2,442.06 | 118.22 | 2,451.90 | 2,444.66 | 7.24 | 338.645 | | |
| 500.00 | 499.45 | 511.30 | 497.28 | 3.79 | 3.83 | 177.37 | 2,441.98 | 117.44 | 2,460.48 | 2,452.86 | 7.62 | 322.791 | | |
| 600.00 | 598.70 | 601.97 | 587.95 | 4.03 | 4.05 | 177.35 | 2,442.26 | 116.57 | 2,472.92 | 2,464.84 | 8.08 | 306.102 | | |
| 700.00 | 697.47 | 690.55 | 676.52 | 4.31 | 4.28 | 177.34 | 2,442.85 | 116.13 | 2,489.17 | 2,480.58 | 8.59 | 289.830 | | |
| 800.00 | 795.62 | 810.08 | 796.05 | 4.64 | 4.62 | 177.35 | 2,443.41 | 116.17 | 2,508.70 | 2,499.46 | 9.24 | 271.543 | | |
| 900.00 | 893.06 | 889.88 | 875.85 | 5.00 | 4.87 | 177.35 | 2,443.73 | 116.32 | 2,531.57 | 2,521.75 | 9.82 | 257.825 | | |
| 1,000.00 | 989.78 | 1,006.67 | 992.64 | 5.39 | 5.24 | 177.38 | 2,444.13 | 116.65 | 2,557.27 | 2,546.71 | 10.55 | 242.284 | | |
| 1,100.00 | 1,086.42 | 1,100.92 | 1,086.90 | 5.81 | 5.56 | 177.41 | 2,444.07 | 117.07 | 2,582.92 | 2,571.68 | 11.24 | 229.848 | | |
| 1,200.00 | 1,183.06 | 1,190.97 | 1,176.94 | 6.25 | 5.88 | 177.45 | 2,444.14 | 117.76 | 2,608.72 | 2,596.79 | 11.93 | 218.658 | | |
| 1,300.00 | 1,279.69 | 1,302.36 | 1,288.33 | 6.71 | 6.28 | 177.50 | 2,444.09 | 118.51 | 2,634.40 | 2,621.67 | 12.73 | 207.005 | | |
| 1,400.00 | 1,376.33 | 1,390.20 | 1,376.16 | 7.17 | 6.60 | 177.52 | 2,443.95 | 118.65 | 2,659.95 | 2,646.50 | 13.45 | 197.769 | | |
| 1,500.00 | 1,472.97 | 1,499.59 | 1,485.56 | 7.65 | 7.01 | 177.55 | 2,443.73 | 118.80 | 2,685.46 | 2,671.18 | 14.28 | 188.120 | | |
| 1,600.00 | 1,569.61 | 1,605.64 | 1,591.61 | 8.13 | 7.41 | 177.59 | 2,443.04 | 119.03 | 2,710.53 | 2,695.43 | 15.10 | 179.478 | | |
| 1,700.00 | 1,666.24 | 1,701.19 | 1,687.15 | 8.62 | 7.78 | 177.60 | 2,442.31 | 118.78 | 2,735.47 | 2,719.57 | 15.90 | 172.074 | | |
| 1,800.00 | 1,762.88 | 1,804.89 | 1,790.84 | 9.12 | 8.19 | 177.61 | 2,441.43 | 118.02 | 2,760.30 | 2,743.57 | 16.74 | 164.923 | | |
| 1,900.00 | 1,859.52 | 1,886.64 | 1,872.59 | 9.62 | 8.51 | 177.62 | 2,440.87 | 117.31 | 2,785.30 | 2,767.81 | 17.49 | 159.268 | | |
| 2,000.00 | 1,956.16 | 1,997.03 | 1,982.97 | 10.13 | 8.95 | 177.62 | 2,440.21 | 116.46 | 2,810.38 | 2,792.01 | 18.37 | 152.956 | | |
| 2,100.00 | 2,052.79 | 2,081.57 | 2,067.51 | 10.64 | 9.28 | 177.63 | 2,439.62 | 115.63 | 2,835.35 | 2,816.20 | 19.15 | 148.071 | | |
| 2,200.00 | 2,149.43 | 2,169.32 | 2,155.25 | 11.15 | 9.64 | 177.62 | 2,439.38 | 114.50 | 2,860.71 | 2,840.77 | 19.94 | 143.452 | | |
| 2,300.00 | 2,246.07 | 2,249.70 | 2,235.63 | 11.66 | 9.96 | 177.62 | 2,439.43 | 113.72 | 2,886.43 | 2,865.73 | 20.70 | 139.420 | | |
| 2,400.00 | 2,342.71 | 2,328.33 | 2,314.25 | 12.18 | 10.28 | 177.63 | 2,440.03 | 113.12 | 2,912.80 | 2,891.34 | 21.46 | 135.748 | | |
| 2,500.00 | 2,439.34 | 2,411.86 | 2,397.76 | 12.70 | 10.62 | 177.62 | 2,441.07 | 112.06 | 2,939.64 | 2,917.40 | 22.24 | 132.196 | | |
| 2,600.00 | 2,535.98 | 2,491.12 | 2,477.00 | 13.22 | 10.94 | 177.62 | 2,442.49 | 110.89 | 2,966.97 | 2,943.97 | 23.00 | 129.015 | | |
| 2,700.00 | 2,632.62 | 2,573.19 | 2,559.04 | 13.75 | 11.28 | 177.61 | 2,444.39 | 109.65 | 2,994.81 | 2,971.04 | 23.77 | 125.980 | | |
| 2,800.00 | 2,729.26 | 2,687.32 | 2,673.12 | 14.27 | 11.75 | 177.59 | 2,447.11 | 107.85 | 3,022.75 | 2,998.03 | 24.71 | 122.309 | | |
| 2,900.00 | 2,825.89 | 2,778.18 | 2,763.96 | 14.80 | 12.12 | 177.58 | 2,448.90 | 106.39 | 3,050.25 | 3,024.71 | 25.54 | 119.434 | | |
| 3,000.00 | 2,922.53 | 2,885.88 | 2,871.61 | 15.32 | 12.57 | 177.56 | 2,451.09 | 104.18 | 3,077.81 | 3,051.35 | 26.45 | 116.342 | | |
| 3,100.00 | 3,019.17 | 2,988.83 | 2,974.53 | 15.85 | 13.00 | 177.53 | 2,452.78 | 101.84 | 3,104.97 | 3,077.62 | 27.35 | 113.533 | | |
| 3,200.00 | 3,115.81 | 3,071.30 | 3,056.96 | 16.38 | 13.34 | 177.52 | 2,454.20 | 100.19 | 3,132.22 | 3,104.09 | 28.14 | 111.325 | | |
| 3,300.00 | 3,212.44 | 3,171.94 | 3,157.56 | 16.91 | 13.76 | 177.50 | 2,456.24 | 98.34 | 3,159.77 | 3,130.75 | 29.02 | 108.881 | | |
| 3,400.00 | 3,309.08 | 3,254.24 | 3,239.84 | 17.44 | 14.10 | 177.49 | 2,457.80 | 97.03 | 3,187.23 | 3,157.43 | 29.81 | 106.926 | | |
| 3,500.00 | 3,405.72 | 3,327.20 | 3,312.76 | 17.97 | 14.40 | 177.49 | 2,459.72 | 95.89 | 3,215.37 | 3,184.83 | 30.54 | 105.272 | | |
| 3,600.00 | 3,502.36 | 3,403.14 | 3,388.65 | 18.50 | 14.72 | 177.48 | 2,462.22 | 94.93 | 3,244.16 | 3,212.87 | 31.29 | 103.668 | | |
| 3,700.00 | 3,598.99 | 3,531.76 | 3,517.22 | 19.03 | 15.26 | 177.49 | 2,465.85 | 94.35 | 3,272.47 | 3,240.14 | 32.34 | 101.192 | | |
| 3,800.00 | 3,695.63 | 3,635.54 | 3,620.96 | 19.57 | 15.69 | 177.50 | 2,468.62 | 93.82 | 3,300.73 | 3,267.48 | 33.25 | 99.277 | | |
| 3,900.00 | 3,792.27 | 3,761.37 | 3,746.77 | 20.10 | 16.22 | 177.51 | 2,470.56 | 92.68 | 3,327.77 | 3,293.49 | 34.28 | 97.076 | | |
| 4,000.00 | 3,888.91 | 3,864.51 | 3,849.90 | 20.63 | 16.65 | 177.50 | 2,472.04 | 91.47 | 3,354.79 | 3,319.60 | 35.19 | 95.338 | | |
| 4,100.00 | 3,985.54 | 3,994.06 | 3,979.41 | 21.17 | 17.20 | 177.48 | 2,473.12 | 88.48 | 3,381.18 | 3,344.94 | 36.24 | 93.290 | | |
| 4,200.00 | 4,082.18 | 4,095.44 | 4,080.75 | 21.70 | 17.62 | 177.45 | 2,473.35 | 85.72 | 3,406.96 | 3,369.81 | 37.15 | 91.720 | | |
| 4,300.00 | 4,178.82 | 4,176.29 | 4,161.57 | 22.24 | 17.96 | 177.43 | 2,473.67 | 83.63 | 3,432.90 | 3,394.96 | 37.93 | 90.496 | | |
| 4,400.00 | 4,275.46 | 4,265.33 | 4,250.59 | 22.77 | 18.34 | 177.41 | 2,474.34 | 81.91 | 3,459.22 | 3,420.45 | 38.77 | 89.229 | | |
| 4,500.00 | 4,372.09 | 4,347.93 | 4,333.17 | 23.31 | 18.69 | 177.41 | 2,475.11 | 80.58 | 3,485.74 | 3,446.17 | 39.56 | 88.102 | | |
| 4,600.00 | 4,468.73 | 4,428.64 | 4,413.88 | 23.84 | 19.03 | 177.41 | 2,476.27 | 79.83 | 3,512.76 | 3,472.41 | 40.35 | 87.057 | | |
| 4,700.00 | 4,565.37 | 4,515.52 | 4,500.74 | 24.38 | 19.39 | 177.41 | 2,477.76 | 78.89 | 3,540.05 | 3,498.88 | 41.17 | 85.985 | | |
| 4,800.00 | 4,662.01 | 4,589.76 | 4,574.96 | 24.91 | 19.71 | 177.40 | 2,479.40 | 77.79 | 3,567.79 | 3,525.88 | 41.92 | 85.116 | | |
| 4,900.00 | 4,758.64 | 4,720.20 | 4,705.34 | 25.45 | 20.26 | 177.39 | 2,482.18 | 75.50 | 3,595.48 | 3,552.48 | 42.99 | 83.629 | | |
| 5,000.00 | 4,855.28 | 4,835.13 | 4,820.23 | 25.99 | 20.74 | 177.37 | 2,483.83 | 73.00 | 3,622.47 | 3,578.49 | 43.98 | 82.368 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MONTERA 10-34 (PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: 0.00 ft | | | | | | | | | | | | | |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|----------------------------|----------|----------|----------|----------|-------|-------|--------|----------|-------|----------|----------|-------|--------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: 3.28 ft | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | | | | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | | | | | | | | | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | | | | | | | | | | | | |
| 5,100.00 | 4,951.92 | 4,940.30 | 4,925.37 | 26.53 | 21.19 | 177.35 | 2,484.66 | 70.32 | 3,648.78 | 3,603.87 | 44.91 | 81.249 | | | | | | | | | | | | | | |
| 5,200.00 | 5,048.56 | 5,027.13 | 5,012.15 | 27.06 | 21.56 | 177.32 | 2,485.63 | 67.79 | 3,675.39 | 3,629.66 | 45.73 | 80.367 | | | | | | | | | | | | | | |
| 5,300.00 | 5,145.19 | 5,132.35 | 5,117.34 | 27.60 | 22.00 | 177.30 | 2,486.55 | 65.30 | 3,701.80 | 3,655.14 | 46.66 | 79.330 | | | | | | | | | | | | | | |
| 5,400.00 | 5,241.83 | 5,215.26 | 5,200.23 | 28.14 | 22.35 | 177.30 | 2,487.39 | 64.14 | 3,728.40 | 3,680.94 | 47.46 | 78.553 | | | | | | | | | | | | | | |
| 5,500.00 | 5,338.47 | 5,303.73 | 5,288.69 | 28.67 | 22.73 | 177.29 | 2,488.53 | 62.99 | 3,755.27 | 3,706.98 | 48.30 | 77.755 | | | | | | | | | | | | | | |
| 5,600.00 | 5,435.11 | 5,401.35 | 5,386.30 | 29.21 | 23.14 | 177.30 | 2,489.85 | 62.15 | 3,782.22 | 3,733.04 | 49.18 | 76.900 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 5,700.00 | 5,531.74 | 5,494.13 | 5,479.07 | 29.75 | 23.53 | 177.31 | 2,491.11 | 61.86 | 3,809.20 | 3,759.16 | 50.04 | 76.120 |
| | | | | | | | | | | | | | | 5,800.00 | 5,628.38 | 5,571.39 | 5,556.32 | 30.29 | 23.86 | 177.32 | 2,492.36 | 61.81 | 3,836.45 | 3,785.64 | 50.81 | 75.511 |
| | | | | | | | | | | | | | | 5,900.00 | 5,725.02 | 5,677.46 | 5,662.36 | 30.83 | 24.31 | 177.35 | 2,494.33 | 62.40 | 3,863.96 | 3,812.22 | 51.75 | 74.672 |
| | | | | | | | | | | | | | | 6,000.00 | 5,821.66 | 5,816.64 | 5,801.53 | 31.37 | 24.90 | 177.39 | 2,495.81 | 63.40 | 3,890.72 | 3,837.83 | 52.88 | 73.571 |
| 6,100.00 | 5,918.29 | 5,937.48 | 5,922.37 | 31.90 | 25.41 | 177.41 | 2,496.18 | 63.39 | 3,916.73 | 3,862.82 | 53.91 | 72.653 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 6,200.00 | 6,014.93 | 6,064.71 | 6,049.60 | 32.44 | 25.95 | 177.43 | 2,495.46 | 62.91 | 3,941.82 | 3,886.85 | 54.97 | 71.707 |
| | | | | | | | | | | | | | | 6,300.00 | 6,111.57 | 6,168.73 | 6,153.61 | 32.98 | 26.39 | 177.44 | 2,494.45 | 62.36 | 3,966.55 | 3,910.65 | 55.90 | 70.962 |
| | | | | | | | | | | | | | | 6,400.00 | 6,208.21 | 6,261.10 | 6,245.97 | 33.52 | 26.78 | 177.45 | 2,493.52 | 61.84 | 3,991.24 | 3,934.48 | 56.76 | 70.323 |
| | | | | | | | | | | | | | | 6,500.00 | 6,304.84 | 6,348.39 | 6,333.26 | 34.06 | 27.15 | 177.45 | 2,492.83 | 61.05 | 4,016.12 | 3,958.54 | 57.58 | 69.743 |
| 6,600.00 | 6,401.37 | 6,427.81 | 6,412.67 | 34.60 | 27.49 | 159.53 | 2,492.44 | 60.01 | 4,041.38 | 3,983.01 | 58.37 | 69.241 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 6,700.00 | 6,496.25 | 6,500.01 | 6,484.87 | 35.12 | 27.80 | 134.76 | 2,492.55 | 58.99 | 4,067.63 | 4,008.53 | 59.10 | 68.828 |
| | | | | | | | | | | | | | | 6,800.00 | 6,587.15 | 6,614.69 | 6,599.54 | 35.59 | 28.28 | 1 | | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - MONTERA 10-34 (PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 7,000.01 | 6,984.81 | 99.91 | 29.92 | 90.43 | 2,491.14 | 51.94 | 5,532.98 | 5,427.71 | 105.28 | 52.555 | | |
| 10,400.00 | 6,939.13 | 7,000.01 | 6,984.81 | 102.60 | 29.92 | 90.43 | 2,491.14 | 51.94 | 5,599.02 | 5,492.62 | 106.40 | 52.620 | | |
| 10,500.00 | 6,938.75 | 7,000.01 | 6,984.81 | 105.30 | 29.92 | 90.43 | 2,491.14 | 51.94 | 5,666.06 | 5,558.56 | 107.50 | 52.709 | | |
| 10,600.00 | 6,938.37 | 7,000.25 | 6,985.05 | 108.00 | 29.92 | 90.44 | 2,491.14 | 51.94 | 5,734.05 | 5,625.49 | 108.56 | 52.820 | | |
| 10,700.00 | 6,937.99 | 7,000.56 | 6,985.36 | 110.72 | 29.93 | 90.44 | 2,491.14 | 51.94 | 5,802.97 | 5,693.39 | 109.59 | 52.953 | | |
| 10,800.00 | 6,937.61 | 7,000.88 | 6,985.68 | 113.44 | 29.93 | 90.44 | 2,491.14 | 51.94 | 5,872.79 | 5,762.20 | 110.59 | 53.105 | | |
| 10,900.00 | 6,937.23 | 7,001.19 | 6,985.99 | 116.17 | 29.93 | 90.45 | 2,491.14 | 51.94 | 5,943.47 | 5,831.91 | 111.56 | 53.278 | | |
| 11,000.00 | 6,936.85 | 7,001.49 | 6,986.30 | 118.90 | 29.93 | 90.45 | 2,491.14 | 51.93 | 6,014.98 | 5,902.48 | 112.50 | 53.468 | | |
| 11,100.00 | 6,936.47 | 7,001.80 | 6,986.60 | 121.64 | 29.93 | 90.46 | 2,491.14 | 51.93 | 6,087.29 | 5,973.88 | 113.41 | 53.677 | | |
| 11,200.00 | 6,936.09 | 7,002.10 | 6,986.90 | 124.39 | 29.93 | 90.46 | 2,491.14 | 51.93 | 6,160.38 | 6,046.09 | 114.29 | 53.901 | | |
| 11,300.00 | 6,935.71 | 7,002.40 | 6,987.20 | 127.14 | 29.93 | 90.47 | 2,491.13 | 51.93 | 6,234.21 | 6,119.07 | 115.15 | 54.142 | | |
| 11,400.00 | 6,935.34 | 7,002.69 | 6,987.49 | 129.90 | 29.94 | 90.47 | 2,491.13 | 51.92 | 6,308.77 | 6,192.79 | 115.98 | 54.397 | | |
| 11,500.00 | 6,934.96 | 7,002.98 | 6,987.78 | 132.66 | 29.94 | 90.47 | 2,491.13 | 51.92 | 6,384.02 | 6,267.24 | 116.78 | 54.667 | | |
| 11,600.00 | 6,934.58 | 7,003.27 | 6,988.07 | 135.42 | 29.94 | 90.48 | 2,491.13 | 51.92 | 6,459.94 | 6,342.38 | 117.56 | 54.950 | | |
| 11,700.00 | 6,934.20 | 7,003.55 | 6,988.35 | 138.19 | 29.94 | 90.48 | 2,491.13 | 51.92 | 6,536.51 | 6,418.19 | 118.32 | 55.246 | | |
| 11,800.00 | 6,933.82 | 7,003.83 | 6,988.63 | 140.96 | 29.94 | 90.48 | 2,491.13 | 51.92 | 6,613.71 | 6,494.66 | 119.05 | 55.555 | | |
| 11,900.00 | 6,933.44 | 7,004.11 | 6,988.91 | 143.74 | 29.94 | 90.49 | 2,491.13 | 51.91 | 6,691.51 | 6,571.75 | 119.76 | 55.875 | | |
| 12,000.00 | 6,933.06 | 7,004.39 | 6,989.19 | 146.51 | 29.94 | 90.49 | 2,491.13 | 51.91 | 6,769.89 | 6,649.44 | 120.45 | 56.206 | | |
| 12,100.00 | 6,932.68 | 7,004.66 | 6,989.46 | 149.30 | 29.94 | 90.50 | 2,491.12 | 51.91 | 6,848.84 | 6,727.72 | 121.12 | 56.547 | | |
| 12,200.00 | 6,932.30 | 7,004.93 | 6,989.73 | 152.08 | 29.94 | 90.50 | 2,491.12 | 51.91 | 6,928.33 | 6,806.56 | 121.77 | 56.899 | | |
| 12,300.00 | 6,931.92 | 7,005.20 | 6,990.00 | 154.87 | 29.95 | 90.50 | 2,491.12 | 51.91 | 7,008.34 | 6,885.95 | 122.39 | 57.260 | | |
| 12,400.00 | 6,931.54 | 7,005.46 | 6,990.26 | 157.66 | 29.95 | 90.51 | 2,491.12 | 51.91 | 7,088.86 | 6,965.86 | 123.00 | 57.631 | | |
| 12,500.00 | 6,931.16 | 7,005.72 | 6,990.52 | 160.45 | 29.95 | 90.51 | 2,491.12 | 51.90 | 7,169.88 | 7,046.28 | 123.60 | 58.010 | | |
| 12,600.00 | 6,930.78 | 7,005.98 | 6,990.78 | 163.24 | 29.95 | 90.51 | 2,491.12 | 51.90 | 7,251.36 | 7,127.19 | 124.17 | 58.398 | | |
| 12,700.00 | 6,930.40 | 7,006.24 | 6,991.04 | 166.04 | 29.95 | 90.52 | 2,491.12 | 51.90 | 7,333.31 | 7,208.58 | 124.73 | 58.794 | | |
| 12,800.00 | 6,930.03 | 7,006.49 | 6,991.29 | 168.84 | 29.95 | 90.52 | 2,491.12 | 51.90 | 7,415.70 | 7,290.42 | 125.27 | 59.197 | | |
| 12,900.00 | 6,929.65 | 7,006.74 | 6,991.54 | 171.64 | 29.95 | 90.52 | 2,491.11 | 51.90 | 7,498.51 | 7,372.71 | 125.80 | 59.607 | | |
| 13,000.00 | 6,929.27 | 7,006.99 | 6,991.79 | 174.44 | 29.95 | 90.53 | 2,491.11 | 51.89 | 7,581.74 | 7,455.43 | 126.31 | 60.025 | | |
| 13,100.00 | 6,928.89 | 7,007.24 | 6,992.04 | 177.24 | 29.95 | 90.53 | 2,491.11 | 51.89 | 7,665.38 | 7,538.57 | 126.81 | 60.449 | | |
| 13,200.00 | 6,928.51 | 7,007.48 | 6,992.28 | 180.05 | 29.96 | 90.53 | 2,491.11 | 51.89 | 7,749.39 | 7,622.11 | 127.29 | 60.880 | | |
| 13,300.00 | 6,928.13 | 7,007.72 | 6,992.52 | 182.86 | 29.96 | 90.54 | 2,491.11 | 51.89 | 7,833.79 | 7,706.03 | 127.76 | 61.317 | | |
| 13,400.00 | 6,927.75 | 7,007.96 | 6,992.76 | 185.67 | 29.96 | 90.54 | 2,491.11 | 51.89 | 7,918.55 | 7,790.33 | 128.22 | 61.759 | | |
| 13,500.00 | 6,927.37 | 7,008.20 | 6,993.00 | 188.48 | 29.96 | 90.54 | 2,491.11 | 51.89 | 8,003.66 | 7,875.00 | 128.66 | 62.208 | | |
| 13,600.00 | 6,926.99 | 7,008.43 | 6,993.23 | 191.29 | 29.96 | 90.55 | 2,491.11 | 51.89 | 8,089.11 | 7,960.02 | 129.09 | 62.662 | | |
| 13,700.00 | 6,926.61 | 7,008.67 | 6,993.47 | 194.10 | 29.96 | 90.55 | 2,491.11 | 51.88 | 8,174.89 | 8,045.38 | 129.51 | 63.120 | | |
| 13,800.00 | 6,926.23 | 7,008.90 | 6,993.70 | 196.92 | 29.96 | 90.55 | 2,491.10 | 51.88 | 8,260.99 | 8,131.07 | 129.92 | 63.584 | | |
| 13,900.00 | 6,925.85 | 7,009.12 | 6,993.92 | 199.73 | 29.96 | 90.56 | 2,491.10 | 51.88 | 8,347.40 | 8,217.08 | 130.32 | 64.053 | | |
| 14,000.00 | 6,925.47 | 7,009.35 | 6,994.15 | 202.55 | 29.96 | 90.56 | 2,491.10 | 51.88 | 8,434.11 | 8,303.40 | 130.71 | 64.526 | | |
| 14,100.00 | 6,925.09 | 7,009.57 | 6,994.37 | 205.37 | 29.96 | 90.56 | 2,491.10 | 51.88 | 8,521.11 | 8,390.03 | 131.09 | 65.004 | | |
| 14,200.00 | 6,924.71 | 7,009.79 | 6,994.60 | 208.19 | 29.97 | 90.57 | 2,491.10 | 51.88 | 8,608.40 | 8,476.94 | 131.45 | 65.486 | | |
| 14,300.00 | 6,924.34 | 7,010.01 | 6,994.81 | 211.01 | 29.97 | 90.57 | 2,491.10 | 51.87 | 8,695.96 | 8,564.14 | 131.81 | 65.972 | | |
| 14,400.00 | 6,923.96 | 7,010.23 | 6,995.03 | 213.83 | 29.97 | 90.57 | 2,491.10 | 51.87 | 8,783.78 | 8,651.62 | 132.16 | 66.462 | | |
| 14,500.00 | 6,923.58 | 7,010.45 | 6,995.25 | 216.65 | 29.97 | 90.58 | 2,491.10 | 51.87 | 8,871.86 | 8,739.36 | 132.50 | 66.955 | | |
| 14,600.00 | 6,923.20 | 7,010.66 | 6,995.46 | 219.48 | 29.97 | 90.58 | 2,491.10 | 51.87 | 8,960.20 | 8,827.36 | 132.84 | 67.452 | | |
| 14,700.00 | 6,922.82 | 7,010.87 | 6,995.67 | 222.30 | 29.97 | 90.58 | 2,491.10 | 51.87 | 9,048.77 | 8,915.61 | 133.16 | 67.953 | | |
| 14,800.00 | 6,922.44 | 7,011.08 | 6,995.88 | 225.13 | 29.97 | 90.58 | 2,491.09 | 51.87 | 9,137.58 | 9,004.10 | 133.48 | 68.457 | | |
| 14,900.00 | 6,922.06 | 7,011.29 | 6,996.09 | 227.95 | 29.97 | 90.59 | 2,491.09 | 51.87 | 9,226.62 | 9,092.83 | 133.79 | 68.964 | | |
| 14,915.55 | 6,922.00 | 7,011.32 | 6,996.12 | 228.39 | 29.97 | 90.59 | 2,491.09 | 51.87 | 9,240.49 | 9,106.65 | 133.84 | 69.043 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - RUTT-ADAMS HEIRS 2-22 - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 59.00 | 3.28 | 3.28 | -165.29 | -3,979.64 | -1,044.59 | 4,114.87 | | | | |
| 100.00 | 100.00 | 41.00 | 100.00 | 3.28 | 3.36 | -165.29 | -3,979.64 | -1,044.59 | 4,114.45 | 4,107.81 | 6.64 | 619.470 | |
| 200.00 | 200.00 | 141.00 | 200.00 | 3.34 | 4.57 | -165.29 | -3,979.64 | -1,044.59 | 4,114.45 | 4,106.55 | 7.90 | 520.601 | |
| 300.00 | 299.98 | 240.98 | 299.98 | 3.44 | 7.43 | 9.34 | -3,979.64 | -1,044.59 | 4,112.73 | 4,101.86 | 10.87 | 378.345 | |
| 400.00 | 399.84 | 340.84 | 399.84 | 3.59 | 10.67 | 9.36 | -3,979.64 | -1,044.59 | 4,107.56 | 4,093.30 | 14.26 | 288.008 | |
| 500.00 | 499.45 | 440.45 | 499.45 | 3.79 | 14.02 | 9.41 | -3,979.64 | -1,044.59 | 4,098.96 | 4,081.15 | 17.81 | 230.122 | |
| 600.00 | 598.70 | 539.70 | 598.70 | 4.03 | 17.41 | 9.48 | -3,979.64 | -1,044.59 | 4,086.94 | 4,065.50 | 21.44 | 190.607 | |
| 700.00 | 697.47 | 638.47 | 697.47 | 4.31 | 20.80 | 9.57 | -3,979.64 | -1,044.59 | 4,071.51 | 4,046.39 | 25.12 | 162.109 | |
| 800.00 | 795.62 | 736.62 | 795.62 | 4.64 | 24.19 | 9.68 | -3,979.64 | -1,044.59 | 4,052.69 | 4,023.87 | 28.81 | 140.647 | |
| 900.00 | 893.06 | 834.06 | 893.06 | 5.00 | 27.57 | 9.81 | -3,979.64 | -1,044.59 | 4,030.50 | 3,997.98 | 32.52 | 123.925 | |
| 1,000.00 | 989.78 | 930.78 | 989.78 | 5.39 | 30.92 | 9.91 | -3,979.64 | -1,044.59 | 4,005.48 | 3,969.24 | 36.24 | 110.538 | |
| 1,100.00 | 1,086.42 | 1,027.42 | 1,086.42 | 5.81 | 34.28 | 9.97 | -3,979.64 | -1,044.59 | 3,980.13 | 3,940.17 | 39.96 | 99.610 | |
| 1,200.00 | 1,183.06 | 1,124.06 | 1,183.06 | 6.25 | 37.64 | 10.04 | -3,979.64 | -1,044.59 | 3,954.78 | 3,911.08 | 43.70 | 90.504 | |
| 1,300.00 | 1,279.69 | 1,220.69 | 1,279.69 | 6.71 | 41.00 | 10.10 | -3,979.64 | -1,044.59 | 3,929.44 | 3,881.98 | 47.45 | 82.807 | |
| 1,400.00 | 1,376.33 | 1,317.33 | 1,376.33 | 7.17 | 44.36 | 10.17 | -3,979.64 | -1,044.59 | 3,904.10 | 3,852.88 | 51.22 | 76.221 | |
| 1,500.00 | 1,472.97 | 1,413.97 | 1,472.97 | 7.65 | 47.73 | 10.24 | -3,979.64 | -1,044.59 | 3,878.76 | 3,823.77 | 55.00 | 70.524 | |
| 1,600.00 | 1,569.61 | 1,510.61 | 1,569.61 | 8.13 | 51.10 | 10.30 | -3,979.64 | -1,044.59 | 3,853.44 | 3,794.65 | 58.79 | 65.549 | |
| 1,700.00 | 1,666.24 | 1,607.24 | 1,666.24 | 8.62 | 54.46 | 10.37 | -3,979.64 | -1,044.59 | 3,828.11 | 3,765.53 | 62.58 | 61.170 | |
| 1,800.00 | 1,762.88 | 1,703.88 | 1,762.88 | 9.12 | 57.83 | 10.44 | -3,979.64 | -1,044.59 | 3,802.79 | 3,736.41 | 66.38 | 57.286 | |
| 1,900.00 | 1,859.52 | 1,800.52 | 1,859.52 | 9.62 | 61.20 | 10.51 | -3,979.64 | -1,044.59 | 3,777.48 | 3,707.29 | 70.19 | 53.818 | |
| 2,000.00 | 1,956.16 | 1,902.84 | 1,956.16 | 10.13 | 64.77 | 10.58 | -3,979.64 | -1,044.59 | 3,752.17 | 3,677.98 | 74.20 | 50.569 | |
| 2,100.00 | 2,052.79 | 2,006.21 | 2,052.79 | 10.64 | 68.37 | 10.66 | -3,979.64 | -1,044.59 | 3,726.87 | 3,648.62 | 78.25 | 47.629 | |
| 2,200.00 | 2,149.43 | 2,109.57 | 2,149.43 | 11.15 | 71.97 | 10.73 | -3,979.64 | -1,044.59 | 3,701.58 | 3,619.28 | 82.30 | 44.976 | |
| 2,300.00 | 2,246.07 | 2,187.07 | 2,246.07 | 11.66 | 74.68 | 10.80 | -3,979.64 | -1,044.59 | 3,676.29 | 3,590.83 | 85.46 | 43.020 | |
| 2,400.00 | 2,342.71 | 2,283.71 | 2,342.71 | 12.18 | 78.05 | 10.88 | -3,979.64 | -1,044.59 | 3,651.00 | 3,561.72 | 89.28 | 40.894 | |
| 2,500.00 | 2,439.34 | 2,380.34 | 2,439.34 | 12.70 | 81.42 | 10.96 | -3,979.64 | -1,044.59 | 3,625.72 | 3,532.62 | 93.11 | 38.941 | |
| 2,600.00 | 2,535.98 | 2,476.98 | 2,535.98 | 13.22 | 84.79 | 11.03 | -3,979.64 | -1,044.59 | 3,600.45 | 3,503.52 | 96.94 | 37.143 | |
| 2,700.00 | 2,632.62 | 2,573.62 | 2,632.62 | 13.75 | 88.16 | 11.11 | -3,979.64 | -1,044.59 | 3,575.19 | 3,474.42 | 100.77 | 35.480 | |
| 2,800.00 | 2,729.26 | 2,670.26 | 2,729.26 | 14.27 | 91.53 | 11.19 | -3,979.64 | -1,044.59 | 3,549.93 | 3,445.33 | 104.60 | 33.938 | |
| 2,900.00 | 2,825.89 | 2,766.89 | 2,825.89 | 14.80 | 94.90 | 11.27 | -3,979.64 | -1,044.59 | 3,524.67 | 3,416.24 | 108.43 | 32.506 | |
| 3,000.00 | 2,922.53 | 2,863.53 | 2,922.53 | 15.32 | 98.28 | 11.36 | -3,979.64 | -1,044.59 | 3,499.43 | 3,387.16 | 112.27 | 31.170 | |
| 3,100.00 | 3,019.17 | 2,960.17 | 3,019.17 | 15.85 | 101.65 | 11.44 | -3,979.64 | -1,044.59 | 3,474.19 | 3,358.08 | 116.11 | 29.923 | |
| 3,200.00 | 3,115.81 | 3,056.81 | 3,115.81 | 16.38 | 105.02 | 11.52 | -3,979.64 | -1,044.59 | 3,448.96 | 3,329.01 | 119.94 | 28.755 | |
| 3,300.00 | 3,212.44 | 3,153.44 | 3,212.44 | 16.91 | 108.39 | 11.61 | -3,979.64 | -1,044.59 | 3,423.73 | 3,299.95 | 123.78 | 27.659 | |
| 3,400.00 | 3,309.08 | 3,250.08 | 3,309.08 | 17.44 | 111.76 | 11.70 | -3,979.64 | -1,044.59 | 3,398.51 | 3,270.89 | 127.62 | 26.630 | |
| 3,500.00 | 3,405.72 | 3,346.72 | 3,405.72 | 17.97 | 115.14 | 11.79 | -3,979.64 | -1,044.59 | 3,373.30 | 3,241.84 | 131.46 | 25.660 | |
| 3,600.00 | 3,502.36 | 3,443.36 | 3,502.36 | 18.50 | 118.51 | 11.88 | -3,979.64 | -1,044.59 | 3,348.10 | 3,212.80 | 135.30 | 24.745 | |
| 3,700.00 | 3,598.99 | 3,539.99 | 3,598.99 | 19.03 | 121.88 | 11.97 | -3,979.64 | -1,044.59 | 3,322.91 | 3,183.76 | 139.15 | 23.881 | |
| 3,800.00 | 3,695.63 | 3,636.63 | 3,695.63 | 19.57 | 125.25 | 12.06 | -3,979.64 | -1,044.59 | 3,297.72 | 3,154.73 | 142.99 | 23.063 | |
| 3,900.00 | 3,792.27 | 3,733.27 | 3,792.27 | 20.10 | 128.62 | 12.15 | -3,979.64 | -1,044.59 | 3,272.54 | 3,125.71 | 146.83 | 22.287 | |
| 4,000.00 | 3,888.91 | 3,829.91 | 3,888.91 | 20.63 | 132.00 | 12.25 | -3,979.64 | -1,044.59 | 3,247.37 | 3,096.69 | 150.68 | 21.552 | |
| 4,100.00 | 3,985.54 | 3,926.54 | 3,985.54 | 21.17 | 135.37 | 12.35 | -3,979.64 | -1,044.59 | 3,222.21 | 3,067.68 | 154.52 | 20.852 | |
| 4,200.00 | 4,082.18 | 4,023.18 | 4,082.18 | 21.70 | 138.74 | 12.44 | -3,979.64 | -1,044.59 | 3,197.06 | 3,038.69 | 158.37 | 20.187 | |
| 4,300.00 | 4,178.82 | 4,119.82 | 4,178.82 | 22.24 | 142.12 | 12.54 | -3,979.64 | -1,044.59 | 3,171.91 | 3,009.70 | 162.22 | 19.554 | |
| 4,400.00 | 4,275.46 | 4,216.46 | 4,275.46 | 22.77 | 145.49 | 12.65 | -3,979.64 | -1,044.59 | 3,146.78 | 2,980.71 | 166.06 | 18.949 | |
| 4,500.00 | 4,372.09 | 4,313.09 | 4,372.09 | 23.31 | 148.86 | 12.75 | -3,979.64 | -1,044.59 | 3,121.65 | 2,951.74 | 169.91 | 18.372 | |
| 4,600.00 | 4,468.73 | 4,409.73 | 4,468.73 | 23.84 | 152.23 | 12.85 | -3,979.64 | -1,044.59 | 3,096.54 | 2,922.78 | 173.76 | 17.821 | |
| 4,700.00 | 4,565.37 | 4,506.37 | 4,565.37 | 24.38 | 155.61 | 12.96 | -3,979.64 | -1,044.59 | 3,071.43 | 2,893.82 | 177.61 | 17.293 | |
| 4,800.00 | 4,662.01 | 4,603.01 | 4,662.01 | 24.91 | 158.98 | 13.07 | -3,979.64 | -1,044.59 | 3,046.34 | 2,864.88 | 181.46 | 16.788 | |
| 4,900.00 | 4,758.64 | 4,700.36 | 4,758.64 | 25.45 | 162.38 | 13.18 | -3,979.64 | -1,044.59 | 3,021.25 | 2,835.92 | 185.33 | 16.302 | |
| 5,000.00 | 4,855.28 | 4,803.72 | 4,855.28 | 25.99 | 165.99 | 13.29 | -3,979.64 | -1,044.59 | 2,996.18 | 2,806.76 | 189.42 | 15.818 | |
| 5,100.00 | 4,951.92 | 4,907.08 | 4,951.92 | 26.53 | 169.59 | 13.40 | -3,979.64 | -1,044.59 | 2,971.11 | 2,777.61 | 193.50 | 15.355 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - RUTT-ADAMS HEIRS 2-22 - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,989.56 | 5,048.56 | 27.06 | 172.47 | 13.52 | -3,979.64 | -1,044.59 | 2,946.06 | 2,749.20 | 196.86 | 14.965 | | |
| 5,300.00 | 5,145.19 | 5,086.19 | 5,145.19 | 27.60 | 175.84 | 13.64 | -3,979.64 | -1,044.59 | 2,921.02 | 2,720.31 | 200.71 | 14.554 | | |
| 5,400.00 | 5,241.83 | 5,182.83 | 5,241.83 | 28.14 | 179.22 | 13.76 | -3,979.64 | -1,044.59 | 2,895.99 | 2,691.43 | 204.56 | 14.157 | | |
| 5,500.00 | 5,338.47 | 5,279.47 | 5,338.47 | 28.67 | 182.59 | 13.88 | -3,979.64 | -1,044.59 | 2,870.97 | 2,662.56 | 208.41 | 13.775 | | |
| 5,600.00 | 5,435.11 | 5,376.11 | 5,435.11 | 29.21 | 185.96 | 14.00 | -3,979.64 | -1,044.59 | 2,845.97 | 2,633.70 | 212.26 | 13.408 | | |
| 5,700.00 | 5,531.74 | 5,472.74 | 5,531.74 | 29.75 | 189.34 | 14.13 | -3,979.64 | -1,044.59 | 2,820.98 | 2,604.86 | 216.12 | 13.053 | | |
| 5,800.00 | 5,628.38 | 5,569.38 | 5,628.38 | 30.29 | 192.71 | 14.26 | -3,979.64 | -1,044.59 | 2,796.00 | 2,576.03 | 219.97 | 12.711 | | |
| 5,900.00 | 5,725.02 | 5,666.02 | 5,725.02 | 30.83 | 196.08 | 14.39 | -3,979.64 | -1,044.59 | 2,771.03 | 2,547.21 | 223.82 | 12.380 | | |
| 6,000.00 | 5,821.66 | 5,762.66 | 5,821.66 | 31.37 | 199.46 | 14.52 | -3,979.64 | -1,044.59 | 2,746.08 | 2,518.40 | 227.68 | 12.061 | | |
| 6,100.00 | 5,918.29 | 5,859.29 | 5,918.29 | 31.90 | 202.83 | 14.66 | -3,979.64 | -1,044.59 | 2,721.14 | 2,489.61 | 231.53 | 11.753 | | |
| 6,200.00 | 6,014.93 | 5,955.93 | 6,014.93 | 32.44 | 206.20 | 14.79 | -3,979.64 | -1,044.59 | 2,696.22 | 2,460.83 | 235.39 | 11.454 | | |
| 6,300.00 | 6,111.57 | 6,052.57 | 6,111.57 | 32.98 | 209.58 | 14.93 | -3,979.64 | -1,044.59 | 2,671.31 | 2,432.07 | 239.24 | 11.166 | | |
| 6,400.00 | 6,208.21 | 6,149.21 | 6,208.21 | 33.52 | 212.95 | 15.08 | -3,979.64 | -1,044.59 | 2,646.42 | 2,403.32 | 243.10 | 10.886 | | |
| 6,500.00 | 6,304.84 | 6,245.84 | 6,304.84 | 34.06 | 216.32 | 15.22 | -3,979.64 | -1,044.59 | 2,621.55 | 2,374.59 | 246.96 | 10.615 | | |
| 6,600.00 | 6,401.37 | 6,342.37 | 6,401.37 | 34.60 | 219.69 | -2.59 | -3,979.64 | -1,044.59 | 2,595.95 | 2,345.14 | 250.81 | 10.350 | | |
| 6,700.00 | 6,496.25 | 6,437.25 | 6,496.25 | 35.12 | 223.00 | -27.97 | -3,979.64 | -1,044.59 | 2,565.90 | 2,311.33 | 254.57 | 10.079 | | |
| 6,800.00 | 6,587.15 | 6,528.15 | 6,587.15 | 35.59 | 226.18 | -44.07 | -3,979.64 | -1,044.59 | 2,531.69 | 2,273.54 | 258.15 | 9.807 | | |
| 6,900.00 | 6,671.83 | 6,612.83 | 6,671.83 | 36.03 | 229.13 | -55.49 | -3,979.64 | -1,044.59 | 2,494.55 | 2,233.08 | 261.47 | 9.541 | | |
| 7,000.00 | 6,748.21 | 6,689.21 | 6,748.21 | 36.41 | 231.80 | -64.58 | -3,979.64 | -1,044.59 | 2,456.03 | 2,191.55 | 264.48 | 9.286 | | |
| 7,100.00 | 6,814.41 | 6,755.41 | 6,814.41 | 36.76 | 234.11 | -72.20 | -3,979.64 | -1,044.59 | 2,417.90 | 2,150.75 | 267.15 | 9.051 | | |
| 7,200.00 | 6,868.79 | 6,809.79 | 6,868.79 | 37.07 | 236.01 | -78.57 | -3,979.64 | -1,044.59 | 2,382.06 | 2,112.58 | 269.49 | 8.839 | | |
| 7,300.00 | 6,910.01 | 6,851.01 | 6,910.01 | 37.39 | 237.45 | -83.64 | -3,979.64 | -1,044.59 | 2,350.38 | 2,078.87 | 271.51 | 8.657 | | |
| 7,400.00 | 6,937.07 | 6,878.07 | 6,937.07 | 37.76 | 238.39 | -87.34 | -3,979.64 | -1,044.59 | 2,324.53 | 2,051.28 | 273.25 | 8.507 | | |
| 7,500.00 | 6,949.29 | 6,909.71 | 6,949.29 | 38.27 | 239.50 | -89.60 | -3,979.64 | -1,044.59 | 2,305.86 | 2,030.48 | 275.38 | 8.373 | | |
| 7,600.00 | 6,949.75 | 6,909.25 | 6,949.75 | 39.02 | 239.48 | -90.02 | -3,979.64 | -1,044.59 | 2,294.35 | 2,017.73 | 276.62 | 8.294 | | |
| 7,700.00 | 6,949.37 | 6,909.63 | 6,949.37 | 40.05 | 239.49 | -90.01 | -3,979.64 | -1,044.59 | 2,287.38 | 2,009.26 | 278.12 | 8.224 | | |
| 7,800.00 | 6,948.99 | 6,889.99 | 6,948.99 | 41.35 | 238.81 | -90.00 | -3,979.64 | -1,044.59 | 2,284.77 | 2,005.66 | 279.12 | 8.186 | | |
| 7,809.64 | 6,948.95 | 6,889.95 | 6,948.95 | 41.49 | 238.81 | -90.00 | -3,979.64 | -1,044.59 | 2,284.75 | 2,005.46 | 279.30 | 8.180 CC, ES | | |
| 7,900.00 | 6,948.61 | 6,889.61 | 6,948.61 | 42.86 | 238.79 | -89.99 | -3,979.64 | -1,044.59 | 2,286.54 | 2,005.60 | 280.94 | 8.139 | | |
| 8,000.00 | 6,948.23 | 6,889.23 | 6,948.23 | 44.53 | 238.78 | -89.98 | -3,979.64 | -1,044.59 | 2,292.67 | 2,009.79 | 282.88 | 8.105 | | |
| 8,100.00 | 6,947.85 | 6,888.85 | 6,947.85 | 46.34 | 238.77 | -89.97 | -3,979.64 | -1,044.59 | 2,303.13 | 2,018.23 | 284.90 | 8.084 | | |
| 8,200.00 | 6,947.47 | 6,888.47 | 6,947.47 | 48.26 | 238.75 | -89.96 | -3,979.64 | -1,044.59 | 2,317.86 | 2,030.91 | 286.96 | 8.077 SF | | |
| 8,300.00 | 6,947.09 | 6,888.09 | 6,947.09 | 50.28 | 238.74 | -89.95 | -3,979.64 | -1,044.59 | 2,336.78 | 2,047.76 | 289.02 | 8.085 | | |
| 8,400.00 | 6,946.72 | 6,887.72 | 6,946.72 | 52.39 | 238.73 | -89.94 | -3,979.64 | -1,044.59 | 2,359.79 | 2,068.72 | 291.08 | 8.107 | | |
| 8,500.00 | 6,946.34 | 6,887.34 | 6,946.34 | 54.56 | 238.71 | -89.93 | -3,979.64 | -1,044.59 | 2,386.78 | 2,093.68 | 293.09 | 8.143 | | |
| 8,600.00 | 6,945.96 | 6,886.96 | 6,945.96 | 56.80 | 238.70 | -89.92 | -3,979.64 | -1,044.59 | 2,417.59 | 2,122.55 | 295.05 | 8.194 | | |
| 8,700.00 | 6,945.58 | 6,886.58 | 6,945.58 | 59.10 | 238.69 | -89.92 | -3,979.64 | -1,044.59 | 2,452.11 | 2,155.17 | 296.94 | 8.258 | | |
| 8,800.00 | 6,945.20 | 6,886.20 | 6,945.20 | 61.44 | 238.67 | -89.91 | -3,979.64 | -1,044.59 | 2,490.16 | 2,191.42 | 298.75 | 8.335 | | |
| 8,900.00 | 6,944.82 | 6,885.82 | 6,944.82 | 63.83 | 238.66 | -89.90 | -3,979.64 | -1,044.59 | 2,531.60 | 2,231.13 | 300.47 | 8.426 | | |
| 9,000.00 | 6,944.44 | 6,885.44 | 6,944.44 | 66.25 | 238.65 | -89.89 | -3,979.64 | -1,044.59 | 2,576.25 | 2,274.15 | 302.09 | 8.528 | | |
| 9,100.00 | 6,944.06 | 6,885.06 | 6,944.06 | 68.71 | 238.63 | -89.88 | -3,979.64 | -1,044.59 | 2,623.95 | 2,320.32 | 303.63 | 8.642 | | |
| 9,200.00 | 6,943.68 | 6,884.68 | 6,943.68 | 71.20 | 238.62 | -89.87 | -3,979.64 | -1,044.59 | 2,674.54 | 2,369.48 | 305.06 | 8.767 | | |
| 9,300.00 | 6,943.30 | 6,884.30 | 6,943.30 | 73.72 | 238.61 | -89.86 | -3,979.64 | -1,044.59 | 2,727.87 | 2,421.46 | 306.41 | 8.903 | | |
| 9,400.00 | 6,942.92 | 6,883.92 | 6,942.92 | 76.26 | 238.60 | -89.85 | -3,979.64 | -1,044.59 | 2,783.76 | 2,476.10 | 307.66 | 9.048 | | |
| 9,500.00 | 6,942.54 | 6,883.54 | 6,942.54 | 78.82 | 238.58 | -89.84 | -3,979.64 | -1,044.59 | 2,842.07 | 2,533.25 | 308.82 | 9.203 | | |
| 9,600.00 | 6,942.16 | 6,883.16 | 6,942.16 | 81.40 | 238.57 | -89.83 | -3,979.64 | -1,044.59 | 2,902.66 | 2,592.76 | 309.90 | 9.366 | | |
| 9,700.00 | 6,941.78 | 6,882.78 | 6,941.78 | 84.00 | 238.56 | -89.82 | -3,979.64 | -1,044.59 | 2,965.39 | 2,654.48 | 310.90 | 9.538 | | |
| 9,800.00 | 6,941.40 | 6,882.40 | 6,941.40 | 86.62 | 238.54 | -89.81 | -3,979.64 | -1,044.59 | 3,030.11 | 2,718.28 | 311.83 | 9.717 | | |
| 9,900.00 | 6,941.03 | 6,882.03 | 6,941.03 | 89.25 | 238.53 | -89.80 | -3,979.64 | -1,044.59 | 3,096.72 | 2,784.03 | 312.68 | 9.904 | | |
| 10,000.00 | 6,940.65 | 6,881.65 | 6,940.65 | 91.90 | 238.52 | -89.79 | -3,979.64 | -1,044.59 | 3,165.08 | 2,851.61 | 313.47 | 10.097 | | |
| 10,100.00 | 6,940.27 | 6,881.27 | 6,940.27 | 94.56 | 238.50 | -89.78 | -3,979.64 | -1,044.59 | 3,235.09 | 2,920.89 | 314.19 | 10.296 | | |
| 10,200.00 | 6,939.89 | 6,880.89 | 6,939.89 | 97.23 | 238.49 | -89.77 | -3,979.64 | -1,044.59 | 3,306.64 | 2,991.78 | 314.86 | 10.502 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - RUTT-ADAMS HEIRS 2-22 - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,880.51 | 6,939.51 | 99.91 | 238.48 | -89.76 | -3,979.64 | -1,044.59 | 3,379.63 | 3,064.16 | 315.48 | 10.713 | | |
| 10,400.00 | 6,939.13 | 6,880.13 | 6,939.13 | 102.60 | 238.46 | -89.75 | -3,979.64 | -1,044.59 | 3,453.98 | 3,137.94 | 316.04 | 10.929 | | |
| 10,500.00 | 6,938.75 | 6,879.75 | 6,938.75 | 105.30 | 238.45 | -89.74 | -3,979.64 | -1,044.59 | 3,529.60 | 3,213.03 | 316.56 | 11.150 | | |
| 10,600.00 | 6,938.37 | 6,879.37 | 6,938.37 | 108.00 | 238.44 | -89.73 | -3,979.64 | -1,044.59 | 3,606.40 | 3,289.36 | 317.04 | 11.375 | | |
| 10,700.00 | 6,937.99 | 6,878.99 | 6,937.99 | 110.72 | 238.42 | -89.73 | -3,979.64 | -1,044.59 | 3,684.31 | 3,366.83 | 317.48 | 11.605 | | |
| 10,800.00 | 6,937.61 | 6,878.61 | 6,937.61 | 113.44 | 238.41 | -89.72 | -3,979.64 | -1,044.59 | 3,763.27 | 3,445.39 | 317.89 | 11.838 | | |
| 10,900.00 | 6,937.23 | 6,878.23 | 6,937.23 | 116.17 | 238.40 | -89.71 | -3,979.64 | -1,044.59 | 3,843.21 | 3,524.95 | 318.26 | 12.076 | | |
| 11,000.00 | 6,936.85 | 6,877.85 | 6,936.85 | 118.90 | 238.38 | -89.70 | -3,979.64 | -1,044.59 | 3,924.07 | 3,605.47 | 318.61 | 12.316 | | |
| 11,100.00 | 6,936.47 | 6,877.47 | 6,936.47 | 121.64 | 238.37 | -89.69 | -3,979.64 | -1,044.59 | 4,005.80 | 3,686.88 | 318.92 | 12.560 | | |
| 11,200.00 | 6,936.09 | 6,877.09 | 6,936.09 | 124.39 | 238.36 | -89.68 | -3,979.64 | -1,044.59 | 4,088.34 | 3,769.12 | 319.21 | 12.808 | | |
| 11,300.00 | 6,935.71 | 6,876.71 | 6,935.71 | 127.14 | 238.34 | -89.67 | -3,979.64 | -1,044.59 | 4,171.64 | 3,852.15 | 319.48 | 13.057 | | |
| 11,400.00 | 6,935.34 | 6,876.34 | 6,935.34 | 129.90 | 238.33 | -89.66 | -3,979.64 | -1,044.59 | 4,255.66 | 3,935.93 | 319.73 | 13.310 | | |
| 11,500.00 | 6,934.96 | 6,875.96 | 6,934.96 | 132.66 | 238.32 | -89.65 | -3,979.64 | -1,044.59 | 4,340.35 | 4,020.40 | 319.96 | 13.565 | | |
| 11,600.00 | 6,934.58 | 6,875.58 | 6,934.58 | 135.42 | 238.30 | -89.64 | -3,979.64 | -1,044.59 | 4,425.69 | 4,105.52 | 320.17 | 13.823 | | |
| 11,700.00 | 6,934.20 | 6,875.20 | 6,934.20 | 138.19 | 238.29 | -89.63 | -3,979.64 | -1,044.59 | 4,511.63 | 4,191.27 | 320.36 | 14.083 | | |
| 11,800.00 | 6,933.82 | 6,874.82 | 6,933.82 | 140.96 | 238.28 | -89.62 | -3,979.64 | -1,044.59 | 4,598.14 | 4,277.60 | 320.54 | 14.345 | | |
| 11,900.00 | 6,933.44 | 6,874.44 | 6,933.44 | 143.74 | 238.26 | -89.61 | -3,979.64 | -1,044.59 | 4,685.18 | 4,364.47 | 320.71 | 14.609 | | |
| 12,000.00 | 6,933.06 | 6,874.06 | 6,933.06 | 146.51 | 238.25 | -89.60 | -3,979.64 | -1,044.59 | 4,772.73 | 4,451.87 | 320.86 | 14.875 | | |
| 12,100.00 | 6,932.68 | 6,873.68 | 6,932.68 | 149.30 | 238.24 | -89.59 | -3,979.64 | -1,044.59 | 4,860.77 | 4,539.76 | 321.00 | 15.143 | | |
| 12,200.00 | 6,932.30 | 6,873.30 | 6,932.30 | 152.08 | 238.22 | -89.58 | -3,979.64 | -1,044.59 | 4,949.25 | 4,628.12 | 321.13 | 15.412 | | |
| 12,300.00 | 6,931.92 | 6,872.92 | 6,931.92 | 154.87 | 238.21 | -89.57 | -3,979.64 | -1,044.59 | 5,038.17 | 4,716.92 | 321.25 | 15.683 | | |
| 12,400.00 | 6,931.54 | 6,872.54 | 6,931.54 | 157.66 | 238.20 | -89.56 | -3,979.64 | -1,044.59 | 5,127.50 | 4,806.13 | 321.37 | 15.955 | | |
| 12,500.00 | 6,931.16 | 6,872.16 | 6,931.16 | 160.45 | 238.18 | -89.55 | -3,979.64 | -1,044.59 | 5,217.21 | 4,895.74 | 321.47 | 16.229 | | |
| 12,600.00 | 6,930.78 | 6,871.78 | 6,930.78 | 163.24 | 238.17 | -89.54 | -3,979.64 | -1,044.59 | 5,307.29 | 4,985.72 | 321.57 | 16.504 | | |
| 12,700.00 | 6,930.40 | 6,871.40 | 6,930.40 | 166.04 | 238.16 | -89.53 | -3,979.64 | -1,044.59 | 5,397.72 | 5,076.06 | 321.66 | 16.781 | | |
| 12,800.00 | 6,930.03 | 6,871.03 | 6,930.03 | 168.84 | 238.15 | -89.53 | -3,979.64 | -1,044.59 | 5,488.48 | 5,166.74 | 321.74 | 17.059 | | |
| 12,900.00 | 6,929.65 | 6,870.65 | 6,929.65 | 171.64 | 238.13 | -89.52 | -3,979.64 | -1,044.59 | 5,579.56 | 5,257.74 | 321.82 | 17.338 | | |
| 13,000.00 | 6,929.27 | 6,870.27 | 6,929.27 | 174.44 | 238.12 | -89.51 | -3,979.64 | -1,044.59 | 5,670.94 | 5,349.05 | 321.89 | 17.618 | | |
| 13,100.00 | 6,928.89 | 6,869.89 | 6,928.89 | 177.24 | 238.11 | -89.50 | -3,979.64 | -1,044.59 | 5,762.61 | 5,440.65 | 321.96 | 17.899 | | |
| 13,200.00 | 6,928.51 | 6,869.51 | 6,928.51 | 180.05 | 238.09 | -89.49 | -3,979.64 | -1,044.59 | 5,854.54 | 5,532.52 | 322.02 | 18.181 | | |
| 13,300.00 | 6,928.13 | 6,869.13 | 6,928.13 | 182.86 | 238.08 | -89.48 | -3,979.64 | -1,044.59 | 5,946.74 | 5,624.66 | 322.08 | 18.464 | | |
| 13,400.00 | 6,927.75 | 6,868.75 | 6,927.75 | 185.67 | 238.07 | -89.47 | -3,979.64 | -1,044.59 | 6,039.19 | 5,717.06 | 322.13 | 18.748 | | |
| 13,500.00 | 6,927.37 | 6,868.37 | 6,927.37 | 188.48 | 238.05 | -89.46 | -3,979.64 | -1,044.59 | 6,131.87 | 5,809.69 | 322.18 | 19.032 | | |
| 13,600.00 | 6,926.99 | 6,867.99 | 6,926.99 | 191.29 | 238.04 | -89.45 | -3,979.64 | -1,044.59 | 6,224.78 | 5,902.55 | 322.23 | 19.318 | | |
| 13,700.00 | 6,926.61 | 6,867.61 | 6,926.61 | 194.10 | 238.03 | -89.44 | -3,979.64 | -1,044.59 | 6,317.91 | 5,995.63 | 322.28 | 19.604 | | |
| 13,800.00 | 6,926.23 | 6,867.23 | 6,926.23 | 196.92 | 238.01 | -89.43 | -3,979.64 | -1,044.59 | 6,411.24 | 6,088.92 | 322.32 | 19.891 | | |
| 13,900.00 | 6,925.85 | 6,866.85 | 6,925.85 | 199.73 | 238.00 | -89.42 | -3,979.64 | -1,044.59 | 6,504.77 | 6,182.41 | 322.36 | 20.179 | | |
| 14,000.00 | 6,925.47 | 6,866.47 | 6,925.47 | 202.55 | 237.99 | -89.41 | -3,979.64 | -1,044.59 | 6,598.49 | 6,276.10 | 322.40 | 20.467 | | |
| 14,100.00 | 6,925.09 | 6,866.09 | 6,925.09 | 205.37 | 237.97 | -89.40 | -3,979.64 | -1,044.59 | 6,692.40 | 6,369.96 | 322.43 | 20.756 | | |
| 14,200.00 | 6,924.71 | 6,865.71 | 6,924.71 | 208.19 | 237.96 | -89.39 | -3,979.64 | -1,044.59 | 6,786.47 | 6,464.01 | 322.47 | 21.045 | | |
| 14,300.00 | 6,924.34 | 6,865.34 | 6,924.34 | 211.01 | 237.95 | -89.38 | -3,979.64 | -1,044.59 | 6,880.72 | 6,558.22 | 322.50 | 21.336 | | |
| 14,400.00 | 6,923.96 | 6,864.96 | 6,923.96 | 213.83 | 237.93 | -89.37 | -3,979.64 | -1,044.59 | 6,975.12 | 6,652.59 | 322.53 | 21.626 | | |
| 14,500.00 | 6,923.58 | 6,864.58 | 6,923.58 | 216.65 | 237.92 | -89.36 | -3,979.64 | -1,044.59 | 7,069.68 | 6,747.12 | 322.56 | 21.918 | | |
| 14,600.00 | 6,923.20 | 6,864.20 | 6,923.20 | 219.48 | 237.91 | -89.35 | -3,979.64 | -1,044.59 | 7,164.39 | 6,841.80 | 322.59 | 22.209 | | |
| 14,700.00 | 6,922.82 | 6,863.82 | 6,922.82 | 222.30 | 237.89 | -89.34 | -3,979.64 | -1,044.59 | 7,259.24 | 6,936.62 | 322.61 | 22.501 | | |
| 14,800.00 | 6,922.44 | 6,863.44 | 6,922.44 | 225.13 | 237.88 | -89.34 | -3,979.64 | -1,044.59 | 7,354.22 | 7,031.58 | 322.64 | 22.794 | | |
| 14,900.00 | 6,922.06 | 6,863.06 | 6,922.06 | 227.95 | 237.87 | -89.33 | -3,979.64 | -1,044.59 | 7,449.34 | 7,126.67 | 322.66 | 23.087 | | |
| 14,915.55 | 6,922.00 | 6,863.00 | 6,922.00 | 228.39 | 237.86 | -89.32 | -3,979.64 | -1,044.59 | 7,464.14 | 7,141.47 | 322.67 | 23.133 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-21(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 4.00 | 0.00 | 3.28 | 3.28 | -39.44 | 1,410.99 | -1,160.61 | 1,826.99 | | | | | |
| 100.00 | 100.00 | 104.00 | 100.00 | 3.28 | 3.78 | -39.44 | 1,410.99 | -1,160.61 | 1,826.99 | 1,819.93 | 7.07 | 258.494 | | |
| 200.00 | 200.00 | 204.00 | 200.00 | 3.34 | 6.30 | -39.44 | 1,410.99 | -1,160.61 | 1,826.99 | 1,817.36 | 9.63 | 189.625 CC | | |
| 300.00 | 299.98 | 304.02 | 299.98 | 3.44 | 9.46 | 135.20 | 1,410.99 | -1,160.61 | 1,828.23 | 1,815.34 | 12.89 | 141.781 ES | | |
| 400.00 | 399.84 | 404.16 | 399.84 | 3.59 | 12.79 | 135.26 | 1,410.99 | -1,160.61 | 1,831.95 | 1,815.57 | 16.38 | 111.828 | | |
| 500.00 | 499.45 | 504.55 | 499.45 | 3.79 | 16.20 | 135.37 | 1,410.99 | -1,160.61 | 1,838.16 | 1,818.17 | 19.99 | 91.939 | | |
| 600.00 | 598.70 | 605.30 | 598.70 | 4.03 | 19.66 | 135.51 | 1,410.99 | -1,160.61 | 1,846.87 | 1,823.18 | 23.69 | 77.950 | | |
| 700.00 | 697.47 | 706.53 | 697.47 | 4.31 | 23.15 | 135.69 | 1,410.99 | -1,160.61 | 1,858.12 | 1,830.65 | 27.47 | 67.650 | | |
| 800.00 | 795.62 | 808.38 | 795.62 | 4.64 | 26.68 | 135.90 | 1,410.99 | -1,160.61 | 1,871.92 | 1,840.61 | 31.31 | 59.793 | | |
| 900.00 | 893.06 | 899.06 | 893.06 | 5.00 | 29.47 | 136.14 | 1,410.99 | -1,160.61 | 1,888.31 | 1,853.86 | 34.45 | 54.811 | | |
| 1,000.00 | 989.78 | 985.78 | 989.78 | 5.39 | 32.83 | 136.54 | 1,410.99 | -1,160.61 | 1,906.94 | 1,868.76 | 38.18 | 49.943 | | |
| 1,100.00 | 1,086.42 | 1,082.42 | 1,086.42 | 5.81 | 36.19 | 137.06 | 1,410.99 | -1,160.61 | 1,925.98 | 1,884.05 | 41.93 | 45.934 | | |
| 1,200.00 | 1,183.06 | 1,179.06 | 1,183.06 | 6.25 | 39.55 | 137.57 | 1,410.99 | -1,160.61 | 1,945.18 | 1,899.49 | 45.69 | 42.569 | | |
| 1,300.00 | 1,279.69 | 1,275.69 | 1,279.69 | 6.71 | 42.91 | 138.07 | 1,410.99 | -1,160.61 | 1,964.52 | 1,915.05 | 49.48 | 39.707 | | |
| 1,400.00 | 1,376.33 | 1,372.33 | 1,376.33 | 7.17 | 46.28 | 138.56 | 1,410.99 | -1,160.61 | 1,984.01 | 1,930.75 | 53.27 | 37.246 | | |
| 1,500.00 | 1,472.97 | 1,468.97 | 1,472.97 | 7.65 | 49.64 | 139.04 | 1,410.99 | -1,160.61 | 2,003.64 | 1,946.57 | 57.07 | 35.109 | | |
| 1,600.00 | 1,569.61 | 1,565.61 | 1,569.61 | 8.13 | 53.01 | 139.51 | 1,410.99 | -1,160.61 | 2,023.41 | 1,962.53 | 60.88 | 33.236 | | |
| 1,700.00 | 1,666.24 | 1,662.24 | 1,666.24 | 8.62 | 56.38 | 139.97 | 1,410.99 | -1,160.61 | 2,043.31 | 1,978.61 | 64.70 | 31.583 | | |
| 1,800.00 | 1,762.88 | 1,758.88 | 1,762.88 | 9.12 | 59.75 | 140.42 | 1,410.99 | -1,160.61 | 2,063.34 | 1,994.82 | 68.52 | 30.113 | | |
| 1,900.00 | 1,859.52 | 1,855.52 | 1,859.52 | 9.62 | 63.12 | 140.87 | 1,410.99 | -1,160.61 | 2,083.49 | 2,011.14 | 72.35 | 28.799 | | |
| 2,000.00 | 1,956.16 | 1,952.16 | 1,956.16 | 10.13 | 66.49 | 141.30 | 1,410.99 | -1,160.61 | 2,103.76 | 2,027.59 | 76.18 | 27.617 | | |
| 2,100.00 | 2,052.79 | 2,048.79 | 2,052.79 | 10.64 | 69.86 | 141.73 | 1,410.99 | -1,160.61 | 2,124.15 | 2,044.14 | 80.01 | 26.549 | | |
| 2,200.00 | 2,149.43 | 2,145.43 | 2,149.43 | 11.15 | 73.23 | 142.15 | 1,410.99 | -1,160.61 | 2,144.66 | 2,060.81 | 83.84 | 25.579 | | |
| 2,300.00 | 2,246.07 | 2,242.07 | 2,246.07 | 11.66 | 76.60 | 142.56 | 1,410.99 | -1,160.61 | 2,165.28 | 2,077.59 | 87.68 | 24.694 | | |
| 2,400.00 | 2,342.71 | 2,338.71 | 2,342.71 | 12.18 | 79.97 | 142.97 | 1,410.99 | -1,160.61 | 2,186.00 | 2,094.48 | 91.52 | 23.885 | | |
| 2,500.00 | 2,439.34 | 2,435.34 | 2,439.34 | 12.70 | 83.34 | 143.36 | 1,410.99 | -1,160.61 | 2,206.83 | 2,111.47 | 95.36 | 23.141 | | |
| 2,600.00 | 2,535.98 | 2,531.98 | 2,535.98 | 13.22 | 86.71 | 143.75 | 1,410.99 | -1,160.61 | 2,227.76 | 2,128.56 | 99.21 | 22.456 | | |
| 2,700.00 | 2,632.62 | 2,628.62 | 2,632.62 | 13.75 | 90.08 | 144.14 | 1,410.99 | -1,160.61 | 2,248.79 | 2,145.74 | 103.05 | 21.822 | | |
| 2,800.00 | 2,729.26 | 2,725.26 | 2,729.26 | 14.27 | 93.45 | 144.51 | 1,410.99 | -1,160.61 | 2,269.92 | 2,163.03 | 106.90 | 21.235 | | |
| 2,900.00 | 2,825.89 | 2,821.89 | 2,825.89 | 14.80 | 96.82 | 144.88 | 1,410.99 | -1,160.61 | 2,291.14 | 2,180.40 | 110.74 | 20.689 | | |
| 3,000.00 | 2,922.53 | 2,918.53 | 2,922.53 | 15.32 | 100.19 | 145.25 | 1,410.99 | -1,160.61 | 2,312.46 | 2,197.87 | 114.59 | 20.181 | | |
| 3,100.00 | 3,019.17 | 3,015.17 | 3,019.17 | 15.85 | 103.57 | 145.60 | 1,410.99 | -1,160.61 | 2,333.86 | 2,215.42 | 118.43 | 19.706 | | |
| 3,200.00 | 3,115.81 | 3,111.81 | 3,115.81 | 16.38 | 106.94 | 145.95 | 1,410.99 | -1,160.61 | 2,355.34 | 2,233.06 | 122.28 | 19.262 | | |
| 3,300.00 | 3,212.44 | 3,208.44 | 3,212.44 | 16.91 | 110.31 | 146.29 | 1,410.99 | -1,160.61 | 2,376.91 | 2,250.79 | 126.13 | 18.845 | | |
| 3,400.00 | 3,309.08 | 3,305.08 | 3,309.08 | 17.44 | 113.68 | 146.63 | 1,410.99 | -1,160.61 | 2,398.57 | 2,268.59 | 129.98 | 18.454 | | |
| 3,500.00 | 3,405.72 | 3,401.72 | 3,405.72 | 17.97 | 117.05 | 146.96 | 1,410.99 | -1,160.61 | 2,420.30 | 2,286.47 | 133.83 | 18.085 | | |
| 3,600.00 | 3,502.36 | 3,501.64 | 3,502.36 | 18.50 | 120.54 | 147.29 | 1,410.99 | -1,160.61 | 2,442.11 | 2,304.32 | 137.79 | 17.723 | | |
| 3,700.00 | 3,598.99 | 3,605.01 | 3,598.99 | 19.03 | 124.15 | 147.61 | 1,410.99 | -1,160.61 | 2,464.00 | 2,322.12 | 141.87 | 17.368 | | |
| 3,800.00 | 3,695.63 | 3,708.37 | 3,695.63 | 19.57 | 127.76 | 147.92 | 1,410.99 | -1,160.61 | 2,485.95 | 2,340.00 | 145.96 | 17.032 | | |
| 3,900.00 | 3,792.27 | 3,788.27 | 3,792.27 | 20.10 | 130.54 | 148.23 | 1,410.99 | -1,160.61 | 2,507.98 | 2,358.76 | 149.22 | 16.807 | | |
| 4,000.00 | 3,888.91 | 3,884.91 | 3,888.91 | 20.63 | 133.92 | 148.54 | 1,410.99 | -1,160.61 | 2,530.08 | 2,377.01 | 153.07 | 16.529 | | |
| 4,100.00 | 3,985.54 | 3,981.54 | 3,985.54 | 21.17 | 137.29 | 148.84 | 1,410.99 | -1,160.61 | 2,552.25 | 2,395.33 | 156.92 | 16.265 | | |
| 4,200.00 | 4,082.18 | 4,078.18 | 4,082.18 | 21.70 | 140.66 | 149.13 | 1,410.99 | -1,160.61 | 2,574.48 | 2,413.71 | 160.77 | 16.013 | | |
| 4,300.00 | 4,178.82 | 4,174.82 | 4,178.82 | 22.24 | 144.04 | 149.42 | 1,410.99 | -1,160.61 | 2,596.78 | 2,432.16 | 164.62 | 15.774 | | |
| 4,400.00 | 4,275.46 | 4,271.46 | 4,275.46 | 22.77 | 147.41 | 149.70 | 1,410.99 | -1,160.61 | 2,619.14 | 2,450.67 | 168.47 | 15.547 | | |
| 4,500.00 | 4,372.09 | 4,368.09 | 4,372.09 | 23.31 | 150.78 | 149.98 | 1,410.99 | -1,160.61 | 2,641.56 | 2,469.24 | 172.32 | 15.329 | | |
| 4,600.00 | 4,468.73 | 4,464.73 | 4,468.73 | 23.84 | 154.15 | 150.25 | 1,410.99 | -1,160.61 | 2,664.04 | 2,487.87 | 176.17 | 15.122 | | |
| 4,700.00 | 4,565.37 | 4,561.37 | 4,565.37 | 24.38 | 157.53 | 150.52 | 1,410.99 | -1,160.61 | 2,686.58 | 2,506.56 | 180.02 | 14.924 | | |
| 4,800.00 | 4,662.01 | 4,658.01 | 4,662.01 | 24.91 | 160.90 | 150.79 | 1,410.99 | -1,160.61 | 2,709.18 | 2,525.31 | 183.87 | 14.734 | | |
| 4,900.00 | 4,758.64 | 4,754.64 | 4,758.64 | 25.45 | 164.27 | 151.05 | 1,410.99 | -1,160.61 | 2,731.83 | 2,544.11 | 187.72 | 14.553 | | |
| 5,000.00 | 4,855.28 | 4,851.28 | 4,855.28 | 25.99 | 167.65 | 151.31 | 1,410.99 | -1,160.61 | 2,754.53 | 2,562.96 | 191.57 | 14.379 | | |
| 5,100.00 | 4,951.92 | 4,947.92 | 4,951.92 | 26.53 | 171.02 | 151.56 | 1,410.99 | -1,160.61 | 2,777.29 | 2,581.87 | 195.42 | 14.212 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-21(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,044.56 | 5,048.56 | 27.06 | 174.39 | 151.81 | 1,410.99 | -1,160.61 | 2,800.09 | 2,600.83 | 199.27 | 14.052 | | |
| 5,300.00 | 5,145.19 | 5,141.19 | 5,145.19 | 27.60 | 177.76 | 152.05 | 1,410.99 | -1,160.61 | 2,822.95 | 2,619.83 | 203.12 | 13.898 | | |
| 5,400.00 | 5,241.83 | 5,237.83 | 5,241.83 | 28.14 | 181.14 | 152.30 | 1,410.99 | -1,160.61 | 2,845.86 | 2,638.89 | 206.97 | 13.750 | | |
| 5,500.00 | 5,338.47 | 5,334.47 | 5,338.47 | 28.67 | 184.51 | 152.53 | 1,410.99 | -1,160.61 | 2,868.81 | 2,657.99 | 210.82 | 13.608 | | |
| 5,600.00 | 5,435.11 | 5,431.11 | 5,435.11 | 29.21 | 187.88 | 152.77 | 1,410.99 | -1,160.61 | 2,891.81 | 2,677.14 | 214.67 | 13.471 | | |
| 5,700.00 | 5,531.74 | 5,527.74 | 5,531.74 | 29.75 | 191.26 | 153.00 | 1,410.99 | -1,160.61 | 2,914.86 | 2,696.34 | 218.52 | 13.339 | | |
| 5,800.00 | 5,628.38 | 5,624.38 | 5,628.38 | 30.29 | 194.63 | 153.22 | 1,410.99 | -1,160.61 | 2,937.95 | 2,715.58 | 222.37 | 13.212 | | |
| 5,900.00 | 5,725.02 | 5,721.02 | 5,725.02 | 30.83 | 198.00 | 153.44 | 1,410.99 | -1,160.61 | 2,961.08 | 2,734.86 | 226.22 | 13.090 | | |
| 6,000.00 | 5,821.66 | 5,817.66 | 5,821.66 | 31.37 | 201.38 | 153.66 | 1,410.99 | -1,160.61 | 2,984.26 | 2,754.19 | 230.07 | 12.971 | | |
| 6,100.00 | 5,918.29 | 5,914.29 | 5,918.29 | 31.90 | 204.75 | 153.88 | 1,410.99 | -1,160.61 | 3,007.47 | 2,773.56 | 233.92 | 12.857 | | |
| 6,200.00 | 6,014.93 | 6,010.93 | 6,014.93 | 32.44 | 208.12 | 154.09 | 1,410.99 | -1,160.61 | 3,030.73 | 2,792.96 | 237.77 | 12.747 | | |
| 6,300.00 | 6,111.57 | 6,107.57 | 6,111.57 | 32.98 | 211.50 | 154.30 | 1,410.99 | -1,160.61 | 3,054.03 | 2,812.41 | 241.62 | 12.640 | | |
| 6,400.00 | 6,208.21 | 6,204.21 | 6,208.21 | 33.52 | 214.87 | 154.51 | 1,410.99 | -1,160.61 | 3,077.36 | 2,831.90 | 245.46 | 12.537 | | |
| 6,500.00 | 6,304.84 | 6,300.84 | 6,304.84 | 34.06 | 218.24 | 154.71 | 1,410.99 | -1,160.61 | 3,100.73 | 2,851.42 | 249.31 | 12.437 | | |
| 6,600.00 | 6,401.37 | 6,402.63 | 6,401.37 | 34.60 | 221.80 | 137.24 | 1,410.99 | -1,160.61 | 3,123.42 | 2,870.08 | 253.34 | 12.329 | | |
| 6,700.00 | 6,496.25 | 6,507.75 | 6,496.25 | 35.12 | 225.46 | 113.67 | 1,410.99 | -1,160.61 | 3,141.43 | 2,883.95 | 257.48 | 12.201 | | |
| 6,800.00 | 6,587.15 | 6,583.15 | 6,587.15 | 35.59 | 228.10 | 100.87 | 1,410.99 | -1,160.61 | 3,154.11 | 2,893.55 | 260.55 | 12.105 | | |
| 6,900.00 | 6,671.83 | 6,667.83 | 6,671.83 | 36.03 | 231.05 | 94.01 | 1,410.99 | -1,160.61 | 3,161.63 | 2,897.71 | 263.92 | 11.979 | | |
| 7,000.00 | 6,748.21 | 6,744.21 | 6,748.21 | 36.41 | 233.72 | 90.37 | 1,410.99 | -1,160.61 | 3,164.44 | 2,897.44 | 267.00 | 11.852 | | |
| 7,100.00 | 6,814.41 | 6,810.41 | 6,814.41 | 36.76 | 236.03 | 88.64 | 1,410.99 | -1,160.61 | 3,163.13 | 2,893.38 | 269.75 | 11.726 | | |
| 7,200.00 | 6,868.79 | 6,864.79 | 6,868.79 | 37.07 | 237.93 | 88.07 | 1,410.99 | -1,160.61 | 3,158.43 | 2,886.25 | 272.17 | 11.604 | | |
| 7,300.00 | 6,910.01 | 6,906.01 | 6,910.01 | 37.39 | 239.37 | 88.23 | 1,410.99 | -1,160.61 | 3,151.07 | 2,876.80 | 274.26 | 11.489 | | |
| 7,400.00 | 6,937.07 | 6,933.07 | 6,937.07 | 37.76 | 240.31 | 88.83 | 1,410.99 | -1,160.61 | 3,141.75 | 2,865.74 | 276.01 | 11.383 | | |
| 7,500.00 | 6,949.29 | 6,945.29 | 6,949.29 | 38.27 | 240.74 | 89.70 | 1,410.99 | -1,160.61 | 3,131.06 | 2,853.65 | 277.40 | 11.287 | | |
| 7,600.00 | 6,949.75 | 6,945.75 | 6,949.75 | 39.02 | 240.75 | 90.02 | 1,410.99 | -1,160.61 | 3,120.29 | 2,841.77 | 278.53 | 11.203 | | |
| 7,700.00 | 6,949.37 | 6,945.37 | 6,949.37 | 40.05 | 240.74 | 90.01 | 1,410.99 | -1,160.61 | 3,112.48 | 2,832.70 | 279.78 | 11.125 | | |
| 7,800.00 | 6,948.99 | 6,944.99 | 6,948.99 | 41.35 | 240.73 | 90.01 | 1,410.99 | -1,160.61 | 3,107.87 | 2,826.70 | 281.18 | 11.053 | | |
| 7,893.39 | 6,948.64 | 6,944.64 | 6,948.64 | 42.76 | 240.71 | 90.00 | 1,410.99 | -1,160.61 | 3,106.47 | 2,823.88 | 282.59 | 10.993 | | |
| 7,900.00 | 6,948.61 | 6,944.61 | 6,948.61 | 42.86 | 240.71 | 90.00 | 1,410.99 | -1,160.61 | 3,106.48 | 2,823.79 | 282.69 | 10.989 | | |
| 8,000.00 | 6,948.23 | 6,944.23 | 6,948.23 | 44.53 | 240.70 | 89.99 | 1,410.99 | -1,160.61 | 3,108.30 | 2,824.00 | 284.30 | 10.933 | | |
| 8,100.00 | 6,947.85 | 6,943.85</ | | | | | | | | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-21(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,935.51 | 6,939.51 | 99.91 | 240.40 | 89.83 | 1,410.99 | -1,160.61 | 3,929.61 | 3,610.80 | 318.80 | 12.326 | | |
| 10,400.00 | 6,939.13 | 6,935.13 | 6,939.13 | 102.60 | 240.38 | 89.82 | 1,410.99 | -1,160.61 | 3,991.63 | 3,671.93 | 319.70 | 12.486 | | |
| 10,500.00 | 6,938.75 | 6,934.75 | 6,938.75 | 105.30 | 240.37 | 89.82 | 1,410.99 | -1,160.61 | 4,055.18 | 3,734.63 | 320.55 | 12.651 | | |
| 10,600.00 | 6,938.37 | 6,934.37 | 6,938.37 | 108.00 | 240.36 | 89.81 | 1,410.99 | -1,160.61 | 4,120.16 | 3,798.81 | 321.35 | 12.821 | | |
| 10,700.00 | 6,937.99 | 6,933.99 | 6,937.99 | 110.72 | 240.34 | 89.80 | 1,410.99 | -1,160.61 | 4,186.53 | 3,864.43 | 322.11 | 12.997 | | |
| 10,800.00 | 6,937.61 | 6,933.61 | 6,937.61 | 113.44 | 240.33 | 89.80 | 1,410.99 | -1,160.61 | 4,254.22 | 3,931.40 | 322.82 | 13.178 | | |
| 10,900.00 | 6,937.23 | 6,933.23 | 6,937.23 | 116.17 | 240.32 | 89.79 | 1,410.99 | -1,160.61 | 4,323.16 | 3,999.67 | 323.49 | 13.364 | | |
| 11,000.00 | 6,936.85 | 6,932.85 | 6,936.85 | 118.90 | 240.30 | 89.78 | 1,410.99 | -1,160.61 | 4,393.29 | 4,069.16 | 324.13 | 13.554 | | |
| 11,100.00 | 6,936.47 | 6,932.47 | 6,936.47 | 121.64 | 240.29 | 89.78 | 1,410.99 | -1,160.61 | 4,464.56 | 4,139.84 | 324.72 | 13.749 | | |
| 11,200.00 | 6,936.09 | 6,932.09 | 6,936.09 | 124.39 | 240.28 | 89.77 | 1,410.99 | -1,160.61 | 4,536.92 | 4,211.63 | 325.29 | 13.947 | | |
| 11,300.00 | 6,935.71 | 6,931.71 | 6,935.71 | 127.14 | 240.26 | 89.76 | 1,410.99 | -1,160.61 | 4,610.31 | 4,284.49 | 325.82 | 14.150 | | |
| 11,400.00 | 6,935.34 | 6,931.34 | 6,935.34 | 129.90 | 240.25 | 89.75 | 1,410.99 | -1,160.61 | 4,684.68 | 4,358.37 | 326.32 | 14.356 | | |
| 11,500.00 | 6,934.96 | 6,930.96 | 6,934.96 | 132.66 | 240.24 | 89.75 | 1,410.99 | -1,160.61 | 4,760.00 | 4,433.21 | 326.79 | 14.566 | | |
| 11,600.00 | 6,934.58 | 6,930.58 | 6,934.58 | 135.42 | 240.22 | 89.74 | 1,410.99 | -1,160.61 | 4,836.20 | 4,508.97 | 327.23 | 14.779 | | |
| 11,700.00 | 6,934.20 | 6,930.20 | 6,934.20 | 138.19 | 240.21 | 89.73 | 1,410.99 | -1,160.61 | 4,913.27 | 4,585.62 | 327.65 | 14.996 | | |
| 11,800.00 | 6,933.82 | 6,929.82 | 6,933.82 | 140.96 | 240.20 | 89.73 | 1,410.99 | -1,160.61 | 4,991.14 | 4,663.10 | 328.04 | 15.215 | | |
| 11,900.00 | 6,933.44 | 6,929.44 | 6,933.44 | 143.74 | 240.18 | 89.72 | 1,410.99 | -1,160.61 | 5,069.79 | 4,741.38 | 328.41 | 15.437 | | |
| 12,000.00 | 6,933.06 | 6,929.06 | 6,933.06 | 146.51 | 240.17 | 89.71 | 1,410.99 | -1,160.61 | 5,149.19 | 4,820.42 | 328.76 | 15.662 | | |
| 12,100.00 | 6,932.68 | 6,928.68 | 6,932.68 | 149.30 | 240.16 | 89.71 | 1,410.99 | -1,160.61 | 5,229.29 | 4,900.19 | 329.09 | 15.890 | | |
| 12,200.00 | 6,932.30 | 6,928.30 | 6,932.30 | 152.08 | 240.14 | 89.70 | 1,410.99 | -1,160.61 | 5,310.06 | 4,980.66 | 329.40 | 16.120 | | |
| 12,300.00 | 6,931.92 | 6,927.92 | 6,931.92 | 154.87 | 240.13 | 89.69 | 1,410.99 | -1,160.61 | 5,391.48 | 5,061.78 | 329.70 | 16.353 | | |
| 12,400.00 | 6,931.54 | 6,927.54 | 6,931.54 | 157.66 | 240.12 | 89.68 | 1,410.99 | -1,160.61 | 5,473.51 | 5,143.54 | 329.97 | 16.588 | | |
| 12,500.00 | 6,931.16 | 6,927.16 | 6,931.16 | 160.45 | 240.10 | 89.68 | 1,410.99 | -1,160.61 | 5,556.14 | 5,225.90 | 330.23 | 16.825 | | |
| 12,600.00 | 6,930.78 | 6,926.78 | 6,930.78 | 163.24 | 240.09 | 89.67 | 1,410.99 | -1,160.61 | 5,639.32 | 5,308.84 | 330.48 | 17.064 | | |
| 12,700.00 | 6,930.40 | 6,926.40 | 6,930.40 | 166.04 | 240.08 | 89.66 | 1,410.99 | -1,160.61 | 5,723.05 | 5,392.34 | 330.71 | 17.305 | | |
| 12,800.00 | 6,930.03 | 6,926.03 | 6,930.03 | 168.84 | 240.06 | 89.66 | 1,410.99 | -1,160.61 | 5,807.29 | 5,476.36 | 330.93 | 17.548 | | |
| 12,900.00 | 6,929.65 | 6,925.65 | 6,929.65 | 171.64 | 240.05 | 89.65 | 1,410.99 | -1,160.61 | 5,892.02 | 5,560.88 | 331.14 | 17.793 | | |
| 13,000.00 | 6,929.27 | 6,925.27 | 6,929.27 | 174.44 | 240.04 | 89.64 | 1,410.99 | -1,160.61 | 5,977.22 | 5,645.89 | 331.34 | 18.040 | | |
| 13,100.00 | 6,928.89 | 6,924.89 | 6,928.89 | 177.24 | 240.03 | 89.64 | 1,410.99 | -1,160.61 | 6,062.88 | 5,731.36 | 331.52 | 18.288 | | |
| 13,200.00 | 6,928.51 | 6,924.51 | 6,928.51 | 180.05 | 240.01 | 89.63 | 1,410.99 | -1,160.61 | 6,148.97 | 5,817.27 | 331.70 | 18.538 | | |
| 13,300.00 | 6,928.13 | 6,924.13 | 6,928.13 | 182.86 | 240.00 | 89.62 | 1,410.99 | -1,160.61 | 6,235.47 | 5,903.61 | 331.86 | 18.789 | | |
| 13,400.00 | 6,927.75 | 6,923.75 | 6,927.75 | 185.67 | 239.99 | 89.61 | 1,410.99 | -1,160.61 | 6,322.37 | 5,990.35 | 332.02 | 19.042 | | |
| 13,500.00 | 6,927.37 | 6,923.37 | 6,927.37 | 188.48 | 239.97 | 89.61 | 1,410.99 | -1,160.61 | 6,409.66 | 6,077.49 | 332.17 | 19.296 | | |
| 13,600.00 | 6,926.99 | 6,922.99 | 6,926.99 | 191.29 | 239.96 | 89.60 | 1,410.99 | -1,160.61 | 6,497.31 | 6,165.00 | 332.31 | 19.552 | | |
| 13,700.00 | 6,926.61 | 6,922.61 | 6,926.61 | 194.10 | 239.95 | 89.59 | 1,410.99 | -1,160.61 | 6,585.31 | 6,252.87 | 332.45 | 19.809 | | |
| 13,800.00 | 6,926.23 | 6,922.23 | 6,926.23 | 196.92 | 239.93 | 89.59 | 1,410.99 | -1,160.61 | 6,673.65 | 6,341.08 | 332.57 | 20.067 | | |
| 13,900.00 | 6,925.85 | 6,921.85 | 6,925.85 | 199.73 | 239.92 | 89.58 | 1,410.99 | -1,160.61 | 6,762.32 | 6,429.62 | 332.69 | 20.326 | | |
| 14,000.00 | 6,925.47 | 6,921.47 | 6,925.47 | 202.55 | 239.91 | 89.57 | 1,410.99 | -1,160.61 | 6,851.30 | 6,518.49 | 332.81 | 20.586 | | |
| 14,100.00 | 6,925.09 | 6,921.09 | 6,925.09 | 205.37 | 239.89 | 89.57 | 1,410.99 | -1,160.61 | 6,940.57 | 6,607.65 | 332.92 | 20.848 | | |
| 14,200.00 | 6,924.71 | 6,920.71 | 6,924.71 | 208.19 | 239.88 | 89.56 | 1,410.99 | -1,160.61 | 7,030.14 | 6,697.12 | 333.02 | 21.110 | | |
| 14,300.00 | 6,924.34 | 6,920.34 | 6,924.34 | 211.01 | 239.87 | 89.55 | 1,410.99 | -1,160.61 | 7,119.98 | 6,786.86 | 333.12 | 21.374 | | |
| 14,400.00 | 6,923.96 | 6,919.96 | 6,923.96 | 213.83 | 239.85 | 89.54 | 1,410.99 | -1,160.61 | 7,210.09 | 6,876.88 | 333.22 | 21.638 | | |
| 14,500.00 | 6,923.58 | 6,919.58 | 6,923.58 | 216.65 | 239.84 | 89.54 | 1,410.99 | -1,160.61 | 7,300.46 | 6,967.16 | 333.31 | 21.903 | | |
| 14,600.00 | 6,923.20 | 6,919.20 | 6,923.20 | 219.48 | 239.83 | 89.53 | 1,410.99 | -1,160.61 | 7,391.08 | 7,057.69 | 333.39 | 22.169 | | |
| 14,700.00 | 6,922.82 | 6,918.82 | 6,922.82 | 222.30 | 239.81 | 89.52 | 1,410.99 | -1,160.61 | 7,481.94 | 7,148.46 | 333.47 | 22.436 | | |
| 14,800.00 | 6,922.44 | 6,918.44 | 6,922.44 | 225.13 | 239.80 | 89.52 | 1,410.99 | -1,160.61 | 7,573.02 | 7,239.47 | 333.55 | 22.704 | | |
| 14,900.00 | 6,922.06 | 6,918.06 | 6,922.06 | 227.95 | 239.79 | 89.51 | 1,410.99 | -1,160.61 | 7,664.33 | 7,330.71 | 333.63 | 22.973 | | |
| 14,915.55 | 6,922.00 | 6,918.00 | 6,922.00 | 228.39 | 239.78 | 89.51 | 1,410.99 | -1,160.61 | 7,678.55 | 7,344.91 | 333.64 | 23.015 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-24(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 18.00 | 3.28 | 3.28 | -84.47 | 106.77 | -1,102.27 | 1,107.57 | | | | | |
| 100.00 | 100.00 | 82.00 | 100.00 | 3.28 | 3.58 | -84.47 | 106.77 | -1,102.27 | 1,107.42 | 1,100.56 | 6.86 | 161.352 | | |
| 200.00 | 200.00 | 182.00 | 200.00 | 3.34 | 5.66 | -84.47 | 106.77 | -1,102.27 | 1,107.42 | 1,098.43 | 8.99 | 123.139 CC | | |
| 300.00 | 299.98 | 281.98 | 299.98 | 3.44 | 8.74 | 90.24 | 106.77 | -1,102.27 | 1,107.43 | 1,095.25 | 12.18 | 90.946 | | |
| 400.00 | 399.84 | 381.84 | 399.84 | 3.59 | 12.04 | 90.51 | 106.77 | -1,102.27 | 1,107.47 | 1,091.84 | 15.63 | 70.863 | | |
| 500.00 | 499.45 | 481.45 | 499.45 | 3.79 | 15.42 | 90.96 | 106.77 | -1,102.27 | 1,107.58 | 1,088.38 | 19.20 | 57.683 | | |
| 600.00 | 598.70 | 580.70 | 598.70 | 4.03 | 18.81 | 91.58 | 106.77 | -1,102.27 | 1,107.85 | 1,085.01 | 22.84 | 48.496 | | |
| 700.00 | 697.47 | 679.47 | 697.47 | 4.31 | 22.22 | 92.37 | 106.77 | -1,102.27 | 1,108.39 | 1,081.86 | 26.53 | 41.776 | | |
| 800.00 | 795.62 | 777.62 | 795.62 | 4.64 | 25.61 | 93.31 | 106.77 | -1,102.27 | 1,109.36 | 1,079.11 | 30.25 | 36.673 | | |
| 900.00 | 893.06 | 875.06 | 893.06 | 5.00 | 28.99 | 94.41 | 106.77 | -1,102.27 | 1,110.91 | 1,076.93 | 33.99 | 32.686 | | |
| 1,000.00 | 989.78 | 971.78 | 989.78 | 5.39 | 32.35 | 95.65 | 106.77 | -1,102.27 | 1,113.21 | 1,075.47 | 37.74 | 29.498 | | |
| 1,100.00 | 1,086.42 | 1,068.42 | 1,086.42 | 5.81 | 35.70 | 96.92 | 106.77 | -1,102.27 | 1,116.12 | 1,074.61 | 41.52 | 26.885 | | |
| 1,200.00 | 1,183.06 | 1,165.06 | 1,183.06 | 6.25 | 39.06 | 98.18 | 106.77 | -1,102.27 | 1,119.62 | 1,074.31 | 45.31 | 24.709 ES | | |
| 1,300.00 | 1,279.69 | 1,261.69 | 1,279.69 | 6.71 | 42.43 | 99.44 | 106.77 | -1,102.27 | 1,123.69 | 1,074.57 | 49.13 | 22.874 | | |
| 1,400.00 | 1,376.33 | 1,358.33 | 1,376.33 | 7.17 | 45.79 | 100.69 | 106.77 | -1,102.27 | 1,128.34 | 1,075.38 | 52.95 | 21.309 | | |
| 1,500.00 | 1,472.97 | 1,454.97 | 1,472.97 | 7.65 | 49.16 | 101.92 | 106.77 | -1,102.27 | 1,133.55 | 1,076.76 | 56.79 | 19.961 | | |
| 1,600.00 | 1,569.61 | 1,551.61 | 1,569.61 | 8.13 | 52.52 | 103.15 | 106.77 | -1,102.27 | 1,139.31 | 1,078.68 | 60.63 | 18.790 | | |
| 1,700.00 | 1,666.24 | 1,648.24 | 1,666.24 | 8.62 | 55.89 | 104.36 | 106.77 | -1,102.27 | 1,145.63 | 1,081.14 | 64.48 | 17.766 | | |
| 1,800.00 | 1,762.88 | 1,744.88 | 1,762.88 | 9.12 | 59.26 | 105.56 | 106.77 | -1,102.27 | 1,152.48 | 1,084.14 | 68.34 | 16.864 | | |
| 1,900.00 | 1,859.52 | 1,841.52 | 1,859.52 | 9.62 | 62.63 | 106.75 | 106.77 | -1,102.27 | 1,159.86 | 1,087.67 | 72.20 | 16.065 | | |
| 2,000.00 | 1,956.16 | 1,938.16 | 1,956.16 | 10.13 | 66.00 | 107.92 | 106.77 | -1,102.27 | 1,167.76 | 1,091.71 | 76.06 | 15.354 | | |
| 2,100.00 | 2,052.79 | 2,034.79 | 2,052.79 | 10.64 | 69.37 | 109.07 | 106.77 | -1,102.27 | 1,176.18 | 1,096.26 | 79.92 | 14.717 | | |
| 2,200.00 | 2,149.43 | 2,131.43 | 2,149.43 | 11.15 | 72.74 | 110.21 | 106.77 | -1,102.27 | 1,185.09 | 1,101.30 | 83.79 | 14.144 | | |
| 2,300.00 | 2,246.07 | 2,228.07 | 2,246.07 | 11.66 | 76.11 | 111.34 | 106.77 | -1,102.27 | 1,194.48 | 1,106.83 | 87.65 | 13.628 | | |
| 2,400.00 | 2,342.71 | 2,324.71 | 2,342.71 | 12.18 | 79.48 | 112.45 | 106.77 | -1,102.27 | 1,204.36 | 1,112.84 | 91.52 | 13.160 | | |
| 2,500.00 | 2,439.34 | 2,421.34 | 2,439.34 | 12.70 | 82.85 | 113.53 | 106.77 | -1,102.27 | 1,214.69 | 1,119.31 | 95.38 | 12.735 | | |
| 2,600.00 | 2,535.98 | 2,517.98 | 2,535.98 | 13.22 | 86.22 | 114.61 | 106.77 | -1,102.27 | 1,225.48 | 1,126.23 | 99.25 | 12.347 | | |
| 2,700.00 | 2,632.62 | 2,614.62 | 2,632.62 | 13.75 | 89.59 | 115.66 | 106.77 | -1,102.27 | 1,236.71 | 1,133.60 | 103.12 | 11.993 | | |
| 2,800.00 | 2,729.26 | 2,711.26 | 2,729.26 | 14.27 | 92.96 | 116.70 | 106.77 | -1,102.27 | 1,248.37 | 1,141.39 | 106.98 | 11.669 | | |
| 2,900.00 | 2,825.89 | 2,807.89 | 2,825.89 | 14.80 | 96.33 | 117.71 | 106.77 | -1,102.27 | 1,260.45 | 1,149.60 | 110.85 | 11.371 | | |
| 3,000.00 | 2,922.53 | 2,904.53 | 2,922.53 | 15.32 | 99.71 | 118.71 | 106.77 | -1,102.27 | 1,272.93 | 1,158.22 | 114.71 | 11.097 | | |
| 3,100.00 | 3,019.17 | 3,001.17 | 3,019.17 | 15.85 | 103.08 | 119.69 | 106.77 | -1,102.27 | 1,285.80 | 1,167.23 | 118.57 | 10.844 | | |
| 3,200.00 | 3,115.81 | 3,102.19 | 3,115.81 | 16.38 | 106.60 | 120.65 | 106.77 | -1,102.27 | 1,299.06 | 1,176.47 | 122.59 | 10.597 | | |
| 3,300.00 | 3,212.44 | 3,205.56 | 3,212.44 | 16.91 | 110.21 | 121.59 | 106.77 | -1,102.27 | 1,312.68 | 1,186.00 | 126.69 | 10.362 | | |
| 3,400.00 | 3,309.08 | 3,308.92 | 3,309.08 | 17.44 | 113.82 | 122.52 | 106.77 | -1,102.27 | 1,326.67 | 1,195.89 | 130.78 | 10.144 | | |
| 3,500.00 | 3,405.72 | 3,387.72 | 3,405.72 | 17.97 | 116.57 | 123.42 | 106.77 | -1,102.27 | 1,341.00 | 1,206.98 | 134.02 | 10.006 | | |
| 3,600.00 | 3,502.36 | 3,484.36 | 3,502.36 | 18.50 | 119.94 | 124.31 | 106.77 | -1,102.27 | 1,355.67 | 1,217.79 | 137.88 | 9.832 | | |
| 3,700.00 | 3,598.99 | 3,580.99 | 3,598.99 | 19.03 | 123.31 | 125.18 | 106.77 | -1,102.27 | 1,370.66 | 1,228.92 | 141.74 | 9.671 | | |
| 3,800.00 | 3,695.63 | 3,677.63 | 3,695.63 | 19.57 | 126.68 | 126.03 | 106.77 | -1,102.27 | 1,385.97 | 1,240.37 | 145.59 | 9.519 | | |
| 3,900.00 | 3,792.27 | 3,774.27 | 3,792.27 | 20.10 | 130.06 | 126.86 | 106.77 | -1,102.27 | 1,401.58 | 1,252.13 | 149.45 | 9.378 | | |
| 4,000.00 | 3,888.91 | 3,870.91 | 3,888.91 | 20.63 | 133.43 | 127.67 | 106.77 | -1,102.27 | 1,417.49 | 1,264.18 | 153.30 | 9.246 | | |
| 4,100.00 | 3,985.54 | 3,967.54 | 3,985.54 | 21.17 | 136.80 | 128.47 | 106.77 | -1,102.27 | 1,433.68 | 1,276.52 | 157.16 | 9.123 | | |
| 4,200.00 | 4,082.18 | 4,064.18 | 4,082.18 | 21.70 | 140.17 | 129.25 | 106.77 | -1,102.27 | 1,450.14 | 1,289.13 | 161.01 | 9.007 | | |
| 4,300.00 | 4,178.82 | 4,160.82 | 4,178.82 | 22.24 | 143.55 | 130.01 | 106.77 | -1,102.27 | 1,466.88 | 1,302.01 | 164.86 | 8.898 | | |
| 4,400.00 | 4,275.46 | 4,257.46 | 4,275.46 | 22.77 | 146.92 | 130.76 | 106.77 | -1,102.27 | 1,483.87 | 1,315.15 | 168.71 | 8.795 | | |
| 4,500.00 | 4,372.09 | 4,354.09 | 4,372.09 | 23.31 | 150.29 | 131.49 | 106.77 | -1,102.27 | 1,501.10 | 1,328.54 | 172.56 | 8.699 | | |
| 4,600.00 | 4,468.73 | 4,450.73 | 4,468.73 | 23.84 | 153.66 | 132.20 | 106.77 | -1,102.27 | 1,518.58 | 1,342.17 | 176.41 | 8.608 | | |
| 4,700.00 | 4,565.37 | 4,547.37 | 4,565.37 | 24.38 | 157.04 | 132.90 | 106.77 | -1,102.27 | 1,536.29 | 1,356.03 | 180.26 | 8.522 | | |
| 4,800.00 | 4,662.01 | 4,644.01 | 4,662.01 | 24.91 | 160.41 | 133.58 | 106.77 | -1,102.27 | 1,554.22 | 1,370.11 | 184.11 | 8.442 | | |
| 4,900.00 | 4,758.64 | 4,740.64 | 4,758.64 | 25.45 | 163.78 | 134.25 | 106.77 | -1,102.27 | 1,572.37 | 1,384.41 | 187.96 | 8.365 | | |
| 5,000.00 | 4,855.28 | 4,837.28 | 4,855.28 | 25.99 | 167.16 | 134.90 | 106.77 | -1,102.27 | 1,590.73 | 1,398.92 | 191.81 | 8.293 | | |
| 5,100.00 | 4,951.92 | 4,933.92 | 4,951.92 | 26.53 | 170.53 | 135.54 | 106.77 | -1,102.27 | 1,609.29 | 1,413.63 | 195.66 | 8.225 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-24(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,030.56 | 5,048.56 | 27.06 | 173.90 | 136.16 | 106.77 | -1,102.27 | 1,628.04 | 1,428.54 | 199.50 | 8.161 | | |
| 5,300.00 | 5,145.19 | 5,127.19 | 5,145.19 | 27.60 | 177.28 | 136.77 | 106.77 | -1,102.27 | 1,646.98 | 1,443.63 | 203.35 | 8.099 | | |
| 5,400.00 | 5,241.83 | 5,223.83 | 5,241.83 | 28.14 | 180.65 | 137.37 | 106.77 | -1,102.27 | 1,666.11 | 1,458.91 | 207.19 | 8.041 | | |
| 5,500.00 | 5,338.47 | 5,320.47 | 5,338.47 | 28.67 | 184.02 | 137.95 | 106.77 | -1,102.27 | 1,685.40 | 1,474.36 | 211.04 | 7.986 | | |
| 5,600.00 | 5,435.11 | 5,417.11 | 5,435.11 | 29.21 | 187.39 | 138.52 | 106.77 | -1,102.27 | 1,704.87 | 1,489.99 | 214.88 | 7.934 | | |
| 5,700.00 | 5,531.74 | 5,513.74 | 5,531.74 | 29.75 | 190.77 | 139.08 | 106.77 | -1,102.27 | 1,724.50 | 1,505.77 | 218.73 | 7.884 | | |
| 5,800.00 | 5,628.38 | 5,610.38 | 5,628.38 | 30.29 | 194.14 | 139.62 | 106.77 | -1,102.27 | 1,744.29 | 1,521.72 | 222.57 | 7.837 | | |
| 5,900.00 | 5,725.02 | 5,707.02 | 5,725.02 | 30.83 | 197.51 | 140.16 | 106.77 | -1,102.27 | 1,764.23 | 1,537.82 | 226.42 | 7.792 | | |
| 6,000.00 | 5,821.66 | 5,803.66 | 5,821.66 | 31.37 | 200.89 | 140.68 | 106.77 | -1,102.27 | 1,784.32 | 1,554.06 | 230.26 | 7.749 | | |
| 6,100.00 | 5,918.29 | 5,900.29 | 5,918.29 | 31.90 | 204.26 | 141.19 | 106.77 | -1,102.27 | 1,804.56 | 1,570.45 | 234.10 | 7.708 | | |
| 6,200.00 | 6,014.93 | 6,003.07 | 6,014.93 | 32.44 | 207.85 | 141.69 | 106.77 | -1,102.27 | 1,824.93 | 1,586.77 | 238.16 | 7.663 | | |
| 6,300.00 | 6,111.57 | 6,106.43 | 6,111.57 | 32.98 | 211.46 | 142.18 | 106.77 | -1,102.27 | 1,845.43 | 1,603.19 | 242.24 | 7.618 | | |
| 6,400.00 | 6,208.21 | 6,209.79 | 6,208.21 | 33.52 | 215.06 | 142.66 | 106.77 | -1,102.27 | 1,866.06 | 1,619.75 | 246.32 | 7.576 | | |
| 6,500.00 | 6,304.84 | 6,286.84 | 6,304.84 | 34.06 | 217.75 | 143.12 | 106.77 | -1,102.27 | 1,886.82 | 1,637.35 | 249.48 | 7.563 | | |
| 6,600.00 | 6,401.37 | 6,383.37 | 6,401.37 | 34.60 | 221.12 | 126.16 | 106.77 | -1,102.27 | 1,906.60 | 1,653.28 | 253.31 | 7.527 | | |
| 6,700.00 | 6,496.25 | 6,478.25 | 6,496.25 | 35.12 | 224.43 | 103.50 | 106.77 | -1,102.27 | 1,919.44 | 1,662.36 | 257.08 | 7.466 | | |
| 6,800.00 | 6,587.15 | 6,569.15 | 6,587.15 | 35.59 | 227.61 | 91.81 | 106.77 | -1,102.27 | 1,924.73 | 1,664.06 | 260.66 | 7.384 | | |
| 6,900.00 | 6,671.83 | 6,653.83 | 6,671.83 | 36.03 | 230.56 | 86.23 | 106.77 | -1,102.27 | 1,923.10 | 1,659.11 | 264.00 | 7.285 | | |
| 7,000.00 | 6,748.21 | 6,730.21 | 6,748.21 | 36.41 | 233.23 | 84.01 | 106.77 | -1,102.27 | 1,915.55 | 1,648.53 | 267.02 | 7.174 | | |
| 7,100.00 | 6,814.41 | 6,803.59 | 6,814.41 | 36.76 | 235.79 | 83.75 | 106.77 | -1,102.27 | 1,903.29 | 1,633.32 | 269.97 | 7.050 | | |
| 7,200.00 | 6,868.79 | 6,850.79 | 6,868.79 | 37.07 | 237.44 | 84.64 | 106.77 | -1,102.27 | 1,887.68 | 1,615.60 | 272.08 | 6.938 | | |
| 7,300.00 | 6,910.01 | 6,907.99 | 6,910.01 | 37.39 | 239.44 | 86.15 | 106.77 | -1,102.27 | 1,870.11 | 1,595.45 | 274.66 | 6.809 | | |
| 7,400.00 | 6,937.07 | 6,919.07 | 6,937.07 | 37.76 | 239.82 | 87.87 | 106.77 | -1,102.27 | 1,851.87 | 1,576.09 | 275.78 | 6.715 | | |
| 7,500.00 | 6,949.29 | 6,931.29 | 6,949.29 | 38.27 | 240.25 | 89.53 | 106.77 | -1,102.27 | 1,834.03 | 1,556.92 | 277.11 | 6.618 | | |
| 7,600.00 | 6,949.75 | 6,931.75 | 6,949.75 | 39.02 | 240.26 | 90.03 | 106.77 | -1,102.27 | 1,818.22 | 1,540.05 | 278.17 | 6.536 | | |
| 7,700.00 | 6,949.37 | 6,931.37 | 6,949.37 | 40.05 | 240.25 | 90.02 | 106.77 | -1,102.27 | 1,807.58 | 1,528.23 | 279.35 | 6.471 | | |
| 7,800.00 | 6,948.99 | 6,930.99 | 6,948.99 | 41.35 | 240.24 | 90.01 | 106.77 | -1,102.27 | 1,802.44 | 1,521.77 | 280.66 | 6.422 | | |
| 7,842.85 | 6,948.83 | 6,930.83 | 6,948.83 | 41.99 | 240.23 | 90.00 | 106.77 | -1,102.27 | 1,801.93 | 1,520.65 | 281.27 | 6.406 | | |
| 7,900.00 | 6,948.61 | 6,930.61 | 6,948.61 | 42.86 | 240.23 | 89.99 | 106.77 | -1,102.27 | 1,802.83 | 1,520.77 | 282.07 | 6.391 | | |
| 8,000.00 | 6,948.23 | 6,930.23 | 6,948.23 | 44.53 | 240.21 | 89.98 | 106.77 | -1,102.27 | 1,808.77 | 1,525.23 | 283.53 | 6.379 SF | | |
| 8,100.00 | 6,947.85 | 6,929.85 | 6,947.85 | 46.34 | 240.20 | 89.97 | 106.77 | -1,102.27 | 1,820.18 | 1,535.16 | 285.02 | 6.3 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-24(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------------|---------------------------|---------------------------|-----------------------|--------------------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,921.51 | 6,939.51 | 99.91 | 239.91 | 89.70 | 106.77 | -1,102.27 | 3,047.03 | 2,745.37 | 301.66 | 10.101 | | |
| 10,400.00 | 6,939.13 | 6,921.13 | 6,939.13 | 102.60 | 239.89 | 89.69 | 106.77 | -1,102.27 | 3,128.23 | 2,826.42 | 301.82 | 10.365 | | |
| 10,500.00 | 6,938.75 | 6,920.75 | 6,938.75 | 105.30 | 239.88 | 89.68 | 106.77 | -1,102.27 | 3,210.49 | 2,908.55 | 301.95 | 10.633 | | |
| 10,600.00 | 6,938.37 | 6,920.37 | 6,938.37 | 108.00 | 239.87 | 89.67 | 106.77 | -1,102.27 | 3,293.73 | 2,991.67 | 302.06 | 10.904 | | |
| 10,700.00 | 6,937.99 | 6,919.99 | 6,937.99 | 110.72 | 239.85 | 89.66 | 106.77 | -1,102.27 | 3,377.88 | 3,075.73 | 302.16 | 11.179 | | |
| 10,800.00 | 6,937.61 | 6,919.61 | 6,937.61 | 113.44 | 239.84 | 89.64 | 106.77 | -1,102.27 | 3,462.88 | 3,160.64 | 302.24 | 11.457 | | |
| 10,900.00 | 6,937.23 | 6,919.23 | 6,937.23 | 116.17 | 239.83 | 89.63 | 106.77 | -1,102.27 | 3,548.65 | 3,246.35 | 302.31 | 11.739 | | |
| 11,000.00 | 6,936.85 | 6,918.85 | 6,936.85 | 118.90 | 239.81 | 89.62 | 106.77 | -1,102.27 | 3,635.16 | 3,332.79 | 302.37 | 12.022 | | |
| 11,100.00 | 6,936.47 | 6,918.47 | 6,936.47 | 121.64 | 239.80 | 89.61 | 106.77 | -1,102.27 | 3,722.34 | 3,419.92 | 302.42 | 12.309 | | |
| 11,200.00 | 6,936.09 | 6,918.09 | 6,936.09 | 124.39 | 239.79 | 89.60 | 106.77 | -1,102.27 | 3,810.14 | 3,507.69 | 302.46 | 12.597 | | |
| 11,300.00 | 6,935.71 | 6,917.71 | 6,935.71 | 127.14 | 239.77 | 89.58 | 106.77 | -1,102.27 | 3,898.54 | 3,596.05 | 302.49 | 12.888 | | |
| 11,400.00 | 6,935.34 | 6,917.34 | 6,935.34 | 129.90 | 239.76 | 89.57 | 106.77 | -1,102.27 | 3,987.49 | 3,684.96 | 302.52 | 13.181 | | |
| 11,500.00 | 6,934.96 | 6,916.96 | 6,934.96 | 132.66 | 239.75 | 89.56 | 106.77 | -1,102.27 | 4,076.94 | 3,774.40 | 302.54 | 13.476 | | |
| 11,600.00 | 6,934.58 | 6,916.58 | 6,934.58 | 135.42 | 239.74 | 89.55 | 106.77 | -1,102.27 | 4,166.88 | 3,864.32 | 302.56 | 13.772 | | |
| 11,700.00 | 6,934.20 | 6,916.20 | 6,934.20 | 138.19 | 239.72 | 89.53 | 106.77 | -1,102.27 | 4,257.26 | 3,954.69 | 302.57 | 14.070 | | |
| 11,800.00 | 6,933.82 | 6,915.82 | 6,933.82 | 140.96 | 239.71 | 89.52 | 106.77 | -1,102.27 | 4,348.07 | 4,045.49 | 302.58 | 14.370 | | |
| 11,900.00 | 6,933.44 | 6,915.44 | 6,933.44 | 143.74 | 239.70 | 89.51 | 106.77 | -1,102.27 | 4,439.27 | 4,136.68 | 302.59 | 14.671 | | |
| 12,000.00 | 6,933.06 | 6,915.06 | 6,933.06 | 146.51 | 239.68 | 89.50 | 106.77 | -1,102.27 | 4,530.84 | 4,228.25 | 302.60 | 14.973 | | |
| 12,100.00 | 6,932.68 | 6,914.68 | 6,932.68 | 149.30 | 239.67 | 89.49 | 106.77 | -1,102.27 | 4,622.77 | 4,320.17 | 302.60 | 15.277 | | |
| 12,200.00 | 6,932.30 | 6,914.30 | 6,932.30 | 152.08 | 239.66 | 89.47 | 106.77 | -1,102.27 | 4,715.02 | 4,412.42 | 302.60 | 15.582 | | |
| 12,300.00 | 6,931.92 | 6,913.92 | 6,931.92 | 154.87 | 239.64 | 89.46 | 106.77 | -1,102.27 | 4,807.58 | 4,504.98 | 302.60 | 15.888 | | |
| 12,400.00 | 6,931.54 | 6,913.54 | 6,931.54 | 157.66 | 239.63 | 89.45 | 106.77 | -1,102.27 | 4,900.43 | 4,597.83 | 302.60 | 16.195 | | |
| 12,500.00 | 6,931.16 | 6,913.16 | 6,931.16 | 160.45 | 239.62 | 89.44 | 106.77 | -1,102.27 | 4,993.56 | 4,690.97 | 302.59 | 16.503 | | |
| 12,600.00 | 6,930.78 | 6,912.78 | 6,930.78 | 163.24 | 239.60 | 89.43 | 106.77 | -1,102.27 | 5,086.95 | 4,784.36 | 302.59 | 16.811 | | |
| 12,700.00 | 6,930.40 | 6,912.40 | 6,930.40 | 166.04 | 239.59 | 89.41 | 106.77 | -1,102.27 | 5,180.59 | 4,878.00 | 302.58 | 17.121 | | |
| 12,800.00 | 6,930.03 | 6,912.03 | 6,930.03 | 168.84 | 239.58 | 89.40 | 106.77 | -1,102.27 | 5,274.46 | 4,971.88 | 302.58 | 17.432 | | |
| 12,900.00 | 6,929.65 | 6,911.65 | 6,929.65 | 171.64 | 239.56 | 89.39 | 106.77 | -1,102.27 | 5,368.55 | 5,065.97 | 302.57 | 17.743 | | |
| 13,000.00 | 6,929.27 | 6,911.27 | 6,929.27 | 174.44 | 239.55 | 89.38 | 106.77 | -1,102.27 | 5,462.85 | 5,160.28 | 302.57 | 18.055 | | |
| 13,100.00 | 6,928.89 | 6,910.89 | 6,928.89 | 177.24 | 239.54 | 89.37 | 106.77 | -1,102.27 | 5,557.35 | 5,254.79 | 302.56 | 18.368 | | |
| 13,200.00 | 6,928.51 | 6,910.51 | 6,928.51 | 180.05 | 239.52 | 89.35 | 106.77 | -1,102.27 | 5,652.04 | 5,349.48 | 302.55 | 18.681 | | |
| 13,300.00 | 6,928.13 | 6,910.13 | 6,928.13 | 182.86 | 239.51 | 89.34 | 106.77 | -1,102.27 | 5,746.91 | 5,444.36 | 302.55 | 18.995 | | |
| 13,400.00 | 6,927.75 | 6,909.75 | 6,927.75 | 185.67 | 239.50 | 89.33 | 106.77 | -1,102.27 | 5,841.95 | 5,539.40 | 302. | | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-25(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 11.00 | 3.28 | 3.28 | -61.97 | 788.04 | -1,480.49 | 1,677.20 | | | | | |
| 100.00 | 100.00 | 89.00 | 100.00 | 3.28 | 3.63 | -61.97 | 788.04 | -1,480.49 | 1,677.16 | 1,670.25 | 6.91 | 242.575 | | |
| 200.00 | 200.00 | 189.00 | 200.00 | 3.34 | 5.86 | -61.97 | 788.04 | -1,480.49 | 1,677.16 | 1,667.97 | 9.19 | 182.417 CC | | |
| 300.00 | 299.98 | 288.98 | 299.98 | 3.44 | 8.96 | 112.69 | 788.04 | -1,480.49 | 1,677.83 | 1,665.43 | 12.40 | 135.267 | | |
| 400.00 | 399.84 | 388.84 | 399.84 | 3.59 | 12.28 | 112.81 | 788.04 | -1,480.49 | 1,679.86 | 1,664.00 | 15.86 | 105.891 | | |
| 500.00 | 499.45 | 488.45 | 499.45 | 3.79 | 15.65 | 113.02 | 788.04 | -1,480.49 | 1,683.27 | 1,663.83 | 19.44 | 86.583 ES | | |
| 600.00 | 598.70 | 587.70 | 598.70 | 4.03 | 19.06 | 113.31 | 788.04 | -1,480.49 | 1,688.09 | 1,665.01 | 23.09 | 73.123 | | |
| 700.00 | 697.47 | 686.47 | 697.47 | 4.31 | 22.46 | 113.68 | 788.04 | -1,480.49 | 1,694.39 | 1,667.62 | 26.77 | 63.286 | | |
| 800.00 | 795.62 | 784.62 | 795.62 | 4.64 | 25.85 | 114.11 | 788.04 | -1,480.49 | 1,702.24 | 1,671.76 | 30.49 | 55.830 | | |
| 900.00 | 893.06 | 882.06 | 893.06 | 5.00 | 29.23 | 114.61 | 788.04 | -1,480.49 | 1,711.73 | 1,677.50 | 34.22 | 50.016 | | |
| 1,000.00 | 989.78 | 978.78 | 989.78 | 5.39 | 32.59 | 115.27 | 788.04 | -1,480.49 | 1,722.71 | 1,684.74 | 37.97 | 45.373 | | |
| 1,100.00 | 1,086.42 | 1,075.42 | 1,086.42 | 5.81 | 35.95 | 116.02 | 788.04 | -1,480.49 | 1,734.15 | 1,692.42 | 41.73 | 41.553 | | |
| 1,200.00 | 1,183.06 | 1,172.06 | 1,183.06 | 6.25 | 39.31 | 116.76 | 788.04 | -1,480.49 | 1,745.90 | 1,700.38 | 45.52 | 38.355 | | |
| 1,300.00 | 1,279.69 | 1,268.69 | 1,279.69 | 6.71 | 42.67 | 117.49 | 788.04 | -1,480.49 | 1,757.94 | 1,708.62 | 49.32 | 35.643 | | |
| 1,400.00 | 1,376.33 | 1,365.33 | 1,376.33 | 7.17 | 46.04 | 118.21 | 788.04 | -1,480.49 | 1,770.27 | 1,717.14 | 53.13 | 33.317 | | |
| 1,500.00 | 1,472.97 | 1,461.97 | 1,472.97 | 7.65 | 49.40 | 118.92 | 788.04 | -1,480.49 | 1,782.89 | 1,725.94 | 56.96 | 31.302 | | |
| 1,600.00 | 1,569.61 | 1,558.61 | 1,569.61 | 8.13 | 52.77 | 119.62 | 788.04 | -1,480.49 | 1,795.79 | 1,735.01 | 60.79 | 29.542 | | |
| 1,700.00 | 1,666.24 | 1,655.24 | 1,666.24 | 8.62 | 56.14 | 120.31 | 788.04 | -1,480.49 | 1,808.97 | 1,744.34 | 64.63 | 27.992 | | |
| 1,800.00 | 1,762.88 | 1,751.88 | 1,762.88 | 9.12 | 59.50 | 120.99 | 788.04 | -1,480.49 | 1,822.41 | 1,753.94 | 68.47 | 26.617 | | |
| 1,900.00 | 1,859.52 | 1,848.52 | 1,859.52 | 9.62 | 62.87 | 121.66 | 788.04 | -1,480.49 | 1,836.11 | 1,763.80 | 72.31 | 25.391 | | |
| 2,000.00 | 1,956.16 | 1,945.16 | 1,956.16 | 10.13 | 66.24 | 122.32 | 788.04 | -1,480.49 | 1,850.07 | 1,773.90 | 76.16 | 24.291 | | |
| 2,100.00 | 2,052.79 | 2,041.79 | 2,052.79 | 10.64 | 69.61 | 122.97 | 788.04 | -1,480.49 | 1,864.28 | 1,784.26 | 80.02 | 23.299 | | |
| 2,200.00 | 2,149.43 | 2,138.43 | 2,149.43 | 11.15 | 72.98 | 123.61 | 788.04 | -1,480.49 | 1,878.73 | 1,794.86 | 83.87 | 22.401 | | |
| 2,300.00 | 2,246.07 | 2,235.07 | 2,246.07 | 11.66 | 76.35 | 124.25 | 788.04 | -1,480.49 | 1,893.42 | 1,805.69 | 87.73 | 21.583 | | |
| 2,400.00 | 2,342.71 | 2,331.71 | 2,342.71 | 12.18 | 79.72 | 124.87 | 788.04 | -1,480.49 | 1,908.34 | 1,816.76 | 91.58 | 20.837 | | |
| 2,500.00 | 2,439.34 | 2,428.34 | 2,439.34 | 12.70 | 83.09 | 125.49 | 788.04 | -1,480.49 | 1,923.50 | 1,828.06 | 95.44 | 20.154 | | |
| 2,600.00 | 2,535.98 | 2,524.98 | 2,535.98 | 13.22 | 86.46 | 126.09 | 788.04 | -1,480.49 | 1,938.87 | 1,839.57 | 99.30 | 19.525 | | |
| 2,700.00 | 2,632.62 | 2,621.62 | 2,632.62 | 13.75 | 89.84 | 126.69 | 788.04 | -1,480.49 | 1,954.47 | 1,851.31 | 103.16 | 18.946 | | |
| 2,800.00 | 2,729.26 | 2,718.26 | 2,729.26 | 14.27 | 93.21 | 127.27 | 788.04 | -1,480.49 | 1,970.27 | 1,863.25 | 107.02 | 18.410 | | |
| 2,900.00 | 2,825.89 | 2,814.89 | 2,825.89 | 14.80 | 96.58 | 127.85 | 788.04 | -1,480.49 | 1,986.28 | 1,875.40 | 110.88 | 17.914 | | |
| 3,000.00 | 2,922.53 | 2,911.53 | 2,922.53 | 15.32 | 99.95 | 128.42 | 788.04 | -1,480.49 | 2,002.50 | 1,887.76 | 114.74 | 17.452 | | |
| 3,100.00 | 3,019.17 | 3,008.17 | 3,019.17 | 15.85 | 103.32 | 128.98 | 788.04 | -1,480.49 | 2,018.91 | 1,900.31 | 118.60 | 17.023 | | |
| 3,200.00 | 3,115.81 | 3,104.81 | 3,115.81 | 16.38 | 106.69 | 129.53 | 788.04 | -1,480.49 | 2,035.51 | 1,913.05 | 122.46 | 16.622 | | |
| 3,300.00 | 3,212.44 | 3,201.44 | 3,212.44 | 16.91 | 110.07 | 130.08 | 788.04 | -1,480.49 | 2,052.31 | 1,925.98 | 126.32 | 16.247 | | |
| 3,400.00 | 3,309.08 | 3,301.92 | 3,309.08 | 17.44 | 113.57 | 130.61 | 788.04 | -1,480.49 | 2,069.28 | 1,938.97 | 130.32 | 15.879 | | |
| 3,500.00 | 3,405.72 | 3,405.28 | 3,405.72 | 17.97 | 117.18 | 131.14 | 788.04 | -1,480.49 | 2,086.44 | 1,952.02 | 134.41 | 15.523 | | |
| 3,600.00 | 3,502.36 | 3,508.64 | 3,502.36 | 18.50 | 120.79 | 131.65 | 788.04 | -1,480.49 | 2,103.76 | 1,965.26 | 138.51 | 15.189 | | |
| 3,700.00 | 3,598.99 | 3,587.99 | 3,598.99 | 19.03 | 123.56 | 132.16 | 788.04 | -1,480.49 | 2,121.26 | 1,979.50 | 141.76 | 14.964 | | |
| 3,800.00 | 3,695.63 | 3,684.63 | 3,695.63 | 19.57 | 126.93 | 132.66 | 788.04 | -1,480.49 | 2,138.93 | 1,993.31 | 145.62 | 14.688 | | |
| 3,900.00 | 3,792.27 | 3,781.27 | 3,792.27 | 20.10 | 130.30 | 133.16 | 788.04 | -1,480.49 | 2,156.75 | 2,007.27 | 149.48 | 14.428 | | |
| 4,000.00 | 3,888.91 | 3,877.91 | 3,888.91 | 20.63 | 133.67 | 133.64 | 788.04 | -1,480.49 | 2,174.74 | 2,021.40 | 153.34 | 14.183 | | |
| 4,100.00 | 3,985.54 | 3,974.54 | 3,985.54 | 21.17 | 137.05 | 134.12 | 788.04 | -1,480.49 | 2,192.88 | 2,035.68 | 157.20 | 13.950 | | |
| 4,200.00 | 4,082.18 | 4,071.18 | 4,082.18 | 21.70 | 140.42 | 134.59 | 788.04 | -1,480.49 | 2,211.17 | 2,050.11 | 161.05 | 13.729 | | |
| 4,300.00 | 4,178.82 | 4,167.82 | 4,178.82 | 22.24 | 143.79 | 135.05 | 788.04 | -1,480.49 | 2,229.60 | 2,064.69 | 164.91 | 13.520 | | |
| 4,400.00 | 4,275.46 | 4,264.46 | 4,275.46 | 22.77 | 147.16 | 135.51 | 788.04 | -1,480.49 | 2,248.18 | 2,079.41 | 168.77 | 13.321 | | |
| 4,500.00 | 4,372.09 | 4,361.09 | 4,372.09 | 23.31 | 150.54 | 135.96 | 788.04 | -1,480.49 | 2,266.90 | 2,094.27 | 172.63 | 13.132 | | |
| 4,600.00 | 4,468.73 | 4,457.73 | 4,468.73 | 23.84 | 153.91 | 136.40 | 788.04 | -1,480.49 | 2,285.75 | 2,109.27 | 176.48 | 12.952 | | |
| 4,700.00 | 4,565.37 | 4,554.37 | 4,565.37 | 24.38 | 157.28 | 136.83 | 788.04 | -1,480.49 | 2,304.74 | 2,124.40 | 180.34 | 12.780 | | |
| 4,800.00 | 4,662.01 | 4,651.01 | 4,662.01 | 24.91 | 160.65 | 137.26 | 788.04 | -1,480.49 | 2,323.85 | 2,139.66 | 184.19 | 12.616 | | |
| 4,900.00 | 4,758.64 | 4,747.64 | 4,758.64 | 25.45 | 164.03 | 137.68 | 788.04 | -1,480.49 | 2,343.09 | 2,155.05 | 188.05 | 12.460 | | |
| 5,000.00 | 4,855.28 | 4,844.28 | 4,855.28 | 25.99 | 167.40 | 138.09 | 788.04 | -1,480.49 | 2,362.46 | 2,170.56 | 191.90 | 12.311 | | |
| 5,100.00 | 4,951.92 | 4,940.92 | 4,951.92 | 26.53 | 170.77 | 138.50 | 788.04 | -1,480.49 | 2,381.95 | 2,186.19 | 195.76 | 12.168 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-25(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,037.56 | 5,048.56 | 27.06 | 174.15 | 138.90 | 788.04 | -1,480.49 | 2,401.55 | 2,201.94 | 199.61 | 12.031 | | |
| 5,300.00 | 5,145.19 | 5,134.19 | 5,145.19 | 27.60 | 177.52 | 139.30 | 788.04 | -1,480.49 | 2,421.26 | 2,217.80 | 203.47 | 11.900 | | |
| 5,400.00 | 5,241.83 | 5,230.83 | 5,241.83 | 28.14 | 180.89 | 139.68 | 788.04 | -1,480.49 | 2,441.09 | 2,233.77 | 207.32 | 11.775 | | |
| 5,500.00 | 5,338.47 | 5,327.47 | 5,338.47 | 28.67 | 184.27 | 140.07 | 788.04 | -1,480.49 | 2,461.03 | 2,249.86 | 211.17 | 11.654 | | |
| 5,600.00 | 5,435.11 | 5,424.11 | 5,435.11 | 29.21 | 187.64 | 140.44 | 788.04 | -1,480.49 | 2,481.07 | 2,266.05 | 215.03 | 11.538 | | |
| 5,700.00 | 5,531.74 | 5,520.74 | 5,531.74 | 29.75 | 191.01 | 140.81 | 788.04 | -1,480.49 | 2,501.22 | 2,282.34 | 218.88 | 11.427 | | |
| 5,800.00 | 5,628.38 | 5,617.38 | 5,628.38 | 30.29 | 194.39 | 141.18 | 788.04 | -1,480.49 | 2,521.47 | 2,298.74 | 222.73 | 11.321 | | |
| 5,900.00 | 5,725.02 | 5,714.02 | 5,725.02 | 30.83 | 197.76 | 141.53 | 788.04 | -1,480.49 | 2,541.82 | 2,315.23 | 226.58 | 11.218 | | |
| 6,000.00 | 5,821.66 | 5,810.66 | 5,821.66 | 31.37 | 201.13 | 141.89 | 788.04 | -1,480.49 | 2,562.26 | 2,331.83 | 230.44 | 11.119 | | |
| 6,100.00 | 5,918.29 | 5,907.29 | 5,918.29 | 31.90 | 204.50 | 142.24 | 788.04 | -1,480.49 | 2,582.80 | 2,348.51 | 234.29 | 11.024 | | |
| 6,200.00 | 6,014.93 | 6,003.93 | 6,014.93 | 32.44 | 207.88 | 142.58 | 788.04 | -1,480.49 | 2,603.43 | 2,365.29 | 238.14 | 10.932 | | |
| 6,300.00 | 6,111.57 | 6,100.57 | 6,111.57 | 32.98 | 211.25 | 142.91 | 788.04 | -1,480.49 | 2,624.15 | 2,382.16 | 241.99 | 10.844 | | |
| 6,400.00 | 6,208.21 | 6,202.79 | 6,208.21 | 33.52 | 214.82 | 143.25 | 788.04 | -1,480.49 | 2,644.96 | 2,398.92 | 246.04 | 10.750 | | |
| 6,500.00 | 6,304.84 | 6,306.16 | 6,304.84 | 34.06 | 218.43 | 143.57 | 788.04 | -1,480.49 | 2,665.85 | 2,415.73 | 250.12 | 10.658 | | |
| 6,600.00 | 6,401.37 | 6,409.63 | 6,401.37 | 34.60 | 222.04 | 126.45 | 788.04 | -1,480.49 | 2,685.73 | 2,431.52 | 254.21 | 10.565 | | |
| 6,700.00 | 6,496.25 | 6,485.25 | 6,496.25 | 35.12 | 224.68 | 103.54 | 788.04 | -1,480.49 | 2,698.66 | 2,441.34 | 257.32 | 10.488 | | |
| 6,800.00 | 6,587.15 | 6,576.15 | 6,587.15 | 35.59 | 227.85 | 91.54 | 788.04 | -1,480.49 | 2,703.85 | 2,442.92 | 260.93 | 10.362 | | |
| 6,900.00 | 6,671.83 | 6,660.83 | 6,671.83 | 36.03 | 230.81 | 85.62 | 788.04 | -1,480.49 | 2,701.73 | 2,437.44 | 264.29 | 10.223 | | |
| 7,000.00 | 6,748.21 | 6,737.21 | 6,748.21 | 36.41 | 233.47 | 83.06 | 788.04 | -1,480.49 | 2,693.02 | 2,425.67 | 267.35 | 10.073 | | |
| 7,100.00 | 6,814.41 | 6,803.41 | 6,814.41 | 36.76 | 235.78 | 82.53 | 788.04 | -1,480.49 | 2,678.65 | 2,408.57 | 270.09 | 9.918 | | |
| 7,200.00 | 6,868.79 | 6,857.79 | 6,868.79 | 37.07 | 237.68 | 83.30 | 788.04 | -1,480.49 | 2,659.71 | 2,387.22 | 272.49 | 9.761 | | |
| 7,300.00 | 6,910.01 | 6,900.99 | 6,910.01 | 37.39 | 239.19 | 84.89 | 788.04 | -1,480.49 | 2,637.33 | 2,362.71 | 274.62 | 9.604 | | |
| 7,400.00 | 6,937.07 | 6,926.07 | 6,937.07 | 37.76 | 240.07 | 86.96 | 788.04 | -1,480.49 | 2,612.62 | 2,336.34 | 276.27 | 9.457 | | |
| 7,500.00 | 6,949.29 | 6,938.29 | 6,949.29 | 38.27 | 240.49 | 89.27 | 788.04 | -1,480.49 | 2,586.58 | 2,308.95 | 277.64 | 9.316 | | |
| 7,600.00 | 6,949.75 | 6,938.75 | 6,949.75 | 39.02 | 240.51 | 90.05 | 788.04 | -1,480.49 | 2,560.89 | 2,282.14 | 278.75 | 9.187 | | |
| 7,700.00 | 6,949.37 | 6,938.37 | 6,949.37 | 40.05 | 240.50 | 90.05 | 788.04 | -1,480.49 | 2,538.65 | 2,258.66 | 279.99 | 9.067 | | |
| 7,800.00 | 6,948.99 | 6,937.99 | 6,948.99 | 41.35 | 240.48 | 90.04 | 788.04 | -1,480.49 | 2,520.19 | 2,238.79 | 281.39 | 8.956 | | |
| 7,900.00 | 6,948.61 | 6,937.61 | 6,948.61 | 42.86 | 240.47 | 90.03 | 788.04 | -1,480.49 | 2,505.58 | 2,222.66 | 282.93 | 8.856 | | |
| 8,000.00 | 6,948.23 | 6,937.23 | 6,948.23 | 44.53 | 240.46 | 90.02 | 788.04 | -1,480.49 | 2,494.90 | 2,210.33 | 284.57 | 8.767 | | |
| 8,100.00 | 6,947.85 | 6,936.85 | 6,947.85 | 46.34 | 240.44 | 90.01 | 788.04 | -1,480.49 | 2,488.20 | 2,201.90 | 286.31 | 8.691 | | |
| 8,200.00 | 6,947.47 | 6,936.47 | 6,947.47 | 48.26 | 240.43 | 90.00 | 788.04 | -1,480.49 | 2,485.51 | 2,197.40 | 288.10 | 8.627 | | |
| 8,217.00 | 6,947.41 | 6,936.41 | 6,947.41 | 48.61 | 240.43 | 90.00 | 788.04 | -1,480.49 | 2,485.45 | 2,197.03 | 288.42 | 8.617 | | |
| 8,300.00 | 6,947.09 | 6,936.09 | 6,947.09 | 50.28 | 240.42 | 89.99 | 788.04 | -1,480.49 | 2,486.84 | 2,196.89 | 289.95 | 8.577 | | |
| 8,400.00 | 6,946.72 | 6,935.72 | 6,946.72 | 52.39 | 240.40 | 89.98 | 788.04 | -1,480.49 | 2,492.18 | 2,200.37 | 291.81 | 8.541 | | |
| 8,500.00 | 6,946.34 | 6,935.34 | 6,946.34 | 54.56 | 240.39 | 89.98 | 788.04 | -1,480.49 | 2,501.51 | 2,207.84 | 293.67 | 8.518 | | |
| 8,600.00 | 6,945.96 | 6,934.96 | 6,945.96 | 56.80 | 240.38 | 89.97 | 788.04 | -1,480.49 | 2,514.79 | 2,219.27 | 295.51 | 8.510 SF | | |
| 8,700.00 | 6,945.58 | 6,934.58 | 6,945.58 | 59.10 | 240.36 | 89.96 | 788.04 | -1,480.49 | 2,531.94 | 2,234.62 | 297.32 | 8.516 | | |
| 8,800.00 | 6,945.20 | 6,934.20 | 6,945.20 | 61.44 | 240.35 | 89.95 | 788.04 | -1,480.49 | 2,552.91 | 2,253.82 | 299.08 | 8.536 | | |
| 8,900.00 | 6,944.82 | 6,933.82 | 6,944.82 | 63.83 | 240.34 | 89.94 | 788.04 | -1,480.49 | 2,577.58 | 2,276.80 | 300.79 | 8.569 | | |
| 9,000.00 | 6,944.44 | 6,933.44 | 6,944.44 | 66.25 | 240.32 | 89.93 | 788.04 | -1,480.49 | 2,605.87 | 2,303.44 | 302.42 | 8.617 | | |
| 9,100.00 | 6,944.06 | 6,933.06 | 6,944.06 | 68.71 | 240.31 | 89.92 | 788.04 | -1,480.49 | 2,637.64 | 2,333.66 | 303.98 | 8.677 | | |
| 9,200.00 | 6,943.68 | 6,932.68 | 6,943.68 | 71.20 | 240.30 | 89.91 | 788.04 | -1,480.49 | 2,672.78 | 2,367.31 | 305.46 | 8.750 | | |
| 9,300.00 | 6,943.30 | 6,932.30 | 6,943.30 | 73.72 | 240.28 | 89.91 | 788.04 | -1,480.49 | 2,711.15 | 2,404.29 | 306.86 | 8.835 | | |
| 9,400.00 | 6,942.92 | 6,931.92 | 6,942.92 | 76.26 | 240.27 | 89.90 | 788.04 | -1,480.49 | 2,752.62 | 2,444.45 | 308.17 | 8.932 | | |
| 9,500.00 | 6,942.54 | 6,931.54 | 6,942.54 | 78.82 | 240.26 | 89.89 | 788.04 | -1,480.49 | 2,797.06 | 2,487.66 | 309.40 | 9.040 | | |
| 9,600.00 | 6,942.16 | 6,931.16 | 6,942.16 | 81.40 | 240.24 | 89.88 | 788.04 | -1,480.49 | 2,844.31 | 2,533.77 | 310.54 | 9.159 | | |
| 9,700.00 | 6,941.78 | 6,930.78 | 6,941.78 | 84.00 | 240.23 | 89.87 | 788.04 | -1,480.49 | 2,894.26 | 2,582.65 | 311.60 | 9.288 | | |
| 9,800.00 | 6,941.40 | 6,930.40 | 6,941.40 | 86.62 | 240.22 | 89.86 | 788.04 | -1,480.49 | 2,946.75 | 2,634.16 | 312.58 | 9.427 | | |
| 9,900.00 | 6,941.03 | 6,930.03 | 6,941.03 | 89.25 | 240.20 | 89.85 | 788.04 | -1,480.49 | 3,001.65 | 2,688.16 | 313.49 | 9.575 | | |
| 10,000.00 | 6,940.65 | 6,929.65 | 6,940.65 | 91.90 | 240.19 | 89.84 | 788.04 | -1,480.49 | 3,058.84 | 2,744.52 | 314.32 | 9.732 | | |
| 10,100.00 | 6,940.27 | 6,929.27 | 6,940.27 | 94.56 | 240.18 | 89.84 | 788.04 | -1,480.49 | 3,118.19 | 2,803.10 | 315.09 | 9.896 | | |
| 10,200.00 | 6,939.89 | 6,928.89 | 6,939.89 | 97.23 | 240.16 | 89.83 | 788.04 | -1,480.49 | 3,179.57 | 2,863.79 | 315.79 | 10.069 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - SENA 15-25(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,928.51 | 6,939.51 | 99.91 | 240.15 | 89.82 | 788.04 | -1,480.49 | 3,242.88 | 2,926.45 | 316.43 | 10.248 | | |
| 10,400.00 | 6,939.13 | 6,928.13 | 6,939.13 | 102.60 | 240.14 | 89.81 | 788.04 | -1,480.49 | 3,308.00 | 2,990.99 | 317.01 | 10.435 | | |
| 10,500.00 | 6,938.75 | 6,927.75 | 6,938.75 | 105.30 | 240.13 | 89.80 | 788.04 | -1,480.49 | 3,374.83 | 3,057.28 | 317.55 | 10.628 | | |
| 10,600.00 | 6,938.37 | 6,927.37 | 6,938.37 | 108.00 | 240.11 | 89.79 | 788.04 | -1,480.49 | 3,443.26 | 3,125.23 | 318.03 | 10.827 | | |
| 10,700.00 | 6,937.99 | 6,926.99 | 6,937.99 | 110.72 | 240.10 | 89.78 | 788.04 | -1,480.49 | 3,513.21 | 3,194.74 | 318.47 | 11.032 | | |
| 10,800.00 | 6,937.61 | 6,926.61 | 6,937.61 | 113.44 | 240.09 | 89.77 | 788.04 | -1,480.49 | 3,584.59 | 3,265.72 | 318.87 | 11.242 | | |
| 10,900.00 | 6,937.23 | 6,926.23 | 6,937.23 | 116.17 | 240.07 | 89.77 | 788.04 | -1,480.49 | 3,657.30 | 3,338.07 | 319.23 | 11.457 | | |
| 11,000.00 | 6,936.85 | 6,925.85 | 6,936.85 | 118.90 | 240.06 | 89.76 | 788.04 | -1,480.49 | 3,731.28 | 3,411.73 | 319.55 | 11.677 | | |
| 11,100.00 | 6,936.47 | 6,925.47 | 6,936.47 | 121.64 | 240.05 | 89.75 | 788.04 | -1,480.49 | 3,806.45 | 3,486.60 | 319.85 | 11.901 | | |
| 11,200.00 | 6,936.09 | 6,925.09 | 6,936.09 | 124.39 | 240.03 | 89.74 | 788.04 | -1,480.49 | 3,882.73 | 3,562.62 | 320.11 | 12.129 | | |
| 11,300.00 | 6,935.71 | 6,924.71 | 6,935.71 | 127.14 | 240.02 | 89.73 | 788.04 | -1,480.49 | 3,960.08 | 3,639.73 | 320.35 | 12.362 | | |
| 11,400.00 | 6,935.34 | 6,924.34 | 6,935.34 | 129.90 | 240.01 | 89.72 | 788.04 | -1,480.49 | 4,038.42 | 3,717.86 | 320.56 | 12.598 | | |
| 11,500.00 | 6,934.96 | 6,923.96 | 6,934.96 | 132.66 | 239.99 | 89.71 | 788.04 | -1,480.49 | 4,117.69 | 3,796.94 | 320.75 | 12.838 | | |
| 11,600.00 | 6,934.58 | 6,923.58 | 6,934.58 | 135.42 | 239.98 | 89.70 | 788.04 | -1,480.49 | 4,197.85 | 3,876.93 | 320.92 | 13.081 | | |
| 11,700.00 | 6,934.20 | 6,923.20 | 6,934.20 | 138.19 | 239.97 | 89.70 | 788.04 | -1,480.49 | 4,278.85 | 3,957.78 | 321.07 | 13.327 | | |
| 11,800.00 | 6,933.82 | 6,922.82 | 6,933.82 | 140.96 | 239.95 | 89.69 | 788.04 | -1,480.49 | 4,360.64 | 4,039.43 | 321.21 | 13.576 | | |
| 11,900.00 | 6,933.44 | 6,922.44 | 6,933.44 | 143.74 | 239.94 | 89.68 | 788.04 | -1,480.49 | 4,443.17 | 4,121.84 | 321.33 | 13.827 | | |
| 12,000.00 | 6,933.06 | 6,922.06 | 6,933.06 | 146.51 | 239.93 | 89.67 | 788.04 | -1,480.49 | 4,526.40 | 4,204.97 | 321.44 | 14.082 | | |
| 12,100.00 | 6,932.68 | 6,921.68 | 6,932.68 | 149.30 | 239.91 | 89.66 | 788.04 | -1,480.49 | 4,610.31 | 4,288.78 | 321.53 | 14.339 | | |
| 12,200.00 | 6,932.30 | 6,921.30 | 6,932.30 | 152.08 | 239.90 | 89.65 | 788.04 | -1,480.49 | 4,694.84 | 4,373.23 | 321.61 | 14.598 | | |
| 12,300.00 | 6,931.92 | 6,920.92 | 6,931.92 | 154.87 | 239.89 | 89.64 | 788.04 | -1,480.49 | 4,779.97 | 4,458.29 | 321.68 | 14.859 | | |
| 12,400.00 | 6,931.54 | 6,920.54 | 6,931.54 | 157.66 | 239.87 | 89.63 | 788.04 | -1,480.49 | 4,865.66 | 4,543.92 | 321.75 | 15.123 | | |
| 12,500.00 | 6,931.16 | 6,920.16 | 6,931.16 | 160.45 | 239.86 | 89.63 | 788.04 | -1,480.49 | 4,951.90 | 4,630.10 | 321.80 | 15.388 | | |
| 12,600.00 | 6,930.78 | 6,919.78 | 6,930.78 | 163.24 | 239.85 | 89.62 | 788.04 | -1,480.49 | 5,038.64 | 4,716.79 | 321.85 | 15.655 | | |
| 12,700.00 | 6,930.40 | 6,919.40 | 6,930.40 | 166.04 | 239.83 | 89.61 | 788.04 | -1,480.49 | 5,125.86 | 4,803.98 | 321.89 | 15.925 | | |
| 12,800.00 | 6,930.03 | 6,919.03 | 6,930.03 | 168.84 | 239.82 | 89.60 | 788.04 | -1,480.49 | 5,213.54 | 4,891.63 | 321.92 | 16.195 | | |
| 12,900.00 | 6,929.65 | 6,918.65 | 6,929.65 | 171.64 | 239.81 | 89.59 | 788.04 | -1,480.49 | 5,301.66 | 4,979.72 | 321.95 | 16.468 | | |
| 13,000.00 | 6,929.27 | 6,918.27 | 6,929.27 | 174.44 | 239.79 | 89.58 | 788.04 | -1,480.49 | 5,390.20 | 5,068.23 | 321.97 | 16.741 | | |
| 13,100.00 | 6,928.89 | 6,917.89 | 6,928.89 | 177.24 | 239.78 | 89.57 | 788.04 | -1,480.49 | 5,479.12 | 5,157.14 | 321.98 | 17.017 | | |
| 13,200.00 | 6,928.51 | 6,917.51 | 6,928.51 | 180.05 | 239.77 | 89.56 | 788.04 | -1,480.49 | 5,568.43 | 5,246.43 | 322.00 | 17.293 | | |
| 13,300.00 | 6,928.13 | 6,917.13 | 6,928.13 | 182.86 | 239.75 | 89.56 | 788.04 | -1,480.49 | 5,658.09 | 5,336.08 | 322.01 | 17.571 | | |
| 13,400.00 | 6,927.75 | 6,916.75 | 6,927.75 | 185.67 | 239.74 | 89.55 | 788.04 | -1,480.49 | 5,748.09 | 5,426.08 | 322.01 | 17.850 | | |
| 13,500.00 | 6,927.37 | 6,916.37 | 6,927.37 | 188.48 | 239.73 | 89.54 | 788.04 | -1,480.49 | 5,838.42 | 5,516.40 | 322.02 | 18.131 | | |
| 13,600.00 | 6,926.99 | 6,915.99 | 6,926.99 | 191.29 | 239.71 | 89.53 | 788.04 | -1,480.49 | 5,929.06 | 5,607.04 | 322.02 | 18.412 | | |
| 13,700.00 | 6,926.61 | 6,915.61 | 6,926.61 | 194.10 | 239.70 | 89.52 | 788.04 | -1,480.49 | 6,019.99 | 5,697.98 | 322.01 | 18.695 | | |
| 13,800.00 | 6,926.23 | 6,915.23 | 6,926.23 | 196.92 | 239.69 | 89.51 | 788.04 | -1,480.49 | 6,111.21 | 5,789.20 | 322.01 | 18.978 | | |
| 13,900.00 | 6,925.85 | 6,914.85 | 6,925.85 | 199.73 | 239.67 | 89.50 | 788.04 | -1,480.49 | 6,202.70 | 5,880.69 | 322.01 | 19.263 | | |
| 14,000.00 | 6,925.47 | 6,914.47 | 6,925.47 | 202.55 | 239.66 | 89.49 | 788.04 | -1,480.49 | 6,294.45 | 5,972.45 | 322.00 | 19.548 | | |
| 14,100.00 | 6,925.09 | 6,914.09 | 6,925.09 | 205.37 | 239.65 | 89.49 | 788.04 | -1,480.49 | 6,386.44 | 6,064.45 | 321.99 | 19.834 | | |
| 14,200.00 | 6,924.71 | 6,913.71 | 6,924.71 | 208.19 | 239.64 | 89.48 | 788.04 | -1,480.49 | 6,478.67 | 6,156.70 | 321.98 | 20.121 | | |
| 14,300.00 | 6,924.34 | 6,913.34 | 6,924.34 | 211.01 | 239.62 | 89.47 | 788.04 | -1,480.49 | 6,571.13 | 6,249.17 | 321.97 | 20.409 | | |
| 14,400.00 | 6,923.96 | 6,912.96 | 6,923.96 | 213.83 | 239.61 | 89.46 | 788.04 | -1,480.49 | 6,663.81 | 6,341.86 | 321.96 | 20.698 | | |
| 14,500.00 | 6,923.58 | 6,912.58 | 6,923.58 | 216.65 | 239.60 | 89.45 | 788.04 | -1,480.49 | 6,756.70 | 6,434.75 | 321.94 | 20.987 | | |
| 14,600.00 | 6,923.20 | 6,912.20 | 6,923.20 | 219.48 | 239.58 | 89.44 | 788.04 | -1,480.49 | 6,849.79 | 6,527.85 | 321.93 | 21.277 | | |
| 14,700.00 | 6,922.82 | 6,911.82 | 6,922.82 | 222.30 | 239.57 | 89.43 | 788.04 | -1,480.49 | 6,943.06 | 6,621.15 | 321.92 | 21.568 | | |
| 14,800.00 | 6,922.44 | 6,911.44 | 6,922.44 | 225.13 | 239.56 | 89.42 | 788.04 | -1,480.49 | 7,036.53 | 6,714.62 | 321.90 | 21.859 | | |
| 14,900.00 | 6,922.06 | 6,911.06 | 6,922.06 | 227.95 | 239.54 | 89.42 | 788.04 | -1,480.49 | 7,130.17 | 6,808.28 | 321.89 | 22.151 | | |
| 14,915.55 | 6,922.00 | 6,911.00 | 6,922.00 | 228.39 | 239.54 | 89.41 | 788.04 | -1,480.49 | 7,144.74 | 6,822.86 | 321.89 | 22.197 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE 1(AB_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 48.00 | 3.28 | 3.28 | -75.44 | 1,295.98 | -4,988.46 | 5,154.28 | | | | |
| 100.00 | 100.00 | 52.00 | 100.00 | 3.28 | 3.40 | -75.44 | 1,295.98 | -4,988.46 | 5,154.06 | 5,147.37 | 6.69 | 770.644 | |
| 200.00 | 200.00 | 152.00 | 200.00 | 3.34 | 4.84 | -75.44 | 1,295.98 | -4,988.46 | 5,154.06 | 5,145.88 | 8.18 | 630.212 | |
| 300.00 | 299.98 | 251.98 | 299.98 | 3.44 | 7.78 | 99.20 | 1,295.98 | -4,988.46 | 5,154.34 | 5,143.12 | 11.22 | 459.553 | |
| 400.00 | 399.84 | 351.84 | 399.84 | 3.59 | 11.04 | 99.24 | 1,295.98 | -4,988.46 | 5,155.18 | 5,140.55 | 14.62 | 352.508 | |
| 500.00 | 499.45 | 451.45 | 499.45 | 3.79 | 14.39 | 99.30 | 1,295.98 | -4,988.46 | 5,156.59 | 5,138.41 | 18.18 | 283.645 | |
| 600.00 | 598.70 | 550.70 | 598.70 | 4.03 | 17.78 | 99.40 | 1,295.98 | -4,988.46 | 5,158.58 | 5,136.77 | 21.81 | 236.482 | |
| 700.00 | 697.47 | 649.47 | 697.47 | 4.31 | 21.18 | 99.51 | 1,295.98 | -4,988.46 | 5,161.18 | 5,135.69 | 25.50 | 202.425 | |
| 800.00 | 795.62 | 747.62 | 795.62 | 4.64 | 24.57 | 99.66 | 1,295.98 | -4,988.46 | 5,164.42 | 5,135.21 | 29.21 | 176.794 | |
| 900.00 | 893.06 | 845.06 | 893.06 | 5.00 | 27.95 | 99.82 | 1,295.98 | -4,988.46 | 5,168.32 | 5,135.38 | 32.95 | 156.870 | |
| 1,000.00 | 989.78 | 941.78 | 989.78 | 5.39 | 31.30 | 100.05 | 1,295.98 | -4,988.46 | 5,172.84 | 5,136.14 | 36.70 | 140.968 | |
| 1,100.00 | 1,086.42 | 1,038.42 | 1,086.42 | 5.81 | 34.66 | 100.32 | 1,295.98 | -4,988.46 | 5,177.54 | 5,137.07 | 40.47 | 127.935 | |
| 1,200.00 | 1,183.06 | 1,135.06 | 1,183.06 | 6.25 | 38.02 | 100.59 | 1,295.98 | -4,988.46 | 5,182.36 | 5,138.09 | 44.27 | 117.072 | |
| 1,300.00 | 1,279.69 | 1,231.69 | 1,279.69 | 6.71 | 41.38 | 100.86 | 1,295.98 | -4,988.46 | 5,187.30 | 5,139.22 | 48.08 | 107.890 | |
| 1,400.00 | 1,376.33 | 1,328.33 | 1,376.33 | 7.17 | 44.75 | 101.13 | 1,295.98 | -4,988.46 | 5,192.37 | 5,140.47 | 51.91 | 100.033 | |
| 1,500.00 | 1,472.97 | 1,424.97 | 1,472.97 | 7.65 | 48.11 | 101.40 | 1,295.98 | -4,988.46 | 5,197.56 | 5,141.82 | 55.75 | 93.238 | |
| 1,600.00 | 1,569.61 | 1,521.61 | 1,569.61 | 8.13 | 51.48 | 101.67 | 1,295.98 | -4,988.46 | 5,202.87 | 5,143.28 | 59.59 | 87.308 | |
| 1,700.00 | 1,666.24 | 1,618.24 | 1,666.24 | 8.62 | 54.85 | 101.94 | 1,295.98 | -4,988.46 | 5,208.31 | 5,144.86 | 63.45 | 82.089 | |
| 1,800.00 | 1,762.88 | 1,714.88 | 1,762.88 | 9.12 | 58.21 | 102.20 | 1,295.98 | -4,988.46 | 5,213.86 | 5,146.56 | 67.31 | 77.463 | |
| 1,900.00 | 1,859.52 | 1,811.52 | 1,859.52 | 9.62 | 61.58 | 102.47 | 1,295.98 | -4,988.46 | 5,219.54 | 5,148.37 | 71.17 | 73.335 | |
| 2,000.00 | 1,956.16 | 1,908.16 | 1,956.16 | 10.13 | 64.95 | 102.74 | 1,295.98 | -4,988.46 | 5,225.34 | 5,150.29 | 75.04 | 69.630 | |
| 2,100.00 | 2,052.79 | 2,004.79 | 2,052.79 | 10.64 | 68.32 | 103.00 | 1,295.98 | -4,988.46 | 5,231.25 | 5,152.33 | 78.92 | 66.286 | |
| 2,200.00 | 2,149.43 | 2,101.43 | 2,149.43 | 11.15 | 71.69 | 103.27 | 1,295.98 | -4,988.46 | 5,237.29 | 5,154.49 | 82.80 | 63.255 | |
| 2,300.00 | 2,246.07 | 2,201.93 | 2,246.07 | 11.66 | 75.20 | 103.53 | 1,295.98 | -4,988.46 | 5,243.44 | 5,156.63 | 86.81 | 60.400 | |
| 2,400.00 | 2,342.71 | 2,305.29 | 2,342.71 | 12.18 | 78.80 | 103.80 | 1,295.98 | -4,988.46 | 5,249.72 | 5,158.79 | 90.93 | 57.735 | |
| 2,500.00 | 2,439.34 | 2,408.66 | 2,439.34 | 12.70 | 82.41 | 104.06 | 1,295.98 | -4,988.46 | 5,256.11 | 5,161.06 | 95.05 | 55.300 | |
| 2,600.00 | 2,535.98 | 2,487.98 | 2,535.98 | 13.22 | 85.17 | 104.32 | 1,295.98 | -4,988.46 | 5,262.62 | 5,164.29 | 98.33 | 53.520 | |
| 2,700.00 | 2,632.62 | 2,584.62 | 2,632.62 | 13.75 | 88.54 | 104.59 | 1,295.98 | -4,988.46 | 5,269.24 | 5,167.03 | 102.22 | 51.550 | |
| 2,800.00 | 2,729.26 | 2,681.26 | 2,729.26 | 14.27 | 91.92 | 104.85 | 1,295.98 | -4,988.46 | 5,275.99 | 5,169.88 | 106.11 | 49.724 | |
| 2,900.00 | 2,825.89 | 2,777.89 | 2,825.89 | 14.80 | 95.29 | 105.11 | 1,295.98 | -4,988.46 | 5,282.85 | 5,172.85 | 110.00 | 48.028 | |
| 3,000.00 | 2,922.53 | 2,874.53 | 2,922.53 | 15.32 | 98.66 | 105.37 | 1,295.98 | -4,988.46 | 5,289.83 | 5,175.94 | 113.89 | 46.448 | |
| 3,100.00 | 3,019.17 | 2,971.17 | 3,019.17 | 15.85 | 102.03 | 105.63 | 1,295.98 | -4,988.46 | 5,296.92 | 5,179.14 | 117.78 | 44.974 | |
| 3,200.00 | 3,115.81 | 3,067.81 | 3,115.81 | 16.38 | 105.40 | 105.89 | 1,295.98 | -4,988.46 | 5,304.13 | 5,182.46 | 121.67 | 43.594 | |
| 3,300.00 | 3,212.44 | 3,164.44 | 3,212.44 | 16.91 | 108.77 | 106.15 | 1,295.98 | -4,988.46 | 5,311.45 | 5,185.88 | 125.56 | 42.301 | |
| 3,400.00 | 3,309.08 | 3,261.08 | 3,309.08 | 17.44 | 112.15 | 106.40 | 1,295.98 | -4,988.46 | 5,318.88 | 5,189.43 | 129.46 | 41.086 | |
| 3,500.00 | 3,405.72 | 3,357.72 | 3,405.72 | 17.97 | 115.52 | 106.66 | 1,295.98 | -4,988.46 | 5,326.44 | 5,193.08 | 133.35 | 39.943 | |
| 3,600.00 | 3,502.36 | 3,454.36 | 3,502.36 | 18.50 | 118.89 | 106.92 | 1,295.98 | -4,988.46 | 5,334.10 | 5,196.85 | 137.25 | 38.865 | |
| 3,700.00 | 3,598.99 | 3,550.99 | 3,598.99 | 19.03 | 122.26 | 107.17 | 1,295.98 | -4,988.46 | 5,341.88 | 5,200.74 | 141.14 | 37.848 | |
| 3,800.00 | 3,695.63 | 3,647.63 | 3,695.63 | 19.57 | 125.64 | 107.43 | 1,295.98 | -4,988.46 | 5,349.76 | 5,204.73 | 145.03 | 36.886 | |
| 3,900.00 | 3,792.27 | 3,744.27 | 3,792.27 | 20.10 | 129.01 | 107.68 | 1,295.98 | -4,988.46 | 5,357.76 | 5,208.83 | 148.93 | 35.975 | |
| 4,000.00 | 3,888.91 | 3,840.91 | 3,888.91 | 20.63 | 132.38 | 107.94 | 1,295.98 | -4,988.46 | 5,365.88 | 5,213.05 | 152.82 | 35.111 | |
| 4,100.00 | 3,985.54 | 3,937.54 | 3,985.54 | 21.17 | 135.75 | 108.19 | 1,295.98 | -4,988.46 | 5,374.10 | 5,217.38 | 156.72 | 34.291 | |
| 4,200.00 | 4,082.18 | 4,034.18 | 4,082.18 | 21.70 | 139.13 | 108.44 | 1,295.98 | -4,988.46 | 5,382.43 | 5,221.82 | 160.61 | 33.511 | |
| 4,300.00 | 4,178.82 | 4,130.82 | 4,178.82 | 22.24 | 142.50 | 108.69 | 1,295.98 | -4,988.46 | 5,390.87 | 5,226.36 | 164.51 | 32.769 | |
| 4,400.00 | 4,275.46 | 4,227.46 | 4,275.46 | 22.77 | 145.87 | 108.94 | 1,295.98 | -4,988.46 | 5,399.43 | 5,231.02 | 168.41 | 32.062 | |
| 4,500.00 | 4,372.09 | 4,324.09 | 4,372.09 | 23.31 | 149.24 | 109.19 | 1,295.98 | -4,988.46 | 5,408.09 | 5,235.79 | 172.30 | 31.388 | |
| 4,600.00 | 4,468.73 | 4,420.73 | 4,468.73 | 23.84 | 152.62 | 109.44 | 1,295.98 | -4,988.46 | 5,416.86 | 5,240.66 | 176.20 | 30.743 | |
| 4,700.00 | 4,565.37 | 4,517.37 | 4,565.37 | 24.38 | 155.99 | 109.69 | 1,295.98 | -4,988.46 | 5,425.73 | 5,245.64 | 180.09 | 30.128 | |
| 4,800.00 | 4,662.01 | 4,614.01 | 4,662.01 | 24.91 | 159.36 | 109.94 | 1,295.98 | -4,988.46 | 5,434.72 | 5,250.73 | 183.99 | 29.539 | |
| 4,900.00 | 4,758.64 | 4,710.64 | 4,758.64 | 25.45 | 162.74 | 110.19 | 1,295.98 | -4,988.46 | 5,443.81 | 5,255.93 | 187.88 | 28.975 | |
| 5,000.00 | 4,855.28 | 4,807.28 | 4,855.28 | 25.99 | 166.11 | 110.43 | 1,295.98 | -4,988.46 | 5,453.00 | 5,261.23 | 191.77 | 28.434 | |
| 5,100.00 | 4,951.92 | 4,903.92 | 4,951.92 | 26.53 | 169.48 | 110.68 | 1,295.98 | -4,988.46 | 5,462.30 | 5,266.64 | 195.67 | 27.916 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE 1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,000.56 | 5,048.56 | 27.06 | 172.86 | 110.92 | 1,295.98 | -4,988.46 | 5,471.71 | 5,272.15 | 199.56 | 27.418 | | |
| 5,300.00 | 5,145.19 | 5,102.81 | 5,145.19 | 27.60 | 176.42 | 111.17 | 1,295.98 | -4,988.46 | 5,481.22 | 5,277.57 | 203.65 | 26.915 | | |
| 5,400.00 | 5,241.83 | 5,206.17 | 5,241.83 | 28.14 | 180.03 | 111.41 | 1,295.98 | -4,988.46 | 5,490.84 | 5,283.06 | 207.78 | 26.426 | | |
| 5,500.00 | 5,338.47 | 5,309.53 | 5,338.47 | 28.67 | 183.64 | 111.65 | 1,295.98 | -4,988.46 | 5,500.56 | 5,288.65 | 211.91 | 25.957 | | |
| 5,600.00 | 5,435.11 | 5,387.11 | 5,435.11 | 29.21 | 186.35 | 111.89 | 1,295.98 | -4,988.46 | 5,510.38 | 5,295.24 | 215.14 | 25.613 | | |
| 5,700.00 | 5,531.74 | 5,483.74 | 5,531.74 | 29.75 | 189.72 | 112.13 | 1,295.98 | -4,988.46 | 5,520.30 | 5,301.27 | 219.03 | 25.203 | | |
| 5,800.00 | 5,628.38 | 5,580.38 | 5,628.38 | 30.29 | 193.09 | 112.37 | 1,295.98 | -4,988.46 | 5,530.33 | 5,307.40 | 222.92 | 24.808 | | |
| 5,900.00 | 5,725.02 | 5,677.02 | 5,725.02 | 30.83 | 196.47 | 112.61 | 1,295.98 | -4,988.46 | 5,540.46 | 5,313.64 | 226.82 | 24.427 | | |
| 6,000.00 | 5,821.66 | 5,773.66 | 5,821.66 | 31.37 | 199.84 | 112.85 | 1,295.98 | -4,988.46 | 5,550.68 | 5,319.97 | 230.71 | 24.059 | | |
| 6,100.00 | 5,918.29 | 5,870.29 | 5,918.29 | 31.90 | 203.21 | 113.09 | 1,295.98 | -4,988.46 | 5,561.01 | 5,326.41 | 234.60 | 23.704 | | |
| 6,200.00 | 6,014.93 | 5,966.93 | 6,014.93 | 32.44 | 206.59 | 113.32 | 1,295.98 | -4,988.46 | 5,571.44 | 5,332.95 | 238.49 | 23.361 | | |
| 6,300.00 | 6,111.57 | 6,063.57 | 6,111.57 | 32.98 | 209.96 | 113.56 | 1,295.98 | -4,988.46 | 5,581.96 | 5,339.58 | 242.38 | 23.029 | | |
| 6,400.00 | 6,208.21 | 6,160.21 | 6,208.21 | 33.52 | 213.33 | 113.79 | 1,295.98 | -4,988.46 | 5,592.59 | 5,346.31 | 246.27 | 22.709 | | |
| 6,500.00 | 6,304.84 | 6,256.84 | 6,304.84 | 34.06 | 216.71 | 114.03 | 1,295.98 | -4,988.46 | 5,603.31 | 5,353.15 | 250.17 | 22.398 | | |
| 6,600.00 | 6,401.37 | 6,353.37 | 6,401.37 | 34.60 | 220.08 | 97.40 | 1,295.98 | -4,988.46 | 5,612.24 | 5,358.19 | 254.05 | 22.091 | | |
| 6,700.00 | 6,496.25 | 6,448.25 | 6,496.25 | 35.12 | 223.39 | 75.35 | 1,295.98 | -4,988.46 | 5,609.21 | 5,351.34 | 257.88 | 21.752 | | |
| 6,800.00 | 6,587.15 | 6,539.15 | 6,587.15 | 35.59 | 226.56 | 64.08 | 1,295.98 | -4,988.46 | 5,592.91 | 5,331.37 | 261.53 | 21.385 | | |
| 6,900.00 | 6,671.83 | 6,623.83 | 6,671.83 | 36.03 | 229.52 | 58.92 | 1,295.98 | -4,988.46 | 5,563.85 | 5,298.92 | 264.94 | 21.001 | | |
| 7,000.00 | 6,748.21 | 6,700.21 | 6,748.21 | 36.41 | 232.18 | 57.40 | 1,295.98 | -4,988.46 | 5,522.91 | 5,254.88 | 268.03 | 20.606 | | |
| 7,100.00 | 6,814.41 | 6,766.41 | 6,814.41 | 36.76 | 234.49 | 58.50 | 1,295.98 | -4,988.46 | 5,471.22 | 5,200.46 | 270.76 | 20.207 | | |
| 7,200.00 | 6,868.79 | 6,820.79 | 6,868.79 | 37.07 | 236.39 | 61.91 | 1,295.98 | -4,988.46 | 5,410.16 | 5,137.06 | 273.10 | 19.810 | | |
| 7,300.00 | 6,910.01 | 6,862.01 | 6,910.01 | 37.39 | 237.83 | 67.65 | 1,295.98 | -4,988.46 | 5,341.33 | 5,066.32 | 275.01 | 19.422 | | |
| 7,400.00 | 6,937.07 | 6,889.07 | 6,937.07 | 37.76 | 238.77 | 75.82 | 1,295.98 | -4,988.46 | 5,266.46 | 4,989.98 | 276.47 | 19.049 | | |
| 7,500.00 | 6,949.29 | 6,901.29 | 6,949.29 | 38.27 | 239.20 | 86.36 | 1,295.98 | -4,988.46 | 5,187.40 | 4,909.93 | 277.47 | 18.695 | | |
| 7,600.00 | 6,949.75 | 6,901.75 | 6,949.75 | 39.02 | 239.22 | 90.30 | 1,295.98 | -4,988.46 | 5,106.49 | 4,828.38 | 278.11 | 18.361 | | |
| 7,700.00 | 6,949.37 | 6,901.37 | 6,949.37 | 40.05 | 239.20 | 90.29 | 1,295.98 | -4,988.46 | 5,026.12 | 4,747.30 | 278.81 | 18.027 | | |
| 7,800.00 | 6,948.99 | 6,900.99 | 6,948.99 | 41.35 | 239.19 | 90.28 | 1,295.98 | -4,988.46 | 4,946.46 | 4,666.85 | 279.61 | 17.690 | | |
| 7,900.00 | 6,948.61 | 6,900.61 | 6,948.61 | 42.86 | 239.18 | 90.28 | 1,295.98 | -4,988.46 | 4,867.56 | 4,587.05 | 280.51 | 17.353 | | |
| 8,000.00 | 6,948.23 | 6,900.23 | 6,948.23 | 44.53 | 239.16 | 90.27 | 1,295.98 | -4,988.46 | 4,789.44 | 4,507.94 | 281.50 | 17.014 | | |
| 8,100.00 | 6,947.85 | 6,900.15 | 6,947.85 | 46.34 | 239.16 | 90.26 | 1,295.98 | -4,988.46 | 4,712.15 | 4,429.54 | 282.61 | 16.674 | | |
| 8,200.00 | 6,947.47 | 6,900.53 | 6,947.47 | 48.26 | 239.17 | 90.25 | 1,295.98 | -4,988.46 | 4,635.73 | 4,351.89 | 283.84 | 16.332 | | |
| 8,300.00 | 6,947.09 | 6,900.91 | 6,947.09 | 50.28 | 239.19 | 90.25 | 1,295.98 | -4,988.46 | 4,560.23 | 4,275.05 | 285.18 | 15.991 | | |
| 8,400.00 | 6,946.72 | 6,901.28 | 6,946.72 | 52.39 | 239.20 | 90.24 | 1,295.98 | -4,988.46 | 4,485.68 | 4,199.05 | 286.62 | 15.650 | | |
| 8,500.00 | 6,946.34 | 6,901.66 | 6,946.34 | 54.56 | 239.21 | 90.23 | 1,295.98 | -4,988.46 | 4,412.13 | 4,123.96 | 288.18 | 15.311 | | |
| 8,600.00 | 6,945.96 | 6,902.04 | 6,945.96 | 56.80 | 239.23 | 90.23 | 1,295.98 | -4,988.46 | 4,339.65 | 4,049.81 | 289.84 | 14.973 | | |
| 8,700.00 | 6,945.58 | 6,902.42 | 6,945.58 | 59.10 | 239.24 | 90.22 | 1,295.98 | -4,988.46 | 4,268.28 | 3,976.67 | 291.61 | 14.637 | | |
| 8,800.00 | 6,945.20 | 6,902.80 | 6,945.20 | 61.44 | 239.25 | 90.21 | 1,295.98 | -4,988.46 | 4,198.07 | 3,904.58 | 293.49 | 14.304 | | |
| 8,900.00 | 6,944.82 | 6,903.18 | 6,944.82 | 63.83 | 239.27 | 90.20 | 1,295.98 | -4,988.46 | 4,129.10 | 3,833.62 | 295.48 | 13.974 | | |
| 9,000.00 | 6,944.44 | 6,903.56 | 6,944.44 | 66.25 | 239.28 | 90.20 | 1,295.98 | -4,988.46 | 4,061.41 | 3,763.83 | 297.58 | 13.648 | | |
| 9,100.00 | 6,944.06 | 6,903.94 | 6,944.06 | 68.71 | 239.29 | 90.19 | 1,295.98 | -4,988.46 | 3,995.08 | 3,695.30 | 299.78 | 13.327 | | |
| 9,200.00 | 6,943.68 | 6,904.32 | 6,943.68 | 71.20 | 239.31 | 90.18 | 1,295.98 | -4,988.46 | 3,930.18 | 3,628.09 | 302.10 | 13.010 | | |
| 9,300.00 | 6,943.30 | 6,904.70 | 6,943.30 | 73.72 | 239.32 | 90.17 | 1,295.98 | -4,988.46 | 3,866.78 | 3,562.27 | 304.51 | 12.698 | | |
| 9,400.00 | 6,942.92 | 6,905.08 | 6,942.92 | 76.26 | 239.33 | 90.17 | 1,295.98 | -4,988.46 | 3,804.94 | 3,497.91 | 307.03 | 12.393 | | |
| 9,500.00 | 6,942.54 | 6,905.46 | 6,942.54 | 78.82 | 239.35 | 90.16 | 1,295.98 | -4,988.46 | 3,744.76 | 3,435.12 | 309.64 | 12.094 | | |
| 9,600.00 | 6,942.16 | 6,905.84 | 6,942.16 | 81.40 | 239.36 | 90.15 | 1,295.98 | -4,988.46 | 3,686.30 | 3,373.95 | 312.35 | 11.802 | | |
| 9,700.00 | 6,941.78 | 6,906.22 | 6,941.78 | 84.00 | 239.37 | 90.15 | 1,295.98 | -4,988.46 | 3,629.67 | 3,314.51 | 315.16 | 11.517 | | |
| 9,800.00 | 6,941.40 | 6,906.60 | 6,941.40 | 86.62 | 239.39 | 90.14 | 1,295.98 | -4,988.46 | 3,574.93 | 3,256.88 | 318.05 | 11.240 | | |
| 9,900.00 | 6,941.03 | 6,906.97 | 6,941.03 | 89.25 | 239.40 | 90.13 | 1,295.98 | -4,988.46 | 3,522.18 | 3,201.15 | 321.02 | 10.972 | | |
| 10,000.00 | 6,940.65 | 6,907.35 | 6,940.65 | 91.90 | 239.41 | 90.12 | 1,295.98 | -4,988.46 | 3,471.51 | 3,147.44 | 324.07 | 10.712 | | |
| 10,100.00 | 6,940.27 | 6,907.73 | 6,940.27 | 94.56 | 239.43 | 90.12 | 1,295.98 | -4,988.46 | 3,423.01 | 3,095.82 | 327.19 | 10.462 | | |
| 10,200.00 | 6,939.89 | 6,908.11 | 6,939.89 | 97.23 | 239.44 | 90.11 | 1,295.98 | -4,988.46 | 3,376.77 | 3,046.41 | 330.37 | 10.221 | | |
| 10,300.00 | 6,939.51 | 6,908.49 | 6,939.51 | 99.91 | 239.45 | 90.10 | 1,295.98 | -4,988.46 | 3,332.90 | 2,999.30 | 333.60 | 9.991 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE 1(AB_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,400.00 | 6,939.13 | 6,908.87 | 6,939.13 | 102.60 | 239.47 | 90.10 | 1,295.98 | -4,988.46 | 3,291.48 | 2,954.61 | 336.87 | 9.771 | |
| 10,500.00 | 6,938.75 | 6,909.25 | 6,938.75 | 105.30 | 239.48 | 90.09 | 1,295.98 | -4,988.46 | 3,252.61 | 2,912.43 | 340.18 | 9.561 | |
| 10,600.00 | 6,938.37 | 6,909.63 | 6,938.37 | 108.00 | 239.49 | 90.08 | 1,295.98 | -4,988.46 | 3,216.38 | 2,872.87 | 343.51 | 9.363 | |
| 10,700.00 | 6,937.99 | 6,889.99 | 6,937.99 | 110.72 | 238.81 | 90.07 | 1,295.98 | -4,988.46 | 3,182.88 | 2,836.73 | 346.15 | 9.195 | |
| 10,800.00 | 6,937.61 | 6,889.61 | 6,937.61 | 113.44 | 238.79 | 90.07 | 1,295.98 | -4,988.46 | 3,152.20 | 2,802.74 | 349.46 | 9.020 | |
| 10,900.00 | 6,937.23 | 6,889.23 | 6,937.23 | 116.17 | 238.78 | 90.06 | 1,295.98 | -4,988.46 | 3,124.42 | 2,771.67 | 352.75 | 8.857 | |
| 11,000.00 | 6,936.85 | 6,888.85 | 6,936.85 | 118.90 | 238.77 | 90.05 | 1,295.98 | -4,988.46 | 3,099.61 | 2,743.61 | 356.01 | 8.707 | |
| 11,100.00 | 6,936.47 | 6,888.47 | 6,936.47 | 121.64 | 238.75 | 90.04 | 1,295.98 | -4,988.46 | 3,077.86 | 2,718.64 | 359.22 | 8.568 | |
| 11,200.00 | 6,936.09 | 6,888.09 | 6,936.09 | 124.39 | 238.74 | 90.04 | 1,295.98 | -4,988.46 | 3,059.22 | 2,696.85 | 362.37 | 8.442 | |
| 11,300.00 | 6,935.71 | 6,887.71 | 6,935.71 | 127.14 | 238.73 | 90.03 | 1,295.98 | -4,988.46 | 3,043.76 | 2,678.31 | 365.45 | 8.329 | |
| 11,400.00 | 6,935.34 | 6,887.34 | 6,935.34 | 129.90 | 238.71 | 90.02 | 1,295.98 | -4,988.46 | 3,031.52 | 2,663.08 | 368.44 | 8.228 | |
| 11,500.00 | 6,934.96 | 6,886.96 | 6,934.96 | 132.66 | 238.70 | 90.02 | 1,295.98 | -4,988.46 | 3,022.53 | 2,651.21 | 371.33 | 8.140 | |
| 11,600.00 | 6,934.58 | 6,886.58 | 6,934.58 | 135.42 | 238.69 | 90.01 | 1,295.98 | -4,988.46 | 3,016.84 | 2,642.74 | 374.10 | 8.064 | |
| 11,700.00 | 6,934.20 | 6,886.20 | 6,934.20 | 138.19 | 238.67 | 90.00 | 1,295.98 | -4,988.46 | 3,014.46 | 2,637.71 | 376.75 | 8.001 | |
| 11,721.89 | 6,934.11 | 6,886.11 | 6,934.11 | 138.80 | 238.67 | 90.00 | 1,295.98 | -4,988.46 | 3,014.38 | 2,637.07 | 377.31 | 7.989 CC | |
| 11,800.00 | 6,933.82 | 6,885.82 | 6,933.82 | 140.96 | 238.66 | 89.99 | 1,295.98 | -4,988.46 | 3,015.39 | 2,636.13 | 379.26 | 7.951 ES | |
| 11,900.00 | 6,933.44 | 6,885.44 | 6,933.44 | 143.74 | 238.65 | 89.99 | 1,295.98 | -4,988.46 | 3,019.64 | 2,638.01 | 381.63 | 7.912 | |
| 12,000.00 | 6,933.06 | 6,885.06 | 6,933.06 | 146.51 | 238.63 | 89.98 | 1,295.98 | -4,988.46 | 3,027.18 | 2,643.33 | 383.85 | 7.886 | |
| 12,100.00 | 6,932.68 | 6,884.68 | 6,932.68 | 149.30 | 238.62 | 89.97 | 1,295.98 | -4,988.46 | 3,038.00 | 2,652.09 | 385.90 | 7.872 | |
| 12,200.00 | 6,932.30 | 6,884.30 | 6,932.30 | 152.08 | 238.61 | 89.97 | 1,295.98 | -4,988.46 | 3,052.06 | 2,664.26 | 387.80 | 7.870 SF | |
| 12,300.00 | 6,931.92 | 6,883.92 | 6,931.92 | 154.87 | 238.60 | 89.96 | 1,295.98 | -4,988.46 | 3,069.31 | 2,679.78 | 389.54 | 7.879 | |
| 12,400.00 | 6,931.54 | 6,883.54 | 6,931.54 | 157.66 | 238.58 | 89.95 | 1,295.98 | -4,988.46 | 3,089.71 | 2,698.60 | 391.11 | 7.900 | |
| 12,500.00 | 6,931.16 | 6,883.16 | 6,931.16 | 160.45 | 238.57 | 89.94 | 1,295.98 | -4,988.46 | 3,113.19 | 2,720.67 | 392.51 | 7.931 | |
| 12,600.00 | 6,930.78 | 6,882.78 | 6,930.78 | 163.24 | 238.56 | 89.94 | 1,295.98 | -4,988.46 | 3,139.67 | 2,745.91 | 393.76 | 7.974 | |
| 12,700.00 | 6,930.40 | 6,882.40 | 6,930.40 | 166.04 | 238.54 | 89.93 | 1,295.98 | -4,988.46 | 3,169.09 | 2,774.25 | 394.85 | 8.026 | |
| 12,800.00 | 6,930.03 | 6,882.03 | 6,930.03 | 168.84 | 238.53 | 89.92 | 1,295.98 | -4,988.46 | 3,201.37 | 2,805.59 | 395.79 | 8.089 | |
| 12,900.00 | 6,929.65 | 6,881.65 | 6,929.65 | 171.64 | 238.52 | 89.92 | 1,295.98 | -4,988.46 | 3,236.42 | 2,839.84 | 396.58 | 8.161 | |
| 13,000.00 | 6,929.27 | 6,881.27 | 6,929.27 | 174.44 | 238.50 | 89.91 | 1,295.98 | -4,988.46 | 3,274.14 | 2,876.91 | 397.23 | 8.242 | |
| 13,100.00 | 6,928.89 | 6,880.89 | 6,928.89 | 177.24 | 238.49 | 89.90 | 1,295.98 | -4,988.46 | 3,314.46 | 2,916.71 | 397.75 | 8.333 | |
| 13,200.00 | 6,928.51 | 6,880.51 | 6,928.51 | 180.05 | 238.48 | 89.89 | 1,295.98 | -4,988.46 | 3,357.27 | 2,959.12 | 398.15 | 8.432 | |
| 13,300.00 | 6,928.13 | 6,880.13 | 6,928.13 | 182.86 | 238.46 | 89.89 | 1,295.98 | -4,988.46 | 3,402.48 | 3,004.05 | 398.43 | 8.540 | |
| 13,400.00 | 6,927.75 | 6,879.75 | 6,927.75 | 185.67 | 238.45 | 89.88 | 1,295.98 | -4,988.46 | 3,450.00 | 3,051.40 | 398.60 | 8.655 | |
| 13,500.00 | 6,927.37 | 6,879.37 | 6,927.37 | 188.48 | 238.44 | 89.87 | 1,295.98 | -4,988.46 | 3,499.73 | 3,101.06 | 398.67 | 8.778 | |
| 13,600.00 | 6,926.99 | 6,878.99 | 6,926.99 | 191.29 | 238.42 | 89.86 | 1,295.98 | -4,988.46 | 3,551.58 | 3,152.93 | 398.65 | 8.909 | |
| 13,700.00 | 6,926.61 | 6,878.61 | 6,926.61 | 194.10 | 238.41 | 89.86 | 1,295.98 | -4,988.46 | 3,605.46 | 3,206.91 | 398.55 | 9.046 | |
| 13,800.00 | 6,926.23 | 6,878.23 | 6,926.23 | 196.92 | 238.40 | 89.85 | 1,295.98 | -4,988.46 | 3,661.28 | 3,262.91 | 398.37 | 9.191 | |
| 13,900.00 | 6,925.85 | 6,877.85 | 6,925.85 | 199.73 | 238.38 | 89.84 | 1,295.98 | -4,988.46 | 3,718.95 | 3,320.83 | 398.12 | 9.341 | |
| 14,000.00 | 6,925.47 | 6,877.47 | 6,925.47 | 202.55 | 238.37 | 89.84 | 1,295.98 | -4,988.46 | 3,778.38 | 3,380.58 | 397.80 | 9.498 | |
| 14,100.00 | 6,925.09 | 6,877.09 | 6,925.09 | 205.37 | 238.36 | 89.83 | 1,295.98 | -4,988.46 | 3,839.50 | 3,442.07 | 397.44 | 9.661 | |
| 14,200.00 | 6,924.71 | 6,876.71 | 6,924.71 | 208.19 | 238.34 | 89.82 | 1,295.98 | -4,988.46 | 3,902.23 | 3,505.21 | 397.02 | 9.829 | |
| 14,300.00 | 6,924.34 | 6,876.34 | 6,924.34 | 211.01 | 238.33 | 89.81 | 1,295.98 | -4,988.46 | 3,966.49 | 3,569.93 | 396.56 | 10.002 | |
| 14,400.00 | 6,923.96 | 6,875.96 | 6,923.96 | 213.83 | 238.32 | 89.81 | 1,295.98 | -4,988.46 | 4,032.20 | 3,636.14 | 396.06 | 10.181 | |
| 14,500.00 | 6,923.58 | 6,875.58 | 6,923.58 | 216.65 | 238.30 | 89.80 | 1,295.98 | -4,988.46 | 4,099.30 | 3,703.77 | 395.53 | 10.364 | |
| 14,600.00 | 6,923.20 | 6,875.20 | 6,923.20 | 219.48 | 238.29 | 89.79 | 1,295.98 | -4,988.46 | 4,167.72 | 3,772.75 | 394.97 | 10.552 | |
| 14,700.00 | 6,922.82 | 6,874.82 | 6,922.82 | 222.30 | 238.28 | 89.79 | 1,295.98 | -4,988.46 | 4,237.39 | 3,843.01 | 394.38 | 10.744 | |
| 14,800.00 | 6,922.44 | 6,874.44 | 6,922.44 | 225.13 | 238.26 | 89.78 | 1,295.98 | -4,988.46 | 4,308.26 | 3,914.49 | 393.77 | 10.941 | |
| 14,900.00 | 6,922.06 | 6,874.06 | 6,922.06 | 227.95 | 238.25 | 89.77 | 1,295.98 | -4,988.46 | 4,380.26 | 3,987.11 | 393.15 | 11.141 | |
| 14,915.55 | 6,922.00 | 6,874.00 | 6,922.00 | 228.39 | 238.25 | 89.77 | 1,295.98 | -4,988.46 | 4,391.56 | 3,998.51 | 393.05 | 11.173 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE BEATRICE 16-1(AB_150CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 46.00 | 3.28 | 3.28 | -75.57 | 1,316.77 | -5,118.34 | 5,285.21 | | | | |
| 100.00 | 100.00 | 54.00 | 100.00 | 3.28 | 3.41 | -75.57 | 1,316.77 | -5,118.34 | 5,285.01 | 5,278.31 | 6.70 | 789.105 | |
| 200.00 | 200.00 | 154.00 | 200.00 | 3.34 | 4.89 | -75.57 | 1,316.77 | -5,118.34 | 5,285.01 | 5,276.78 | 8.23 | 642.174 | |
| 300.00 | 299.98 | 253.98 | 299.98 | 3.44 | 7.84 | 99.06 | 1,316.77 | -5,118.34 | 5,285.28 | 5,274.00 | 11.28 | 468.580 | |
| 400.00 | 399.84 | 353.84 | 399.84 | 3.59 | 11.10 | 99.10 | 1,316.77 | -5,118.34 | 5,286.11 | 5,271.42 | 14.69 | 359.820 | |
| 500.00 | 499.45 | 453.45 | 499.45 | 3.79 | 14.46 | 99.16 | 1,316.77 | -5,118.34 | 5,287.50 | 5,269.25 | 18.25 | 289.762 | |
| 600.00 | 598.70 | 552.70 | 598.70 | 4.03 | 17.85 | 99.25 | 1,316.77 | -5,118.34 | 5,289.46 | 5,267.58 | 21.88 | 241.722 | |
| 700.00 | 697.47 | 651.47 | 697.47 | 4.31 | 21.25 | 99.37 | 1,316.77 | -5,118.34 | 5,292.03 | 5,266.46 | 25.57 | 206.997 | |
| 800.00 | 795.62 | 749.62 | 795.62 | 4.64 | 24.64 | 99.51 | 1,316.77 | -5,118.34 | 5,295.21 | 5,265.93 | 29.28 | 180.843 | |
| 900.00 | 893.06 | 847.06 | 893.06 | 5.00 | 28.02 | 99.66 | 1,316.77 | -5,118.34 | 5,299.06 | 5,266.04 | 33.02 | 160.500 | |
| 1,000.00 | 989.78 | 943.78 | 989.78 | 5.39 | 31.37 | 99.89 | 1,316.77 | -5,118.34 | 5,303.50 | 5,266.74 | 36.76 | 144.256 | |
| 1,100.00 | 1,086.42 | 1,040.42 | 1,086.42 | 5.81 | 34.73 | 100.15 | 1,316.77 | -5,118.34 | 5,308.13 | 5,267.59 | 40.54 | 130.937 | |
| 1,200.00 | 1,183.06 | 1,137.06 | 1,183.06 | 6.25 | 38.09 | 100.42 | 1,316.77 | -5,118.34 | 5,312.87 | 5,268.53 | 44.34 | 119.832 | |
| 1,300.00 | 1,279.69 | 1,233.69 | 1,279.69 | 6.71 | 41.45 | 100.68 | 1,316.77 | -5,118.34 | 5,317.74 | 5,269.59 | 48.15 | 110.442 | |
| 1,400.00 | 1,376.33 | 1,330.33 | 1,376.33 | 7.17 | 44.82 | 100.94 | 1,316.77 | -5,118.34 | 5,322.72 | 5,270.74 | 51.98 | 102.406 | |
| 1,500.00 | 1,472.97 | 1,426.97 | 1,472.97 | 7.65 | 48.18 | 101.21 | 1,316.77 | -5,118.34 | 5,327.83 | 5,272.01 | 55.82 | 95.455 | |
| 1,600.00 | 1,569.61 | 1,523.61 | 1,569.61 | 8.13 | 51.55 | 101.47 | 1,316.77 | -5,118.34 | 5,333.05 | 5,273.39 | 59.66 | 89.387 | |
| 1,700.00 | 1,666.24 | 1,620.24 | 1,666.24 | 8.62 | 54.92 | 101.73 | 1,316.77 | -5,118.34 | 5,338.39 | 5,274.87 | 63.52 | 84.046 | |
| 1,800.00 | 1,762.88 | 1,716.88 | 1,762.88 | 9.12 | 58.28 | 101.99 | 1,316.77 | -5,118.34 | 5,343.85 | 5,276.47 | 67.38 | 79.311 | |
| 1,900.00 | 1,859.52 | 1,813.52 | 1,859.52 | 9.62 | 61.65 | 102.25 | 1,316.77 | -5,118.34 | 5,349.43 | 5,278.19 | 71.25 | 75.085 | |
| 2,000.00 | 1,956.16 | 1,910.16 | 1,956.16 | 10.13 | 65.02 | 102.51 | 1,316.77 | -5,118.34 | 5,355.13 | 5,280.01 | 75.12 | 71.292 | |
| 2,100.00 | 2,052.79 | 2,006.79 | 2,052.79 | 10.64 | 68.39 | 102.77 | 1,316.77 | -5,118.34 | 5,360.94 | 5,281.95 | 78.99 | 67.868 | |
| 2,200.00 | 2,149.43 | 2,103.43 | 2,149.43 | 11.15 | 71.76 | 103.03 | 1,316.77 | -5,118.34 | 5,366.87 | 5,284.00 | 82.87 | 64.764 | |
| 2,300.00 | 2,246.07 | 2,200.07 | 2,246.07 | 11.66 | 75.13 | 103.29 | 1,316.77 | -5,118.34 | 5,372.92 | 5,286.17 | 86.75 | 61.937 | |
| 2,400.00 | 2,342.71 | 2,303.29 | 2,342.71 | 12.18 | 78.73 | 103.55 | 1,316.77 | -5,118.34 | 5,379.08 | 5,288.22 | 90.86 | 59.202 | |
| 2,500.00 | 2,439.34 | 2,406.66 | 2,439.34 | 12.70 | 82.34 | 103.81 | 1,316.77 | -5,118.34 | 5,385.36 | 5,290.38 | 94.98 | 56.700 | |
| 2,600.00 | 2,535.98 | 2,489.98 | 2,535.98 | 13.22 | 85.24 | 104.06 | 1,316.77 | -5,118.34 | 5,391.75 | 5,293.35 | 98.40 | 54.793 | |
| 2,700.00 | 2,632.62 | 2,586.62 | 2,632.62 | 13.75 | 88.61 | 104.32 | 1,316.77 | -5,118.34 | 5,398.26 | 5,295.97 | 102.29 | 52.774 | |
| 2,800.00 | 2,729.26 | 2,683.26 | 2,729.26 | 14.27 | 91.99 | 104.57 | 1,316.77 | -5,118.34 | 5,404.89 | 5,298.71 | 106.18 | 50.904 | |
| 2,900.00 | 2,825.89 | 2,779.89 | 2,825.89 | 14.80 | 95.36 | 104.83 | 1,316.77 | -5,118.34 | 5,411.63 | 5,301.56 | 110.07 | 49.166 | |
| 3,000.00 | 2,922.53 | 2,876.53 | 2,922.53 | 15.32 | 98.73 | 105.08 | 1,316.77 | -5,118.34 | 5,418.48 | 5,304.52 | 113.96 | 47.547 | |
| 3,100.00 | 3,019.17 | 2,973.17 | 3,019.17 | 15.85 | 102.10 | 105.34 | 1,316.77 | -5,118.34 | 5,425.44 | 5,307.59 | 117.85 | 46.036 | |
| 3,200.00 | 3,115.81 | 3,069.81 | 3,115.81 | 16.38 | 105.47 | 105.59 | 1,316.77 | -5,118.34 | 5,432.52 | 5,310.77 | 121.74 | 44.622 | |
| 3,300.00 | 3,212.44 | 3,166.44 | 3,212.44 | 16.91 | 108.84 | 105.84 | 1,316.77 | -5,118.34 | 5,439.71 | 5,314.07 | 125.64 | 43.297 | |
| 3,400.00 | 3,309.08 | 3,263.08 | 3,309.08 | 17.44 | 112.22 | 106.10 | 1,316.77 | -5,118.34 | 5,447.01 | 5,317.48 | 129.53 | 42.052 | |
| 3,500.00 | 3,405.72 | 3,359.72 | 3,405.72 | 17.97 | 115.59 | 106.35 | 1,316.77 | -5,118.34 | 5,454.42 | 5,321.00 | 133.43 | 40.880 | |
| 3,600.00 | 3,502.36 | 3,456.36 | 3,502.36 | 18.50 | 118.96 | 106.60 | 1,316.77 | -5,118.34 | 5,461.95 | 5,324.63 | 137.32 | 39.775 | |
| 3,700.00 | 3,598.99 | 3,552.99 | 3,598.99 | 19.03 | 122.33 | 106.85 | 1,316.77 | -5,118.34 | 5,469.58 | 5,328.37 | 141.22 | 38.732 | |
| 3,800.00 | 3,695.63 | 3,649.63 | 3,695.63 | 19.57 | 125.71 | 107.10 | 1,316.77 | -5,118.34 | 5,477.33 | 5,332.22 | 145.11 | 37.746 | |
| 3,900.00 | 3,792.27 | 3,746.27 | 3,792.27 | 20.10 | 129.08 | 107.35 | 1,316.77 | -5,118.34 | 5,485.18 | 5,336.18 | 149.01 | 36.812 | |
| 4,000.00 | 3,888.91 | 3,842.91 | 3,888.91 | 20.63 | 132.45 | 107.60 | 1,316.77 | -5,118.34 | 5,493.14 | 5,340.24 | 152.90 | 35.926 | |
| 4,100.00 | 3,985.54 | 3,939.54 | 3,985.54 | 21.17 | 135.82 | 107.84 | 1,316.77 | -5,118.34 | 5,501.22 | 5,344.42 | 156.80 | 35.085 | |
| 4,200.00 | 4,082.18 | 4,036.18 | 4,082.18 | 21.70 | 139.20 | 108.09 | 1,316.77 | -5,118.34 | 5,509.40 | 5,348.70 | 160.69 | 34.285 | |
| 4,300.00 | 4,178.82 | 4,132.82 | 4,178.82 | 22.24 | 142.57 | 108.34 | 1,316.77 | -5,118.34 | 5,517.68 | 5,353.10 | 164.59 | 33.524 | |
| 4,400.00 | 4,275.46 | 4,229.46 | 4,275.46 | 22.77 | 145.94 | 108.58 | 1,316.77 | -5,118.34 | 5,526.08 | 5,357.60 | 168.48 | 32.799 | |
| 4,500.00 | 4,372.09 | 4,326.09 | 4,372.09 | 23.31 | 149.31 | 108.83 | 1,316.77 | -5,118.34 | 5,534.58 | 5,362.20 | 172.38 | 32.107 | |
| 4,600.00 | 4,468.73 | 4,422.73 | 4,468.73 | 23.84 | 152.69 | 109.07 | 1,316.77 | -5,118.34 | 5,543.19 | 5,366.92 | 176.28 | 31.446 | |
| 4,700.00 | 4,565.37 | 4,519.37 | 4,565.37 | 24.38 | 156.06 | 109.31 | 1,316.77 | -5,118.34 | 5,551.90 | 5,371.73 | 180.17 | 30.815 | |
| 4,800.00 | 4,662.01 | 4,616.01 | 4,662.01 | 24.91 | 159.43 | 109.56 | 1,316.77 | -5,118.34 | 5,560.72 | 5,376.66 | 184.07 | 30.211 | |
| 4,900.00 | 4,758.64 | 4,712.64 | 4,758.64 | 25.45 | 162.81 | 109.80 | 1,316.77 | -5,118.34 | 5,569.65 | 5,381.69 | 187.96 | 29.632 | |
| 5,000.00 | 4,855.28 | 4,809.28 | 4,855.28 | 25.99 | 166.18 | 110.04 | 1,316.77 | -5,118.34 | 5,578.68 | 5,386.82 | 191.86 | 29.077 | |
| 5,100.00 | 4,951.92 | 4,905.92 | 4,951.92 | 26.53 | 169.55 | 110.28 | 1,316.77 | -5,118.34 | 5,587.81 | 5,392.06 | 195.75 | 28.545 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE BEATRICE 16-1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 5,200.00 | 5,048.56 | 5,002.56 | 5,048.56 | 27.06 | 172.93 | 110.52 | 1,316.77 | -5,118.34 | 5,597.04 | 5,397.40 | 199.65 | 28.035 | | |
| 5,300.00 | 5,145.19 | 5,100.81 | 5,145.19 | 27.60 | 176.35 | 110.76 | 1,316.77 | -5,118.34 | 5,606.38 | 5,402.78 | 203.60 | 27.537 | | |
| 5,400.00 | 5,241.83 | 5,204.17 | 5,241.83 | 28.14 | 179.96 | 111.00 | 1,316.77 | -5,118.34 | 5,615.82 | 5,408.09 | 207.73 | 27.035 | | |
| 5,500.00 | 5,338.47 | 5,307.53 | 5,338.47 | 28.67 | 183.57 | 111.23 | 1,316.77 | -5,118.34 | 5,625.36 | 5,413.51 | 211.85 | 26.553 | | |
| 5,600.00 | 5,435.11 | 5,389.11 | 5,435.11 | 29.21 | 186.42 | 111.47 | 1,316.77 | -5,118.34 | 5,635.01 | 5,419.78 | 215.22 | 26.182 | | |
| 5,700.00 | 5,531.74 | 5,485.74 | 5,531.74 | 29.75 | 189.79 | 111.71 | 1,316.77 | -5,118.34 | 5,644.75 | 5,425.63 | 219.12 | 25.761 | | |
| 5,800.00 | 5,628.38 | 5,582.38 | 5,628.38 | 30.29 | 193.16 | 111.94 | 1,316.77 | -5,118.34 | 5,654.59 | 5,431.58 | 223.01 | 25.356 | | |
| 5,900.00 | 5,725.02 | 5,679.02 | 5,725.02 | 30.83 | 196.54 | 112.18 | 1,316.77 | -5,118.34 | 5,664.54 | 5,437.63 | 226.90 | 24.965 | | |
| 6,000.00 | 5,821.66 | 5,775.66 | 5,821.66 | 31.37 | 199.91 | 112.41 | 1,316.77 | -5,118.34 | 5,674.58 | 5,443.78 | 230.80 | 24.587 | | |
| 6,100.00 | 5,918.29 | 5,872.29 | 5,918.29 | 31.90 | 203.28 | 112.64 | 1,316.77 | -5,118.34 | 5,684.72 | 5,450.03 | 234.69 | 24.222 | | |
| 6,200.00 | 6,014.93 | 5,968.93 | 6,014.93 | 32.44 | 206.66 | 112.87 | 1,316.77 | -5,118.34 | 5,694.96 | 5,456.38 | 238.58 | 23.870 | | |
| 6,300.00 | 6,111.57 | 6,065.57 | 6,111.57 | 32.98 | 210.03 | 113.11 | 1,316.77 | -5,118.34 | 5,705.30 | 5,462.82 | 242.47 | 23.530 | | |
| 6,400.00 | 6,208.21 | 6,162.21 | 6,208.21 | 33.52 | 213.40 | 113.34 | 1,316.77 | -5,118.34 | 5,715.73 | 5,469.36 | 246.37 | 23.200 | | |
| 6,500.00 | 6,304.84 | 6,258.84 | 6,304.84 | 34.06 | 216.78 | 113.57 | 1,316.77 | -5,118.34 | 5,726.26 | 5,476.00 | 250.26 | 22.882 | | |
| 6,600.00 | 6,401.37 | 6,355.37 | 6,401.37 | 34.60 | 220.15 | 96.94 | 1,316.77 | -5,118.34 | 5,734.99 | 5,480.84 | 254.14 | 22.566 | | |
| 6,700.00 | 6,496.25 | 6,450.25 | 6,496.25 | 35.12 | 223.46 | 74.89 | 1,316.77 | -5,118.34 | 5,731.70 | 5,473.73 | 257.97 | 22.219 | | |
| 6,800.00 | 6,587.15 | 6,541.15 | 6,587.15 | 35.59 | 226.63 | 63.62 | 1,316.77 | -5,118.34 | 5,715.07 | 5,453.44 | 261.62 | 21.845 | | |
| 6,900.00 | 6,671.83 | 6,625.83 | 6,671.83 | 36.03 | 229.59 | 58.45 | 1,316.77 | -5,118.34 | 5,685.63 | 5,420.60 | 265.03 | 21.453 | | |
| 7,000.00 | 6,748.21 | 6,702.21 | 6,748.21 | 36.41 | 232.25 | 56.92 | 1,316.77 | -5,118.34 | 5,644.24 | 5,376.12 | 268.12 | 21.051 | | |
| 7,100.00 | 6,814.41 | 6,768.41 | 6,814.41 | 36.76 | 234.56 | 58.02 | 1,316.77 | -5,118.34 | 5,592.05 | 5,321.20 | 270.86 | 20.646 | | |
| 7,200.00 | 6,868.79 | 6,822.79 | 6,868.79 | 37.07 | 236.46 | 61.44 | 1,316.77 | -5,118.34 | 5,530.45 | 5,257.26 | 273.19 | 20.244 | | |
| 7,300.00 | 6,910.01 | 6,864.01 | 6,910.01 | 37.39 | 237.90 | 67.23 | 1,316.77 | -5,118.34 | 5,461.03 | 5,185.93 | 275.10 | 19.851 | | |
| 7,400.00 | 6,937.07 | 6,908.93 | 6,937.07 | 37.76 | 239.47 | 75.53 | 1,316.77 | -5,118.34 | 5,385.54 | 5,108.36 | 277.18 | 19.430 | | |
| 7,500.00 | 6,949.29 | 6,903.29 | 6,949.29 | 38.27 | 239.27 | 86.27 | 1,316.77 | -5,118.34 | 5,305.85 | 5,028.31 | 277.54 | 19.117 | | |
| 7,600.00 | 6,949.75 | 6,903.75 | 6,949.75 | 39.02 | 239.29 | 90.30 | 1,316.77 | -5,118.34 | 5,224.29 | 4,946.12 | 278.17 | 18.781 | | |
| 7,700.00 | 6,949.37 | 6,903.37 | 6,949.37 | 40.05 | 239.27 | 90.30 | 1,316.77 | -5,118.34 | 5,143.24 | 4,864.38 | 278.85 | 18.444 | | |
| 7,800.00 | 6,948.99 | 6,902.99 | 6,948.99 | 41.35 | 239.26 | 90.29 | 1,316.77 | -5,118.34 | 5,062.86 | 4,783.23 | 279.63 | 18.105 | | |
| 7,900.00 | 6,948.61 | 6,902.61 | 6,948.61 | 42.86 | | | | | | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE BEATRICE 16-1(AB_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,906.87 | 6,939.13 | 102.60 | 239.40 | 90.10 | 1,316.77 | -5,118.34 | 3,365.15 | 3,029.36 | 335.79 | 10.022 | | |
| 10,500.00 | 6,938.75 | 6,907.25 | 6,938.75 | 105.30 | 239.41 | 90.10 | 1,316.77 | -5,118.34 | 3,323.23 | 2,984.13 | 339.10 | 9.800 | | |
| 10,600.00 | 6,938.37 | 6,907.63 | 6,938.37 | 108.00 | 239.42 | 90.09 | 1,316.77 | -5,118.34 | 3,283.83 | 2,941.39 | 342.44 | 9.589 | | |
| 10,700.00 | 6,937.99 | 6,908.01 | 6,937.99 | 110.72 | 239.44 | 90.08 | 1,316.77 | -5,118.34 | 3,247.03 | 2,901.22 | 345.81 | 9.390 | | |
| 10,800.00 | 6,937.61 | 6,908.39 | 6,937.61 | 113.44 | 239.45 | 90.08 | 1,316.77 | -5,118.34 | 3,212.93 | 2,863.74 | 349.19 | 9.201 | | |
| 10,900.00 | 6,937.23 | 6,908.77 | 6,937.23 | 116.17 | 239.46 | 90.07 | 1,316.77 | -5,118.34 | 3,181.60 | 2,829.04 | 352.56 | 9.024 | | |
| 11,000.00 | 6,936.85 | 6,909.15 | 6,936.85 | 118.90 | 239.48 | 90.06 | 1,316.77 | -5,118.34 | 3,153.13 | 2,797.22 | 355.92 | 8.859 | | |
| 11,100.00 | 6,936.47 | 6,909.53 | 6,936.47 | 121.64 | 239.49 | 90.05 | 1,316.77 | -5,118.34 | 3,127.61 | 2,768.37 | 359.24 | 8.706 | | |
| 11,200.00 | 6,936.09 | 6,909.91 | 6,936.09 | 124.39 | 239.50 | 90.05 | 1,316.77 | -5,118.34 | 3,105.09 | 2,742.57 | 362.52 | 8.565 | | |
| 11,300.00 | 6,935.71 | 6,889.71 | 6,935.71 | 127.14 | 238.80 | 90.04 | 1,316.77 | -5,118.34 | 3,085.65 | 2,720.63 | 365.02 | 8.453 | | |
| 11,400.00 | 6,935.34 | 6,889.34 | 6,935.34 | 129.90 | 238.78 | 90.03 | 1,316.77 | -5,118.34 | 3,069.35 | 2,701.21 | 368.15 | 8.337 | | |
| 11,500.00 | 6,934.96 | 6,888.96 | 6,934.96 | 132.66 | 238.77 | 90.03 | 1,316.77 | -5,118.34 | 3,056.24 | 2,685.06 | 371.18 | 8.234 | | |
| 11,600.00 | 6,934.58 | 6,888.58 | 6,934.58 | 135.42 | 238.76 | 90.02 | 1,316.77 | -5,118.34 | 3,046.36 | 2,672.24 | 374.11 | 8.143 | | |
| 11,700.00 | 6,934.20 | 6,888.20 | 6,934.20 | 138.19 | 238.74 | 90.01 | 1,316.77 | -5,118.34 | 3,039.73 | 2,662.80 | 376.93 | 8.064 | | |
| 11,800.00 | 6,933.82 | 6,887.82 | 6,933.82 | 140.96 | 238.73 | 90.00 | 1,316.77 | -5,118.34 | 3,036.38 | 2,656.75 | 379.63 | 7.998 | | |
| 11,851.65 | 6,933.62 | 6,887.62 | 6,933.62 | 142.39 | 238.72 | 90.00 | 1,316.77 | -5,118.34 | 3,035.94 | 2,654.98 | 380.97 | 7.969 CC | | |
| 11,900.00 | 6,933.44 | 6,887.44 | 6,933.44 | 143.74 | 238.72 | 90.00 | 1,316.77 | -5,118.34 | 3,036.33 | 2,654.14 | 382.19 | 7.945 ES | | |
| 12,000.00 | 6,933.06 | 6,887.06 | 6,933.06 | 146.51 | 238.70 | 89.99 | 1,316.77 | -5,118.34 | 3,039.57 | 2,654.96 | 384.60 | 7.903 | | |
| 12,100.00 | 6,932.68 | 6,886.68 | 6,932.68 | 149.30 | 238.69 | 89.98 | 1,316.77 | -5,118.34 | 3,046.08 | 2,659.22 | 386.87 | 7.874 | | |
| 12,200.00 | 6,932.30 | 6,886.30 | 6,932.30 | 152.08 | 238.68 | 89.98 | 1,316.77 | -5,118.34 | 3,055.86 | 2,666.89 | 388.97 | 7.856 | | |
| 12,300.00 | 6,931.92 | 6,885.92 | 6,931.92 | 154.87 | 238.67 | 89.97 | 1,316.77 | -5,118.34 | 3,068.87 | 2,677.96 | 390.91 | 7.851 SF | | |
| 12,400.00 | 6,931.54 | 6,885.54 | 6,931.54 | 157.66 | 238.65 | 89.96 | 1,316.77 | -5,118.34 | 3,085.07 | 2,692.38 | 392.69 | 7.856 | | |
| 12,500.00 | 6,931.16 | 6,885.16 | 6,931.16 | 160.45 | 238.64 | 89.95 | 1,316.77 | -5,118.34 | 3,104.40 | 2,710.10 | 394.30 | 7.873 | | |
| 12,600.00 | 6,930.78 | 6,884.78 | 6,930.78 | 163.24 | 238.63 | 89.95 | 1,316.77 | -5,118.34 | 3,126.82 | 2,731.07 | 395.75 | 7.901 | | |
| 12,700.00 | 6,930.40 | 6,884.40 | 6,930.40 | 166.04 | 238.61 | 89.94 | 1,316.77 | -5,118.34 | 3,152.24 | 2,755.21 | 397.03 | 7.939 | | |
| 12,800.00 | 6,930.03 | 6,884.03 | 6,930.03 | 168.84 | 238.60 | 89.93 | 1,316.77 | -5,118.34 | 3,180.62 | 2,782.46 | 398.16 | 7.988 | | |
| 12,900.00 | 6,929.65 | 6,883.65 | 6,929.65 | 171.64 | 238.59 | 89.92 | 1,316.77 | -5,118.34 | 3,211.85 | 2,812.72 | 399.13 | 8.047 | | |
| 13,000.00 | 6,929.27 | 6,883.27 | 6,929.27 | 174.44 | 238.57 | 89.92 | 1,316.77 | -5,118.34 | 3,245.87 | 2,845.92 | 399.95 | 8.116 | | |
| 13,100.00 | 6,928.89 | 6,882.89 | 6,928.89 | 177.24 | 238.56 | 89.91 | 1,316.77 | -5,118.34 | 3,282.58 | 2,881.95 | 400.63 | 8.194 | | |
| 13,200.00 | 6,928.51 | 6,882.51 | 6,928.51 | 180.05 | 238.55 | 89.90 | 1,316.77 | -5,118.34 | 3,321.89 | 2,920.72 | 401.17 | 8.280 | | |
| 13,300.00 | 6,928.13 | 6,882.13 | 6,928.13 | 182.86 | 238.53 | 89.90 | 1,316.77 | -5,118.34 | 3,363.73 | 2,962.14 | 401.59 | 8.376 | | |
| 13,400.00 | 6,927.75 | 6,881.75 | 6,927.75 | 185.67 | 238.52 | 89.89 | 1,316.77 | -5,118.34 | 3,407.98 | 3,006.09 | 401.88 | 8.480 | | |
| 13,500.00 | 6,927.37 | 6,881.37 | 6,927.37 | 188.48 | 238.51 | 89.88 | 1,316.77 | -5,118.34 | 3,454.56 | 3,052.49 | 402.07 | 8.592 | | |
| 13,600.00 | 6,926.99 | 6,880.99 | 6,926.99 | 191.29 | 238.49 | 89.87 | 1,316.77 | -5,118.34 | 3,503.38 | 3,101.23 | 402.15 | 8.712 | | |
| 13,700.00 | 6,926.61 | 6,880.61 | 6,926.61 | 194.10 | 238.48 | 89.87 | 1,316.77 | -5,118.34 | 3,554.34 | 3,152.20 | 402.14 | 8.839 | | |
| 13,800.00 | 6,926.23 | 6,880.23 | 6,926.23 | 196.92 | 238.47 | 89.86 | 1,316.77 | -5,118.34 | 3,607.35 | 3,205.32 | 402.03 | 8.973 | | |
| 13,900.00 | 6,925.85 | 6,879.85 | 6,925.85 | 199.73 | 238.45 | 89.85 | 1,316.77 | -5,118.34 | 3,662.33 | 3,260.48 | 401.85 | 9.114 | | |
| 14,000.00 | 6,925.47 | 6,879.47 | 6,925.47 | 202.55 | 238.44 | 89.85 | 1,316.77 | -5,118.34 | 3,719.18 | 3,317.58 | 401.60 | 9.261 | | |
| 14,100.00 | 6,925.09 | 6,879.09 | 6,925.09 | 205.37 | 238.43 | 89.84 | 1,316.77 | -5,118.34 | 3,777.83 | 3,376.55 | 401.28 | 9.414 | | |
| 14,200.00 | 6,924.71 | 6,878.71 | 6,924.71 | 208.19 | 238.41 | 89.83 | 1,316.77 | -5,118.34 | 3,838.18 | 3,437.28 | 400.90 | 9.574 | | |
| 14,300.00 | 6,924.34 | 6,878.34 | 6,924.34 | 211.01 | 238.40 | 89.82 | 1,316.77 | -5,118.34 | 3,900.17 | 3,499.69 | 400.48 | 9.739 | | |
| 14,400.00 | 6,923.96 | 6,877.96 | 6,923.96 | 213.83 | 238.39 | 89.82 | 1,316.77 | -5,118.34 | 3,963.71 | 3,563.70 | 400.00 | 9.909 | | |
| 14,500.00 | 6,923.58 | 6,877.58 | 6,923.58 | 216.65 | 238.37 | 89.81 | 1,316.77 | -5,118.34 | 4,028.73 | 3,629.24 | 399.49 | 10.085 | | |
| 14,600.00 | 6,923.20 | 6,877.20 | 6,923.20 | 219.48 | 238.36 | 89.80 | 1,316.77 | -5,118.34 | 4,095.15 | 3,696.22 | 398.94 | 10.265 | | |
| 14,700.00 | 6,922.82 | 6,876.82 | 6,922.82 | 222.30 | 238.35 | 89.80 | 1,316.77 | -5,118.34 | 4,162.93 | 3,764.57 | 398.36 | 10.450 | | |
| 14,800.00 | 6,922.44 | 6,876.44 | 6,922.44 | 225.13 | 238.33 | 89.79 | 1,316.77 | -5,118.34 | 4,231.98 | 3,834.22 | 397.75 | 10.640 | | |
| 14,900.00 | 6,922.06 | 6,876.06 | 6,922.06 | 227.95 | 238.32 | 89.78 | 1,316.77 | -5,118.34 | 4,302.24 | 3,905.12 | 397.12 | 10.834 | | |
| 14,915.55 | 6,922.00 | 6,876.00 | 6,922.00 | 228.39 | 238.32 | 89.78 | 1,316.77 | -5,118.34 | 4,313.27 | 3,916.25 | 397.02 | 10.864 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE BEATRICE 32-16(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 53.00 | 3.28 | 3.28 | -91.81 | -155.06 | -4,915.61 | 4,918.34 | | | | | |
| 100.00 | 100.00 | 47.00 | 100.00 | 3.28 | 3.38 | -91.81 | -155.06 | -4,915.61 | 4,918.05 | 4,911.39 | 6.67 | 737.808 | | |
| 200.00 | 200.00 | 147.00 | 200.00 | 3.34 | 4.71 | -91.81 | -155.06 | -4,915.61 | 4,918.05 | 4,910.00 | 8.05 | 610.832 | | |
| 300.00 | 299.98 | 246.98 | 299.98 | 3.44 | 7.62 | 82.84 | -155.06 | -4,915.61 | 4,917.83 | 4,906.78 | 11.06 | 444.728 | | |
| 400.00 | 399.84 | 346.84 | 399.84 | 3.59 | 10.87 | 82.91 | -155.06 | -4,915.61 | 4,917.18 | 4,902.73 | 14.46 | 340.109 | | |
| 500.00 | 499.45 | 446.45 | 499.45 | 3.79 | 14.22 | 83.03 | -155.06 | -4,915.61 | 4,916.11 | 4,898.10 | 18.01 | 272.970 | | |
| 600.00 | 598.70 | 545.70 | 598.70 | 4.03 | 17.61 | 83.20 | -155.06 | -4,915.61 | 4,914.64 | 4,893.00 | 21.64 | 227.087 | | |
| 700.00 | 697.47 | 644.47 | 697.47 | 4.31 | 21.01 | 83.42 | -155.06 | -4,915.61 | 4,912.80 | 4,887.47 | 25.32 | 193.997 | | |
| 800.00 | 795.62 | 742.62 | 795.62 | 4.64 | 24.40 | 83.68 | -155.06 | -4,915.61 | 4,910.61 | 4,881.57 | 29.04 | 169.107 | | |
| 900.00 | 893.06 | 840.06 | 893.06 | 5.00 | 27.78 | 83.98 | -155.06 | -4,915.61 | 4,908.13 | 4,875.36 | 32.77 | 149.759 | | |
| 1,000.00 | 989.78 | 936.78 | 989.78 | 5.39 | 31.13 | 84.29 | -155.06 | -4,915.61 | 4,905.45 | 4,868.93 | 36.52 | 134.313 | | |
| 1,100.00 | 1,086.42 | 1,033.42 | 1,086.42 | 5.81 | 34.49 | 84.58 | -155.06 | -4,915.61 | 4,902.87 | 4,862.57 | 40.30 | 121.663 | | |
| 1,200.00 | 1,183.06 | 1,130.06 | 1,183.06 | 6.25 | 37.85 | 84.87 | -155.06 | -4,915.61 | 4,900.43 | 4,856.33 | 44.10 | 111.129 | | |
| 1,300.00 | 1,279.69 | 1,226.69 | 1,279.69 | 6.71 | 41.21 | 85.16 | -155.06 | -4,915.61 | 4,898.11 | 4,850.20 | 47.91 | 102.231 | | |
| 1,400.00 | 1,376.33 | 1,323.33 | 1,376.33 | 7.17 | 44.57 | 85.45 | -155.06 | -4,915.61 | 4,895.94 | 4,844.19 | 51.74 | 94.622 | | |
| 1,500.00 | 1,472.97 | 1,419.97 | 1,472.97 | 7.65 | 47.94 | 85.74 | -155.06 | -4,915.61 | 4,893.89 | 4,838.31 | 55.58 | 88.047 | | |
| 1,600.00 | 1,569.61 | 1,516.61 | 1,569.61 | 8.13 | 51.30 | 86.03 | -155.06 | -4,915.61 | 4,891.98 | 4,832.55 | 59.43 | 82.310 | | |
| 1,700.00 | 1,666.24 | 1,613.24 | 1,666.24 | 8.62 | 54.67 | 86.32 | -155.06 | -4,915.61 | 4,890.21 | 4,826.91 | 63.29 | 77.265 | | |
| 1,800.00 | 1,762.88 | 1,709.88 | 1,762.88 | 9.12 | 58.04 | 86.61 | -155.06 | -4,915.61 | 4,888.56 | 4,821.41 | 67.16 | 72.793 | | |
| 1,900.00 | 1,859.52 | 1,806.52 | 1,859.52 | 9.62 | 61.41 | 86.90 | -155.06 | -4,915.61 | 4,887.06 | 4,816.03 | 71.03 | 68.806 | | |
| 2,000.00 | 1,956.16 | 1,903.16 | 1,956.16 | 10.13 | 64.78 | 87.19 | -155.06 | -4,915.61 | 4,885.69 | 4,810.78 | 74.90 | 65.227 | | |
| 2,100.00 | 2,052.79 | 2,000.21 | 2,052.79 | 10.64 | 68.16 | 87.48 | -155.06 | -4,915.61 | 4,884.45 | 4,805.65 | 78.80 | 61.989 | | |
| 2,200.00 | 2,149.43 | 2,103.57 | 2,149.43 | 11.15 | 71.77 | 87.77 | -155.06 | -4,915.61 | 4,883.35 | 4,800.43 | 82.91 | 58.897 | | |
| 2,300.00 | 2,246.07 | 2,206.93 | 2,246.07 | 11.66 | 75.37 | 88.06 | -155.06 | -4,915.61 | 4,882.38 | 4,795.35 | 87.03 | 56.098 | | |
| 2,400.00 | 2,342.71 | 2,289.71 | 2,342.71 | 12.18 | 78.26 | 88.36 | -155.06 | -4,915.61 | 4,881.55 | 4,791.11 | 90.44 | 53.977 | | |
| 2,500.00 | 2,439.34 | 2,386.34 | 2,439.34 | 12.70 | 81.63 | 88.65 | -155.06 | -4,915.61 | 4,880.85 | 4,786.53 | 94.33 | 51.743 | | |
| 2,600.00 | 2,535.98 | 2,482.98 | 2,535.98 | 13.22 | 85.00 | 88.94 | -155.06 | -4,915.61 | 4,880.29 | 4,782.07 | 98.22 | 49.687 | | |
| 2,700.00 | 2,632.62 | 2,579.62 | 2,632.62 | 13.75 | 88.37 | 89.23 | -155.06 | -4,915.61 | 4,879.87 | 4,777.75 | 102.12 | 47.788 | | |
| 2,800.00 | 2,729.26 | 2,676.26 | 2,729.26 | 14.27 | 91.74 | 89.52 | -155.06 | -4,915.61 | 4,879.58 | 4,773.57 | 106.01 | 46.029 | | |
| 2,900.00 | 2,825.89 | 2,772.89 | 2,825.89 | 14.80 | 95.11 | 89.81 | -155.06 | -4,915.61 | 4,879.43 | 4,769.52 | 109.91 | 44.395 | | |
| 2,963.60 | 2,887.35 | 2,834.35 | 2,887.35 | 15.13 | 97.26 | 90.00 | -155.06 | -4,915.61 | 4,879.40 | 4,767.01 | 112.39 | 43.416 | | |
| 3,000.00 | 2,922.53 | 2,869.53 | 2,922.53 | 15.32 | 98.48 | 90.11 | -155.06 | -4,915.61 | 4,879.41 | 4,765.60 | 113.81 | 42.874 | | |
| 3,100.00 | 3,019.17 | 2,966.17 | 3,019.17 | 15.85 | 101.86 | 90.40 | -155.06 | -4,915.61 | 4,879.53 | 4,761.82 | 117.71 | 41.455 | | |
| 3,200.00 | 3,115.81 | 3,062.81 | 3,115.81 | 16.38 | 105.23 | 90.69 | -155.06 | -4,915.61 | 4,879.78 | 4,758.17 | 121.61 | 40.127 | | |
| 3,300.00 | 3,212.44 | 3,159.44 | 3,212.44 | 16.91 | 108.60 | 90.98 | -155.06 | -4,915.61 | 4,880.17 | 4,754.66 | 125.51 | 38.883 | | |
| 3,400.00 | 3,309.08 | 3,256.08 | 3,309.08 | 17.44 | 111.97 | 91.27 | -155.06 | -4,915.61 | 4,880.69 | 4,751.28 | 129.41 | 37.715 | | |
| 3,500.00 | 3,405.72 | 3,352.72 | 3,405.72 | 17.97 | 115.34 | 91.56 | -155.06 | -4,915.61 | 4,881.35 | 4,748.03 | 133.31 | 36.616 | | |
| 3,600.00 | 3,502.36 | 3,449.36 | 3,502.36 | 18.50 | 118.72 | 91.86 | -155.06 | -4,915.61 | 4,882.14 | 4,744.93 | 137.22 | 35.580 | | |
| 3,700.00 | 3,598.99 | 3,545.99 | 3,598.99 | 19.03 | 122.09 | 92.15 | -155.06 | -4,915.61 | 4,883.07 | 4,741.95 | 141.12 | 34.602 | | |
| 3,800.00 | 3,695.63 | 3,642.63 | 3,695.63 | 19.57 | 125.46 | 92.44 | -155.06 | -4,915.61 | 4,884.14 | 4,739.11 | 145.03 | 33.678 | | |
| 3,900.00 | 3,792.27 | 3,739.27 | 3,792.27 | 20.10 | 128.83 | 92.73 | -155.06 | -4,915.61 | 4,885.34 | 4,736.41 | 148.93 | 32.803 | | |
| 4,000.00 | 3,888.91 | 3,835.91 | 3,888.91 | 20.63 | 132.21 | 93.02 | -155.06 | -4,915.61 | 4,886.67 | 4,733.84 | 152.84 | 31.973 | | |
| 4,100.00 | 3,985.54 | 3,932.54 | 3,985.54 | 21.17 | 135.58 | 93.31 | -155.06 | -4,915.61 | 4,888.14 | 4,731.40 | 156.74 | 31.186 | | |
| 4,200.00 | 4,082.18 | 4,029.18 | 4,082.18 | 21.70 | 138.95 | 93.60 | -155.06 | -4,915.61 | 4,889.75 | 4,729.10 | 160.65 | 30.438 | | |
| 4,300.00 | 4,178.82 | 4,125.82 | 4,178.82 | 22.24 | 142.32 | 93.89 | -155.06 | -4,915.61 | 4,891.48 | 4,726.93 | 164.55 | 29.726 | | |
| 4,400.00 | 4,275.46 | 4,222.46 | 4,275.46 | 22.77 | 145.70 | 94.18 | -155.06 | -4,915.61 | 4,893.36 | 4,724.90 | 168.46 | 29.048 | | |
| 4,500.00 | 4,372.09 | 4,319.09 | 4,372.09 | 23.31 | 149.07 | 94.47 | -155.06 | -4,915.61 | 4,895.37 | 4,723.00 | 172.36 | 28.401 | | |
| 4,600.00 | 4,468.73 | 4,415.73 | 4,468.73 | 23.84 | 152.44 | 94.76 | -155.06 | -4,915.61 | 4,897.51 | 4,721.24 | 176.27 | 27.784 | | |
| 4,700.00 | 4,565.37 | 4,512.37 | 4,565.37 | 24.38 | 155.82 | 95.05 | -155.06 | -4,915.61 | 4,899.78 | 4,719.61 | 180.18 | 27.194 | | |
| 4,800.00 | 4,662.01 | 4,609.01 | 4,662.01 | 24.91 | 159.19 | 95.34 | -155.06 | -4,915.61 | 4,902.19 | 4,718.11 | 184.08 | 26.630 | | |
| 4,900.00 | 4,758.64 | 4,705.64 | 4,758.64 | 25.45 | 162.56 | 95.63 | -155.06 | -4,915.61 | 4,904.74 | 4,716.75 | 187.99 | 26.090 | | |
| 5,000.00 | 4,855.28 | 4,802.28 | 4,855.28 | 25.99 | 165.93 | 95.92 | -155.06 | -4,915.61 | 4,907.42 | 4,715.52 | 191.90 | 25.573 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE BEATRICE 32-16(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 4,901.08 | 4,951.92 | 26.53 | 169.38 | 96.21 | -155.06 | -4,915.61 | 4,910.23 | 4,714.35 | 195.88 | 25.068 | | |
| 5,200.00 | 5,048.56 | 5,004.44 | 5,048.56 | 27.06 | 172.99 | 96.50 | -155.06 | -4,915.61 | 4,913.17 | 4,713.15 | 200.02 | 24.563 | | |
| 5,300.00 | 5,145.19 | 5,107.81 | 5,145.19 | 27.60 | 176.60 | 96.79 | -155.06 | -4,915.61 | 4,916.25 | 4,712.08 | 204.16 | 24.080 | | |
| 5,400.00 | 5,241.83 | 5,188.83 | 5,241.83 | 28.14 | 179.43 | 97.07 | -155.06 | -4,915.61 | 4,919.45 | 4,711.93 | 207.52 | 23.706 | | |
| 5,500.00 | 5,338.47 | 5,285.47 | 5,338.47 | 28.67 | 182.80 | 97.36 | -155.06 | -4,915.61 | 4,922.79 | 4,711.37 | 211.43 | 23.284 | | |
| 5,600.00 | 5,435.11 | 5,382.11 | 5,435.11 | 29.21 | 186.17 | 97.65 | -155.06 | -4,915.61 | 4,926.27 | 4,710.93 | 215.33 | 22.877 | | |
| 5,700.00 | 5,531.74 | 5,478.74 | 5,531.74 | 29.75 | 189.55 | 97.93 | -155.06 | -4,915.61 | 4,929.87 | 4,710.63 | 219.24 | 22.486 | | |
| 5,800.00 | 5,628.38 | 5,575.38 | 5,628.38 | 30.29 | 192.92 | 98.22 | -155.06 | -4,915.61 | 4,933.61 | 4,710.46 | 223.15 | 22.109 | | |
| 5,900.00 | 5,725.02 | 5,672.02 | 5,725.02 | 30.83 | 196.29 | 98.51 | -155.06 | -4,915.61 | 4,937.47 | 4,710.42 | 227.05 | 21.746 | | |
| 6,000.00 | 5,821.66 | 5,768.66 | 5,821.66 | 31.37 | 199.67 | 98.79 | -155.06 | -4,915.61 | 4,941.47 | 4,710.51 | 230.96 | 21.396 | | |
| 6,100.00 | 5,918.29 | 5,865.29 | 5,918.29 | 31.90 | 203.04 | 99.08 | -155.06 | -4,915.61 | 4,945.60 | 4,710.74 | 234.86 | 21.057 | | |
| 6,200.00 | 6,014.93 | 5,961.93 | 6,014.93 | 32.44 | 206.41 | 99.36 | -155.06 | -4,915.61 | 4,949.86 | 4,711.09 | 238.77 | 20.731 | | |
| 6,300.00 | 6,111.57 | 6,058.57 | 6,111.57 | 32.98 | 209.79 | 99.64 | -155.06 | -4,915.61 | 4,954.25 | 4,711.57 | 242.67 | 20.415 | | |
| 6,400.00 | 6,208.21 | 6,155.21 | 6,208.21 | 33.52 | 213.16 | 99.93 | -155.06 | -4,915.61 | 4,958.76 | 4,712.19 | 246.58 | 20.110 | | |
| 6,500.00 | 6,304.84 | 6,251.84 | 6,304.84 | 34.06 | 216.53 | 100.21 | -155.06 | -4,915.61 | 4,963.41 | 4,712.93 | 250.48 | 19.816 | | |
| 6,600.00 | 6,401.37 | 6,348.37 | 6,401.37 | 34.60 | 219.90 | 83.79 | -155.06 | -4,915.61 | 4,966.09 | 4,711.71 | 254.38 | 19.522 | | |
| 6,700.00 | 6,496.25 | 6,443.25 | 6,496.25 | 35.12 | 223.21 | 61.89 | -155.06 | -4,915.61 | 4,955.55 | 4,697.34 | 258.21 | 19.192 | | |
| 6,800.00 | 6,587.15 | 6,534.15 | 6,587.15 | 35.59 | 226.39 | 50.56 | -155.06 | -4,915.61 | 4,930.43 | 4,668.57 | 261.86 | 18.828 | | |
| 6,900.00 | 6,671.83 | 6,618.83 | 6,671.83 | 36.03 | 229.34 | 45.16 | -155.06 | -4,915.61 | 4,891.42 | 4,626.16 | 265.26 | 18.440 | | |
| 7,000.00 | 6,748.21 | 6,704.79 | 6,748.21 | 36.41 | 232.34 | 43.27 | -155.06 | -4,915.61 | 4,839.53 | 4,570.86 | 268.67 | 18.013 | | |
| 7,100.00 | 6,814.41 | 6,761.41 | 6,814.41 | 36.76 | 234.32 | 44.00 | -155.06 | -4,915.61 | 4,776.08 | 4,505.07 | 271.02 | 17.623 | | |
| 7,200.00 | 6,868.79 | 6,815.79 | 6,868.79 | 37.07 | 236.22 | 47.34 | -155.06 | -4,915.61 | 4,702.67 | 4,429.40 | 273.27 | 17.209 | | |
| 7,300.00 | 6,910.01 | 6,857.01 | 6,910.01 | 37.39 | 237.66 | 53.96 | -155.06 | -4,915.61 | 4,621.11 | 4,346.07 | 275.05 | 16.801 | | |
| 7,400.00 | 6,937.07 | 6,884.07 | 6,937.07 | 37.76 | 238.60 | 65.32 | -155.06 | -4,915.61 | 4,533.40 | 4,257.08 | 276.32 | 16.406 | | |
| 7,500.00 | 6,949.29 | 6,903.71 | 6,949.29 | 38.27 | 239.29 | 83.19 | -155.06 | -4,915.61 | 4,441.66 | 4,164.33 | 277.33 | 16.016 | | |
| 7,600.00 | 6,949.75 | 6,903.25 | 6,949.75 | 39.02 | 239.27 | 90.56 | -155.06 | -4,915.61 | 4,348.29 | 4,070.65 | 277.64 | 15.662 | | |
| 7,700.00 | 6,949.37 | 6,903.63 | 6,949.37 | 40.05 | 239.28 | 90.55 | -155.06 | -4,915.61 | 4,255.12 | 3,977.10 | 278.02 | 15.305 | | |
| 7,800.00 | 6,948.99 | 6,904.01 | 6,948.99 | 41.35 | 239.30 | 90.54 | -155.06 | -4,915.61 | 4,162.28 | 3,883.82 | 278.46 | 14.948 | | |
| 7,900.00 | 6,948.61 | 6,904.39 | 6,948.61 | 42.86 | 239.31 | 90.52 | -155.06 | -4,915.61 | 4,069.77 | 3,790.82 | 278.94 | 14.590 | | |
| 8,000.00 | 6,948.23 | 6,904.77 | 6,948.23 | 44.53 | 239.32 | 90.51 | -155.06 | -4,915.61 | 3,977.62 | 3,698.13 | 279.49 | 14.232 | | |
| 8,100.00 | 6,947.85 | 6,905.15 | 6,947.85 | 46.34 | 239.34 | 90.49 | -155.06 | -4,915.61 | 3,885.86 | 3,605.77 | 280.10 | 13.873 | | |
| 8,200.00 | 6,947.47 | 6,905.53 | 6,947.47 | 48.26 | 239.35 | 90.48 | -155.06 | -4,915.61 | 3,794.52 | 3,513.75 | 280.77 | 13.515 | | |
| 8,300.00 | 6,947.09 | 6,905.91 | 6,947.09 | 50.28 | 239.36 | 90.47 | -155.06 | -4,915.61 | 3,703.63 | 3,422.11 | 281.52 | 13.156 | | |
| 8,400.00 | 6,946.72 | 6,906.28 | 6,946.72 | 52.39 | 239.38 | 90.45 | -155.06 | -4,915.61 | 3,613.22 | 3,330.87 | 282.35 | 12.797 | | |
| 8,500.00 | 6,946.34 | 6,906.66 | 6,946.34 | 54.56 | 239.39 | 90.44 | -155.06 | -4,915.61 | 3,523.32 | 3,240.06 | 283.26 | 12.439 | | |
| 8,600.00 | 6,945.96 | 6,907.04 | 6,945.96 | 56.80 | 239.40 | 90.43 | -155.06 | -4,915.61 | 3,433.99 | 3,149.72 | 284.26 | 12.080 | | |
| 8,700.00 | 6,945.58 | 6,907.42 | 6,945.58 | 59.10 | 239.42 | 90.41 | -155.06 | -4,915.61 | 3,345.25 | 3,059.89 | 285.37 | 11.723 | | |
| 8,800.00 | 6,945.20 | 6,907.80 | 6,945.20 | 61.44 | 239.43 | 90.40 | -155.06 | -4,915.61 | 3,257.18 | 2,970.60 | 286.57 | 11.366 | | |
| 8,900.00 | 6,944.82 | 6,908.18 | 6,944.82 | 63.83 | 239.44 | 90.38 | -155.06 | -4,915.61 | 3,169.80 | 2,881.91 | 287.89 | 11.010 | | |
| 9,000.00 | 6,944.44 | 6,908.56 | 6,944.44 | 66.25 | 239.46 | 90.37 | -155.06 | -4,915.61 | 3,083.20 | 2,793.87 | 289.33 | 10.656 | | |
| 9,100.00 | 6,944.06 | 6,908.94 | 6,944.06 | 68.71 | 239.47 | 90.36 | -155.06 | -4,915.61 | 2,997.43 | 2,706.53 | 290.90 | 10.304 | | |
| 9,200.00 | 6,943.68 | 6,909.32 | 6,943.68 | 71.20 | 239.48 | 90.34 | -155.06 | -4,915.61 | 2,912.57 | 2,619.96 | 292.61 | 9.954 | | |
| 9,300.00 | 6,943.30 | 6,909.70 | 6,943.30 | 73.72 | 239.50 | 90.33 | -155.06 | -4,915.61 | 2,828.69 | 2,534.24 | 294.46 | 9.606 | | |
| 9,400.00 | 6,942.92 | 6,889.92 | 6,942.92 | 76.26 | 238.80 | 90.31 | -155.06 | -4,915.61 | 2,745.90 | 2,450.14 | 295.76 | 9.284 | | |
| 9,500.00 | 6,942.54 | 6,889.54 | 6,942.54 | 78.82 | 238.79 | 90.30 | -155.06 | -4,915.61 | 2,664.29 | 2,366.39 | 297.89 | 8.944 | | |
| 9,600.00 | 6,942.16 | 6,889.16 | 6,942.16 | 81.40 | 238.78 | 90.29 | -155.06 | -4,915.61 | 2,583.97 | 2,283.77 | 300.20 | 8.607 | | |
| 9,700.00 | 6,941.78 | 6,888.78 | 6,941.78 | 84.00 | 238.76 | 90.27 | -155.06 | -4,915.61 | 2,505.07 | 2,202.38 | 302.69 | 8.276 | | |
| 9,800.00 | 6,941.40 | 6,888.40 | 6,941.40 | 86.62 | 238.75 | 90.26 | -155.06 | -4,915.61 | 2,427.72 | 2,122.36 | 305.36 | 7.950 | | |
| 9,900.00 | 6,941.03 | 6,888.03 | 6,941.03 | 89.25 | 238.74 | 90.24 | -155.06 | -4,915.61 | 2,352.08 | 2,043.86 | 308.22 | 7.631 | | |
| 10,000.00 | 6,940.65 | 6,887.65 | 6,940.65 | 91.90 | 238.73 | 90.23 | -155.06 | -4,915.61 | 2,278.32 | 1,967.03 | 311.28 | 7.319 | | |
| 10,100.00 | 6,940.27 | 6,887.27 | 6,940.27 | 94.56 | 238.71 | 90.22 | -155.06 | -4,915.61 | 2,206.63 | 1,892.08 | 314.55 | 7.015 | | |
| 10,200.00 | 6,939.89 | 6,886.89 | 6,939.89 | 97.23 | 238.70 | 90.20 | -155.06 | -4,915.61 | 2,137.21 | 1,819.20 | 318.01 | 6.721 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,886.51 | 6,939.51 | 99.91 | 238.69 | 90.19 | -155.06 | -4,915.61 | 2,070.29 | 1,748.62 | 321.67 | 6.436 | | |
| 10,400.00 | 6,939.13 | 6,886.13 | 6,939.13 | 102.60 | 238.67 | 90.17 | -155.06 | -4,915.61 | 2,006.14 | 1,680.61 | 325.52 | 6.163 | | |
| 10,500.00 | 6,938.75 | 6,885.75 | 6,938.75 | 105.30 | 238.66 | 90.16 | -155.06 | -4,915.61 | 1,945.00 | 1,615.45 | 329.55 | 5.902 | | |
| 10,600.00 | 6,938.37 | 6,885.37 | 6,938.37 | 108.00 | 238.65 | 90.15 | -155.06 | -4,915.61 | 1,887.19 | 1,553.45 | 333.74 | 5.655 | | |
| 10,700.00 | 6,937.99 | 6,884.99 | 6,937.99 | 110.72 | 238.63 | 90.13 | -155.06 | -4,915.61 | 1,833.02 | 1,494.96 | 338.06 | 5.422 | | |
| 10,800.00 | 6,937.61 | 6,884.61 | 6,937.61 | 113.44 | 238.62 | 90.12 | -155.06 | -4,915.61 | 1,782.81 | 1,440.34 | 342.47 | 5.206 | | |
| 10,900.00 | 6,937.23 | 6,884.23 | 6,937.23 | 116.17 | 238.61 | 90.11 | -155.06 | -4,915.61 | 1,736.91 | 1,389.98 | 346.93 | 5.006 | | |
| 11,000.00 | 6,936.85 | 6,883.85 | 6,936.85 | 118.90 | 238.59 | 90.09 | -155.06 | -4,915.61 | 1,695.68 | 1,344.29 | 351.39 | 4.826 | | |
| 11,100.00 | 6,936.47 | 6,883.47 | 6,936.47 | 121.64 | 238.58 | 90.08 | -155.06 | -4,915.61 | 1,659.45 | 1,303.69 | 355.77 | 4.664 | | |
| 11,200.00 | 6,936.09 | 6,883.09 | 6,936.09 | 124.39 | 238.57 | 90.06 | -155.06 | -4,915.61 | 1,628.57 | 1,268.57 | 360.00 | 4.524 | | |
| 11,300.00 | 6,935.71 | 6,882.71 | 6,935.71 | 127.14 | 238.55 | 90.05 | -155.06 | -4,915.61 | 1,603.34 | 1,239.33 | 364.01 | 4.405 | | |
| 11,400.00 | 6,935.34 | 6,882.34 | 6,935.34 | 129.90 | 238.54 | 90.04 | -155.06 | -4,915.61 | 1,584.03 | 1,216.32 | 367.71 | 4.308 | | |
| 11,500.00 | 6,934.96 | 6,881.96 | 6,934.96 | 132.66 | 238.53 | 90.02 | -155.06 | -4,915.61 | 1,570.86 | 1,199.83 | 371.04 | 4.234 | | |
| 11,600.00 | 6,934.58 | 6,881.58 | 6,934.58 | 135.42 | 238.51 | 90.01 | -155.06 | -4,915.61 | 1,563.99 | 1,190.07 | 373.92 | 4.183 | | |
| 11,657.72 | 6,934.36 | 6,881.36 | 6,934.36 | 137.02 | 238.51 | 90.00 | -155.06 | -4,915.61 | 1,562.93 | 1,187.56 | 375.37 | 4.164 CC | | |
| 11,700.00 | 6,934.20 | 6,881.20 | 6,934.20 | 138.19 | 238.50 | 89.99 | -155.06 | -4,915.61 | 1,563.50 | 1,187.18 | 376.32 | 4.155 ES | | |
| 11,800.00 | 6,933.82 | 6,880.82 | 6,933.82 | 140.96 | 238.49 | 89.98 | -155.06 | -4,915.61 | 1,569.39 | 1,191.20 | 378.19 | 4.150 SF | | |
| 11,900.00 | 6,933.44 | 6,880.44 | 6,933.44 | 143.74 | 238.47 | 89.97 | -155.06 | -4,915.61 | 1,581.59 | 1,202.07 | 379.52 | 4.167 | | |
| 12,000.00 | 6,933.06 | 6,880.06 | 6,933.06 | 146.51 | 238.46 | 89.95 | -155.06 | -4,915.61 | 1,599.97 | 1,219.64 | 380.32 | 4.207 | | |
| 12,100.00 | 6,932.68 | 6,879.68 | 6,932.68 | 149.30 | 238.45 | 89.94 | -155.06 | -4,915.61 | 1,624.30 | 1,243.68 | 380.62 | 4.267 | | |
| 12,200.00 | 6,932.30 | 6,879.30 | 6,932.30 | 152.08 | 238.43 | 89.92 | -155.06 | -4,915.61 | 1,654.33 | 1,273.87 | 380.46 | 4.348 | | |
| 12,300.00 | 6,931.92 | 6,878.92 | 6,931.92 | 154.87 | 238.42 | 89.91 | -155.06 | -4,915.61 | 1,689.75 | 1,309.87 | 379.88 | 4.448 | | |
| 12,400.00 | 6,931.54 | 6,878.54 | 6,931.54 | 157.66 | 238.41 | 89.90 | -155.06 | -4,915.61 | 1,730.23 | 1,351.29 | 378.94 | 4.566 | | |
| 12,500.00 | 6,931.16 | 6,878.16 | 6,931.16 | 160.45 | 238.39 | 89.88 | -155.06 | -4,915.61 | 1,775.43 | 1,397.73 | 377.70 | 4.701 | | |
| 12,600.00 | 6,930.78 | 6,877.78 | 6,930.78 | 163.24 | 238.38 | 89.87 | -155.06 | -4,915.61 | 1,825.00 | 1,448.77 | 376.22 | 4.851 | | |
| 12,700.00 | 6,930.40 | 6,877.40 | 6,930.40 | 166.04 | 238.37 | 89.86 | -155.06 | -4,915.61 | 1,878.58 | 1,504.02 | 374.56 | 5.015 | | |
| 12,800.00 | 6,930.03 | 6,877.03 | 6,930.03 | 168.84 | 238.35 | 89.84 | -155.06 | -4,915.61 | 1,935.85 | 1,563.10 | 372.75 | 5.193 | | |
| 12,900.00 | 6,929.65 | 6,876.65 | 6,929.65 | 171.64 | 238.34 | 89.83 | -155.06 | -4,915.61 | 1,996.49 | 1,625.65 | 370.84 | 5.384 | | |
| 13,000.00 | 6,929.27 | 6,876.27 | 6,929.27 | 174.44 | 238.33 | 89.81 | -155.06 | -4,915.61 | 2,060.20 | 1,691.33 | 368.87 | 5.585 | | |
| 13,100.00 | 6,928.89 | 6,875.89 | 6,928.89 | 177.24 | 238.31 | 89.80 | -155.06 | -4,915.61 | 2,126.70 | 1,759.84 | 366.87 | 5.797 | | |
| 13,200.00 | 6,928.51 | 6,875.51 | 6,928.51 | 180.05 | 238.30 | 89.79 | -155.06 | -4,915.61 | 2,195.75 | 1,830.89 | 364.86 | 6.018 | | |
| 13,300.00 | 6,928.13 | 6,875.13 | 6,928.13 | 182.86 | 238.29 | 89.77 | -155.06 | -4,915.61 | 2,267.11 | 1,904.25 | 362.86 | 6.248 | | |
| 13,400.00 | 6,927.75 | 6,874.75 | 6,927.75 | 185.67 | 238.28 | 89.76 | -155.06 | -4,915.61 | 2,340.56 | 1,979.67 | 360.89 | 6.486 | | |
| 13,500.00 | 6,927.37 | 6,874.37 | 6,927.37 | 188.48 | 238.26 | 89.74 | -155.06 | -4,915.61 | 2,415.92 | 2,056.96 | 358.96 | 6.730 | | |
| 13,600.00 | 6,926.99 | 6,873.99 | 6,926.99 | 191.29 | 238.25 | 89.73 | -155.06 | -4,915.61 | 2,493.02 | 2,135.94 | 357.07 | 6.982 | | |
| 13,700.00 | 6,926.61 | 6,873.61 | 6,926.61 | 194.10 | 238.24 | 89.72 | -155.06 | -4,915.61 | 2,571.69 | 2,216.45 | 355.24 | 7.239 | | |
| 13,800.00 | 6,926.23 | 6,873.23 | 6,926.23 | 196.92 | 238.22 | 89.70 | -155.06 | -4,915.61 | 2,651.80 | 2,298.33 | 353.47 | 7.502 | | |
| 13,900.00 | 6,925.85 | 6,872.85 | 6,925.85 | 199.73 | 238.21 | 89.69 | -155.06 | -4,915.61 | 2,733.22 | 2,381.46 | 351.75 | 7.770 | | |
| 14,000.00 | 6,925.47 | 6,872.47 | 6,925.47 | 202.55 | 238.20 | 89.67 | -155.06 | -4,915.61 | 2,815.83 | 2,465.73 | 350.10 | 8.043 | | |
| 14,100.00 | 6,925.09 | 6,872.09 | 6,925.09 | 205.37 | 238.18 | 89.66 | -155.06 | -4,915.61 | 2,899.55 | 2,551.03 | 348.52 | 8.320 | | |
| 14,200.00 | 6,924.71 | 6,871.71 | 6,924.71 | 208.19 | 238.17 | 89.65 | -155.06 | -4,915.61 | 2,984.26 | 2,637.27 | 346.99 | 8.600 | | |
| 14,300.00 | 6,924.34 | 6,871.34 | 6,924.34 | 211.01 | 238.16 | 89.63 | -155.06 | -4,915.61 | 3,069.90 | 2,724.37 | 345.52 | 8.885 | | |
| 14,400.00 | 6,923.96 | 6,870.96 | 6,923.96 | 213.83 | 238.14 | 89.62 | -155.06 | -4,915.61 | 3,156.38 | 2,812.26 | 344.12 | 9.172 | | |
| 14,500.00 | 6,923.58 | 6,870.58 | 6,923.58 | 216.65 | 238.13 | 89.60 | -155.06 | -4,915.61 | 3,243.63 | 2,900.87 | 342.77 | 9.463 | | |
| 14,600.00 | 6,923.20 | 6,870.20 | 6,923.20 | 219.48 | 238.12 | 89.59 | -155.06 | -4,915.61 | 3,331.61 | 2,990.13 | 341.48 | 9.757 | | |
| 14,700.00 | 6,922.82 | 6,869.82 | 6,922.82 | 222.30 | 238.10 | 89.58 | -155.06 | -4,915.61 | 3,420.24 | 3,080.01 | 340.24 | 10.053 | | |
| 14,800.00 | 6,922.44 | 6,869.44 | 6,922.44 | 225.13 | 238.09 | 89.56 | -155.06 | -4,915.61 | 3,509.49 | 3,170.44 | 339.05 | 10.351 | | |
| 14,900.00 | 6,922.06 | 6,869.06 | 6,922.06 | 227.95 | 238.08 | 89.55 | -155.06 | -4,915.61 | 3,599.30 | 3,261.39 | 337.91 | 10.652 | | |
| 14,915.55 | 6,922.00 | 6,869.00 | 6,922.00 | 228.39 | 238.07 | 89.55 | -155.06 | -4,915.61 | 3,613.31 | 3,275.57 | 337.74 | 10.698 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-1(SI_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 56.00 | 3.28 | 3.28 | -110.51 | -2,862.61 | -7,653.37 | 8,171.39 | | | | | |
| 100.00 | 100.00 | 44.00 | 100.00 | 3.28 | 3.37 | -110.51 | -2,862.61 | -7,653.37 | 8,171.20 | 8,164.55 | 6.65 | 1,228.117 | | |
| 200.00 | 200.00 | 144.00 | 200.00 | 3.34 | 4.64 | -110.51 | -2,862.61 | -7,653.37 | 8,171.20 | 8,163.22 | 7.98 | 1,024.379 | | |
| 300.00 | 299.98 | 243.98 | 299.98 | 3.44 | 7.52 | 64.14 | -2,862.61 | -7,653.37 | 8,170.44 | 8,159.48 | 10.96 | 745.219 | | |
| 400.00 | 399.84 | 343.84 | 399.84 | 3.59 | 10.77 | 64.21 | -2,862.61 | -7,653.37 | 8,168.16 | 8,153.80 | 14.36 | 568.870 | | |
| 500.00 | 499.45 | 443.45 | 499.45 | 3.79 | 14.12 | 64.33 | -2,862.61 | -7,653.37 | 8,164.36 | 8,146.45 | 17.91 | 455.884 | | |
| 600.00 | 598.70 | 542.70 | 598.70 | 4.03 | 17.51 | 64.51 | -2,862.61 | -7,653.37 | 8,159.07 | 8,137.53 | 21.54 | 378.785 | | |
| 700.00 | 697.47 | 641.47 | 697.47 | 4.31 | 20.91 | 64.73 | -2,862.61 | -7,653.37 | 8,152.29 | 8,127.07 | 25.22 | 323.244 | | |
| 800.00 | 795.62 | 739.62 | 795.62 | 4.64 | 24.30 | 65.00 | -2,862.61 | -7,653.37 | 8,144.06 | 8,115.13 | 28.93 | 281.496 | | |
| 900.00 | 893.06 | 837.06 | 893.06 | 5.00 | 27.67 | 65.31 | -2,862.61 | -7,653.37 | 8,134.41 | 8,101.74 | 32.66 | 249.051 | | |
| 1,000.00 | 989.78 | 933.78 | 989.78 | 5.39 | 31.03 | 65.56 | -2,862.61 | -7,653.37 | 8,123.58 | 8,087.17 | 36.40 | 223.150 | | |
| 1,100.00 | 1,086.42 | 1,030.42 | 1,086.42 | 5.81 | 34.38 | 65.72 | -2,862.61 | -7,653.37 | 8,112.67 | 8,072.50 | 40.17 | 201.956 | | |
| 1,200.00 | 1,183.06 | 1,127.06 | 1,183.06 | 6.25 | 37.74 | 65.88 | -2,862.61 | -7,653.37 | 8,101.82 | 8,057.86 | 43.96 | 184.306 | | |
| 1,300.00 | 1,279.69 | 1,223.69 | 1,279.69 | 6.71 | 41.10 | 66.04 | -2,862.61 | -7,653.37 | 8,091.05 | 8,043.28 | 47.76 | 169.397 | | |
| 1,400.00 | 1,376.33 | 1,320.33 | 1,376.33 | 7.17 | 44.47 | 66.20 | -2,862.61 | -7,653.37 | 8,080.34 | 8,028.76 | 51.58 | 156.646 | | |
| 1,500.00 | 1,472.97 | 1,416.97 | 1,472.97 | 7.65 | 47.83 | 66.37 | -2,862.61 | -7,653.37 | 8,069.70 | 8,014.28 | 55.41 | 145.625 | | |
| 1,600.00 | 1,569.61 | 1,513.61 | 1,569.61 | 8.13 | 51.20 | 66.53 | -2,862.61 | -7,653.37 | 8,059.13 | 7,999.87 | 59.25 | 136.008 | | |
| 1,700.00 | 1,666.24 | 1,610.24 | 1,666.24 | 8.62 | 54.57 | 66.69 | -2,862.61 | -7,653.37 | 8,048.62 | 7,985.52 | 63.10 | 127.546 | | |
| 1,800.00 | 1,762.88 | 1,706.88 | 1,762.88 | 9.12 | 57.93 | 66.86 | -2,862.61 | -7,653.37 | 8,038.18 | 7,971.23 | 66.96 | 120.047 | | |
| 1,900.00 | 1,859.52 | 1,803.52 | 1,859.52 | 9.62 | 61.30 | 67.02 | -2,862.61 | -7,653.37 | 8,027.82 | 7,957.00 | 70.82 | 113.355 | | |
| 2,000.00 | 1,956.16 | 1,900.16 | 1,956.16 | 10.13 | 64.67 | 67.18 | -2,862.61 | -7,653.37 | 8,017.52 | 7,942.83 | 74.69 | 107.350 | | |
| 2,100.00 | 2,052.79 | 2,003.21 | 2,052.79 | 10.64 | 68.27 | 67.35 | -2,862.61 | -7,653.37 | 8,007.29 | 7,928.51 | 78.78 | 101.641 | | |
| 2,200.00 | 2,149.43 | 2,106.57 | 2,149.43 | 11.15 | 71.87 | 67.51 | -2,862.61 | -7,653.37 | 7,997.13 | 7,914.24 | 82.89 | 96.481 | | |
| 2,300.00 | 2,246.07 | 2,209.93 | 2,246.07 | 11.66 | 75.47 | 67.68 | -2,862.61 | -7,653.37 | 7,987.04 | 7,900.04 | 87.00 | 91.805 | | |
| 2,400.00 | 2,342.71 | 2,286.71 | 2,342.71 | 12.18 | 78.15 | 67.85 | -2,862.61 | -7,653.37 | 7,977.02 | 7,886.84 | 90.19 | 88.449 | | |
| 2,500.00 | 2,439.34 | 2,383.34 | 2,439.34 | 12.70 | 81.52 | 68.01 | -2,862.61 | -7,653.37 | 7,967.07 | 7,873.00 | 94.07 | 84.693 | | |
| 2,600.00 | 2,535.98 | 2,479.98 | 2,535.98 | 13.22 | 84.89 | 68.18 | -2,862.61 | -7,653.37 | 7,957.20 | 7,859.24 | 97.96 | 81.233 | | |
| 2,700.00 | 2,632.62 | 2,576.62 | 2,632.62 | 13.75 | 88.27 | 68.35 | -2,862.61 | -7,653.37 | 7,947.39 | 7,845.55 | 101.84 | 78.036 | | |
| 2,800.00 | 2,729.26 | 2,673.26 | 2,729.26 | 14.27 | 91.64 | 68.51 | -2,862.61 | -7,653.37 | 7,937.65 | 7,831.92 | 105.73 | 75.074 | | |
| 2,900.00 | 2,825.89 | 2,769.89 | 2,825.89 | 14.80 | 95.01 | 68.68 | -2,862.61 | -7,653.37 | 7,927.99 | 7,818.37 | 109.62 | 72.321 | | |
| 3,000.00 | 2,922.53 | 2,866.53 | 2,922.53 | 15.32 | 98.38 | 68.85 | -2,862.61 | -7,653.37 | 7,918.40 | 7,804.88 | 113.51 | 69.757 | | |
| 3,100.00 | 3,019.17 | 2,963.17 | 3,019.17 | 15.85 | 101.75 | 69.02 | -2,862.61 | -7,653.37 | 7,908.87 | 7,791.47 | 117.41 | 67.362 | | |
| 3,200.00 | 3,115.81 | 3,059.81 | 3,115.81 | 16.38 | 105.12 | 69.19 | -2,862.61 | -7,653.37 | 7,899.43 | 7,778.12 | 121.30 | 65.122 | | |
| 3,300.00 | 3,212.44 | 3,156.44 | 3,212.44 | 16.91 | 108.50 | 69.36 | -2,862.61 | -7,653.37 | 7,890.05 | 7,764.85 | 125.20 | 63.020 | | |
| 3,400.00 | 3,309.08 | 3,253.08 | 3,309.08 | 17.44 | 111.87 | 69.53 | -2,862.61 | -7,653.37 | 7,880.75 | 7,751.65 | 129.10 | 61.046 | | |
| 3,500.00 | 3,405.72 | 3,349.72 | 3,405.72 | 17.97 | 115.24 | 69.70 | -2,862.61 | -7,653.37 | 7,871.52 | 7,738.52 | 132.99 | 59.187 | | |
| 3,600.00 | 3,502.36 | 3,446.36 | 3,502.36 | 18.50 | 118.61 | 69.87 | -2,862.61 | -7,653.37 | 7,862.36 | 7,725.46 | 136.89 | 57.434 | | |
| 3,700.00 | 3,598.99 | 3,542.99 | 3,598.99 | 19.03 | 121.98 | 70.04 | -2,862.61 | -7,653.37 | 7,853.27 | 7,712.48 | 140.79 | 55.779 | | |
| 3,800.00 | 3,695.63 | 3,639.63 | 3,695.63 | 19.57 | 125.36 | 70.21 | -2,862.61 | -7,653.37 | 7,844.26 | 7,699.57 | 144.69 | 54.213 | | |
| 3,900.00 | 3,792.27 | 3,736.27 | 3,792.27 | 20.10 | 128.73 | 70.38 | -2,862.61 | -7,653.37 | 7,835.33 | 7,686.73 | 148.60 | 52.729 | | |
| 4,000.00 | 3,888.91 | 3,832.91 | 3,888.91 | 20.63 | 132.10 | 70.55 | -2,862.61 | -7,653.37 | 7,826.47 | 7,673.97 | 152.50 | 51.321 | | |
| 4,100.00 | 3,985.54 | 3,929.54 | 3,985.54 | 21.17 | 135.47 | 70.73 | -2,862.61 | -7,653.37 | 7,817.68 | 7,661.28 | 156.40 | 49.985 | | |
| 4,200.00 | 4,082.18 | 4,026.18 | 4,082.18 | 21.70 | 138.85 | 70.90 | -2,862.61 | -7,653.37 | 7,808.97 | 7,648.66 | 160.31 | 48.713 | | |
| 4,300.00 | 4,178.82 | 4,122.82 | 4,178.82 | 22.24 | 142.22 | 71.07 | -2,862.61 | -7,653.37 | 7,800.33 | 7,636.12 | 164.21 | 47.502 | | |
| 4,400.00 | 4,275.46 | 4,219.46 | 4,275.46 | 22.77 | 145.59 | 71.24 | -2,862.61 | -7,653.37 | 7,791.77 | 7,623.65 | 168.12 | 46.348 | | |
| 4,500.00 | 4,372.09 | 4,316.09 | 4,372.09 | 23.31 | 148.97 | 71.42 | -2,862.61 | -7,653.37 | 7,783.28 | 7,611.26 | 172.02 | 45.246 | | |
| 4,600.00 | 4,468.73 | 4,412.73 | 4,468.73 | 23.84 | 152.34 | 71.59 | -2,862.61 | -7,653.37 | 7,774.87 | 7,598.94 | 175.93 | 44.194 | | |
| 4,700.00 | 4,565.37 | 4,509.37 | 4,565.37 | 24.38 | 155.71 | 71.77 | -2,862.61 | -7,653.37 | 7,766.54 | 7,586.70 | 179.83 | 43.187 | | |
| 4,800.00 | 4,662.01 | 4,606.01 | 4,662.01 | 24.91 | 159.08 | 71.94 | -2,862.61 | -7,653.37 | 7,758.28 | 7,574.54 | 183.74 | 42.224 | | |
| 4,900.00 | 4,758.64 | 4,702.64 | 4,758.64 | 25.45 | 162.46 | 72.12 | -2,862.61 | -7,653.37 | 7,750.10 | 7,562.45 | 187.65 | 41.301 | | |
| 5,000.00 | 4,855.28 | 4,800.28 | 4,855.28 | 25.99 | 165.88 | 72.29 | -2,862.61 | -7,653.37 | 7,741.99 | 7,550.38 | 191.61 | 40.405 | | |
| 5,100.00 | 4,951.92 | 4,904.08 | 4,951.92 | 26.53 | 169.49 | 72.47 | -2,862.61 | -7,653.37 | 7,733.96 | 7,538.21 | 195.75 | 39.509 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-1(SI_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,007.44 | 5,048.56 | 27.06 | 173.10 | 72.65 | -2,862.61 | -7,653.37 | 7,726.01 | 7,526.12 | 199.90 | 38.650 | | |
| 5,300.00 | 5,145.19 | 5,089.19 | 5,145.19 | 27.60 | 175.95 | 72.82 | -2,862.61 | -7,653.37 | 7,718.14 | 7,514.85 | 203.28 | 37.967 | | |
| 5,400.00 | 5,241.83 | 5,185.83 | 5,241.83 | 28.14 | 179.32 | 73.00 | -2,862.61 | -7,653.37 | 7,710.34 | 7,503.15 | 207.19 | 37.213 | | |
| 5,500.00 | 5,338.47 | 5,282.47 | 5,338.47 | 28.67 | 182.70 | 73.18 | -2,862.61 | -7,653.37 | 7,702.63 | 7,491.52 | 211.11 | 36.487 | | |
| 5,600.00 | 5,435.11 | 5,379.11 | 5,435.11 | 29.21 | 186.07 | 73.35 | -2,862.61 | -7,653.37 | 7,694.99 | 7,479.97 | 215.02 | 35.788 | | |
| 5,700.00 | 5,531.74 | 5,475.74 | 5,531.74 | 29.75 | 189.44 | 73.53 | -2,862.61 | -7,653.37 | 7,687.42 | 7,468.50 | 218.93 | 35.114 | | |
| 5,800.00 | 5,628.38 | 5,572.38 | 5,628.38 | 30.29 | 192.81 | 73.71 | -2,862.61 | -7,653.37 | 7,679.94 | 7,457.10 | 222.84 | 34.464 | | |
| 5,900.00 | 5,725.02 | 5,669.02 | 5,725.02 | 30.83 | 196.19 | 73.89 | -2,862.61 | -7,653.37 | 7,672.54 | 7,445.79 | 226.75 | 33.837 | | |
| 6,000.00 | 5,821.66 | 5,765.66 | 5,821.66 | 31.37 | 199.56 | 74.07 | -2,862.61 | -7,653.37 | 7,665.21 | 7,434.55 | 230.66 | 33.231 | | |
| 6,100.00 | 5,918.29 | 5,862.29 | 5,918.29 | 31.90 | 202.93 | 74.25 | -2,862.61 | -7,653.37 | 7,657.97 | 7,423.39 | 234.57 | 32.646 | | |
| 6,200.00 | 6,014.93 | 5,958.93 | 6,014.93 | 32.44 | 206.31 | 74.43 | -2,862.61 | -7,653.37 | 7,650.80 | 7,412.32 | 238.49 | 32.081 | | |
| 6,300.00 | 6,111.57 | 6,055.57 | 6,111.57 | 32.98 | 209.68 | 74.61 | -2,862.61 | -7,653.37 | 7,643.72 | 7,401.32 | 242.40 | 31.534 | | |
| 6,400.00 | 6,208.21 | 6,152.21 | 6,208.21 | 33.52 | 213.05 | 74.79 | -2,862.61 | -7,653.37 | 7,636.71 | 7,390.40 | 246.31 | 31.004 | | |
| 6,500.00 | 6,304.84 | 6,248.84 | 6,304.84 | 34.06 | 216.43 | 74.97 | -2,862.61 | -7,653.37 | 7,629.79 | 7,379.56 | 250.23 | 30.492 | | |
| 6,600.00 | 6,401.37 | 6,345.37 | 6,401.37 | 34.60 | 219.80 | 75.36 | -2,862.61 | -7,653.37 | 7,620.80 | 7,366.66 | 254.13 | 29.987 | | |
| 6,700.00 | 6,496.25 | 6,440.25 | 6,496.25 | 35.12 | 223.11 | 75.69 | -2,862.61 | -7,653.37 | 7,598.31 | 7,340.36 | 257.95 | 29.456 | | |
| 6,800.00 | 6,587.15 | 6,531.15 | 6,587.15 | 35.59 | 226.28 | 72.83 | -2,862.61 | -7,653.37 | 7,561.13 | 7,299.55 | 261.59 | 28.905 | | |
| 6,900.00 | 6,671.83 | 6,615.83 | 6,671.83 | 36.03 | 229.24 | 14.95 | -2,862.61 | -7,653.37 | 7,510.15 | 7,245.20 | 264.95 | 28.346 | | |
| 7,000.00 | 6,748.21 | 6,707.79 | 6,748.21 | 36.41 | 232.45 | 9.28 | -2,862.61 | -7,653.37 | 7,446.59 | 7,178.09 | 268.50 | 27.734 | | |
| 7,100.00 | 6,814.41 | 6,758.41 | 6,814.41 | 36.76 | 234.21 | 4.26 | -2,862.61 | -7,653.37 | 7,372.00 | 7,101.46 | 270.54 | 27.250 | | |
| 7,200.00 | 6,868.79 | 6,812.79 | 6,868.79 | 37.07 | 236.11 | -1.44 | -2,862.61 | -7,653.37 | 7,288.21 | 7,015.57 | 272.63 | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-1(SI_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 10,400.00 | 6,939.13 | 6,883.13 | 6,939.13 | 102.60 | 238.57 | -90.77 | -2,862.61 | -7,653.37 | 4,167.25 | 3,886.73 | 280.52 | 14.855 | | |
| 10,500.00 | 6,938.75 | 6,882.75 | 6,938.75 | 105.30 | 238.55 | -90.75 | -2,862.61 | -7,653.37 | 4,071.08 | 3,789.85 | 281.22 | 14.476 | | |
| 10,600.00 | 6,938.37 | 6,882.37 | 6,938.37 | 108.00 | 238.54 | -90.73 | -2,862.61 | -7,653.37 | 3,975.09 | 3,693.10 | 281.99 | 14.096 | | |
| 10,700.00 | 6,937.99 | 6,881.99 | 6,937.99 | 110.72 | 238.53 | -90.71 | -2,862.61 | -7,653.37 | 3,879.31 | 3,596.46 | 282.84 | 13.715 | | |
| 10,800.00 | 6,937.61 | 6,881.61 | 6,937.61 | 113.44 | 238.51 | -90.70 | -2,862.61 | -7,653.37 | 3,783.74 | 3,499.97 | 283.77 | 13.334 | | |
| 10,900.00 | 6,937.23 | 6,881.23 | 6,937.23 | 116.17 | 238.50 | -90.68 | -2,862.61 | -7,653.37 | 3,688.41 | 3,403.62 | 284.79 | 12.951 | | |
| 11,000.00 | 6,936.85 | 6,880.85 | 6,936.85 | 118.90 | 238.49 | -90.66 | -2,862.61 | -7,653.37 | 3,593.33 | 3,307.43 | 285.90 | 12.568 | | |
| 11,100.00 | 6,936.47 | 6,880.47 | 6,936.47 | 121.64 | 238.47 | -90.64 | -2,862.61 | -7,653.37 | 3,498.53 | 3,211.41 | 287.12 | 12.185 | | |
| 11,200.00 | 6,936.09 | 6,880.09 | 6,936.09 | 124.39 | 238.46 | -90.62 | -2,862.61 | -7,653.37 | 3,404.03 | 3,115.58 | 288.45 | 11.801 | | |
| 11,300.00 | 6,935.71 | 6,879.71 | 6,935.71 | 127.14 | 238.45 | -90.60 | -2,862.61 | -7,653.37 | 3,309.85 | 3,019.95 | 289.89 | 11.417 | | |
| 11,400.00 | 6,935.34 | 6,879.34 | 6,935.34 | 129.90 | 238.44 | -90.58 | -2,862.61 | -7,653.37 | 3,216.02 | 2,924.55 | 291.47 | 11.034 | | |
| 11,500.00 | 6,934.96 | 6,878.96 | 6,934.96 | 132.66 | 238.42 | -90.56 | -2,862.61 | -7,653.37 | 3,122.57 | 2,829.38 | 293.19 | 10.650 | | |
| 11,600.00 | 6,934.58 | 6,878.58 | 6,934.58 | 135.42 | 238.41 | -90.54 | -2,862.61 | -7,653.37 | 3,029.54 | 2,734.48 | 295.06 | 10.268 | | |
| 11,700.00 | 6,934.20 | 6,878.20 | 6,934.20 | 138.19 | 238.40 | -90.52 | -2,862.61 | -7,653.37 | 2,936.97 | 2,639.88 | 297.09 | 9.886 | | |
| 11,800.00 | 6,933.82 | 6,877.82 | 6,933.82 | 140.96 | 238.38 | -90.50 | -2,862.61 | -7,653.37 | 2,844.90 | 2,545.60 | 299.30 | 9.505 | | |
| 11,900.00 | 6,933.44 | 6,877.44 | 6,933.44 | 143.74 | 238.37 | -90.48 | -2,862.61 | -7,653.37 | 2,753.39 | 2,451.69 | 301.70 | 9.126 | | |
| 12,000.00 | 6,933.06 | 6,877.06 | 6,933.06 | 146.51 | 238.36 | -90.46 | -2,862.61 | -7,653.37 | 2,662.48 | 2,358.17 | 304.31 | 8.749 | | |
| 12,100.00 | 6,932.68 | 6,876.68 | 6,932.68 | 149.30 | 238.34 | -90.45 | -2,862.61 | -7,653.37 | 2,572.25 | 2,265.11 | 307.14 | 8.375 | | |
| 12,200.00 | 6,932.30 | 6,876.30 | 6,932.30 | 152.08 | 238.33 | -90.43 | -2,862.61 | -7,653.37 | 2,482.77 | 2,172.55 | 310.22 | 8.003 | | |
| 12,300.00 | 6,931.92 | 6,875.92 | 6,931.92 | 154.87 | 238.32 | -90.41 | -2,862.61 | -7,653.37 | 2,394.13 | 2,080.57 | 313.56 | 7.635 | | |
| 12,400.00 | 6,931.54 | 6,875.54 | 6,931.54 | 157.66 | 238.30 | -90.39 | -2,862.61 | -7,653.37 | 2,306.41 | 1,989.22 | 317.19 | 7.271 | | |
| 12,500.00 | 6,931.16 | 6,875.16 | 6,931.16 | 160.45 | 238.29 | -90.37 | -2,862.61 | -7,653.37 | 2,219.73 | 1,898.60 | 321.12 | 6.912 | | |
| 12,600.00 | 6,930.78 | 6,874.78 | 6,930.78 | 163.24 | 238.28 | -90.35 | -2,862.61 | -7,653.37 | 2,134.21 | 1,808.82 | 325.40 | 6.559 | | |
| 12,700.00 | 6,930.40 | 6,874.40 | 6,930.40 | 166.04 | 238.26 | -90.33 | -2,862.61 | -7,653.37 | 2,050.01 | 1,719.98 | 330.03 | 6.212 | | |
| 12,800.00 | 6,930.03 | 6,874.03 | 6,930.03 | 168.84 | 238.25 | -90.31 | -2,862.61 | -7,653.37 | 1,967.28 | 1,632.23 | 335.05 | 5.872 | | |
| 12,900.00 | 6,929.65 | 6,873.65 | 6,929.65 | 171.64 | 238.24 | -90.29 | -2,862.61 | -7,653.37 | 1,886.23 | 1,545.75 | 340.48 | 5.540 | | |
| 13,000.00 | 6,929.27 | 6,873.27 | 6,929.27 | 174.44 | 238.22 | -90.27 | -2,862.61 | -7,653.37 | 1,807.08 | 1,460.73 | 346.36 | 5.217 | | |
| 13,100.00 | 6,928.89 | 6,872.89 | 6,928.89 | 177.24 | 238.21 | | | | | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-2(PR_75CC) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.00 | 0.00 | 0.00 | 43.00 | 3.28 | 3.28 | -101.88 | -1,370.74 | -6,517.75 | 6,660.47 | | | | |
| 100.00 | 100.00 | 57.00 | 100.00 | 3.28 | 3.43 | -101.88 | -1,370.74 | -6,517.75 | 6,660.33 | 6,653.62 | 6.71 | 992.257 | |
| 200.00 | 200.00 | 157.00 | 200.00 | 3.34 | 4.97 | -101.88 | -1,370.74 | -6,517.75 | 6,660.33 | 6,652.02 | 8.31 | 801.668 | |
| 300.00 | 299.98 | 256.98 | 299.98 | 3.44 | 7.94 | 72.77 | -1,370.74 | -6,517.75 | 6,659.81 | 6,648.44 | 11.37 | 585.496 | |
| 400.00 | 399.84 | 356.84 | 399.84 | 3.59 | 11.20 | 72.84 | -1,370.74 | -6,517.75 | 6,658.26 | 6,643.47 | 14.79 | 450.148 | |
| 500.00 | 499.45 | 456.45 | 499.45 | 3.79 | 14.56 | 72.96 | -1,370.74 | -6,517.75 | 6,655.69 | 6,637.34 | 18.35 | 362.707 | |
| 600.00 | 598.70 | 555.70 | 598.70 | 4.03 | 17.96 | 73.13 | -1,370.74 | -6,517.75 | 6,652.11 | 6,630.13 | 21.99 | 302.567 | |
| 700.00 | 697.47 | 654.47 | 697.47 | 4.31 | 21.36 | 73.34 | -1,370.74 | -6,517.75 | 6,647.55 | 6,621.88 | 25.67 | 258.974 | |
| 800.00 | 795.62 | 752.62 | 795.62 | 4.64 | 24.75 | 73.60 | -1,370.74 | -6,517.75 | 6,642.03 | 6,612.64 | 29.38 | 226.050 | |
| 900.00 | 893.06 | 850.06 | 893.06 | 5.00 | 28.12 | 73.91 | -1,370.74 | -6,517.75 | 6,635.58 | 6,602.46 | 33.12 | 200.368 | |
| 1,000.00 | 989.78 | 946.78 | 989.78 | 5.39 | 31.48 | 74.18 | -1,370.74 | -6,517.75 | 6,628.40 | 6,591.53 | 36.86 | 179.807 | |
| 1,100.00 | 1,086.42 | 1,043.42 | 1,086.42 | 5.81 | 34.84 | 74.38 | -1,370.74 | -6,517.75 | 6,621.20 | 6,580.57 | 40.64 | 162.937 | |
| 1,200.00 | 1,183.06 | 1,140.06 | 1,183.06 | 6.25 | 38.20 | 74.59 | -1,370.74 | -6,517.75 | 6,614.11 | 6,569.67 | 44.43 | 148.863 | |
| 1,300.00 | 1,279.69 | 1,236.69 | 1,279.69 | 6.71 | 41.56 | 74.80 | -1,370.74 | -6,517.75 | 6,607.10 | 6,558.86 | 48.24 | 136.955 | |
| 1,400.00 | 1,376.33 | 1,333.33 | 1,376.33 | 7.17 | 44.92 | 75.01 | -1,370.74 | -6,517.75 | 6,600.19 | 6,548.12 | 52.07 | 126.759 | |
| 1,500.00 | 1,472.97 | 1,429.97 | 1,472.97 | 7.65 | 48.29 | 75.22 | -1,370.74 | -6,517.75 | 6,593.37 | 6,537.46 | 55.91 | 117.936 | |
| 1,600.00 | 1,569.61 | 1,526.61 | 1,569.61 | 8.13 | 51.65 | 75.43 | -1,370.74 | -6,517.75 | 6,586.64 | 6,526.88 | 59.75 | 110.231 | |
| 1,700.00 | 1,666.24 | 1,623.24 | 1,666.24 | 8.62 | 55.02 | 75.64 | -1,370.74 | -6,517.75 | 6,580.00 | 6,516.40 | 63.61 | 103.446 | |
| 1,800.00 | 1,762.88 | 1,719.88 | 1,762.88 | 9.12 | 58.39 | 75.85 | -1,370.74 | -6,517.75 | 6,573.46 | 6,505.99 | 67.47 | 97.428 | |
| 1,900.00 | 1,859.52 | 1,816.52 | 1,859.52 | 9.62 | 61.76 | 76.06 | -1,370.74 | -6,517.75 | 6,567.02 | 6,495.68 | 71.34 | 92.056 | |
| 2,000.00 | 1,956.16 | 1,913.16 | 1,956.16 | 10.13 | 65.13 | 76.27 | -1,370.74 | -6,517.75 | 6,560.67 | 6,485.46 | 75.21 | 87.232 | |
| 2,100.00 | 2,052.79 | 2,009.79 | 2,052.79 | 10.64 | 68.50 | 76.48 | -1,370.74 | -6,517.75 | 6,554.41 | 6,475.33 | 79.09 | 82.877 | |
| 2,200.00 | 2,149.43 | 2,106.43 | 2,149.43 | 11.15 | 71.87 | 76.69 | -1,370.74 | -6,517.75 | 6,548.25 | 6,465.28 | 82.97 | 78.927 | |
| 2,300.00 | 2,246.07 | 2,203.07 | 2,246.07 | 11.66 | 75.24 | 76.90 | -1,370.74 | -6,517.75 | 6,542.18 | 6,455.34 | 86.85 | 75.328 | |
| 2,400.00 | 2,342.71 | 2,300.29 | 2,342.71 | 12.18 | 78.63 | 77.12 | -1,370.74 | -6,517.75 | 6,536.21 | 6,445.46 | 90.76 | 72.020 | |
| 2,500.00 | 2,439.34 | 2,403.66 | 2,439.34 | 12.70 | 82.23 | 77.33 | -1,370.74 | -6,517.75 | 6,530.34 | 6,435.46 | 94.88 | 68.828 | |
| 2,600.00 | 2,535.98 | 2,507.02 | 2,535.98 | 13.22 | 85.84 | 77.54 | -1,370.74 | -6,517.75 | 6,524.56 | 6,425.56 | 99.00 | 65.902 | |
| 2,700.00 | 2,632.62 | 2,589.62 | 2,632.62 | 13.75 | 88.72 | 77.76 | -1,370.74 | -6,517.75 | 6,518.88 | 6,416.47 | 102.41 | 63.656 | |
| 2,800.00 | 2,729.26 | 2,686.26 | 2,729.26 | 14.27 | 92.09 | 77.97 | -1,370.74 | -6,517.75 | 6,513.29 | 6,406.99 | 106.30 | 61.271 | |
| 2,900.00 | 2,825.89 | 2,782.89 | 2,825.89 | 14.80 | 95.46 | 78.18 | -1,370.74 | -6,517.75 | 6,507.80 | 6,397.60 | 110.20 | 59.055 | |
| 3,000.00 | 2,922.53 | 2,879.53 | 2,922.53 | 15.32 | 98.83 | 78.40 | -1,370.74 | -6,517.75 | 6,502.41 | 6,388.32 | 114.10 | 56.991 | |
| 3,100.00 | 3,019.17 | 2,976.17 | 3,019.17 | 15.85 | 102.21 | 78.61 | -1,370.74 | -6,517.75 | 6,497.12 | 6,379.12 | 117.99 | 55.063 | |
| 3,200.00 | 3,115.81 | 3,072.81 | 3,115.81 | 16.38 | 105.58 | 78.83 | -1,370.74 | -6,517.75 | 6,491.92 | 6,370.02 | 121.90 | 53.258 | |
| 3,300.00 | 3,212.44 | 3,169.44 | 3,212.44 | 16.91 | 108.95 | 79.04 | -1,370.74 | -6,517.75 | 6,486.82 | 6,361.02 | 125.80 | 51.566 | |
| 3,400.00 | 3,309.08 | 3,266.08 | 3,309.08 | 17.44 | 112.32 | 79.26 | -1,370.74 | -6,517.75 | 6,481.82 | 6,352.12 | 129.70 | 49.976 | |
| 3,500.00 | 3,405.72 | 3,362.72 | 3,405.72 | 17.97 | 115.69 | 79.48 | -1,370.74 | -6,517.75 | 6,476.92 | 6,343.31 | 133.60 | 48.479 | |
| 3,600.00 | 3,502.36 | 3,459.36 | 3,502.36 | 18.50 | 119.07 | 79.69 | -1,370.74 | -6,517.75 | 6,472.11 | 6,334.60 | 137.51 | 47.068 | |
| 3,700.00 | 3,598.99 | 3,555.99 | 3,598.99 | 19.03 | 122.44 | 79.91 | -1,370.74 | -6,517.75 | 6,467.40 | 6,325.99 | 141.41 | 45.735 | |
| 3,800.00 | 3,695.63 | 3,652.63 | 3,695.63 | 19.57 | 125.81 | 80.13 | -1,370.74 | -6,517.75 | 6,462.80 | 6,317.48 | 145.32 | 44.474 | |
| 3,900.00 | 3,792.27 | 3,749.27 | 3,792.27 | 20.10 | 129.18 | 80.34 | -1,370.74 | -6,517.75 | 6,458.29 | 6,309.07 | 149.22 | 43.280 | |
| 4,000.00 | 3,888.91 | 3,845.91 | 3,888.91 | 20.63 | 132.56 | 80.56 | -1,370.74 | -6,517.75 | 6,453.88 | 6,300.75 | 153.13 | 42.147 | |
| 4,100.00 | 3,985.54 | 3,942.54 | 3,985.54 | 21.17 | 135.93 | 80.78 | -1,370.74 | -6,517.75 | 6,449.57 | 6,292.53 | 157.04 | 41.070 | |
| 4,200.00 | 4,082.18 | 4,039.18 | 4,082.18 | 21.70 | 139.30 | 81.00 | -1,370.74 | -6,517.75 | 6,445.36 | 6,284.42 | 160.95 | 40.047 | |
| 4,300.00 | 4,178.82 | 4,135.82 | 4,178.82 | 22.24 | 142.67 | 81.22 | -1,370.74 | -6,517.75 | 6,441.25 | 6,276.40 | 164.85 | 39.073 | |
| 4,400.00 | 4,275.46 | 4,232.46 | 4,275.46 | 22.77 | 146.05 | 81.44 | -1,370.74 | -6,517.75 | 6,437.24 | 6,268.48 | 168.76 | 38.144 | |
| 4,500.00 | 4,372.09 | 4,329.09 | 4,372.09 | 23.31 | 149.42 | 81.65 | -1,370.74 | -6,517.75 | 6,433.33 | 6,260.66 | 172.67 | 37.258 | |
| 4,600.00 | 4,468.73 | 4,425.73 | 4,468.73 | 23.84 | 152.79 | 81.87 | -1,370.74 | -6,517.75 | 6,429.52 | 6,252.94 | 176.58 | 36.411 | |
| 4,700.00 | 4,565.37 | 4,522.37 | 4,565.37 | 24.38 | 156.17 | 82.09 | -1,370.74 | -6,517.75 | 6,425.82 | 6,245.32 | 180.49 | 35.602 | |
| 4,800.00 | 4,662.01 | 4,619.01 | 4,662.01 | 24.91 | 159.54 | 82.31 | -1,370.74 | -6,517.75 | 6,422.21 | 6,237.81 | 184.40 | 34.827 | |
| 4,900.00 | 4,758.64 | 4,715.64 | 4,758.64 | 25.45 | 162.91 | 82.53 | -1,370.74 | -6,517.75 | 6,418.70 | 6,230.39 | 188.31 | 34.085 | |
| 5,000.00 | 4,855.28 | 4,812.28 | 4,855.28 | 25.99 | 166.28 | 82.75 | -1,370.74 | -6,517.75 | 6,415.30 | 6,223.07 | 192.22 | 33.374 | |
| 5,100.00 | 4,951.92 | 4,908.92 | 4,951.92 | 26.53 | 169.66 | 82.97 | -1,370.74 | -6,517.75 | 6,411.99 | 6,215.86 | 196.14 | 32.691 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-2(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 5,005.56 | 5,048.56 | 27.06 | 173.03 | 83.19 | -1,370.74 | -6,517.75 | 6,408.79 | 6,208.74 | 200.05 | 32.036 | | |
| 5,300.00 | 5,145.19 | 5,102.19 | 5,145.19 | 27.60 | 176.40 | 83.41 | -1,370.74 | -6,517.75 | 6,405.69 | 6,201.73 | 203.96 | 31.407 | | |
| 5,400.00 | 5,241.83 | 5,201.17 | 5,241.83 | 28.14 | 179.86 | 83.64 | -1,370.74 | -6,517.75 | 6,402.69 | 6,194.74 | 207.95 | 30.789 | | |
| 5,500.00 | 5,338.47 | 5,304.53 | 5,338.47 | 28.67 | 183.47 | 83.86 | -1,370.74 | -6,517.75 | 6,399.79 | 6,187.69 | 212.10 | 30.173 | | |
| 5,600.00 | 5,435.11 | 5,407.89 | 5,435.11 | 29.21 | 187.07 | 84.08 | -1,370.74 | -6,517.75 | 6,397.00 | 6,180.75 | 216.25 | 29.582 | | |
| 5,700.00 | 5,531.74 | 5,488.74 | 5,531.74 | 29.75 | 189.90 | 84.30 | -1,370.74 | -6,517.75 | 6,394.31 | 6,174.69 | 219.61 | 29.117 | | |
| 5,800.00 | 5,628.38 | 5,585.38 | 5,628.38 | 30.29 | 193.27 | 84.52 | -1,370.74 | -6,517.75 | 6,391.71 | 6,168.19 | 223.52 | 28.595 | | |
| 5,900.00 | 5,725.02 | 5,682.02 | 5,725.02 | 30.83 | 196.64 | 84.74 | -1,370.74 | -6,517.75 | 6,389.23 | 6,161.79 | 227.44 | 28.092 | | |
| 6,000.00 | 5,821.66 | 5,778.66 | 5,821.66 | 31.37 | 200.01 | 84.97 | -1,370.74 | -6,517.75 | 6,386.84 | 6,155.49 | 231.35 | 27.607 | | |
| 6,100.00 | 5,918.29 | 5,875.29 | 5,918.29 | 31.90 | 203.39 | 85.19 | -1,370.74 | -6,517.75 | 6,384.56 | 6,149.29 | 235.26 | 27.138 | | |
| 6,200.00 | 6,014.93 | 5,971.93 | 6,014.93 | 32.44 | 206.76 | 85.41 | -1,370.74 | -6,517.75 | 6,382.38 | 6,143.20 | 239.18 | 26.685 | | |
| 6,300.00 | 6,111.57 | 6,068.57 | 6,111.57 | 32.98 | 210.13 | 85.63 | -1,370.74 | -6,517.75 | 6,380.30 | 6,137.21 | 243.09 | 26.246 | | |
| 6,400.00 | 6,208.21 | 6,165.21 | 6,208.21 | 33.52 | 213.51 | 85.86 | -1,370.74 | -6,517.75 | 6,378.33 | 6,131.32 | 247.01 | 25.823 | | |
| 6,500.00 | 6,304.84 | 6,261.84 | 6,304.84 | 34.06 | 216.88 | 86.08 | -1,370.74 | -6,517.75 | 6,376.46 | 6,125.54 | 250.92 | 25.412 | | |
| 6,600.00 | 6,401.37 | 6,358.37 | 6,401.37 | 34.60 | 220.25 | 86.31 | -1,370.74 | -6,517.75 | 6,374.51 | 6,119.68 | 254.83 | 25.007 | | |
| 6,700.00 | 6,496.25 | 6,453.25 | 6,496.25 | 35.12 | 223.56 | 86.54 | -1,370.74 | -6,517.75 | 6,372.51 | 6,113.79 | 258.66 | 24.568 | | |
| 6,800.00 | 6,587.15 | 6,544.15 | 6,587.15 | 35.59 | 226.73 | 86.77 | -1,370.74 | -6,517.75 | 6,370.51 | 6,107.89 | 262.30 | 24.102 | | |
| 6,900.00 | 6,671.83 | 6,628.83 | 6,671.83 | 36.03 | 229.69 | 86.99 | -1,370.74 | -6,517.75 | 6,368.51 | 6,101.99 | 265.68 | 23.619 | | |
| 7,000.00 | 6,748.21 | 6,705.21 | 6,748.21 | 36.41 | 232.36 | 87.22 | -1,370.74 | -6,517.75 | 6,366.51 | 6,096.09 | 268.72 | 23.128 | | |
| 7,100.00 | 6,814.41 | 6,771.41 | 6,814.41 | 36.76 | 234.67 | 87.45 | -1,370.74 | -6,517.75 | 6,364.51 | 6,090.19 | 271.35 | 22.640 | | |
| 7,200.00 | 6,868.79 | 6,825.79 | 6,868.79 | 37.07 | 236.57 | 87.68 | -1,370.74 | -6,517.75 | 6,362.51 | 6,084.29 | 273.51 | 22.163 | | |
| 7,300.00 | 6,910.01 | 6,867.01 | 6,910.01 | 37.39 | 238.00 | 87.91 | -1,370.74 | -6,517.75 | 6,360.51 | 6,078.39 | 275.14 | 21.705 | | |
| 7,400.00 | 6,937.07 | 6,894.07 | 6,937.07 | 37.76 | 239.36 | 88.14 | -1,370.74 | -6,517.75 | 6,358.51 | 6,072.49 | 276.64 | 21.243 | | |
| 7,500.00 | 6,949.29 | 6,906.29 | 6,949.29 | 38.27 | 239.38 | 88.37 | -1,370.74 | -6,517.75 | 6,356.51 | 6,066.59 | 277.44 | 20.789 | | |
| 7,600.00 | 6,949.75 | 6,906.75 | 6,949.75 | 39.02 | 239.39 | 88.60 | -1,370.74 | -6,517.75 | 6,354.51 | 6,060.59 | 277.84 | 20.514 | | |
| 7,700.00 | 6,949.37 | 6,906.37 | 6,949.37 | 40.05 | 239.38 | 88.83 | -1,370.74 | -6,517.75 | 6,352.51 | 6,054.59 | 277.84 | 20.151 | | |
| 7,800.00 | 6,948.99 | 6,905.99 | 6,948.99 | 41.35 | 239.37 | 89.06 | -1,370.74 | -6,517.75 | 6,350.51 | 6,048.59 | 277.84 | 19.787 | | |
| 7,900.00 | 6,948.61 | 6,905.61 | 6,948.61 | 42.86 | 239.35 | 89.29 | -1,370.74 | -6,517.75 | 6,348.51 | 6,042.59 | 277.84 | 19.424 | | |
| 8,000.00 | 6,948.23 | 6,905.23 | 6,948.23 | 44.53 | 239.34 | 89.52 | -1,370.74 | -6,517.75 | 6,346.51 | 6,036.59 | 277.84 | 19.061 | | |
| 8,100.00 | 6,947.85 | 6,904.85 | 6,947.85 | 46.34 | 239.33 | 89.75 | -1,370.74 | -6,517.75 | 6,344.51 | 6,030.59 | 277.84 | 18.697 | | |
| 8,200.00 | 6,947.47 | 6,904.47 | 6,947.47 | 48.26 | 239.31 | 90.00 | -1,370.74 | -6,517.75 | 6,342.51 | 6,024.59 | 277.84 | 18.333 | | |
| 8,300.00 | 6,947.09 | 6,904.09 | 6,947.09 | 50.28 | 239.30 | 90.23 | -1,370.74 | -6,517.75 | 6,340.51 | 6,018.59 | 277.84 | 17.969 | | |
| 8,400.00 | 6,946.72 | 6,903.72 | 6,946.72 | 52.39 | 239.29 | 90.46 | -1,370.74 | -6,517.75 | 6,338.51 | 6,012.59 | 277.84 | 17.605 | | |
| 8,500.00 | 6,946.34 | 6,903.34 | 6,946.34 | 54.56 | 239.27 | 90.69 | -1,370.74 | -6,517.75 | 6,336.51 | 6,006.59 | 277.84 | 17.241 | | |
| 8,600.00 | 6,945.96 | 6,902.96 | 6,945.96 | 56.80 | 239.26 | 90.92 | -1,370.74 | -6,517.75 | 6,334.51 | 6,000.59 | 277.84 | 16.877 | | |
| 8,700.00 | 6,945.58 | 6,902.58 | 6,945.58 | 59.10 | 239.25 | 91.15 | -1,370.74 | -6,517.75 | 6,332.51 | 5,994.59 | 277.84 | 16.513 | | |
| 8,800.00 | 6,945.20 | 6,902.20 | 6,945.20 | 61.44 | 239.23 | 91.38 | -1,370.74 | -6,517.75 | 6,330.51 | 5,988.59 | 277.84 | 16.148 | | |
| 8,900.00 | 6,944.82 | 6,901.82 | 6,944.82 | 63.83 | 239.22 | 91.61 | -1,370.74 | -6,517.75 | 6,328.51 | 5,982.59 | 277.84 | 15.784 | | |
| 9,000.00 | 6,944.44 | 6,901.44 | 6,944.44 | 66.25 | 239.21 | 91.84 | -1,370.74 | -6,517.75 | 6,326.51 | 5,976.59 | 277.84 | 15.419 | | |
| 9,100.00 | 6,944.06 | 6,901.06 | 6,944.06 | 68.71 | 239.19 | 92.07 | -1,370.74 | -6,517.75 | 6,324.51 | 5,970.59 | 277.84 | 15.054 | | |
| 9,200.00 | 6,943.68 | 6,900.68 | 6,943.68 | 71.20 | 239.18 | 92.30 | -1,370.74 | -6,517.75 | 6,322.51 | 5,964.59 | 277.84 | 14.689 | | |
| 9,300.00 | 6,943.30 | 6,900.30 | 6,943.30 | 73.72 | 239.17 | 92.53 | -1,370.74 | -6,517.75 | 6,320.51 | 5,958.59 | 277.84 | 14.324 | | |
| 9,400.00 | 6,942.92 | 6,900.00 | 6,942.92 | 76.26 | 239.16 | 92.76 | -1,370.74 | -6,517.75 | 6,318.51 | 5,952.59 | 277.84 | 13.959 | | |
| 9,500.00 | 6,942.54 | 6,900.46 | 6,942.54 | 78.82 | 239.17 | 92.99 | -1,370.74 | -6,517.75 | 6,316.51 | 5,946.59 | 277.84 | 13.592 | | |
| 9,600.00 | 6,942.16 | 6,900.84 | 6,942.16 | 81.40 | 239.19 | 93.22 | -1,370.74 | -6,517.75 | 6,314.51 | 5,940.59 | 277.84 | 13.226 | | |
| 9,700.00 | 6,941.78 | 6,901.22 | 6,941.78 | 84.00 | 239.20 | 93.45 | -1,370.74 | -6,517.75 | 6,312.51 | 5,934.59 | 277.84 | 12.859 | | |
| 9,800.00 | 6,941.40 | 6,901.60 | 6,941.40 | 86.62 | 239.21 | 93.68 | -1,370.74 | -6,517.75 | 6,310.51 | 5,928.59 | 277.84 | 12.492 | | |
| 9,900.00 | 6,941.03 | 6,901.97 | 6,941.03 | 89.25 | 239.23 | 93.91 | -1,370.74 | -6,517.75 | 6,308.51 | 5,922.59 | 277.84 | 12.125 | | |
| 10,000.00 | 6,940.65 | 6,902.35 | 6,940.65 | 91.90 | 239.24 | 94.14 | -1,370.74 | -6,517.75 | 6,306.51 | 5,916.59 | 277.84 | 11.758 | | |
| 10,100.00 | 6,940.27 | 6,902.73 | 6,940.27 | 94.56 | 239.25 | 94.37 | -1,370.74 | -6,517.75 | 6,304.51 | 5,910.59 | 277.84 | 11.392 | | |
| 10,200.00 | 6,939.89 | 6,903.11 | 6,939.89 | 97.23 | 239.27 | 94.60 | -1,370.74 | -6,517.75 | 6,302.51 | 5,904.59 | 277.84 | 11.024 | | |
| 10,300.00 | 6,939.51 | 6,903.49 | 6,939.51 | 99.91 | 239.28 | 94.83 | -1,370.74 | -6,517.75 | 6,300.51 | 5,898.59 | 277.84 | 10.657 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-2(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,400.00 | 6,939.13 | 6,903.87 | 6,939.13 | 102.60 | 239.29 | 91.75 | -1,370.74 | -6,517.75 | 2,889.23 | 2,608.45 | 280.77 | 10.290 | | |
| 10,500.00 | 6,938.75 | 6,904.25 | 6,938.75 | 105.30 | 239.30 | 91.68 | -1,370.74 | -6,517.75 | 2,790.02 | 2,508.85 | 281.17 | 9.923 | | |
| 10,600.00 | 6,938.37 | 6,904.63 | 6,938.37 | 108.00 | 239.32 | 91.62 | -1,370.74 | -6,517.75 | 2,690.87 | 2,409.27 | 281.60 | 9.556 | | |
| 10,700.00 | 6,937.99 | 6,905.01 | 6,937.99 | 110.72 | 239.33 | 91.56 | -1,370.74 | -6,517.75 | 2,591.79 | 2,309.71 | 282.08 | 9.188 | | |
| 10,800.00 | 6,937.61 | 6,905.39 | 6,937.61 | 113.44 | 239.34 | 91.50 | -1,370.74 | -6,517.75 | 2,492.78 | 2,210.18 | 282.61 | 8.821 | | |
| 10,900.00 | 6,937.23 | 6,905.77 | 6,937.23 | 116.17 | 239.36 | 91.44 | -1,370.74 | -6,517.75 | 2,393.86 | 2,110.66 | 283.19 | 8.453 | | |
| 11,000.00 | 6,936.85 | 6,906.15 | 6,936.85 | 118.90 | 239.37 | 91.38 | -1,370.74 | -6,517.75 | 2,295.02 | 2,011.18 | 283.84 | 8.086 | | |
| 11,100.00 | 6,936.47 | 6,906.53 | 6,936.47 | 121.64 | 239.38 | 91.32 | -1,370.74 | -6,517.75 | 2,196.29 | 1,911.72 | 284.57 | 7.718 | | |
| 11,200.00 | 6,936.09 | 6,906.91 | 6,936.09 | 124.39 | 239.40 | 91.26 | -1,370.74 | -6,517.75 | 2,097.69 | 1,812.29 | 285.39 | 7.350 | | |
| 11,300.00 | 6,935.71 | 6,907.29 | 6,935.71 | 127.14 | 239.41 | 91.20 | -1,370.74 | -6,517.75 | 1,999.22 | 1,712.90 | 286.32 | 6.982 | | |
| 11,400.00 | 6,935.34 | 6,907.66 | 6,935.34 | 129.90 | 239.42 | 91.14 | -1,370.74 | -6,517.75 | 1,900.91 | 1,613.54 | 287.37 | 6.615 | | |
| 11,500.00 | 6,934.96 | 6,908.04 | 6,934.96 | 132.66 | 239.44 | 91.08 | -1,370.74 | -6,517.75 | 1,802.78 | 1,514.22 | 288.56 | 6.247 | | |
| 11,600.00 | 6,934.58 | 6,908.42 | 6,934.58 | 135.42 | 239.45 | 91.02 | -1,370.74 | -6,517.75 | 1,704.88 | 1,414.94 | 289.94 | 5.880 | | |
| 11,700.00 | 6,934.20 | 6,908.80 | 6,934.20 | 138.19 | 239.46 | 90.95 | -1,370.74 | -6,517.75 | 1,607.23 | 1,315.71 | 291.52 | 5.513 | | |
| 11,800.00 | 6,933.82 | 6,909.18 | 6,933.82 | 140.96 | 239.48 | 90.89 | -1,370.74 | -6,517.75 | 1,509.89 | 1,216.54 | 293.35 | 5.147 | | |
| 11,900.00 | 6,933.44 | 6,909.56 | 6,933.44 | 143.74 | 239.49 | 90.83 | -1,370.74 | -6,517.75 | 1,412.92 | 1,117.42 | 295.50 | 4.781 | | |
| 12,000.00 | 6,933.06 | 6,909.94 | 6,933.06 | 146.51 | 239.50 | 90.77 | -1,370.74 | -6,517.75 | 1,316.41 | 1,018.38 | 298.02 | 4.417 | | |
| 12,100.00 | 6,932.68 | 6,889.68 | 6,932.68 | 149.30 | 238.80 | 90.71 | -1,370.74 | -6,517.75 | 1,220.45 | 920.16 | 300.30 | 4.064 | | |
| 12,200.00 | 6,932.30 | 6,889.30 | 6,932.30 | 152.08 | 238.78 | 90.65 | -1,370.74 | -6,517.75 | 1,125.21 | 821.35 | 303.86 | 3.703 | | |
| 12,300.00 | 6,931.92 | 6,888.92 | 6,931.92 | 154.87 | 238.77 | 90.59 | -1,370.74 | -6,517.75 | 1,030.86 | 722.70 | 308.15 | 3.345 | | |
| 12,400.00 | 6,931.54 | 6,888.54 | 6,931.54 | 157.66 | 238.76 | 90.53 | -1,370.74 | -6,517.75 | 937.68 | 624.29 | 313.39 | 2.992 | | |
| 12,500.00 | 6,931.16 | 6,888.16 | 6,931.16 | 160.45 | 238.74 | 90.47 | -1,370.74 | -6,517.75 | 846.06 | 526.22 | 319.85 | 2.645 | | |
| 12,600.00 | 6,930.78 | 6,887.78 | 6,930.78 | 163.24 | 238.73 | 90.41 | -1,370.74 | -6,517.75 | 756.57 | 428.71 | 327.86 | 2.308 | | |
| 12,700.00 | 6,930.40 | 6,887.40 | 6,930.40 | 166.04 | 238.72 | 90.35 | -1,370.74 | -6,517.75 | 670.06 | 332.18 | 337.87 | 1.983 | | |
| 12,800.00 | 6,930.03 | 6,887.03 | 6,930.03 | 168.84 | 238.70 | 90.28 | -1,370.74 | -6,517.75 | 587.84 | 237.45 | 350.39 | 1.678 | | |
| 12,900.00 | 6,929.65 | 6,886.65 | 6,929.65 | 171.64 | 238.69 | 90.22 | -1,370.74 | -6,517.75 | 511.98 | 146.19 | 365.79 | 1.400 Level 3 | | |
| 13,000.00 | 6,929.27 | 6,886.27 | 6,929.27 | 174.44 | 238.68 | 90.16 | -1,370.74 | -6,517.75 | 445.76 | 61.90 | 383.86 | 1.161 Level 2 | | |
| 13,100.00 | 6,928.89 | 6,885.89 | 6,928.89 | 177.24 | 238.66 | 90.10 | -1,370.74 | -6,517.75 | 394.05 | -8.52 | 402.57 | 0.979 Level 1 | | |
| 13,200.00 | 6,928.51 | 6,885.51 | 6,928.51 | 180.05 | 238.65 | 90.04 | -1,370.74 | -6,517.75 | 363.12 | -53.68 | 416.80 | 0.871 Level 1 | | |
| 13,267.12 | 6,928.25 | 6,885.25 | 6,928.25 | 181.93 | 238.64 | 90.00 | -1,370.74 | -6,517.75 | 356.86 | -63.60 | 420.46 | 0.849 Level 1, CC, ES, SF | | |
| 13,300.00 | 6,928.13 | 6,885.13 | 6,928.13 | 182.86 | 238.64 | 89.98 | -1,370.74 | -6,517.75 | 358.37 | -61.69 | 420.06 | 0.853 Level 1 | | |
| 13,400.00 | 6,927.75 | 6,884.75 | 6,927.75 | 185.67 | 238.62 | 89.92 | -1,370.74 | -6,517.75 | 380.79 | -30.04 | 410.83 | 0.927 Level 1 | | |
| 13,500.00 | 6,927.37 | 6,884.37 | 6,927.37 | 188.48 | 238.61 | 89.86 | -1,370.74 | -6,517.75 | 426.12 | 31.78 | 394.34 | 1.081 Level 2 | | |
| 13,600.00 | 6,926.99 | 6,883.99 | 6,926.99 | 191.29 | 238.60 | 89.80 | -1,370.74 | -6,517.75 | 488.01 | 111.38 | 376.63 | 1.296 Level 3 | | |
| 13,700.00 | 6,926.61 | 6,883.61 | 6,926.61 | 194.10 | 238.58 | 89.74 | -1,370.74 | -6,517.75 | 561.01 | 200.18 | 360.83 | 1.555 | | |
| 13,800.00 | 6,926.23 | 6,883.23 | 6,926.23 | 196.92 | 238.57 | 89.68 | -1,370.74 | -6,517.75 | 641.33 | 293.61 | 347.71 | 1.844 | | |
| 13,900.00 | 6,925.85 | 6,882.85 | 6,925.85 | 199.73 | 238.56 | 89.61 | -1,370.74 | -6,517.75 | 726.55 | 389.43 | 337.12 | 2.155 | | |
| 14,000.00 | 6,925.47 | 6,882.47 | 6,925.47 | 202.55 | 238.54 | 89.55 | -1,370.74 | -6,517.75 | 815.14 | 486.54 | 328.60 | 2.481 | | |
| 14,100.00 | 6,925.09 | 6,882.09 | 6,925.09 | 205.37 | 238.53 | 89.49 | -1,370.74 | -6,517.75 | 906.10 | 584.39 | 321.71 | 2.817 | | |
| 14,200.00 | 6,924.71 | 6,881.71 | 6,924.71 | 208.19 | 238.52 | 89.43 | -1,370.74 | -6,517.75 | 998.80 | 682.69 | 316.11 | 3.160 | | |
| 14,300.00 | 6,924.34 | 6,881.34 | 6,924.34 | 211.01 | 238.50 | 89.37 | -1,370.74 | -6,517.75 | 1,092.78 | 781.27 | 311.51 | 3.508 | | |
| 14,400.00 | 6,923.96 | 6,880.96 | 6,923.96 | 213.83 | 238.49 | 89.31 | -1,370.74 | -6,517.75 | 1,187.74 | 880.05 | 307.69 | 3.860 | | |
| 14,500.00 | 6,923.58 | 6,880.58 | 6,923.58 | 216.65 | 238.48 | 89.25 | -1,370.74 | -6,517.75 | 1,283.48 | 978.97 | 304.50 | 4.215 | | |
| 14,600.00 | 6,923.20 | 6,880.20 | 6,923.20 | 219.48 | 238.47 | 89.19 | -1,370.74 | -6,517.75 | 1,379.81 | 1,078.00 | 301.81 | 4.572 | | |
| 14,700.00 | 6,922.82 | 6,879.82 | 6,922.82 | 222.30 | 238.45 | 89.13 | -1,370.74 | -6,517.75 | 1,476.64 | 1,177.10 | 299.53 | 4.930 | | |
| 14,800.00 | 6,922.44 | 6,879.44 | 6,922.44 | 225.13 | 238.44 | 89.07 | -1,370.74 | -6,517.75 | 1,573.86 | 1,276.28 | 297.58 | 5.289 | | |
| 14,900.00 | 6,922.06 | 6,879.06 | 6,922.06 | 227.95 | 238.43 | 89.01 | -1,370.74 | -6,517.75 | 1,671.40 | 1,375.51 | 295.90 | 5.649 | | |
| 14,915.55 | 6,922.00 | 6,879.00 | 6,922.00 | 228.39 | 238.42 | 89.00 | -1,370.74 | -6,517.75 | 1,686.60 | 1,390.94 | 295.66 | 5.705 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|-----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 38.00 | 3.28 | 3.28 | -91.75 | -234.15 | -7,656.44 | 7,660.12 | | | | | |
| 100.00 | 100.00 | 100.00 | 125.72 | 3.28 | 3.29 | -91.75 | -233.86 | -7,656.16 | 7,659.77 | 7,653.20 | 6.57 | 1,165.542 | | |
| 200.00 | 200.00 | 181.41 | 219.41 | 3.34 | 3.33 | -91.75 | -233.27 | -7,655.76 | 7,659.34 | 7,652.67 | 6.67 | 1,149.104 | | |
| 300.00 | 299.98 | 255.03 | 293.02 | 3.44 | 3.40 | 82.89 | -232.81 | -7,655.72 | 7,659.04 | 7,652.21 | 6.84 | 1,120.497 | | |
| 400.00 | 399.84 | 330.65 | 368.64 | 3.59 | 3.49 | 82.93 | -232.61 | -7,655.92 | 7,658.65 | 7,651.57 | 7.08 | 1,081.421 | | |
| 500.00 | 499.45 | 412.17 | 450.16 | 3.79 | 3.63 | 82.99 | -232.68 | -7,656.36 | 7,658.13 | 7,650.71 | 7.41 | 1,032.879 | | |
| 600.00 | 598.70 | 520.50 | 558.49 | 4.03 | 3.85 | 83.11 | -232.95 | -7,656.97 | 7,657.21 | 7,649.33 | 7.88 | 971.998 | | |
| 700.00 | 697.47 | 610.84 | 648.83 | 4.31 | 4.07 | 83.23 | -233.61 | -7,657.47 | 7,655.91 | 7,647.53 | 8.38 | 913.775 | | |
| 800.00 | 795.62 | 697.96 | 735.94 | 4.64 | 4.30 | 83.38 | -234.48 | -7,658.07 | 7,654.36 | 7,645.43 | 8.93 | 856.821 | | |
| 900.00 | 893.06 | 797.60 | 835.57 | 5.00 | 4.58 | 83.58 | -235.50 | -7,658.81 | 7,652.53 | 7,642.95 | 9.58 | 798.660 | | |
| 1,000.00 | 989.78 | 899.05 | 937.02 | 5.39 | 4.90 | 83.78 | -236.50 | -7,659.52 | 7,650.39 | 7,640.10 | 10.29 | 743.583 | | |
| 1,100.00 | 1,086.42 | 1,000.38 | 1,038.34 | 5.81 | 5.23 | 83.97 | -237.36 | -7,660.18 | 7,648.23 | 7,637.20 | 11.04 | 692.893 | | |
| 1,200.00 | 1,183.06 | 1,097.73 | 1,135.69 | 6.25 | 5.56 | 84.15 | -237.92 | -7,660.78 | 7,646.13 | 7,634.32 | 11.81 | 647.598 | | |
| 1,300.00 | 1,279.69 | 1,191.37 | 1,229.33 | 6.71 | 5.89 | 84.33 | -238.27 | -7,661.37 | 7,644.12 | 7,631.53 | 12.59 | 607.219 | | |
| 1,400.00 | 1,376.33 | 1,300.10 | 1,338.05 | 7.17 | 6.28 | 84.54 | -238.56 | -7,662.01 | 7,642.15 | 7,628.70 | 13.45 | 568.348 | | |
| 1,500.00 | 1,472.97 | 1,389.17 | 1,427.12 | 7.65 | 6.61 | 84.70 | -238.80 | -7,662.50 | 7,640.22 | 7,625.97 | 14.25 | 536.142 | | |
| 1,600.00 | 1,569.61 | 1,485.74 | 1,523.69 | 8.13 | 6.97 | 84.89 | -239.18 | -7,663.09 | 7,638.44 | 7,623.34 | 15.10 | 505.974 | | |
| 1,700.00 | 1,666.24 | 1,576.28 | 1,614.23 | 8.62 | 7.31 | 85.06 | -239.52 | -7,663.66 | 7,636.76 | 7,620.83 | 15.93 | 479.335 | | |
| 1,800.00 | 1,762.88 | 1,676.16 | 1,714.10 | 9.12 | 7.70 | 85.25 | -239.75 | -7,664.34 | 7,635.21 | 7,618.40 | 16.81 | 454.108 | | |
| 1,900.00 | 1,859.52 | 1,772.74 | 1,810.68 | 9.62 | 8.08 | 85.43 | -239.84 | -7,664.95 | 7,633.71 | 7,616.01 | 17.69 | 431.484 | | |
| 2,000.00 | 1,956.16 | 1,871.90 | 1,909.83 | 10.13 | 8.47 | 85.62 | -240.02 | -7,665.58 | 7,632.29 | 7,613.70 | 18.59 | 410.609 | | |
| 2,100.00 | 2,052.79 | 1,963.31 | 2,001.25 | 10.64 | 8.83 | 85.80 | -240.24 | -7,666.15 | 7,630.94 | 7,611.48 | 19.46 | 392.139 | | |
| 2,200.00 | 2,149.43 | 2,089.06 | 2,127.00 | 11.15 | 9.33 | 86.04 | -240.38 | -7,666.87 | 7,629.65 | 7,609.18 | 20.47 | 372.641 | | |
| 2,300.00 | 2,246.07 | 2,195.76 | 2,233.69 | 11.66 | 9.76 | 86.24 | -240.57 | -7,667.09 | 7,628.08 | 7,606.66 | 21.42 | 356.147 | | |
| 2,400.00 | 2,342.71 | 2,315.79 | 2,353.72 | 12.18 | 10.25 | 86.47 | -241.29 | -7,667.13 | 7,626.40 | 7,603.98 | 22.42 | 340.175 | | |
| 2,500.00 | 2,439.34 | 2,402.25 | 2,440.18 | 12.70 | 10.60 | 86.63 | -241.77 | -7,667.11 | 7,624.75 | 7,601.46 | 23.29 | 327.402 | | |
| 2,600.00 | 2,535.98 | 2,501.05 | 2,538.98 | 13.22 | 11.00 | 86.82 | -242.19 | -7,667.10 | 7,623.20 | 7,598.99 | 24.21 | 314.861 | | |
| 2,700.00 | 2,632.62 | 2,629.68 | 2,667.60 | 13.75 | 11.52 | 87.07 | -242.55 | -7,666.77 | 7,621.51 | 7,596.25 | 25.26 | 301.762 | | |
| 2,800.00 | 2,729.26 | 2,734.84 | 2,772.77 | 14.27 | 11.95 | 87.27 | -242.52 | -7,666.19 | 7,619.62 | 7,593.41 | 26.21 | 290.717 | | |
| 2,900.00 | 2,825.89 | 2,800.01 | 2,837.93 | 14.80 | 12.22 | 87.40 | -242.32 | -7,665.83 | 7,617.89 | 7,590.89 | 27.00 | 282.110 | | |
| 3,000.00 | 2,922.53 | 2,865.36 | 2,903.28 | 15.32 | 12.49 | 87.53 | -241.92 | -7,665.73 | 7,616.65 | 7,588.85 | 27.80 | 273.983 | | |
| 3,100.00 | 3,019.17 | 2,918.68 | 2,956.60 | 15.85 | 12.70 | 87.63 | -241.42 | -7,666.00 | 7,616.09 | 7,587.54 | 28.55 | 266.774 | | |
| 3,142.49 | 3,060.23 | 2,943.11 | 2,981.03 | 16.07 | 12.81 | 87.68 | -241.16 | -7,666.21 | 7,616.04 | 7,587.16 | 28.87 | 263.774 | | |
| 3,200.00 | 3,115.81 | 2,976.17 | 3,014.08 | 16.38 | 12.94 | 87.75 | -240.78 | -7,666.58 | 7,616.13 | 7,586.82 | 29.31 | 259.812 | | |
| 3,300.00 | 3,212.44 | 3,049.85 | 3,087.75 | 16.91 | 13.25 | 87.90 | -239.86 | -7,667.67 | 7,616.70 | 7,586.56 | 30.15 | 252.640 | | |
| 3,400.00 | 3,309.08 | 3,121.98 | 3,159.86 | 17.44 | 13.55 | 88.04 | -238.83 | -7,668.85 | 7,617.57 | 7,586.60 | 30.98 | 245.908 | | |
| 3,500.00 | 3,405.72 | 3,175.44 | 3,213.30 | 17.97 | 13.77 | 88.15 | -237.97 | -7,670.00 | 7,619.01 | 7,587.28 | 31.73 | 240.136 | | |
| 3,600.00 | 3,502.36 | 3,238.19 | 3,276.02 | 18.50 | 14.03 | 88.28 | -236.88 | -7,671.68 | 7,621.05 | 7,588.54 | 32.52 | 234.365 | | |
| 3,700.00 | 3,598.99 | 3,311.79 | 3,349.58 | 19.03 | 14.34 | 88.43 | -235.47 | -7,673.90 | 7,623.54 | 7,590.18 | 33.35 | 228.562 | | |
| 3,800.00 | 3,695.63 | 3,407.92 | 3,445.63 | 19.57 | 14.74 | 88.63 | -233.25 | -7,676.89 | 7,626.26 | 7,591.97 | 34.29 | 222.413 | | |
| 3,900.00 | 3,792.27 | 3,533.34 | 3,570.95 | 20.10 | 15.27 | 88.90 | -229.83 | -7,680.51 | 7,628.88 | 7,593.53 | 35.35 | 215.805 | | |
| 4,000.00 | 3,888.91 | 3,647.27 | 3,684.80 | 20.63 | 15.75 | 89.14 | -226.91 | -7,683.41 | 7,631.27 | 7,594.90 | 36.36 | 209.856 | | |
| 4,100.00 | 3,985.54 | 3,748.84 | 3,786.32 | 21.17 | 16.18 | 89.35 | -224.69 | -7,685.91 | 7,633.65 | 7,596.33 | 37.33 | 204.518 | | |
| 4,200.00 | 4,082.18 | 3,850.41 | 3,887.85 | 21.70 | 16.60 | 89.56 | -222.71 | -7,688.36 | 7,636.06 | 7,597.78 | 38.29 | 199.445 | | |
| 4,300.00 | 4,178.82 | 3,954.21 | 3,991.60 | 22.24 | 17.04 | 89.77 | -220.95 | -7,690.81 | 7,638.50 | 7,599.24 | 39.26 | 194.571 | | |
| 4,400.00 | 4,275.46 | 4,065.44 | 4,102.79 | 22.77 | 17.51 | 89.99 | -219.43 | -7,693.30 | 7,640.89 | 7,600.63 | 40.26 | 189.777 | | |
| 4,500.00 | 4,372.09 | 4,165.06 | 4,202.38 | 23.31 | 17.93 | 90.19 | -217.94 | -7,695.36 | 7,643.23 | 7,602.01 | 41.22 | 185.437 | | |
| 4,600.00 | 4,468.73 | 4,266.92 | 4,304.21 | 23.84 | 18.36 | 90.40 | -216.74 | -7,697.49 | 7,645.65 | 7,603.46 | 42.18 | 181.251 | | |
| 4,700.00 | 4,565.37 | 4,374.24 | 4,411.51 | 24.38 | 18.81 | 90.61 | -215.78 | -7,699.64 | 7,648.03 | 7,604.86 | 43.17 | 177.153 | | |
| 4,800.00 | 4,662.01 | 4,486.71 | 4,523.95 | 24.91 | 19.28 | 90.83 | -215.17 | -7,701.74 | 7,650.35 | 7,606.17 | 44.18 | 173.148 | | |
| 4,900.00 | 4,758.64 | 4,629.09 | 4,666.32 | 25.45 | 19.88 | 91.10 | -214.66 | -7,703.77 | 7,652.29 | 7,606.96 | 45.32 | 168.832 | | |
| 5,000.00 | 4,855.28 | 4,722.59 | 4,759.81 | 25.99 | 20.28 | 91.29 | -214.37 | -7,704.88 | 7,654.11 | 7,607.85 | 46.26 | 165.472 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-3(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 4,817.13 | 4,854.34 | 26.53 | 20.68 | 91.47 | -214.09 | -7,706.07 | 7,656.07 | 7,608.88 | 47.19 | 162.231 | | |
| 5,200.00 | 5,048.56 | 4,923.14 | 4,960.34 | 27.06 | 21.13 | 91.67 | -213.74 | -7,707.30 | 7,658.04 | 7,609.86 | 48.18 | 158.953 | | |
| 5,300.00 | 5,145.19 | 5,020.81 | 5,058.00 | 27.60 | 21.54 | 91.86 | -213.33 | -7,708.39 | 7,660.06 | 7,610.93 | 49.13 | 155.919 | | |
| 5,400.00 | 5,241.83 | 5,125.86 | 5,163.05 | 28.14 | 21.98 | 92.07 | -212.85 | -7,709.45 | 7,662.07 | 7,611.96 | 50.11 | 152.903 | | |
| 5,500.00 | 5,338.47 | 5,222.17 | 5,259.36 | 28.67 | 22.39 | 92.25 | -212.51 | -7,710.42 | 7,664.15 | 7,613.09 | 51.06 | 150.114 | | |
| 5,600.00 | 5,435.11 | 5,352.11 | 5,389.29 | 29.21 | 22.94 | 92.51 | -212.09 | -7,711.56 | 7,666.22 | 7,614.08 | 52.14 | 147.018 | | |
| 5,700.00 | 5,531.74 | 5,487.62 | 5,524.80 | 29.75 | 23.52 | 92.77 | -211.18 | -7,711.79 | 7,667.70 | 7,614.44 | 53.26 | 143.978 | | |
| 5,800.00 | 5,628.38 | 5,565.16 | 5,602.33 | 30.29 | 23.84 | 92.92 | -210.70 | -7,711.86 | 7,669.22 | 7,615.10 | 54.12 | 141.706 | | |
| 5,900.00 | 5,725.02 | 5,652.37 | 5,689.55 | 30.83 | 24.21 | 93.09 | -210.43 | -7,712.22 | 7,671.07 | 7,616.04 | 55.03 | 139.405 | | |
| 6,000.00 | 5,821.66 | 5,744.61 | 5,781.79 | 31.37 | 24.60 | 93.27 | -210.13 | -7,712.61 | 7,673.03 | 7,617.08 | 55.96 | 137.128 | | |
| 6,100.00 | 5,918.29 | 5,833.09 | 5,870.26 | 31.90 | 24.98 | 93.44 | -209.78 | -7,713.08 | 7,675.19 | 7,618.33 | 56.87 | 134.966 | | |
| 6,200.00 | 6,014.93 | 5,922.05 | 5,959.21 | 32.44 | 25.36 | 93.62 | -209.39 | -7,713.60 | 7,677.51 | 7,619.73 | 57.78 | 132.870 | | |
| 6,300.00 | 6,111.57 | 6,000.01 | 6,037.18 | 32.98 | 25.69 | 93.77 | -209.15 | -7,714.24 | 7,680.11 | 7,621.46 | 58.65 | 130.951 | | |
| 6,400.00 | 6,208.21 | 6,113.99 | 6,151.15 | 33.52 | 26.17 | 93.98 | -208.97 | -7,715.22 | 7,682.81 | 7,623.14 | 59.67 | 128.751 | | |
| 6,500.00 | 6,304.84 | 6,175.97 | 6,213.12 | 34.06 | 26.44 | 94.10 | -208.91 | -7,715.86 | 7,685.73 | 7,625.27 | 60.47 | 127.103 | | |
| 6,600.00 | 6,401.37 | 6,264.89 | 6,302.04 | 34.60 | 26.81 | 77.58 | -208.91 | -7,717.03 | 7,686.86 | 7,625.48 | 61.38 | 125.230 | | |
| 6,700.00 | 6,496.25 | 6,360.48 | 6,397.62 | 35.12 | 27.22 | 55.49 | -209.12 | -7,718.31 | 7,674.37 | 7,612.06 | 62.31 | 123.166 | | |
| 6,800.00 | 6,587.15 | 6,474.32 | 6,511.45 | 35.59 | 27.71 | 43.85 | -209.45 | -7,719.75 | 7,646.81 | 7,583.53 | 63.28 | 120.845 | | |
| 6,900.00 | 6,671.83 | 6,573.91 | 6,611.04 | 36.03 | 28.13 | 37.93 | -209.94 | -7,720.72 | 7,604.65 | 7,540.51 | 64.14 | 118.563 | | |
| 7,000.00 | 6,748.21 | 6,652.84 | 6,689.96 | 36.41 | 28.47 | 35.26 | -210.43 | -7,721.44 | 7,549.19 | 7,484.32 | 64.87 | 116.375 | | |
| 7,100.00 | 6,814.41 | 6,715.75 | 6,752.86 | 36.76 | 28.73 | 34.91 | -211.13 | -7,722.08 | 7,481.87 | 7,416.38 | 65.49 | 114.248 | | |
| 7,200.00 | 6,868.79 | 6,760.20 | 6,797.31 | 37.07 | 28.92 | 36.79 | -211.72 | -7,722.60 | 7,404.41 | 7,338.42 | 65.99 | 112.212 | | |
| 7,300.00 | 6,910.01 | 6,794.37 | 6,831.47 | 37.39 | 29.07 | 41.78 | -212.20 | -7,723.05 | 7,318.67 | 7,252.27 | 66.40 | 110.219 | | |
| 7,400.00 | 6,937.07 | 6,818.57 | 6,855.67 | 37.76 | 29.17 | 52.56 | -212.54 | -7,723.39 | 7,226.70 | 7,159.96 | 66.74 | 108.289 | | |
| 7,500.00 | 6,949.29 | 6,830.41 | 6,867.50 | 38.27 | 29.22 | 75.88 | -212.70 | -7,723.56 | 7,130.71 | 7,063.73 | 66.98 | 106.458 | | |
| 7,600.00 | 6,949.75 | 6,832.08 | 6,869.17 | 39.02 | 29.23 | 87.95 | -212.72 | -7,723.59 | 7,033.12 | 6,965.96 | 67.16 | 104.720 | | |
| 7,700.00 | 6,949.37 | 6,833.02 | 6,870.11 | 40.05 | 29.23 | 87.98 | -212.73 | -7,723.60 | 6,935.52 | 6,868.18 | 67.35 | 102.978 | | |
| 7,800.00 | 6,948.99 | 6,833.96 | 6,871.05 | 41.35 | 29.24 | 88.02 | -212.75 | -7,723.62 | 6,838.00 | 6,770.45 | 67.56 | 101.221 | | |
| 7,900.00 | 6,948.61 | 6,834.91 | 6,872.00 | 42.86 | 29.24 | 88.05 | -212.76 | -7,723.63 | 6,740.55 | 6,672.77 | 67.78 | 99.449 | | |
| 8,000.00 | 6,948.23 | 6,835.86 | 6,872.95 | 44.53 | 29.24 | 88.09 | -212.77 | -7,723.64 | 6,643.17 | 6,575.15 | 68.02 | 97.662 | | |
| 8,100.00 | 6,947.85 | 6,836.81 | 6,873.90 | 46.34 | 29.25 | 88.13 | -212.78 | -7,723.66 | 6,545.88 | 6,477.59 | 68.29 | 95.860 | | |
| 8,200.00 | 6,947.47 | 6,837.76 | 6,874.85 | 48.26 | 29.25 | 88.16 | -212.80 | -7,723.67 | 6,448.66 | 6,380.09 | 68.57 | 94.043 | | |
| 8,300.00 | 6,947.09 | 6,838.71 | 6,875.80 | 50.28 | 29.26 | 88.20 | -212.81 | -7,723.68 | 6,351.53 | 6,282.66 | 68.88 | 92.213 | | |
| 8,400.00 | 6,946.72 | 6,839.67 | 6,876.76 | 52.39 | 29.26 | 88.23 | -212.82 | -7,723.70 | 6,254.50 | 6,185.29 | 69.21 | 90.369 | | |
| 8,500.00 | 6,946.34 | 6,840.63 | 6,877.72 | 54.56 | 29.27 | 88.27 | -212.83 | -7,723.71 | 6,157.55 | 6,087.98 | 69.57 | 88.511 | | |
| 8,600.00 | 6,945.96 | 6,841.59 | 6,878.68 | 56.80 | 29.27 | 88.31 | -212.85 | -7,723.73 | 6,060.71 | 5,990.76 | 69.95 | 86.640 | | |
| 8,700.00 | 6,945.58 | 6,842.56 | 6,879.65 | 59.10 | 29.27 | 88.34 | -212.86 | -7,723.74 | 5,963.97 | 5,893.60 | 70.37 | 84.757 | | |
| 8,800.00 | 6,945.20 | 6,843.53 | 6,880.62 | 61.44 | 29.28 | 88.38 | -212.87 | -7,723.76 | 5,867.34 | 5,796.53 | 70.81 | 82.863 | | |
| 8,900.00 | 6,944.82 | 6,844.50 | 6,881.59 | 63.83 | 29.28 | 88.41 | -212.88 | -7,723.77 | 5,770.82 | 5,699.54 | 71.28 | 80.957 | | |
| 9,000.00 | 6,944.44 | 6,845.47 | 6,882.56 | 66.25 | 29.29 | 88.45 | -212.90 | -7,723.78 | 5,674.43 | 5,602.64 | 71.79 | 79.042 | | |
| 9,100.00 | 6,944.06 | 6,846.45 | 6,883.53 | 68.71 | 29.29 | 88.49 | -212.91 | -7,723.80 | 5,578.16 | 5,505.82 | 72.33 | 77.117 | | |
| 9,200.00 | 6,943.68 | 6,847.42 | 6,884.51 | 71.20 | 29.29 | 88.52 | -212.92 | -7,723.81 | 5,482.02 | 5,409.11 | 72.91 | 75.185 | | |
| 9,300.00 | 6,943.30 | 6,848.40 | 6,885.49 | 73.72 | 29.30 | 88.56 | -212.93 | -7,723.83 | 5,386.03 | 5,312.49 | 73.53 | 73.245 | | |
| 9,400.00 | 6,942.92 | 6,849.39 | 6,886.47 | 76.26 | 29.30 | 88.60 | -212.95 | -7,723.84 | 5,290.18 | 5,215.98 | 74.20 | 71.300 | | |
| 9,500.00 | 6,942.54 | 6,850.37 | 6,887.46 | 78.82 | 29.31 | 88.64 | -212.96 | -7,723.86 | 5,194.49 | 5,119.59 | 74.90 | 69.351 | | |
| 9,600.00 | 6,942.16 | 6,851.36 | 6,888.45 | 81.40 | 29.31 | 88.67 | -212.97 | -7,723.87 | 5,098.96 | 5,023.31 | 75.65 | 67.399 | | |
| 9,700.00 | 6,941.78 | 6,852.35 | 6,889.44 | 84.00 | 29.32 | 88.71 | -212.98 | -7,723.89 | 5,003.61 | 4,927.16 | 76.45 | 65.445 | | |
| 9,800.00 | 6,941.40 | 6,853.34 | 6,890.43 | 86.62 | 29.32 | 88.75 | -213.00 | -7,723.90 | 4,908.45 | 4,831.14 | 77.31 | 63.492 | | |
| 9,900.00 | 6,941.03 | 6,854.34 | 6,891.42 | 89.25 | 29.32 | 88.78 | -213.01 | -7,723.92 | 4,813.48 | 4,735.26 | 78.22 | 61.541 | | |
| 10,000.00 | 6,940.65 | 6,855.33 | 6,892.42 | 91.90 | 29.33 | 88.82 | -213.02 | -7,723.93 | 4,718.71 | 4,639.53 | 79.18 | 59.594 | | |
| 10,100.00 | 6,940.27 | 6,856.33 | 6,893.42 | 94.56 | 29.33 | 88.86 | -213.03 | -7,723.95 | 4,624.17 | 4,543.96 | 80.21 | 57.652 | | |
| 10,200.00 | 6,939.89 | 6,857.34 | 6,894.42 | 97.23 | 29.34 | 88.90 | -213.05 | -7,723.96 | 4,529.86 | 4,448.56 | 81.30 | 55.718 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STATE-HOPPE 16-3(PR_150CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-GYRO-NS | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,858.34 | 6,895.43 | 99.91 | 29.34 | 88.94 | -213.06 | -7,723.98 | 4,435.80 | 4,353.35 | 82.46 | 53.794 | | |
| 10,400.00 | 6,939.13 | 6,859.35 | 6,896.44 | 102.60 | 29.35 | 88.97 | -213.07 | -7,723.99 | 4,342.01 | 4,258.32 | 83.69 | 51.881 | | |
| 10,500.00 | 6,938.75 | 6,860.36 | 6,897.45 | 105.30 | 29.35 | 89.01 | -213.08 | -7,724.01 | 4,248.50 | 4,163.50 | 85.00 | 49.982 | | |
| 10,600.00 | 6,938.37 | 6,861.38 | 6,898.46 | 108.00 | 29.35 | 89.05 | -213.09 | -7,724.02 | 4,155.29 | 4,068.90 | 86.39 | 48.099 | | |
| 10,700.00 | 6,937.99 | 6,862.39 | 6,899.48 | 110.72 | 29.36 | 89.09 | -213.11 | -7,724.04 | 4,062.40 | 3,974.54 | 87.87 | 46.235 | | |
| 10,800.00 | 6,937.61 | 6,863.41 | 6,900.50 | 113.44 | 29.36 | 89.13 | -213.12 | -7,724.05 | 3,969.86 | 3,880.43 | 89.43 | 44.390 | | |
| 10,900.00 | 6,937.23 | 6,864.43 | 6,901.52 | 116.17 | 29.37 | 89.16 | -213.13 | -7,724.07 | 3,877.69 | 3,786.60 | 91.09 | 42.568 | | |
| 11,000.00 | 6,936.85 | 6,865.46 | 6,902.54 | 118.90 | 29.37 | 89.20 | -213.14 | -7,724.08 | 3,785.92 | 3,693.06 | 92.86 | 40.771 | | |
| 11,100.00 | 6,936.47 | 6,866.48 | 6,903.57 | 121.64 | 29.38 | 89.24 | -213.16 | -7,724.10 | 3,694.57 | 3,599.84 | 94.73 | 39.001 | | |
| 11,200.00 | 6,936.09 | 6,867.51 | 6,904.60 | 124.39 | 29.38 | 89.28 | -213.17 | -7,724.11 | 3,603.68 | 3,506.97 | 96.72 | 37.259 | | |
| 11,300.00 | 6,935.71 | 6,868.55 | 6,905.63 | 127.14 | 29.38 | 89.32 | -213.18 | -7,724.13 | 3,513.29 | 3,414.46 | 98.83 | 35.550 | | |
| 11,400.00 | 6,935.34 | 6,869.58 | 6,906.67 | 129.90 | 29.39 | 89.36 | -213.19 | -7,724.14 | 3,423.43 | 3,322.37 | 101.07 | 33.873 | | |
| 11,500.00 | 6,934.96 | 6,870.62 | 6,907.70 | 132.66 | 29.39 | 89.40 | -213.21 | -7,724.16 | 3,334.15 | 3,230.71 | 103.44 | 32.232 | | |
| 11,600.00 | 6,934.58 | 6,871.66 | 6,908.74 | 135.42 | 29.40 | 89.44 | -213.22 | -7,724.18 | 3,245.49 | 3,139.53 | 105.96 | 30.628 | | |
| 11,700.00 | 6,934.20 | 6,872.70 | 6,909.79 | 138.19 | 29.40 | 89.48 | -213.23 | -7,724.19 | 3,157.51 | 3,048.87 | 108.64 | 29.064 | | |
| 11,800.00 | 6,933.82 | 6,873.75 | 6,910.83 | 140.96 | 29.41 | 89.52 | -213.24 | -7,724.21 | 3,070.27 | 2,958.79 | 111.48 | 27.541 | | |
| 11,900.00 | 6,933.44 | 6,874.80 | 6,911.88 | 143.74 | 29.41 | 89.55 | -213.25 | -7,724.22 | 2,983.83 | 2,869.33 | 114.49 | 26.061 | | |
| 12,000.00 | 6,933.06 | 6,875.85 | 6,912.93 | 146.51 | 29.42 | 89.59 | -213.27 | -7,724.24 | 2,898.25 | 2,780.56 | 117.69 | 24.626 | | |
| 12,100.00 | 6,932.68 | 6,876.90 | 6,913.99 | 149.30 | 29.42 | 89.63 | -213.28 | -7,724.26 | 2,813.63 | 2,692.55 | 121.09 | 23.237 | | |
| 12,200.00 | 6,932.30 | 6,877.96 | 6,915.04 | 152.08 | 29.42 | 89.67 | -213.29 | -7,724.27 | 2,730.05 | 2,605.37 | 124.68 | 21.896 | | |
| 12,300.00 | 6,931.92 | 6,879.02 | 6,916.10 | 154.87 | 29.43 | 89.71 | -213.30 | -7,724.29 | 2,647.61 | 2,519.11 | 128.50 | 20.604 | | |
| 12,400.00 | 6,931.54 | 6,880.08 | 6,917.17 | 157.66 | 29.43 | 89.75 | -213.32 | -7,724.30 | 2,566.41 | 2,433.87 | 132.54 | 19.363 | | |
| 12,500.00 | 6,931.16 | 6,881.15 | 6,918.23 | 160.45 | 29.44 | 89.79 | -213.33 | -7,724.32 | 2,486.59 | 2,349.77 | 136.82 | 18.174 | | |
| 12,600.00 | 6,930.78 | 6,882.22 | 6,919.30 | 163.24 | 29.44 | 89.83 | -213.34 | -7,724.34 | 2,408.27 | 2,266.93 | 141.34 | 17.038 | | |
| 12,700.00 | 6,930.40 | 6,883.29 | 6,920.37 | 166.04 | 29.45 | 89.87 | -213.35 | -7,724.35 | 2,331.61 | 2,185.49 | 146.12 | 15.957 | | |
| 12,800.00 | 6,930.03 | 6,884.37 | 6,921.45 | 168.84 | 29.45 | 89.92 | -213.37 | -7,724.37 | 2,256.78 | 2,105.62 | 151.16 | 14.930 | | |
| 12,900.00 | 6,929.65 | 6,885.44 | 6,922.52 | 171.64 | 29.46 | 89.96 | -213.38 | -7,724.39 | 2,183.96 | 2,027.50 | 156.46 | 13.959 | | |
| 13,000.00 | 6,929.27 | 6,886.52 | 6,923.60 | 174.44 | 29.46 | 90.00 | -213.39 | -7,724.40 | 2,113.37 | 1,951.35 | 162.02 | 13.044 | | |
| 13,100.00 | 6,928.89 | 6,887.61 | 6,924.69 | 177.24 | 29.47 | 90.04 | -213.40 | -7,724.42 | 2,045.23 | 1,877.40 | 167.83 | 12.186 | | |
| 13,200.00 | 6,928.51 | 6,888.69 | 6,925.77 | 180.05 | 29.47 | 90.08 | -213.41 | -7,724.44 | 1,979.79 | 1,805.92 | 173.88 | 11.386 | | |
| 13,300.00 | 6,928.13 | 6,889.78 | 6,926.86 | 182.86 | 29.47 | 90.12 | -213.43 | -7,724.45 | 1,917.34 | 1,737.21 | 180.14 | 10.644 | | |
| 13,400.00 | 6,927.75 | 6,890.87 | 6,927.95 | 185.67 | 29.48 | 90.16 | -213.44 | -7,724.47 | 1,858.18 | 1,671.60 | 186.58 | 9.959 | | |
| 13,500.00 | 6,927.37 | 6,891.97 | 6,929.05 | 188.48 | 29.48 | 90.20 | -213.45 | -7,724.49 | 1,802.62 | 1,609.48 | 193.15 | 9.333 | | |
| 13,600.00 | 6,926.99 | 6,893.07 | 6,930.15 | 191.29 | 29.49 | 90.24 | -213.46 | -7,724.50 | 1,751.02 | 1,551.24 | 199.78 | 8.765 | | |
| 13,700.00 | 6,926.61 | 6,894.17 | 6,931.25 | 194.10 | 29.49 | 90.28 | -213.47 | -7,724.52 | 1,703.73 | 1,497.32 | 206.41 | 8.254 | | |
| 13,800.00 | 6,926.23 | 6,895.27 | 6,932.35 | 196.92 | 29.50 | 90.33 | -213.49 | -7,724.54 | 1,661.11 | 1,448.18 | 212.93 | 7.801 | | |
| 13,900.00 | 6,925.85 | 6,896.38 | 6,933.46 | 199.73 | 29.50 | 90.37 | -213.50 | -7,724.56 | 1,623.55 | 1,404.31 | 219.24 | 7.405 | | |
| 14,000.00 | 6,925.47 | 6,897.49 | 6,934.57 | 202.55 | 29.51 | 90.41 | -213.51 | -7,724.57 | 1,591.39 | 1,366.17 | 225.21 | 7.066 | | |
| 14,100.00 | 6,925.09 | 6,898.60 | 6,935.68 | 205.37 | 29.51 | 90.45 | -213.52 | -7,724.59 | 1,564.97 | 1,334.24 | 230.73 | 6.783 | | |
| 14,200.00 | 6,924.71 | 6,899.72 | 6,936.80 | 208.19 | 29.52 | 90.49 | -213.53 | -7,724.61 | 1,544.58 | 1,308.92 | 235.66 | 6.554 | | |
| 14,300.00 | 6,924.34 | 6,900.84 | 6,937.91 | 211.01 | 29.52 | 90.54 | -213.55 | -7,724.62 | 1,530.47 | 1,290.57 | 239.89 | 6.380 | | |
| 14,400.00 | 6,923.96 | 6,901.97 | 6,939.04 | 213.83 | 29.53 | 90.58 | -213.56 | -7,724.64 | 1,522.80 | 1,279.47 | 243.33 | 6.258 | | |
| 14,467.03 | 6,923.70 | 6,902.73 | 6,939.81 | 215.72 | 29.53 | 90.61 | -213.57 | -7,724.65 | 1,521.33 | 1,276.18 | 245.15 | 6.206 CC | | |
| 14,500.00 | 6,923.58 | 6,903.11 | 6,940.19 | 216.65 | 29.53 | 90.62 | -213.57 | -7,724.66 | 1,521.68 | 1,275.79 | 245.90 | 6.188 ES | | |
| 14,600.00 | 6,923.20 | 6,904.27 | 6,941.35 | 219.48 | 29.54 | 90.66 | -213.58 | -7,724.68 | 1,527.12 | 1,279.56 | 247.56 | 6.169 SF | | |
| 14,700.00 | 6,922.82 | 6,905.45 | 6,942.52 | 222.30 | 29.54 | 90.71 | -213.60 | -7,724.70 | 1,539.06 | 1,290.74 | 248.32 | 6.198 | | |
| 14,800.00 | 6,922.44 | 6,906.64 | 6,943.72 | 225.13 | 29.55 | 90.75 | -213.61 | -7,724.72 | 1,557.33 | 1,309.14 | 248.20 | 6.275 | | |
| 14,900.00 | 6,922.06 | 6,907.84 | 6,944.92 | 227.95 | 29.55 | 90.80 | -213.62 | -7,724.74 | 1,581.73 | 1,334.47 | 247.26 | 6.397 | | |
| 14,915.55 | 6,922.00 | 6,908.03 | 6,945.11 | 228.39 | 29.55 | 90.81 | -213.62 | -7,724.74 | 1,586.06 | 1,339.01 | 247.05 | 6.420 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 61.00 | 3.28 | 3.28 | -110.38 | -1,325.08 | -3,566.23 | 3,804.94 | | | | | |
| 100.00 | 100.00 | 39.00 | 100.00 | 3.28 | 3.35 | -110.38 | -1,325.08 | -3,566.23 | 3,804.45 | 3,797.81 | 6.63 | 573.424 | | |
| 200.00 | 200.00 | 139.00 | 200.00 | 3.34 | 4.52 | -110.38 | -1,325.08 | -3,566.23 | 3,804.45 | 3,796.59 | 7.85 | 484.337 | | |
| 300.00 | 299.98 | 238.98 | 299.98 | 3.44 | 7.37 | 64.27 | -1,325.08 | -3,566.23 | 3,803.69 | 3,792.88 | 10.81 | 351.962 | | |
| 400.00 | 399.84 | 338.84 | 399.84 | 3.59 | 10.60 | 64.38 | -1,325.08 | -3,566.23 | 3,801.42 | 3,787.23 | 14.19 | 267.849 | | |
| 500.00 | 499.45 | 438.45 | 499.45 | 3.79 | 13.95 | 64.57 | -1,325.08 | -3,566.23 | 3,797.65 | 3,779.91 | 17.74 | 214.083 | | |
| 600.00 | 598.70 | 537.70 | 598.70 | 4.03 | 17.34 | 64.83 | -1,325.08 | -3,566.23 | 3,792.41 | 3,771.04 | 21.37 | 177.476 | | |
| 700.00 | 697.47 | 636.47 | 697.47 | 4.31 | 20.73 | 65.16 | -1,325.08 | -3,566.23 | 3,785.73 | 3,760.69 | 25.05 | 151.140 | | |
| 800.00 | 795.62 | 734.62 | 795.62 | 4.64 | 24.12 | 65.57 | -1,325.08 | -3,566.23 | 3,777.66 | 3,748.90 | 28.76 | 131.358 | | |
| 900.00 | 893.06 | 832.06 | 893.06 | 5.00 | 27.50 | 66.05 | -1,325.08 | -3,566.23 | 3,768.24 | 3,735.75 | 32.49 | 115.986 | | |
| 1,000.00 | 989.78 | 928.78 | 989.78 | 5.39 | 30.85 | 66.48 | -1,325.08 | -3,566.23 | 3,757.75 | 3,721.52 | 36.23 | 103.715 | | |
| 1,100.00 | 1,086.42 | 1,025.42 | 1,086.42 | 5.81 | 34.21 | 66.83 | -1,325.08 | -3,566.23 | 3,747.26 | 3,707.26 | 40.00 | 93.684 | | |
| 1,200.00 | 1,183.06 | 1,122.06 | 1,183.06 | 6.25 | 37.57 | 67.18 | -1,325.08 | -3,566.23 | 3,736.92 | 3,693.13 | 43.79 | 85.341 | | |
| 1,300.00 | 1,279.69 | 1,218.69 | 1,279.69 | 6.71 | 40.93 | 67.53 | -1,325.08 | -3,566.23 | 3,726.73 | 3,679.14 | 47.60 | 78.301 | | |
| 1,400.00 | 1,376.33 | 1,315.33 | 1,376.33 | 7.17 | 44.29 | 67.89 | -1,325.08 | -3,566.23 | 3,716.69 | 3,665.28 | 51.42 | 72.286 | | |
| 1,500.00 | 1,472.97 | 1,411.97 | 1,472.97 | 7.65 | 47.66 | 68.25 | -1,325.08 | -3,566.23 | 3,706.80 | 3,651.55 | 55.25 | 67.092 | | |
| 1,600.00 | 1,569.61 | 1,508.61 | 1,569.61 | 8.13 | 51.03 | 68.61 | -1,325.08 | -3,566.23 | 3,697.07 | 3,637.97 | 59.09 | 62.564 | | |
| 1,700.00 | 1,666.24 | 1,605.24 | 1,666.24 | 8.62 | 54.39 | 68.97 | -1,325.08 | -3,566.23 | 3,687.48 | 3,624.54 | 62.94 | 58.583 | | |
| 1,800.00 | 1,762.88 | 1,701.88 | 1,762.88 | 9.12 | 57.76 | 69.33 | -1,325.08 | -3,566.23 | 3,678.05 | 3,611.25 | 66.80 | 55.058 | | |
| 1,900.00 | 1,859.52 | 1,801.48 | 1,859.52 | 9.62 | 61.23 | 69.70 | -1,325.08 | -3,566.23 | 3,668.78 | 3,598.01 | 70.77 | 51.841 | | |
| 2,000.00 | 1,956.16 | 1,904.84 | 1,956.16 | 10.13 | 64.84 | 70.06 | -1,325.08 | -3,566.23 | 3,659.67 | 3,584.79 | 74.87 | 48.877 | | |
| 2,100.00 | 2,052.79 | 2,008.21 | 2,052.79 | 10.64 | 68.44 | 70.43 | -1,325.08 | -3,566.23 | 3,650.71 | 3,571.73 | 78.98 | 46.221 | | |
| 2,200.00 | 2,149.43 | 2,088.43 | 2,149.43 | 11.15 | 71.24 | 70.80 | -1,325.08 | -3,566.23 | 3,641.91 | 3,559.62 | 82.29 | 44.257 | | |
| 2,300.00 | 2,246.07 | 2,185.07 | 2,246.07 | 11.66 | 74.61 | 71.17 | -1,325.08 | -3,566.23 | 3,633.27 | 3,547.10 | 86.17 | 42.163 | | |
| 2,400.00 | 2,342.71 | 2,281.71 | 2,342.71 | 12.18 | 77.98 | 71.54 | -1,325.08 | -3,566.23 | 3,624.80 | 3,534.74 | 90.06 | 40.251 | | |
| 2,500.00 | 2,439.34 | 2,378.34 | 2,439.34 | 12.70 | 81.35 | 71.92 | -1,325.08 | -3,566.23 | 3,616.49 | 3,522.54 | 93.94 | 38.496 | | |
| 2,600.00 | 2,535.98 | 2,474.98 | 2,535.98 | 13.22 | 84.72 | 72.30 | -1,325.08 | -3,566.23 | 3,608.34 | 3,510.51 | 97.83 | 36.882 | | |
| 2,700.00 | 2,632.62 | 2,571.62 | 2,632.62 | 13.75 | 88.09 | 72.67 | -1,325.08 | -3,566.23 | 3,600.36 | 3,498.63 | 101.73 | 35.393 | | |
| 2,800.00 | 2,729.26 | 2,668.26 | 2,729.26 | 14.27 | 91.46 | 73.05 | -1,325.08 | -3,566.23 | 3,592.54 | 3,486.92 | 105.62 | 34.014 | | |
| 2,900.00 | 2,825.89 | 2,764.89 | 2,825.89 | 14.80 | 94.83 | 73.43 | -1,325.08 | -3,566.23 | 3,584.89 | 3,475.37 | 109.52 | 32.734 | | |
| 3,000.00 | 2,922.53 | 2,861.53 | 2,922.53 | 15.32 | 98.21 | 73.82 | -1,325.08 | -3,566.23 | 3,577.41 | 3,464.00 | 113.41 | 31.543 | | |
| 3,100.00 | 3,019.17 | 2,958.17 | 3,019.17 | 15.85 | 101.58 | 74.20 | -1,325.08 | -3,566.23 | 3,570.10 | 3,452.79 | 117.31 | 30.432 | | |
| 3,200.00 | 3,115.81 | 3,054.81 | 3,115.81 | 16.38 | 104.95 | 74.59 | -1,325.08 | -3,566.23 | 3,562.96 | 3,441.74 | 121.21 | 29.394 | | |
| 3,300.00 | 3,212.44 | 3,151.44 | 3,212.44 | 16.91 | 108.32 | 74.97 | -1,325.08 | -3,566.23 | 3,555.99 | 3,430.87 | 125.12 | 28.421 | | |
| 3,400.00 | 3,309.08 | 3,248.08 | 3,309.08 | 17.44 | 111.69 | 75.36 | -1,325.08 | -3,566.23 | 3,549.19 | 3,420.17 | 129.02 | 27.509 | | |
| 3,500.00 | 3,405.72 | 3,344.72 | 3,405.72 | 17.97 | 115.07 | 75.75 | -1,325.08 | -3,566.23 | 3,542.57 | 3,409.65 | 132.93 | 26.651 | | |
| 3,600.00 | 3,502.36 | 3,441.36 | 3,502.36 | 18.50 | 118.44 | 76.14 | -1,325.08 | -3,566.23 | 3,536.12 | 3,399.29 | 136.83 | 25.843 | | |
| 3,700.00 | 3,598.99 | 3,537.99 | 3,598.99 | 19.03 | 121.81 | 76.53 | -1,325.08 | -3,566.23 | 3,529.85 | 3,389.11 | 140.74 | 25.081 | | |
| 3,800.00 | 3,695.63 | 3,634.63 | 3,695.63 | 19.57 | 125.18 | 76.93 | -1,325.08 | -3,566.23 | 3,523.76 | 3,379.11 | 144.64 | 24.361 | | |
| 3,900.00 | 3,792.27 | 3,731.27 | 3,792.27 | 20.10 | 128.56 | 77.32 | -1,325.08 | -3,566.23 | 3,517.84 | 3,369.28 | 148.55 | 23.681 | | |
| 4,000.00 | 3,888.91 | 3,827.91 | 3,888.91 | 20.63 | 131.93 | 77.72 | -1,325.08 | -3,566.23 | 3,512.10 | 3,359.63 | 152.46 | 23.036 | | |
| 4,100.00 | 3,985.54 | 3,924.54 | 3,985.54 | 21.17 | 135.30 | 78.12 | -1,325.08 | -3,566.23 | 3,506.54 | 3,350.16 | 156.37 | 22.424 | | |
| 4,200.00 | 4,082.18 | 4,021.18 | 4,082.18 | 21.70 | 138.67 | 78.51 | -1,325.08 | -3,566.23 | 3,501.15 | 3,340.87 | 160.28 | 21.844 | | |
| 4,300.00 | 4,178.82 | 4,117.82 | 4,178.82 | 22.24 | 142.05 | 78.91 | -1,325.08 | -3,566.23 | 3,495.95 | 3,331.76 | 164.19 | 21.292 | | |
| 4,400.00 | 4,275.46 | 4,214.46 | 4,275.46 | 22.77 | 145.42 | 79.32 | -1,325.08 | -3,566.23 | 3,490.94 | 3,322.83 | 168.10 | 20.766 | | |
| 4,500.00 | 4,372.09 | 4,311.09 | 4,372.09 | 23.31 | 148.79 | 79.72 | -1,325.08 | -3,566.23 | 3,486.10 | 3,314.08 | 172.02 | 20.266 | | |
| 4,600.00 | 4,468.73 | 4,407.73 | 4,468.73 | 23.84 | 152.16 | 80.12 | -1,325.08 | -3,566.23 | 3,481.45 | 3,305.52 | 175.93 | 19.789 | | |
| 4,700.00 | 4,565.37 | 4,504.37 | 4,565.37 | 24.38 | 155.54 | 80.52 | -1,325.08 | -3,566.23 | 3,476.98 | 3,297.14 | 179.84 | 19.333 | | |
| 4,800.00 | 4,662.01 | 4,601.01 | 4,662.01 | 24.91 | 158.91 | 80.93 | -1,325.08 | -3,566.23 | 3,472.69 | 3,288.94 | 183.76 | 18.898 | | |
| 4,900.00 | 4,758.64 | 4,702.36 | 4,758.64 | 25.45 | 162.45 | 81.33 | -1,325.08 | -3,566.23 | 3,468.59 | 3,280.76 | 187.83 | 18.466 | | |
| 5,000.00 | 4,855.28 | 4,805.72 | 4,855.28 | 25.99 | 166.05 | 81.74 | -1,325.08 | -3,566.23 | 3,464.68 | 3,272.70 | 191.98 | 18.047 | | |
| 5,100.00 | 4,951.92 | 4,909.08 | 4,951.92 | 26.53 | 169.66 | 82.15 | -1,325.08 | -3,566.23 | 3,460.96 | 3,264.82 | 196.13 | 17.646 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STOCKOVER 16-1(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.00 | 5,048.56 | 4,987.56 | 5,048.56 | 27.06 | 172.40 | 82.56 | -1,325.08 | -3,566.23 | 3,457.42 | 3,258.00 | 199.41 | 17.338 | | |
| 5,300.00 | 5,145.19 | 5,084.19 | 5,145.19 | 27.60 | 175.77 | 82.96 | -1,325.08 | -3,566.23 | 3,454.07 | 3,250.74 | 203.33 | 16.988 | | |
| 5,400.00 | 5,241.83 | 5,180.83 | 5,241.83 | 28.14 | 179.15 | 83.37 | -1,325.08 | -3,566.23 | 3,450.90 | 3,243.66 | 207.24 | 16.652 | | |
| 5,500.00 | 5,338.47 | 5,277.47 | 5,338.47 | 28.67 | 182.52 | 83.78 | -1,325.08 | -3,566.23 | 3,447.93 | 3,236.77 | 211.16 | 16.329 | | |
| 5,600.00 | 5,435.11 | 5,374.11 | 5,435.11 | 29.21 | 185.89 | 84.20 | -1,325.08 | -3,566.23 | 3,445.14 | 3,230.07 | 215.07 | 16.019 | | |
| 5,700.00 | 5,531.74 | 5,470.74 | 5,531.74 | 29.75 | 189.27 | 84.61 | -1,325.08 | -3,566.23 | 3,442.55 | 3,223.56 | 218.99 | 15.720 | | |
| 5,800.00 | 5,628.38 | 5,567.38 | 5,628.38 | 30.29 | 192.64 | 85.02 | -1,325.08 | -3,566.23 | 3,440.14 | 3,217.24 | 222.90 | 15.433 | | |
| 5,900.00 | 5,725.02 | 5,664.02 | 5,725.02 | 30.83 | 196.01 | 85.43 | -1,325.08 | -3,566.23 | 3,437.93 | 3,211.11 | 226.82 | 15.157 | | |
| 6,000.00 | 5,821.66 | 5,760.66 | 5,821.66 | 31.37 | 199.39 | 85.85 | -1,325.08 | -3,566.23 | 3,435.91 | 3,205.18 | 230.73 | 14.891 | | |
| 6,100.00 | 5,918.29 | 5,857.29 | 5,918.29 | 31.90 | 202.76 | 86.26 | -1,325.08 | -3,566.23 | 3,434.08 | 3,199.43 | 234.65 | 14.635 | | |
| 6,200.00 | 6,014.93 | 5,953.93 | 6,014.93 | 32.44 | 206.13 | 86.67 | -1,325.08 | -3,566.23 | 3,432.44 | 3,193.87 | 238.56 | 14.388 | | |
| 6,300.00 | 6,111.57 | 6,050.57 | 6,111.57 | 32.98 | 209.51 | 87.09 | -1,325.08 | -3,566.23 | 3,430.99 | 3,188.51 | 242.48 | 14.150 | | |
| 6,400.00 | 6,208.21 | 6,147.21 | 6,208.21 | 33.52 | 212.88 | 87.50 | -1,325.08 | -3,566.23 | 3,429.73 | 3,183.34 | 246.39 | 13.920 | | |
| 6,500.00 | 6,304.84 | 6,243.84 | 6,304.84 | 34.06 | 216.25 | 87.92 | -1,325.08 | -3,566.23 | 3,428.67 | 3,178.36 | 250.30 | 13.698 | | |
| 6,600.00 | 6,401.37 | 6,340.37 | 6,401.37 | 34.60 | 219.62 | 71.65 | -1,325.08 | -3,566.23 | 3,425.62 | 3,171.41 | 254.21 | 13.475 | | |
| 6,700.00 | 6,496.25 | 6,435.25 | 6,496.25 | 35.12 | 222.93 | 49.71 | -1,325.08 | -3,566.23 | 3,408.95 | 3,150.90 | 258.05 | 13.211 | | |
| 6,800.00 | 6,587.15 | 6,526.15 | 6,587.15 | 35.59 | 226.11 | 38.02 | -1,325.08 | -3,566.23 | 3,377.32 | 3,115.63 | 261.70 | 12.906 | | |
| 6,900.00 | 6,671.83 | 6,610.83 | 6,671.83 | 36.03 | 229.06 | 31.93 | -1,325.08 | -3,566.23 | 3,331.53 | 3,066.44 | 265.08 | 12.568 | | |
| 7,000.00 | 6,748.21 | 6,687.21 | 6,748.21 | 36.41 | 231.73 | 28.96 | -1,325.08 | -3,566.23 | 3,272.67 | 3,004.55 | 268.13 | 12.206 | | |
| 7,100.00 | 6,814.41 | 6,753.41 | 6,814.41 | 36.76 | 234.04 | 28.11 | -1,325.08 | -3,566.23 | 3,202.20 | 2,931.44 | 270.77 | 11.826 | | |
| 7,200.00 | 6,868.79 | 6,807.79 | 6,868.79 | 37.07 | 235.94 | 29.28 | -1,325.08 | -3,566.23 | 3,121.82 | 2,848.87 | 272.95 | 11.437 | | |
| 7,300.00 | 6,910.01 | 6,849.01 | 6,910.01 | 37.39 | 237.38 | 33.29 | -1,325.08 | -3,566.23 | 3,033.46 | 2,758.84 | 274.62 | 11.046 | | |
| 7,400.00 | 6,937.07 | 6,876.07 | 6,937.07 | 37.76 | 238.32 | 43.40 | -1,325.08 | -3,566.23 | 2,939.26 | 2,663.51 | 275.75 | 10.659 | | |
| 7,500.00 | 6,949.29 | 6,888.29 | 6,949.29 | 38.27 | 238.75 | 72.73 | -1,325.08 | -3,566.23 | 2,841.48 | 2,565.17 | 276.31 | 10.284 | | |
| 7,600.00 | 6,949.75 | 6,888.75 | 6,949.75 | 39.02 | 238.76 | 91.53 | -1,325.08 | -3,566.23 | 2,742.48 | 2,466.04 | 276.44 | 9.921 | | |
| 7,700.00 | 6,949.37 | 6,888.37 | 6,949.37 | 40.05 | 238.75 | 91.48 | -1,325.08 | -3,566.23 | 2,643.51 | 2,366.96 | 276.55 | 9.559 | | |
| 7,800.00 | 6,948.99 | 6,887.99 | 6,948.99 | 41.35 | 238.74 | 91.42 | -1,325.08 | -3,566.23 | 2,544.62 | 2,267.94 | 276.68 | 9.197 | | |
| 7,900.00 | 6,948.61 | 6,887.61 | 6,948.61 | 42.86 | 238.72 | 91.36 | -1,325.08 | -3,566.23 | 2,445.82 | 2,168.99 | 276.83 | 8.835 | | |
| 8,000.00 | 6,948.23 | 6,887.23 | 6,948.23 | 44.53 | 238.71 | 91.31 | -1,325.08 | -3,566.23 | 2,347.11 | 2,070.12 | 276.99 | 8.474 | | |
| 8,100.00 | 6,947.85 | 6,886.85 | 6,947.85 | 46.34 | 238.70 | 91.25 | -1,325.08 | -3,566.23 | 2,248.53 | 1,971.34 | 277.19 | 8.112 | | |
| 8,200.00 | 6,947.47 | 6,886.47 | 6,947.47 | 48.26 | 238.68 | 91.19 | -1,325.08 | -3,566.23 | 2,150.07 | 1,872.66 | 277.41 | 7.750 | | |
| 8,300.00 | 6,947.09 | 6,886.09 | 6,947.09 | 50.28 | 238.67 | 91.14 | -1,325.08 | -3,566.23 | 2,051.77 | 1,774.09 | 277.68 | 7.389 | | |
| 8,400.00 | 6,946.72 | 6,885.72 | 6,946.72 | 52.39 | 238.66 | 91.08 | -1,325.08 | -3,566.23 | 1,953.63 | 1,675.65 | 277.98 | 7.028 | | |
| 8,500.00 | 6,946.34 | 6,885.34 | 6,946.34 | 54.56 | 238.64 | 91.03 | -1,325.08 | -3,566.23 | 1,855.70 | 1,577.36 | 278.34 | 6.667 | | |
| 8,600.00 | 6,945.96 | 6,884.96 | 6,945.96 | 56.80 | 238.63 | 90.97 | -1,325.08 | -3,566.23 | 1,757.99 | 1,479.23 | 278.76 | 6.306 | | |
| 8,700.00 | 6,945.58 | 6,884.58 | 6,945.58 | 59.10 | 238.62 | 90.91 | -1,325.08 | -3,566.23 | 1,660.56 | 1,381.31 | 279.26 | 5.946 | | |
| 8,800.00 | 6,945.20 | 6,884.20 | 6,945.20 | 61.44 | 238.60 | 90.86 | -1,325.08 | -3,566.23 | 1,563.46 | 1,283.61 | 279.85 | 5.587 | | |
| 8,900.00 | 6,944.82 | 6,883.82 | 6,944.82 | 63.83 | 238.59 | 90.80 | -1,325.08 | -3,566.23 | 1,466.74 | 1,186.18 | 280.57 | 5.228 | | |
| 9,000.00 | 6,944.44 | 6,883.44 | 6,944.44 | 66.25 | 238.58 | 90.74 | -1,325.08 | -3,566.23 | 1,370.50 | 1,089.07 | 281.43 | 4.870 | | |
| 9,100.00 | 6,944.06 | 6,883.06 | 6,944.06 | 68.71 | 238.57 | 90.69 | -1,325.08 | -3,566.23 | 1,274.83 | 992.36 | 282.48 | 4.513 | | |
| 9,200.00 | 6,943.68 | 6,882.68 | 6,943.68 | 71.20 | 238.55 | 90.63 | -1,325.08 | -3,566.23 | 1,179.89 | 896.12 | 283.77 | 4.158 | | |
| 9,300.00 | 6,943.30 | 6,882.30 | 6,943.30 | 73.72 | 238.54 | 90.57 | -1,325.08 | -3,566.23 | 1,085.85 | 800.48 | 285.36 | 3.805 | | |
| 9,400.00 | 6,942.92 | 6,881.92 | 6,942.92 | 76.26 | 238.53 | 90.52 | -1,325.08 | -3,566.23 | 992.97 | 705.61 | 287.36 | 3.455 | | |
| 9,500.00 | 6,942.54 | 6,881.54 | 6,942.54 | 78.82 | 238.51 | 90.46 | -1,325.08 | -3,566.23 | 901.62 | 611.74 | 289.88 | 3.110 | | |
| 9,600.00 | 6,942.16 | 6,881.16 | 6,942.16 | 81.40 | 238.50 | 90.40 | -1,325.08 | -3,566.23 | 812.31 | 519.24 | 293.08 | 2.772 | | |
| 9,700.00 | 6,941.78 | 6,880.78 | 6,941.78 | 84.00 | 238.49 | 90.35 | -1,325.08 | -3,566.23 | 725.80 | 428.64 | 297.16 | 2.442 | | |
| 9,800.00 | 6,941.40 | 6,880.40 | 6,941.40 | 86.62 | 238.47 | 90.29 | -1,325.08 | -3,566.23 | 643.20 | 340.84 | 302.36 | 2.127 | | |
| 9,900.00 | 6,941.03 | 6,880.03 | 6,941.03 | 89.25 | 238.46 | 90.23 | -1,325.08 | -3,566.23 | 566.25 | 257.34 | 308.91 | 1.833 | | |
| 10,000.00 | 6,940.65 | 6,879.65 | 6,940.65 | 91.90 | 238.45 | 90.18 | -1,325.08 | -3,566.23 | 497.56 | 180.71 | 316.85 | 1.570 | | |
| 10,100.00 | 6,940.27 | 6,879.27 | 6,940.27 | 94.56 | 238.43 | 90.12 | -1,325.08 | -3,566.23 | 441.01 | 115.36 | 325.66 | 1.354 | Level 3 | |
| 10,200.00 | 6,939.89 | 6,878.89 | 6,939.89 | 97.23 | 238.42 | 90.07 | -1,325.08 | -3,566.23 | 401.77 | 68.07 | 333.70 | 1.204 | Level 2 | |
| 10,300.00 | 6,939.51 | 6,878.51 | 6,939.51 | 99.91 | 238.41 | 90.01 | -1,325.08 | -3,566.23 | 385.16 | 46.89 | 338.27 | 1.139 | Level 2 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - STOCKOVER 16-1(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,315.36 | 6,939.45 | 6,878.45 | 6,939.45 | 100.32 | 238.40 | 90.00 | -1,325.08 | -3,566.23 | 384.85 | 46.35 | 338.50 | 1.137 | Level 2, CC, ES, SF | |
| 10,400.00 | 6,939.13 | 6,878.13 | 6,939.13 | 102.60 | 238.39 | 89.95 | -1,325.08 | -3,566.23 | 394.05 | 56.67 | 337.38 | 1.168 | Level 2 | |
| 10,500.00 | 6,938.75 | 6,877.75 | 6,938.75 | 105.30 | 238.38 | 89.90 | -1,325.08 | -3,566.23 | 426.85 | 95.01 | 331.85 | 1.286 | Level 3 | |
| 10,600.00 | 6,938.37 | 6,877.37 | 6,938.37 | 108.00 | 238.37 | 89.84 | -1,325.08 | -3,566.23 | 478.67 | 154.42 | 324.26 | 1.476 | Level 3 | |
| 10,700.00 | 6,937.99 | 6,876.99 | 6,937.99 | 110.72 | 238.35 | 89.78 | -1,325.08 | -3,566.23 | 544.11 | 227.40 | 316.71 | 1.718 | | |
| 10,800.00 | 6,937.61 | 6,876.61 | 6,937.61 | 113.44 | 238.34 | 89.73 | -1,325.08 | -3,566.23 | 618.85 | 308.73 | 310.13 | 1.995 | | |
| 10,900.00 | 6,937.23 | 6,876.23 | 6,937.23 | 116.17 | 238.33 | 89.67 | -1,325.08 | -3,566.23 | 699.93 | 395.22 | 304.71 | 2.297 | | |
| 11,000.00 | 6,936.85 | 6,875.85 | 6,936.85 | 118.90 | 238.31 | 89.61 | -1,325.08 | -3,566.23 | 785.39 | 485.05 | 300.34 | 2.615 | | |
| 11,100.00 | 6,936.47 | 6,875.47 | 6,936.47 | 121.64 | 238.30 | 89.56 | -1,325.08 | -3,566.23 | 873.93 | 577.10 | 296.83 | 2.944 | | |
| 11,200.00 | 6,936.09 | 6,875.09 | 6,936.09 | 124.39 | 238.29 | 89.50 | -1,325.08 | -3,566.23 | 964.72 | 670.71 | 294.01 | 3.281 | | |
| 11,300.00 | 6,935.71 | 6,874.71 | 6,935.71 | 127.14 | 238.27 | 89.44 | -1,325.08 | -3,566.23 | 1,057.17 | 765.45 | 291.72 | 3.624 | | |
| 11,400.00 | 6,935.34 | 6,874.34 | 6,935.34 | 129.90 | 238.26 | 89.39 | -1,325.08 | -3,566.23 | 1,150.88 | 861.03 | 289.85 | 3.971 | | |
| 11,500.00 | 6,934.96 | 6,873.96 | 6,934.96 | 132.66 | 238.25 | 89.33 | -1,325.08 | -3,566.23 | 1,245.57 | 957.26 | 288.31 | 4.320 | | |
| 11,600.00 | 6,934.58 | 6,873.58 | 6,934.58 | 135.42 | 238.23 | 89.27 | -1,325.08 | -3,566.23 | 1,341.04 | 1,054.00 | 287.03 | 4.672 | | |
| 11,700.00 | 6,934.20 | 6,873.20 | 6,934.20 | 138.19 | 238.22 | 89.22 | -1,325.08 | -3,566.23 | 1,437.12 | 1,151.15 | 285.96 | 5.026 | | |
| 11,800.00 | 6,933.82 | 6,872.82 | 6,933.82 | 140.96 | 238.21 | 89.16 | -1,325.08 | -3,566.23 | 1,533.70 | 1,248.64 | 285.06 | 5.380 | | |
| 11,900.00 | 6,933.44 | 6,872.44 | 6,933.44 | 143.74 | 238.19 | 89.11 | -1,325.08 | -3,566.23 | 1,630.69 | 1,346.40 | 284.29 | 5.736 | | |
| 12,000.00 | 6,933.06 | 6,872.06 | 6,933.06 | 146.51 | 238.18 | 89.05 | -1,325.08 | -3,566.23 | 1,728.02 | 1,444.40 | 283.63 | 6.093 | | |
| 12,100.00 | 6,932.68 | 6,871.68 | 6,932.68 | 149.30 | 238.17 | 88.99 | -1,325.08 | -3,566.23 | 1,825.65 | 1,542.58 | 283.06 | 6.450 | | |
| 12,200.00 | 6,932.30 | 6,871.30 | 6,932.30 | 152.08 | 238.15 | 88.94 | -1,325.08 | -3,566.23 | 1,923.52 | 1,640.94 | 282.58 | 6.807 | | |
| 12,300.00 | 6,931.92 | 6,870.92 | 6,931.92 | 154.87 | 238.14 | 88.88 | -1,325.08 | -3,566.23 | 2,021.59 | 1,739.44 | 282.15 | 7.165 | | |
| 12,400.00 | 6,931.54 | 6,870.54 | 6,931.54 | 157.66 | 238.13 | 88.82 | -1,325.08 | -3,566.23 | 2,119.85 | 1,838.07 | 281.78 | 7.523 | | |
| 12,500.00 | 6,931.16 | 6,870.16 | 6,931.16 | 160.45 | 238.11 | 88.77 | -1,325.08 | -3,566.23 | 2,218.26 | 1,936.80 | 281.46 | 7.881 | | |
| 12,600.00 | 6,930.78 | 6,869.78 | 6,930.78 | 163.24 | 238.10 | 88.71 | -1,325.08 | -3,566.23 | 2,316.81 | 2,035.63 | 281.17 | 8.240 | | |
| 12,700.00 | 6,930.40 | 6,869.40 | 6,930.40 | 166.04 | 238.09 | 88.65 | -1,325.08 | -3,566.23 | 2,415.47 | 2,134.55 | 280.92 | 8.598 | | |
| 12,800.00 | 6,930.03 | 6,869.03 | 6,930.03 | 168.84 | 238.08 | 88.60 | -1,325.08 | -3,566.23 | 2,514.25 | 2,233.54 | 280.71 | 8.957 | | |
| 12,900.00 | 6,929.65 | 6,868.65 | 6,929.65 | 171.64 | 238.06 | 88.54 | -1,325.08 | -3,566.23 | 2,613.11 | 2,332.60 | 280.51 | 9.316 | | |
| 13,000.00 | 6,929.27 | 6,868.27 | 6,929.27 | 174.44 | 238.05 | 88.48 | -1,325.08 | -3,566.23 | 2,712.06 | 2,431.72 | 280.34 | 9.674 | | |
| 13,100.00 | 6,928.89 | 6,867.89 | 6,928.89 | 177.24 | 238.04 | 88.43 | -1,325.08 | -3,566.23 | 2,811.08 | 2,530.89 | 280.19 | 10.033 | | |
| 13,200.00 | 6,928.51 | 6,867.51 | 6,928.51 | 180.05 | 238.02 | 88.37 | -1,325.08 | -3,566.23 | 2,910.17 | 2,630.12 | 280.06 | 10.391 | | |
| 13,300.00 | 6,928.13 | 6,867.13 | 6,928.13 | 182.86 | 238.01 | 88.31 | -1,325.08 | -3,566.23 | 3,009.32 | 2,729.38 | 279.94 | 10.750 | | |
| 13,400.00 | 6,927.75 | 6,866.75 | 6,927.75 | 185.67 | 238.00 | 88.26 | -1,325.08 | -3,566.23 | 3,108.53 | 2,828.69 | 279.84 | 11.108 | | |
| 13,500.00 | 6,927.37 | 6,866.37 | 6,927.37 | 188.48 | 237.98 | 88.20 | -1,325.08 | -3,566.23 | 3,207.78 | 2,928.04 | 279.75 | 11.467 | | |
| 13,600.00 | 6,926.99 | 6,865.99 | 6,926.99 | 191.29 | 237.97 | 88.15 | -1,325.08 | -3,566.23 | 3,307.08 | 3,027.41 | 279.67 | 11.825 | | |
| 13,700.00 | 6,926.61 | 6,865.61 | 6,926.61 | 194.10 | 237.96 | 88.09 | -1,325.08 | -3,566.23 | 3,406.42 | 3,126.82 | 279.60 | 12.183 | | |
| 13,800.00 | 6,926.23 | 6,865.23 | 6,926.23 | 196.92 | 237.94 | 88.03 | -1,325.08 | -3,566.23 | 3,505.80 | 3,226.26 | 279.54 | 12.541 | | |
| 13,900.00 | 6,925.85 | 6,864.85 | 6,925.85 | 199.73 | 237.93 | 87.98 | -1,325.08 | -3,566.23 | 3,605.21 | 3,325.72 | 279.49 | 12.899 | | |
| 14,000.00 | 6,925.47 | 6,864.47 | 6,925.47 | 202.55 | 237.92 | 87.92 | -1,325.08 | -3,566.23 | 3,704.65 | 3,425.21 | 279.45 | 13.257 | | |
| 14,100.00 | 6,925.09 | 6,864.09 | 6,925.09 | 205.37 | 237.90 | 87.86 | -1,325.08 | -3,566.23 | 3,804.13 | 3,524.72 | 279.41 | 13.615 | | |
| 14,200.00 | 6,924.71 | 6,863.71 | 6,924.71 | 208.19 | 237.89 | 87.81 | -1,325.08 | -3,566.23 | 3,903.63 | 3,624.24 | 279.38 | 13.972 | | |
| 14,300.00 | 6,924.34 | 6,863.34 | 6,924.34 | 211.01 | 237.88 | 87.75 | -1,325.08 | -3,566.23 | 4,003.15 | 3,723.79 | 279.36 | 14.330 | | |
| 14,400.00 | 6,923.96 | 6,862.96 | 6,923.96 | 213.83 | 237.86 | 87.69 | -1,325.08 | -3,566.23 | 4,102.70 | 3,823.36 | 279.34 | 14.687 | | |
| 14,500.00 | 6,923.58 | 6,862.58 | 6,923.58 | 216.65 | 237.85 | 87.64 | -1,325.08 | -3,566.23 | 4,202.27 | 3,922.94 | 279.33 | 15.044 | | |
| 14,600.00 | 6,923.20 | 6,862.20 | 6,923.20 | 219.48 | 237.84 | 87.58 | -1,325.08 | -3,566.23 | 4,301.85 | 4,022.54 | 279.32 | 15.401 | | |
| 14,700.00 | 6,922.82 | 6,861.82 | 6,922.82 | 222.30 | 237.82 | 87.53 | -1,325.08 | -3,566.23 | 4,401.46 | 4,122.15 | 279.32 | 15.758 | | |
| 14,800.00 | 6,922.44 | 6,861.44 | 6,922.44 | 225.13 | 237.81 | 87.47 | -1,325.08 | -3,566.23 | 4,501.09 | 4,221.77 | 279.32 | 16.115 | | |
| 14,900.00 | 6,922.06 | 6,861.06 | 6,922.06 | 227.95 | 237.80 | 87.41 | -1,325.08 | -3,566.23 | 4,600.73 | 4,321.41 | 279.32 | 16.471 | | |
| 14,915.55 | 6,922.00 | 6,861.00 | 6,922.00 | 228.39 | 237.80 | 87.40 | -1,325.08 | -3,566.23 | 4,616.22 | 4,336.90 | 279.32 | 16.527 | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I 17-07D(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 78-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 58.32 | 3.28 | 3.28 | -90.71 | -113.55 | -9,143.14 | 9,144.03 | | | | | |
| 100.00 | 100.00 | 184.82 | 209.80 | 3.28 | 3.34 | -90.70 | -112.10 | -9,141.58 | 9,142.92 | 9,136.30 | 6.62 | 1,380.724 | | |
| 200.00 | 200.00 | 289.50 | 314.47 | 3.34 | 3.45 | -90.70 | -111.59 | -9,140.24 | 9,141.64 | 9,134.85 | 6.79 | 1,346.817 | | |
| 300.00 | 299.98 | 369.73 | 394.70 | 3.44 | 3.58 | 83.96 | -111.41 | -9,139.33 | 9,140.32 | 9,133.31 | 7.01 | 1,303.148 | | |
| 400.00 | 399.84 | 465.04 | 490.00 | 3.59 | 3.76 | 84.02 | -111.18 | -9,138.37 | 9,138.76 | 9,131.41 | 7.35 | 1,243.613 | | |
| 500.00 | 499.45 | 547.95 | 572.91 | 3.79 | 3.95 | 84.10 | -110.96 | -9,137.62 | 9,136.94 | 9,129.20 | 7.74 | 1,181.173 | | |
| 600.00 | 598.70 | 624.34 | 649.30 | 4.03 | 4.15 | 84.20 | -111.08 | -9,137.09 | 9,134.99 | 9,126.82 | 8.17 | 1,117.792 | | |
| 700.00 | 697.47 | 737.18 | 762.14 | 4.31 | 4.46 | 84.35 | -111.23 | -9,136.53 | 9,132.93 | 9,124.15 | 8.77 | 1,040.953 | | |
| 800.00 | 795.62 | 845.30 | 870.25 | 4.64 | 4.80 | 84.53 | -111.09 | -9,135.70 | 9,130.27 | 9,120.84 | 9.43 | 968.104 | | |
| 900.00 | 893.06 | 926.36 | 951.30 | 5.00 | 5.06 | 84.71 | -110.96 | -9,135.10 | 9,127.34 | 9,117.29 | 10.06 | 907.644 | | |
| 1,000.00 | 989.78 | 984.00 | 1,008.95 | 5.39 | 5.26 | 84.82 | -111.01 | -9,134.78 | 9,124.44 | 9,113.79 | 10.64 | 857.245 | | |
| 1,100.00 | 1,086.42 | 984.00 | 1,008.95 | 5.81 | 5.26 | 84.82 | -111.01 | -9,134.78 | 9,122.37 | 9,111.30 | 11.06 | 824.490 | | |
| 1,200.00 | 1,183.06 | 1,045.49 | 1,070.44 | 6.25 | 5.46 | 84.92 | -111.02 | -9,135.01 | 9,120.66 | 9,108.95 | 11.71 | 779.151 | | |
| 1,300.00 | 1,279.69 | 1,112.00 | 1,136.93 | 6.71 | 5.68 | 85.03 | -110.78 | -9,136.44 | 9,120.28 | 9,107.90 | 12.38 | 736.459 | | |
| 1,362.48 | 1,340.08 | 1,112.00 | 1,136.93 | 7.00 | 5.68 | 85.03 | -110.78 | -9,136.44 | 9,120.07 | 9,107.40 | 12.67 | 719.579 | | |
| 1,400.00 | 1,376.33 | 1,112.00 | 1,136.93 | 7.17 | 5.68 | 85.03 | -110.78 | -9,136.44 | 9,120.15 | 9,107.30 | 12.85 | 709.736 | | |
| 1,500.00 | 1,472.97 | 1,112.00 | 1,136.93 | 7.65 | 5.68 | 85.03 | -110.78 | -9,136.44 | 9,121.11 | 9,107.78 | 13.33 | 684.481 | | |
| 1,600.00 | 1,569.61 | 1,112.00 | 1,136.93 | 8.13 | 5.68 | 85.03 | -110.78 | -9,136.44 | 9,123.16 | 9,109.35 | 13.81 | 660.690 | | |
| 1,700.00 | 1,666.24 | 1,173.77 | 1,198.64 | 8.62 | 5.89 | 85.13 | -110.48 | -9,138.98 | 9,125.48 | 9,110.98 | 14.50 | 629.184 | | |
| 1,800.00 | 1,762.88 | 1,241.00 | 1,265.74 | 9.12 | 6.12 | 85.24 | -110.26 | -9,143.16 | 9,129.35 | 9,114.12 | 15.23 | 599.556 | | |
| 1,900.00 | 1,859.52 | 1,241.00 | 1,265.74 | 9.62 | 6.12 | 85.24 | -110.26 | -9,143.16 | 9,133.32 | 9,117.60 | 15.72 | 580.859 | | |
| 2,000.00 | 1,956.16 | 1,241.00 | 1,265.74 | 10.13 | 6.12 | 85.24 | -110.26 | -9,143.16 | 9,138.39 | 9,122.17 | 16.22 | 563.291 | | |
| 2,100.00 | 2,052.79 | 1,241.00 | 1,265.74 | 10.64 | 6.12 | 85.24 | -110.26 | -9,143.16 | 9,144.55 | 9,127.83 | 16.72 | 546.784 | | |
| 2,200.00 | 2,149.43 | 1,291.47 | 1,316.05 | 11.15 | 6.30 | 85.32 | -110.14 | -9,147.31 | 9,151.21 | 9,133.80 | 17.41 | 525.748 | | |
| 2,300.00 | 2,246.07 | 1,314.18 | 1,338.65 | 11.66 | 6.38 | 85.36 | -110.08 | -9,149.46 | 9,158.89 | 9,140.90 | 17.99 | 509.091 | | |
| 2,400.00 | 2,342.71 | 1,369.00 | 1,393.14 | 12.18 | 6.58 | 85.45 | -109.94 | -9,155.42 | 9,167.66 | 9,148.97 | 18.69 | 490.425 | | |
| 2,500.00 | 2,439.34 | 1,369.00 | 1,393.14 | 12.70 | 6.58 | 85.45 | -109.94 | -9,155.42 | 9,176.81 | 9,157.62 | 19.20 | 478.053 | | |
| 2,600.00 | 2,535.98 | 1,369.00 | 1,393.14 | 13.22 | 6.58 | 85.45 | -109.94 | -9,155.42 | 9,187.05 | 9,167.35 | 19.70 | 466.393 | | |
| 2,700.00 | 2,632.62 | 1,369.00 | 1,393.14 | 13.75 | 6.58 | 85.45 | -109.94 | -9,155.42 | 9,198.36 | 9,178.16 | 20.20 | 455.396 | | |
| 2,800.00 | 2,729.26 | 1,434.53 | 1,458.13 | 14.27 | 6.82 | 85.55 | -110.01 | -9,163.84 | 9,209.86 | 9,188.91 | 20.95 | 439.698 | | |
| 2,900.00 | 2,825.89 | 1,498.00 | 1,520.90 | 14.80 | 7.07 | 85.65 | -110.51 | -9,173.24 | 9,222.79 | 9,201.10 | 21.69 | 425.187 | | |
| 3,000.00 | 2,922.53 | 1,498.00 | 1,520.90 | 15.32 | 7.07 | 85.65 | -110.51 | -9,173.24 | 9,235.96 | 9,213.77 | 22.19 | 416.263 | | |
| 3,100.00 | 3,019.17 | 1,498.00 | 1,520.90 | 15.85 | 7.07 | 85.65 | -110.51 | -9,173.24 | 9,250.19 | 9,227.51 | 22.68 | 407.823 | | |
| 3,200.00 | 3,115.81 | 1,498.00 | 1,520.90 | 16.38 | 7.07 | 85.65 | -110.51 | -9,173.24 | 9,265.49 | 9,242.31 | 23.17 | 399.838 | | |
| 3,300.00 | 3,212.44 | 1,556.16 | 1,578.23 | 16.91 | 7.31 | 85.73 | -111.21 | -9,182.98 | 9,281.08 | 9,257.18 | 23.90 | 388.371 | | |
| 3,400.00 | 3,309.08 | 1,579.35 | 1,601.04 | 17.44 | 7.41 | 85.77 | -111.52 | -9,187.18 | 9,297.75 | 9,273.27 | 24.48 | 379.822 | | |
| 3,500.00 | 3,405.72 | 1,626.00 | 1,646.80 | 17.97 | 7.60 | 85.84 | -112.19 | -9,196.17 | 9,315.35 | 9,290.19 | 25.16 | 370.284 | | |
| 3,600.00 | 3,502.36 | 1,626.00 | 1,646.80 | 18.50 | 7.60 | 85.84 | -112.19 | -9,196.17 | 9,333.51 | 9,307.87 | 25.64 | 364.046 | | |
| 3,700.00 | 3,598.99 | 1,626.00 | 1,646.80 | 19.03 | 7.60 | 85.84 | -112.19 | -9,196.17 | 9,352.70 | 9,326.58 | 26.12 | 358.129 | | |
| 3,800.00 | 3,695.63 | 1,626.00 | 1,646.80 | 19.57 | 7.60 | 85.84 | -112.19 | -9,196.17 | 9,372.91 | 9,346.33 | 26.59 | 352.515 | | |
| 3,900.00 | 3,792.27 | 1,691.22 | 1,710.53 | 20.10 | 7.90 | 85.93 | -113.30 | -9,210.01 | 9,393.16 | 9,365.82 | 27.34 | 343.524 | | |
| 4,000.00 | 3,888.91 | 1,754.00 | 1,771.54 | 20.63 | 8.19 | 86.02 | -114.60 | -9,224.75 | 9,415.04 | 9,386.95 | 28.09 | 335.177 | | |
| 4,100.00 | 3,985.54 | 1,754.00 | 1,771.54 | 21.17 | 8.19 | 86.02 | -114.60 | -9,224.75 | 9,437.01 | 9,408.46 | 28.55 | 330.496 | | |
| 4,200.00 | 4,082.18 | 1,754.00 | 1,771.54 | 21.70 | 8.19 | 86.02 | -114.60 | -9,224.75 | 9,459.99 | 9,430.98 | 29.01 | 326.051 | | |
| 4,300.00 | 4,178.82 | 1,754.00 | 1,771.54 | 22.24 | 8.19 | 86.02 | -114.60 | -9,224.75 | 9,483.97 | 9,454.50 | 29.47 | 321.827 | | |
| 4,400.00 | 4,275.46 | 1,810.52 | 1,826.20 | 22.77 | 8.48 | 86.10 | -115.79 | -9,239.06 | 9,508.34 | 9,478.16 | 30.18 | 315.009 | | |
| 4,500.00 | 4,372.09 | 1,837.15 | 1,851.89 | 23.31 | 8.62 | 86.13 | -116.27 | -9,246.08 | 9,533.60 | 9,502.85 | 30.76 | 309.949 | | |
| 4,600.00 | 4,468.73 | 1,883.00 | 1,895.99 | 23.84 | 8.86 | 86.20 | -117.00 | -9,258.59 | 9,559.65 | 9,528.23 | 31.42 | 304.221 | | |
| 4,700.00 | 4,565.37 | 1,883.00 | 1,895.99 | 24.38 | 8.86 | 86.20 | -117.00 | -9,258.59 | 9,586.28 | 9,554.42 | 31.86 | 300.852 | | |
| 4,800.00 | 4,662.01 | 1,883.00 | 1,895.99 | 24.91 | 8.86 | 86.20 | -117.00 | -9,258.59 | 9,613.88 | 9,581.58 | 32.30 | 297.652 | | |
| 4,900.00 | 4,758.64 | 1,952.42 | 1,962.50 | 25.45 | 9.26 | 86.29 | -118.06 | -9,278.43 | 9,641.67 | 9,608.59 | 33.08 | 291.485 | | |
| 5,000.00 | 4,855.28 | 2,011.00 | 2,018.39 | 25.99 | 9.60 | 86.37 | -119.02 | -9,295.96 | 9,670.49 | 9,636.68 | 33.80 | 286.072 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I 17-07D(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 78-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 2,011.00 | 2,018.39 | 26.53 | 9.60 | 86.37 | -119.02 | -9,295.96 | 9,699.70 | 9,665.48 | 34.23 | 283.375 | | |
| 5,200.00 | 5,048.56 | 2,056.77 | 2,061.93 | 27.06 | 9.88 | 86.44 | -119.79 | -9,310.05 | 9,729.63 | 9,694.74 | 34.89 | 278.867 | | |
| 5,300.00 | 5,145.19 | 2,099.32 | 2,102.34 | 27.60 | 10.15 | 86.49 | -120.51 | -9,323.37 | 9,760.08 | 9,724.54 | 35.53 | 274.678 | | |
| 5,400.00 | 5,241.83 | 2,142.00 | 2,147.01 | 28.14 | 10.42 | 86.54 | -121.23 | -9,336.69 | 9,790.35 | 9,738.35 | 36.19 | 270.489 | | |
| 5,500.00 | 5,338.47 | 2,184.58 | 2,189.59 | 28.67 | 10.69 | 86.59 | -121.95 | -9,349.99 | 9,819.39 | 9,781.10 | 36.84 | 266.300 | | |
| 5,600.00 | 5,435.11 | 2,227.16 | 2,232.17 | 29.21 | 10.96 | 86.64 | -122.67 | -9,363.29 | 9,848.88 | 9,809.93 | 37.49 | 262.111 | | |
| 5,700.00 | 5,531.74 | 2,269.74 | 2,274.75 | 29.75 | 11.23 | 86.69 | -123.39 | -9,376.59 | 9,878.90 | 9,839.36 | 38.14 | 257.922 | | |
| 5,800.00 | 5,628.38 | 2,312.32 | 2,317.33 | 30.29 | 11.50 | 86.74 | -124.11 | -9,389.89 | 9,909.34 | 9,869.00 | 38.79 | 253.733 | | |
| 5,900.00 | 5,725.02 | 2,354.90 | 2,359.91 | 30.83 | 11.77 | 86.79 | -124.83 | -9,403.19 | 9,940.23 | 9,899.13 | 39.44 | 249.544 | | |
| 6,000.00 | 5,821.66 | 2,397.48 | 2,402.49 | 31.37 | 12.04 | 86.84 | -125.55 | -9,416.49 | 9,971.69 | 9,930.18 | 40.09 | 245.355 | | |
| 7,200.00 | 6,868.79 | 6,788.53 | 6,639.61 | 37.07 | 38.85 | 32.21 | -148.39 | -10,297.38 | 9,953.50 | 9,885.98 | 67.52 | 147.425 | | |
| 7,300.00 | 6,910.01 | 6,828.42 | 6,679.48 | 37.39 | 38.99 | 36.01 | -149.12 | -10,298.43 | 9,867.08 | 9,799.14 | 67.94 | 145.229 | | |
| 7,400.00 | 6,937.07 | 6,855.55 | 6,706.58 | 37.76 | 39.09 | 45.14 | -149.62 | -10,299.16 | 9,774.30 | 9,706.03 | 68.27 | 143.179 | | |
| 7,500.00 | 6,949.29 | 6,869.20 | 6,720.23 | 38.27 | 39.14 | 68.70 | -149.88 | -10,299.52 | 9,677.42 | 9,608.93 | 68.49 | 141.298 | | |
| 7,600.00 | 6,949.75 | 6,872.10 | 6,723.13 | 39.02 | 39.15 | 83.20 | -149.93 | -10,299.60 | 9,578.90 | 9,510.27 | 68.64 | 139.562 | | |
| 7,700.00 | 6,949.37 | 6,874.24 | 6,725.26 | 40.05 | 39.16 | 83.28 | -149.97 | -10,299.66 | 9,480.34 | 9,411.56 | 68.78 | 137.828 | | |
| 7,800.00 | 6,948.99 | 6,876.38 | 6,727.41 | 41.35 | 39.16 | 83.35 | -150.01 | -10,299.72 | 9,381.81 | 9,312.87 | 68.94 | 136.082 | | |
| 7,900.00 | 6,948.61 | 6,878.52 | 6,729.55 | 42.86 | 39.17 | 83.43 | -150.05 | -10,299.78 | 9,283.31 | 9,214.20 | 69.11 | 134.323 | | |
| 8,000.00 | 6,948.23 | 6,880.68 | 6,731.70 | 44.53 | 39.18 | 83.50 | -150.09 | -10,299.83 | 9,184.85 | 9,115.55 | 69.29 | 132.552 | | |
| 8,100.00 | 6,947.85 | 6,882.83 | 6,733.85 | 46.34 | 39.19 | 83.58 | -150.13 | -10,299.89 | 9,086.41 | 9,016.93 | 69.48 | 130.770 | | |
| 8,200.00 | 6,947.47 | 6,884.99 | 6,736.01 | 48.26 | 39.19 | 83.65 | -150.17 | -10,299.95 | 8,988.01 | 8,918.32 | 69.69 | 128.975 | | |
| 8,300.00 | 6,947.09 | 6,887.15 | 6,738.17 | 50.28 | 39.20 | 83.73 | -150.21 | -10,300.01 | 8,889.65 | 8,819.74 | 69.90 | 127.169 | | |
| 8,400.00 | 6,946.72 | 6,889.32 | 6,740.34 | 52.39 | 39.21 | 83.81 | -150.25 | -10,300.07 | 8,791.32 | 8,721.18 | 70.13 | 125.351 | | |
| 8,500.00 | 6,946.34 | 6,891.49 | 6,742.51 | 54.56 | 39.22 | 83.88 | -150.30 | -10,300.13 | 8,693.03 | 8,622.65 | 70.38 | 123.521 | | |
| 8,600.00 | 6,945.96 | 6,893.67 | 6,744.69 | 56.80 | 39.22 | 83.96 | -150.34 | -10,300.19 | 8,594.77 | 8,524.14 | 70.63 | 121.681 | | |
| 8,700.00 | 6,945.58 | 6,895.85 | 6,746.87 | 59.10 | 39.23 | 84.04 | -150.38 | -10,300.25 | 8,496.56 | 8,425.66 | 70.91 | 119.829 | | |
| 8,800.00 | 6,945.20 | 6,897.72 | 6,748.73 | 61.44 | 39.24 | 84.10 | -150.41 | -10,300.30 | 8,398.39 | 8,327.20 | 71.19 | 117.969 | | |
| 8,900.00 | 6,944.82 | 6,899.83 | 6,750.85 | 63.83 | 39.25 | 84.18 | -150.46 | -10,300.36 | 8,300.26 | 8,228.77 | 71.49 | 116.097 | | |
| 9,000.00 | 6,944.44 | 6,901.96 | 6,752.97 | 66.25 | 39.25 | 84.25 | -150.50 | -10,300.41 | 8,202.18 | 8,130.37 | 71.81 | 114.215 | | |
| 9,100.00 | 6,944.06 | 6,904.09 | 6,755.11 | 68.71 | 39.26 | 84.33 | -150.54 | -10,300.47 | 8,104.15 | 8,032.00 | 72.15 | 112.324 | | |
| 9,200.00 | 6,943.68 | 6,906.24 | 6,757.25 | 71.20 | 39.27 | 84.41 | -150.58 | -10,300.53 | 8,006.16 | 7,933.65 | 72.50 | 110.423 | | |
| 9,300.00 | 6,943.30 | 6,908.40 | 6,759.40 | 73.72 | 39.28 | 84.48 | -150.62 | -10,300.59 | 7,908.22 | 7,835.34 | 72.88 | 108.514 | | |
| 9,400.00 | 6,942.92 | 6,910.56 | 6,761.57 | 76.26 | 39.28 | 84.56 | -150.67 | -10,300.65 | 7,810.33 | 7,737.06 | 73.27 | 106.597 | | |
| 9,500.00 | 6,942.54 | 6,912.74 | 6,763.74 | 78.82 | 39.29 | 84.64 | -150.71 | -10,300.71 | 7,712.50 | 7,638.81 | 73.68 | 104.672 | | |
| 9,600.00 | 6,942.16 | 6,914.92 | 6,765.93 | 81.40 | 39.30 | 84.71 | -150.76 | -10,300.77 | 7,614.72 | 7,540.60 | 74.12 | 102.740 | | |
| 9,700.00 | 6,941.78 | 6,917.12 | 6,768.12 | 84.00 | 39.31 | 84.79 | -150.80 | -10,300.83 | 7,517.00 | 7,442.43 | 74.57 | 100.801 | | |
| 9,800.00 | 6,941.40 | 6,919.32 | 6,770.33 | 86.62 | 39.32 | 84.87 | -150.85 | -10,300.90 | 7,419.34 | 7,344.29 | 75.05 | 98.857 | | |
| 9,900.00 | 6,941.03 | 6,921.54 | 6,772.54 | 89.25 | 39.32 | 84.95 | -150.89 | -10,300.96 | 7,321.74 | 7,246.19 | 75.55 | 96.908 | | |
| 10,000.00 | 6,940.65 | 6,923.77 | 6,774.77 | 91.90 | 39.33 | 85.03 | -150.94 | -10,301.02 | 7,224.21 | 7,148.13 | 76.08 | 94.955 | | |
| 10,100.00 | 6,940.27 | 6,926.01 | 6,777.00 | 94.56 | 39.34 | 85.11 | -150.98 | -10,301.08 | 7,126.74 | 7,050.11 | 76.63 | 92.998 | | |
| 10,200.00 | 6,939.89 | 6,928.25 | 6,779.25 | 97.23 | 39.35 | 85.19 | -151.03 | -10,301.15 | 7,029.35 | 6,952.13 | 77.21 | 91.039 | | |
| 10,300.00 | 6,939.51 | 6,930.51 | 6,781.51 | 99.91 | 39.36 | 85.27 | -151.08 | -10,301.21 | 6,932.02 | 6,854.20 | 77.82 | 89.077 | | |
| 10,400.00 | 6,939.13 | 6,932.78 | 6,783.78 | 102.60 | 39.36 | 85.35 | -151.13 | -10,301.28 | 6,834.78 | 6,756.32 | 78.46 | 87.115 | | |
| 10,500.00 | 6,938.75 | 6,935.06 | 6,786.06 | 105.30 | 39.37 | 85.43 | -151.18 | -10,301.34 | 6,737.61 | 6,658.49 | 79.12 | 85.152 | | |
| 10,600.00 | 6,938.37 | 6,937.35 | 6,788.35 | 108.00 | 39.38 | 85.51 | -151.22 | -10,301.41 | 6,640.53 | 6,560.71 | 79.82 | 83.190 | | |
| 10,700.00 | 6,937.99 | 6,939.66 | 6,790.65 | 110.72 | 39.39 | 85.59 | -151.27 | -10,301.47 | 6,543.54 | 6,462.98 | 80.56 | 81.230 | | |
| 10,800.00 | 6,937.61 | 6,941.97 | 6,792.96 | 113.44 | 39.40 | 85.67 | -151.32 | -10,301.54 | 6,446.63 | 6,365.31 | 81.32 | 79.273 | | |
| 10,900.00 | 6,937.23 | 6,944.30 | 6,795.28 | 116.17 | 39.40 | 85.76 | -151.38 | -10,301.60 | 6,349.82 | 6,267.70 | 82.12 | 77.320 | | |
| 11,000.00 | 6,936.85 | 6,946.63 | 6,797.62 | 118.90 | 39.41 | 85.84 | -151.43 | -10,301.67 | 6,253.11 | 6,170.15 | 82.96 | 75.372 | | |
| 11,100.00 | 6,936.47 | 6,948.98 | 6,799.96 | 121.64 | 39.42 | 85.92 | -151.48 | -10,301.74 | 6,156.51 | 6,072.67 | 83.84 | 73.429 | | |
| 11,200.00 | 6,936.09 | 6,951.34 | 6,802.32 | 124.39 | 39.43 | 86.01 | -151.53 | -10,301.81 | 6,060.01 | 5,975.25 | 84.76 | 71.494 | | |
| 11,300.00 | 6,935.71 | 6,953.71 | 6,804.69 | 127.14 | 39.44 | 86.09 | -151.58 | -10,301.87 | 5,963.63 | 5,877.91 | 85.73 | 69.567 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I 17-07D(PR_75CC) - OH - OH | | | | | | | | | | | | Offset Site Error: 0.00 ft | |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|----------------------------|--|
| Survey Program: 78-MWD | | | | | | | | | | | | Offset Well Error: 3.28 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | Warning | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | |
| 11,400.00 | 6,935.34 | 6,956.09 | 6,807.07 | 129.90 | 39.45 | 86.18 | -151.64 | -10,301.94 | 5,867.37 | 5,780.64 | 86.73 | 67.649 | |
| 11,500.00 | 6,934.96 | 6,958.49 | 6,809.46 | 132.66 | 39.46 | 86.26 | -151.69 | -10,302.01 | 5,771.23 | 5,683.45 | 87.79 | 65.742 | |
| 11,600.00 | 6,934.58 | 6,960.89 | 6,811.87 | 135.42 | 39.46 | 86.35 | -151.75 | -10,302.08 | 5,675.23 | 5,586.34 | 88.89 | 63.846 | |
| 11,700.00 | 6,934.20 | 6,963.31 | 6,814.28 | 138.19 | 39.47 | 86.43 | -151.80 | -10,302.15 | 5,579.37 | 5,489.32 | 90.04 | 61.963 | |
| 11,800.00 | 6,933.82 | 6,965.74 | 6,816.71 | 140.96 | 39.48 | 86.52 | -151.86 | -10,302.22 | 5,483.65 | 5,392.40 | 91.25 | 60.094 | |
| 11,900.00 | 6,933.44 | 6,968.18 | 6,819.15 | 143.74 | 39.49 | 86.61 | -151.91 | -10,302.29 | 5,388.09 | 5,295.57 | 92.52 | 58.240 | |
| 12,000.00 | 6,933.06 | 6,970.63 | 6,821.60 | 146.51 | 39.50 | 86.69 | -151.97 | -10,302.37 | 5,292.69 | 5,198.85 | 93.84 | 56.402 | |
| 12,100.00 | 6,932.68 | 6,973.10 | 6,824.06 | 149.30 | 39.51 | 86.78 | -152.03 | -10,302.44 | 5,197.46 | 5,102.24 | 95.22 | 54.582 | |
| 12,200.00 | 6,932.30 | 6,975.58 | 6,826.54 | 152.08 | 39.52 | 86.87 | -152.09 | -10,302.51 | 5,102.41 | 5,005.74 | 96.67 | 52.781 | |
| 12,300.00 | 6,931.92 | 6,978.07 | 6,829.03 | 154.87 | 39.53 | 86.96 | -152.15 | -10,302.58 | 5,007.56 | 4,909.37 | 98.19 | 50.999 | |
| 12,400.00 | 6,931.54 | 6,980.57 | 6,831.53 | 157.66 | 39.53 | 87.05 | -152.21 | -10,302.66 | 4,912.90 | 4,813.13 | 99.78 | 49.238 | |
| 12,500.00 | 6,931.16 | 6,983.08 | 6,834.04 | 160.45 | 39.54 | 87.14 | -152.27 | -10,302.73 | 4,818.47 | 4,717.02 | 101.44 | 47.499 | |
| 12,600.00 | 6,930.78 | 6,985.61 | 6,836.57 | 163.24 | 39.55 | 87.23 | -152.33 | -10,302.81 | 4,724.26 | 4,621.07 | 103.19 | 45.783 | |
| 12,700.00 | 6,930.40 | 6,988.15 | 6,839.11 | 166.04 | 39.56 | 87.32 | -152.39 | -10,302.88 | 4,630.29 | 4,525.27 | 105.01 | 44.092 | |
| 12,800.00 | 6,930.03 | 6,990.71 | 6,841.66 | 168.84 | 39.57 | 87.41 | -152.45 | -10,302.96 | 4,536.58 | 4,429.65 | 106.93 | 42.426 | |
| 12,900.00 | 6,929.65 | 6,993.27 | 6,844.23 | 171.64 | 39.58 | 87.50 | -152.52 | -10,303.04 | 4,443.14 | 4,334.20 | 108.94 | 40.786 | |
| 13,000.00 | 6,929.27 | 6,995.85 | 6,846.80 | 174.44 | 39.59 | 87.59 | -152.58 | -10,303.11 | 4,349.99 | 4,238.94 | 111.04 | 39.174 | |
| 13,100.00 | 6,928.89 | 6,998.45 | 6,849.39 | 177.24 | 39.60 | 87.69 | -152.64 | -10,303.19 | 4,257.15 | 4,143.90 | 113.25 | 37.591 | |
| 13,200.00 | 6,928.51 | 7,001.05 | 6,852.00 | 180.05 | 39.61 | 87.78 | -152.71 | -10,303.27 | 4,164.64 | 4,049.07 | 115.57 | 36.036 | |
| 13,300.00 | 6,928.13 | 7,003.67 | 6,854.62 | 182.86 | 39.62 | 87.87 | -152.77 | -10,303.35 | 4,072.48 | 3,954.48 | 118.00 | 34.512 | |
| 13,400.00 | 6,927.75 | 7,006.31 | 6,857.25 | 185.67 | 39.63 | 87.97 | -152.84 | -10,303.43 | 3,980.70 | 3,860.14 | 120.55 | 33.020 | |
| 13,500.00 | 6,927.37 | 7,008.95 | 6,859.89 | 188.48 | 39.64 | 88.06 | -152.91 | -10,303.51 | 3,889.32 | 3,766.08 | 123.24 | 31.559 | |
| 13,600.00 | 6,926.99 | 7,011.61 | 6,862.55 | 191.29 | 39.65 | 88.16 | -152.98 | -10,303.59 | 3,798.37 | 3,672.32 | 126.06 | 30.132 | |
| 13,700.00 | 6,926.61 | 7,014.29 | 6,865.22 | 194.10 | 39.66 | 88.25 | -153.04 | -10,303.67 | 3,707.89 | 3,578.87 | 129.02 | 28.739 | |
| 13,800.00 | 6,926.23 | 7,016.97 | 6,867.91 | 196.92 | 39.66 | 88.35 | -153.11 | -10,303.75 | 3,617.91 | 3,485.77 | 132.14 | 27.380 | |
| 13,900.00 | 6,925.85 | 7,019.68 | 6,870.61 | 199.73 | 39.67 | 88.45 | -153.18 | -10,303.83 | 3,528.47 | 3,393.05 | 135.42 | 26.057 | |
| 14,000.00 | 6,925.47 | 7,022.39 | 6,873.32 | 202.55 | 39.68 | 88.54 | -153.26 | -10,303.92 | 3,439.60 | 3,300.74 | 138.87 | 24.769 | |
| 14,100.00 | 6,925.09 | 7,025.12 | 6,876.05 | 2 | | | | | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I 17-08(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 38.00 | 3.28 | 3.28 | -90.37 | -59.14 | -9,146.11 | 9,146.38 | | | | | |
| 100.00 | 100.00 | 62.00 | 100.00 | 3.28 | 3.45 | -90.37 | -59.14 | -9,146.11 | 9,146.30 | 9,139.57 | 6.74 | 1,357.291 | | |
| 200.00 | 200.00 | 162.00 | 200.00 | 3.34 | 5.10 | -90.37 | -59.14 | -9,146.11 | 9,146.30 | 9,137.86 | 8.44 | 1,083.615 | | |
| 300.00 | 299.98 | 261.98 | 299.98 | 3.44 | 8.09 | 84.26 | -59.14 | -9,146.11 | 9,146.13 | 9,134.60 | 11.53 | 792.982 | | |
| 400.00 | 399.84 | 361.84 | 399.84 | 3.59 | 11.37 | 84.31 | -59.14 | -9,146.11 | 9,145.61 | 9,130.65 | 14.96 | 611.419 | | |
| 500.00 | 499.45 | 461.45 | 499.45 | 3.79 | 14.73 | 84.38 | -59.14 | -9,146.11 | 9,144.75 | 9,126.23 | 18.52 | 493.785 | | |
| 600.00 | 598.70 | 560.70 | 598.70 | 4.03 | 18.13 | 84.48 | -59.14 | -9,146.11 | 9,143.55 | 9,121.40 | 22.16 | 412.674 | | |
| 700.00 | 697.47 | 659.47 | 697.47 | 4.31 | 21.53 | 84.60 | -59.14 | -9,146.11 | 9,142.05 | 9,116.20 | 25.84 | 353.773 | | |
| 800.00 | 795.62 | 757.62 | 795.62 | 4.64 | 24.92 | 84.76 | -59.14 | -9,146.11 | 9,140.24 | 9,110.69 | 29.56 | 309.236 | | |
| 900.00 | 893.06 | 855.06 | 893.06 | 5.00 | 28.30 | 84.93 | -59.14 | -9,146.11 | 9,138.17 | 9,104.87 | 33.29 | 274.471 | | |
| 1,000.00 | 989.78 | 951.78 | 989.78 | 5.39 | 31.65 | 85.11 | -59.14 | -9,146.11 | 9,135.89 | 9,098.85 | 37.04 | 246.625 | | |
| 1,100.00 | 1,086.42 | 1,048.42 | 1,086.42 | 5.81 | 35.01 | 85.26 | -59.14 | -9,146.11 | 9,133.66 | 9,092.84 | 40.82 | 223.753 | | |
| 1,200.00 | 1,183.06 | 1,145.06 | 1,183.06 | 6.25 | 38.37 | 85.42 | -59.14 | -9,146.11 | 9,131.50 | 9,086.88 | 44.62 | 204.656 | | |
| 1,300.00 | 1,279.69 | 1,241.69 | 1,279.69 | 6.71 | 41.73 | 85.57 | -59.14 | -9,146.11 | 9,129.41 | 9,080.98 | 48.43 | 188.489 | | |
| 1,400.00 | 1,376.33 | 1,338.33 | 1,376.33 | 7.17 | 45.10 | 85.73 | -59.14 | -9,146.11 | 9,127.39 | 9,075.13 | 52.26 | 174.639 | | |
| 1,500.00 | 1,472.97 | 1,434.97 | 1,472.97 | 7.65 | 48.46 | 85.88 | -59.14 | -9,146.11 | 9,125.45 | 9,069.34 | 56.11 | 162.648 | | |
| 1,600.00 | 1,569.61 | 1,531.61 | 1,569.61 | 8.13 | 51.83 | 86.04 | -59.14 | -9,146.11 | 9,123.58 | 9,063.62 | 59.96 | 152.171 | | |
| 1,700.00 | 1,666.24 | 1,628.24 | 1,666.24 | 8.62 | 55.19 | 86.20 | -59.14 | -9,146.11 | 9,121.77 | 9,057.96 | 63.81 | 142.942 | | |
| 1,800.00 | 1,762.88 | 1,724.88 | 1,762.88 | 9.12 | 58.56 | 86.35 | -59.14 | -9,146.11 | 9,120.04 | 9,052.37 | 67.68 | 134.754 | | |
| 1,900.00 | 1,859.52 | 1,821.52 | 1,859.52 | 9.62 | 61.93 | 86.51 | -59.14 | -9,146.11 | 9,118.39 | 9,046.84 | 71.55 | 127.442 | | |
| 2,000.00 | 1,956.16 | 1,918.16 | 1,956.16 | 10.13 | 65.30 | 86.66 | -59.14 | -9,146.11 | 9,116.80 | 9,041.38 | 75.42 | 120.873 | | |
| 2,100.00 | 2,052.79 | 2,014.79 | 2,052.79 | 10.64 | 68.67 | 86.82 | -59.14 | -9,146.11 | 9,115.29 | 9,035.99 | 79.30 | 114.942 | | |
| 2,200.00 | 2,149.43 | 2,111.43 | 2,149.43 | 11.15 | 72.04 | 86.98 | -59.14 | -9,146.11 | 9,113.85 | 9,030.66 | 83.19 | 109.560 | | |
| 2,300.00 | 2,246.07 | 2,208.07 | 2,246.07 | 11.66 | 75.41 | 87.13 | -59.14 | -9,146.11 | 9,112.48 | 9,025.41 | 87.07 | 104.655 | | |
| 2,400.00 | 2,342.71 | 2,304.71 | 2,342.71 | 12.18 | 78.78 | 87.29 | -59.14 | -9,146.11 | 9,111.19 | 9,020.23 | 90.96 | 100.167 | | |
| 2,500.00 | 2,439.34 | 2,401.34 | 2,439.34 | 12.70 | 82.15 | 87.44 | -59.14 | -9,146.11 | 9,109.96 | 9,015.11 | 94.85 | 96.046 | | |
| 2,600.00 | 2,535.98 | 2,502.02 | 2,535.98 | 13.22 | 85.66 | 87.60 | -59.14 | -9,146.11 | 9,108.81 | 9,009.93 | 98.88 | 92.117 | | |
| 2,700.00 | 2,632.62 | 2,605.38 | 2,632.62 | 13.75 | 89.27 | 87.76 | -59.14 | -9,146.11 | 9,107.74 | 9,004.72 | 103.01 | 88.414 | | |
| 2,800.00 | 2,729.26 | 2,708.74 | 2,729.26 | 14.27 | 92.87 | 87.91 | -59.14 | -9,146.11 | 9,106.73 | 8,999.59 | 107.14 | 84.996 | | |
| 2,900.00 | 2,825.89 | 2,787.89 | 2,825.89 | 14.80 | 95.64 | 88.07 | -59.14 | -9,146.11 | 9,105.80 | 8,995.37 | 110.43 | 82.458 | | |
| 3,000.00 | 2,922.53 | 2,884.53 | 2,922.53 | 15.32 | 99.01 | 88.22 | -59.14 | -9,146.11 | 9,104.94 | 8,990.61 | 114.33 | 79.638 | | |
| 3,100.00 | 3,019.17 | 2,981.17 | 3,019.17 | 15.85 | 102.38 | 88.38 | -59.14 | -9,146.11 | 9,104.15 | 8,985.92 | 118.23 | 77.005 | | |
| 3,200.00 | 3,115.81 | 3,077.81 | 3,115.81 | 16.38 | 105.75 | 88.54 | -59.14 | -9,146.11 | 9,103.43 | 8,981.30 | 122.13 | 74.539 | | |
| 3,300.00 | 3,212.44 | 3,174.44 | 3,212.44 | 16.91 | 109.12 | 88.69 | -59.14 | -9,146.11 | 9,102.79 | 8,976.76 | 126.03 | 72.227 | | |
| 3,400.00 | 3,309.08 | 3,271.08 | 3,309.08 | 17.44 | 112.50 | 88.85 | -59.14 | -9,146.11 | 9,102.22 | 8,972.29 | 129.93 | 70.053 | | |
| 3,500.00 | 3,405.72 | 3,367.72 | 3,405.72 | 17.97 | 115.87 | 89.01 | -59.14 | -9,146.11 | 9,101.72 | 8,967.89 | 133.84 | 68.006 | | |
| 3,600.00 | 3,502.36 | 3,464.36 | 3,502.36 | 18.50 | 119.24 | 89.16 | -59.14 | -9,146.11 | 9,101.30 | 8,963.56 | 137.74 | 66.075 | | |
| 3,700.00 | 3,598.99 | 3,560.99 | 3,598.99 | 19.03 | 122.61 | 89.32 | -59.14 | -9,146.11 | 9,100.94 | 8,959.30 | 141.65 | 64.251 | | |
| 3,800.00 | 3,695.63 | 3,657.63 | 3,695.63 | 19.57 | 125.99 | 89.48 | -59.14 | -9,146.11 | 9,100.66 | 8,955.11 | 145.55 | 62.526 | | |
| 3,900.00 | 3,792.27 | 3,754.27 | 3,792.27 | 20.10 | 129.36 | 89.63 | -59.14 | -9,146.11 | 9,100.46 | 8,951.00 | 149.46 | 60.890 | | |
| 4,000.00 | 3,888.91 | 3,850.91 | 3,888.91 | 20.63 | 132.73 | 89.79 | -59.14 | -9,146.11 | 9,100.32 | 8,946.96 | 153.36 | 59.338 | | |
| 4,100.00 | 3,985.54 | 3,947.54 | 3,985.54 | 21.17 | 136.10 | 89.95 | -59.14 | -9,146.11 | 9,100.26 | 8,942.99 | 157.27 | 57.864 | | |
| 4,135.14 | 4,019.50 | 3,981.50 | 4,019.50 | 21.35 | 137.29 | 90.00 | -59.14 | -9,146.11 | 9,100.26 | 8,941.61 | 158.64 | 57.363 | | |
| 4,200.00 | 4,082.18 | 4,044.18 | 4,082.18 | 21.70 | 139.48 | 90.10 | -59.14 | -9,146.11 | 9,100.27 | 8,939.09 | 161.18 | 56.461 | | |
| 4,300.00 | 4,178.82 | 4,140.82 | 4,178.82 | 22.24 | 142.85 | 90.26 | -59.14 | -9,146.11 | 9,100.36 | 8,935.27 | 165.08 | 55.125 | | |
| 4,400.00 | 4,275.46 | 4,237.46 | 4,275.46 | 22.77 | 146.22 | 90.41 | -59.14 | -9,146.11 | 9,100.51 | 8,931.52 | 168.99 | 53.852 | | |
| 4,500.00 | 4,372.09 | 4,334.09 | 4,372.09 | 23.31 | 149.59 | 90.57 | -59.14 | -9,146.11 | 9,100.74 | 8,927.84 | 172.90 | 52.636 | | |
| 4,600.00 | 4,468.73 | 4,430.73 | 4,468.73 | 23.84 | 152.97 | 90.73 | -59.14 | -9,146.11 | 9,101.04 | 8,924.23 | 176.81 | 51.474 | | |
| 4,700.00 | 4,565.37 | 4,527.37 | 4,565.37 | 24.38 | 156.34 | 90.88 | -59.14 | -9,146.11 | 9,101.42 | 8,920.70 | 180.72 | 50.363 | | |
| 4,800.00 | 4,662.01 | 4,624.01 | 4,662.01 | 24.91 | 159.71 | 91.04 | -59.14 | -9,146.11 | 9,101.86 | 8,917.24 | 184.63 | 49.299 | | |
| 4,900.00 | 4,758.64 | 4,720.64 | 4,758.64 | 25.45 | 163.09 | 91.20 | -59.14 | -9,146.11 | 9,102.38 | 8,913.85 | 188.54 | 48.279 | | |
| 5,000.00 | 4,855.28 | 4,817.28 | 4,855.28 | 25.99 | 166.46 | 91.35 | -59.14 | -9,146.11 | 9,102.97 | 8,910.53 | 192.45 | 47.302 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I 17-08(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.00 | 4,951.92 | 4,913.92 | 4,951.92 | 26.53 | 169.83 | 91.51 | -59.14 | -9,146.11 | 9,103.64 | 8,907.28 | 196.36 | 46.363 | | |
| 5,200.00 | 5,048.56 | 5,010.56 | 5,048.56 | 27.06 | 173.20 | 91.67 | -59.14 | -9,146.11 | 9,104.38 | 8,904.11 | 200.26 | 45.462 | | |
| 5,300.00 | 5,145.19 | 5,107.19 | 5,145.19 | 27.60 | 176.58 | 91.82 | -59.14 | -9,146.11 | 9,105.18 | 8,901.01 | 204.17 | 44.595 | | |
| 5,400.00 | 5,241.83 | 5,203.83 | 5,241.83 | 28.14 | 179.95 | 91.98 | -59.14 | -9,146.11 | 9,106.07 | 8,897.98 | 208.08 | 43.761 | | |
| 5,500.00 | 5,338.47 | 5,300.47 | 5,338.47 | 28.67 | 183.32 | 92.13 | -59.14 | -9,146.11 | 9,107.02 | 8,895.03 | 212.00 | 42.959 | | |
| 5,600.00 | 5,435.11 | 5,402.89 | 5,435.11 | 29.21 | 186.90 | 92.29 | -59.14 | -9,146.11 | 9,108.05 | 8,891.94 | 216.11 | 42.146 | | |
| 5,700.00 | 5,531.74 | 5,506.26 | 5,531.74 | 29.75 | 190.51 | 92.45 | -59.14 | -9,146.11 | 9,109.15 | 8,888.90 | 220.25 | 41.358 | | |
| 5,800.00 | 5,628.38 | 5,609.62 | 5,628.38 | 30.29 | 194.11 | 92.60 | -59.14 | -9,146.11 | 9,110.32 | 8,885.92 | 224.40 | 40.599 | | |
| 5,900.00 | 5,725.02 | 5,687.02 | 5,725.02 | 30.83 | 196.82 | 92.76 | -59.14 | -9,146.11 | 9,111.57 | 8,883.93 | 227.64 | 40.027 | | |
| 6,000.00 | 5,821.66 | 5,783.66 | 5,821.66 | 31.37 | 200.19 | 92.92 | -59.14 | -9,146.11 | 9,112.88 | 8,881.33 | 231.55 | 39.356 | | |
| 6,100.00 | 5,918.29 | 5,880.29 | 5,918.29 | 31.90 | 203.56 | 93.07 | -59.14 | -9,146.11 | 9,114.27 | 8,878.81 | 235.46 | 38.709 | | |
| 6,200.00 | 6,014.93 | 5,976.93 | 6,014.93 | 32.44 | 206.94 | 93.23 | -59.14 | -9,146.11 | 9,115.73 | 8,876.36 | 239.37 | 38.082 | | |
| 6,300.00 | 6,111.57 | 6,073.57 | 6,111.57 | 32.98 | 210.31 | 93.38 | -59.14 | -9,146.11 | 9,117.27 | 8,873.99 | 243.28 | 37.477 | | |
| 6,400.00 | 6,208.21 | 6,170.21 | 6,208.21 | 33.52 | 213.68 | 93.54 | -59.14 | -9,146.11 | 9,118.87 | 8,871.68 | 247.19 | 36.890 | | |
| 6,500.00 | 6,304.84 | 6,266.84 | 6,304.84 | 34.06 | 217.06 | 93.69 | -59.14 | -9,146.11 | 9,120.55 | 8,869.45 | 251.10 | 36.322 | | |
| 6,600.00 | 6,401.37 | 6,363.37 | 6,401.37 | 34.60 | 220.42 | 77.17 | -59.14 | -9,146.11 | 9,120.15 | 8,865.14 | 255.01 | 35.764 | | |
| 6,700.00 | 6,496.25 | 6,458.25 | 6,496.25 | 35.12 | 223.74 | 55.07 | -59.14 | -9,146.11 | 9,106.12 | 8,847.28 | 258.84 | 35.181 | | |
| 6,800.00 | 6,587.15 | 6,549.15 | 6,587.15 | 35.59 | 226.91 | 43.34 | -59.14 | -9,146.11 | 9,077.11 | 8,814.62 | 262.49 | 34.580 | | |
| 6,900.00 | 6,671.83 | 6,633.83 | 6,671.83 | 36.03 | 229.87 | 37.33 | -59.14 | -9,146.11 | 9,033.84 | 8,767.95 | 265.88 | 33.977 | | |
| 7,000.00 | 6,748.21 | 6,710.21 | 6,748.21 | 36.41 | 232.53 | 34.58 | -59.14 | -9,146.11 | 8,977.37 | 8,708.43 | 268.94 | 33.380 | | |
| 7,100.00 | 6,814.41 | 6,776.41 | 6,814.41 | 36.76 | 234.84 | 34.16 | -59.14 | -9,146.11 | 8,909.11 | 8,637.51 | 271.60 | 32.802 | | |
| 7,200.00 | 6,868.79 | 6,830.79 | 6,868.79 | 37.07 | 236.74 | 36.02 | -59.14 | -9,146.11 | 8,830.72 | 8,556.92 | 273.80 | 32.252 | | |
| 7,300.00 | 6,910.01 | 6,872.01 | 6,910.01 | 37.39 | 238.18 | 41.07 | -59.14 | -9,146.11 | 8,744.13 | 8,468.63 | 275.50 | 31.739 | | |
| 7,400.00 | 6,937.07 | 6,900.93 | 6,937.07 | 37.76 | 239.19 | 52.30 | -59.14 | -9,146.11 | 8,651.43 | 8,374.71 | 276.73 | 31.263 | | |
| 7,500.00 | 6,949.29 | 6,911.29 | 6,949.29 | 38.27 | 239.55 | 77.72 | -59.14 | -9,146.11 | 8,554.91 | 8,277.64 | 277.27 | 30.854 | | |
| 7,600.00 | 6,949.75 | 6,911.75 | 6,949.75 | 39.02 | 239.57 | 91.07 | -59.14 | -9,146.11 | 8,456.95 | 8,179.50 | 277.44 | 30.482 | | |
| 7,700.00 | 6,949.37 | 6,911.37 | 6,949.37 | 40.05 | 239.55 | 91.06 | -59.14 | -9,146.11 | 8,358.97 | 8,081.38 | 277.59 | 30.112 | | |
| 7,800.00 | 6,948.99 | 6,910.99 | 6,948.99 | 41.35 | 239.54 | 91.04 | -59.14 | -9,146.11 | 8,261.05 | 7,983.29 | 277.76 | 29.742 | | |
| 7,900.00 | 6,948.61 | 6,910.61 | 6,948.61 | 42.86 | 239.53 | 91.03 | -59.14 | -9,146.11 | 8,163.18 | 7,885.24 | 277.94 | 29.370 | | |
| 8,000.00 | 6,948.23 | 6,910.23 | 6,948.23 | 44.53 | 239.51 | 91.02 | -59.14 | -9,146.11 | 8,065.35 | 7,787.22 | 278.13 | 28.998 | | |
| 8,100.00 | 6,947.85 | 6,909.85 | 6,947.85 | 46.34 | 239.50 | 91.00 | -59.14 | -9,146.11 | 7,967.59 | 7,689.24 | 278.34 | 28.625 | | |
| 8,200.00 | 6,947.47 | 6,909.47 | 6,947.47 | 48.26 | 239.49 | 90.99 | -59.14 | -9,146.11 | 7,869.88 | 7,591.30 | 278.57 | 28.251 | | |
| 8,300.00 | 6,947.09 | 6,909.09 | 6,947.09 | 50.28 | 239.47 | 90.98 | -59.14 | -9,146.11 | 7,772.22 | 7,493.40 | 278.82 | 27.876 | | |
| 8,400.00 | 6,946.72 | 6,908.72 | 6,946.72 | 52.39 | 239.46 | 90.97 | -59.14 | -9,146.11 | 7,674.63 | 7,395.55 | 279.08 | 27.500 | | |
| 8,500.00 | 6,946.34 | 6,908.34 | 6,946.34 | 54.56 | 239.45 | 90.95 | -59.14 | -9,146.11 | 7,577.10 | 7,297.73 | 279.37 | 27.123 | | |
| 8,600.00 | 6,945.96 | 6,907.96 | 6,945.96 | 56.80 | 239.43 | 90.94 | -59.14 | -9,146.11 | 7,479.63 | 7,199.97 | 279.67 | 26.745 | | |
| 8,700.00 | 6,945.58 | 6,907.58 | 6,945.58 | 59.10 | 239.42 | 90.93 | -59.14 | -9,146.11 | 7,382.24 | 7,102.25 | 279.99 | 26.366 | | |
| 8,800.00 | 6,945.20 | 6,907.20 | 6,945.20 | 61.44 | 239.41 | 90.91 | -59.14 | -9,146.11 | 7,284.91 | 7,004.57 | 280.34 | 25.986 | | |
| 8,900.00 | 6,944.82 | 6,906.82 | 6,944.82 | 63.83 | 239.39 | 90.90 | -59.14 | -9,146.11 | 7,187.66 | 6,906.95 | 280.71 | 25.606 | | |
| 9,000.00 | 6,944.44 | 6,906.44 | 6,944.44 | 66.25 | 239.38 | 90.89 | -59.14 | -9,146.11 | 7,090.48 | 6,809.38 | 281.10 | 25.224 | | |
| 9,100.00 | 6,944.06 | 6,906.06 | 6,944.06 | 68.71 | 239.37 | 90.88 | -59.14 | -9,146.11 | 6,993.38 | 6,711.87 | 281.52 | 24.842 | | |
| 9,200.00 | 6,943.68 | 6,905.68 | 6,943.68 | 71.20 | 239.35 | 90.86 | -59.14 | -9,146.11 | 6,896.37 | 6,614.41 | 281.96 | 24.458 | | |
| 9,300.00 | 6,943.30 | 6,905.30 | 6,943.30 | 73.72 | 239.34 | 90.85 | -59.14 | -9,146.11 | 6,799.44 | 6,517.01 | 282.43 | 24.074 | | |
| 9,400.00 | 6,942.92 | 6,904.92 | 6,942.92 | 76.26 | 239.33 | 90.84 | -59.14 | -9,146.11 | 6,702.61 | 6,419.67 | 282.93 | 23.690 | | |
| 9,500.00 | 6,942.54 | 6,904.54 | 6,942.54 | 78.82 | 239.32 | 90.82 | -59.14 | -9,146.11 | 6,605.86 | 6,322.40 | 283.46 | 23.304 | | |
| 9,600.00 | 6,942.16 | 6,904.16 | 6,942.16 | 81.40 | 239.30 | 90.81 | -59.14 | -9,146.11 | 6,509.22 | 6,225.19 | 284.02 | 22.918 | | |
| 9,700.00 | 6,941.78 | 6,903.78 | 6,941.78 | 84.00 | 239.29 | 90.80 | -59.14 | -9,146.11 | 6,412.68 | 6,128.06 | 284.62 | 22.531 | | |
| 9,800.00 | 6,941.40 | 6,903.40 | 6,941.40 | 86.62 | 239.28 | 90.79 | -59.14 | -9,146.11 | 6,316.24 | 6,031.00 | 285.25 | 22.143 | | |
| 9,900.00 | 6,941.03 | 6,903.03 | 6,941.03 | 89.25 | 239.26 | 90.77 | -59.14 | -9,146.11 | 6,219.92 | 5,934.01 | 285.91 | 21.755 | | |
| 10,000.00 | 6,940.65 | 6,902.65 | 6,940.65 | 91.90 | 239.25 | 90.76 | -59.14 | -9,146.11 | 6,123.72 | 5,837.11 | 286.61 | 21.366 | | |
| 10,100.00 | 6,940.27 | 6,902.27 | 6,940.27 | 94.56 | 239.24 | 90.75 | -59.14 | -9,146.11 | 6,027.64 | 5,740.29 | 287.35 | 20.977 | | |
| 10,200.00 | 6,939.89 | 6,901.89 | 6,939.89 | 97.23 | 239.22 | 90.73 | -59.14 | -9,146.11 | 5,931.68 | 5,643.56 | 288.13 | 20.587 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I 17-08(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 100-2" Cone@2.448 Sigma | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,300.00 | 6,939.51 | 6,901.51 | 6,939.51 | 99.91 | 239.21 | 90.72 | -59.14 | -9,146.11 | 5,835.87 | 5,546.92 | 288.95 | 20.197 | | |
| 10,400.00 | 6,939.13 | 6,901.13 | 6,939.13 | 102.60 | 239.20 | 90.71 | -59.14 | -9,146.11 | 5,740.20 | 5,450.38 | 289.82 | 19.806 | | |
| 10,500.00 | 6,938.75 | 6,900.75 | 6,938.75 | 105.30 | 239.18 | 90.70 | -59.14 | -9,146.11 | 5,644.68 | 5,353.94 | 290.73 | 19.415 | | |
| 10,600.00 | 6,938.37 | 6,900.37 | 6,938.37 | 108.00 | 239.17 | 90.68 | -59.14 | -9,146.11 | 5,549.31 | 5,257.62 | 291.69 | 19.025 | | |
| 10,700.00 | 6,937.99 | 6,900.01 | 6,937.99 | 110.72 | 239.16 | 90.67 | -59.14 | -9,146.11 | 5,454.11 | 5,161.41 | 292.71 | 18.633 | | |
| 10,800.00 | 6,937.61 | 6,900.39 | 6,937.61 | 113.44 | 239.17 | 90.66 | -59.14 | -9,146.11 | 5,359.09 | 5,065.29 | 293.80 | 18.241 | | |
| 10,900.00 | 6,937.23 | 6,900.77 | 6,937.23 | 116.17 | 239.18 | 90.64 | -59.14 | -9,146.11 | 5,264.25 | 4,969.30 | 294.95 | 17.848 | | |
| 11,000.00 | 6,936.85 | 6,901.15 | 6,936.85 | 118.90 | 239.20 | 90.63 | -59.14 | -9,146.11 | 5,169.61 | 4,873.45 | 296.15 | 17.456 | | |
| 11,100.00 | 6,936.47 | 6,901.53 | 6,936.47 | 121.64 | 239.21 | 90.62 | -59.14 | -9,146.11 | 5,075.17 | 4,777.75 | 297.42 | 17.064 | | |
| 11,200.00 | 6,936.09 | 6,901.91 | 6,936.09 | 124.39 | 239.22 | 90.60 | -59.14 | -9,146.11 | 4,980.94 | 4,682.19 | 298.75 | 16.672 | | |
| 11,300.00 | 6,935.71 | 6,902.29 | 6,935.71 | 127.14 | 239.24 | 90.59 | -59.14 | -9,146.11 | 4,886.95 | 4,586.80 | 300.15 | 16.282 | | |
| 11,400.00 | 6,935.34 | 6,902.66 | 6,935.34 | 129.90 | 239.25 | 90.58 | -59.14 | -9,146.11 | 4,793.20 | 4,491.58 | 301.62 | 15.891 | | |
| 11,500.00 | 6,934.96 | 6,903.04 | 6,934.96 | 132.66 | 239.26 | 90.57 | -59.14 | -9,146.11 | 4,699.71 | 4,396.54 | 303.17 | 15.502 | | |
| 11,600.00 | 6,934.58 | 6,903.42 | 6,934.58 | 135.42 | 239.28 | 90.55 | -59.14 | -9,146.11 | 4,606.49 | 4,301.70 | 304.79 | 15.114 | | |
| 11,700.00 | 6,934.20 | 6,903.80 | 6,934.20 | 138.19 | 239.29 | 90.54 | -59.14 | -9,146.11 | 4,513.56 | 4,207.07 | 306.50 | 14.726 | | |
| 11,800.00 | 6,933.82 | 6,904.18 | 6,933.82 | 140.96 | 239.30 | 90.53 | -59.14 | -9,146.11 | 4,420.95 | 4,112.66 | 308.29 | 14.340 | | |
| 11,900.00 | 6,933.44 | 6,904.56 | 6,933.44 | 143.74 | 239.32 | 90.51 | -59.14 | -9,146.11 | 4,328.65 | 4,018.48 | 310.17 | 13.956 | | |
| 12,000.00 | 6,933.06 | 6,904.94 | 6,933.06 | 146.51 | 239.33 | 90.50 | -59.14 | -9,146.11 | 4,236.71 | 3,924.56 | 312.15 | 13.573 | | |
| 12,100.00 | 6,932.68 | 6,905.32 | 6,932.68 | 149.30 | 239.34 | 90.49 | -59.14 | -9,146.11 | 4,145.14 | 3,830.92 | 314.23 | 13.192 | | |
| 12,200.00 | 6,932.30 | 6,905.70 | 6,932.30 | 152.08 | 239.36 | 90.48 | -59.14 | -9,146.11 | 4,053.97 | 3,737.56 | 316.41 | 12.812 | | |
| 12,300.00 | 6,931.92 | 6,906.08 | 6,931.92 | 154.87 | 239.37 | 90.46 | -59.14 | -9,146.11 | 3,963.23 | 3,644.52 | 318.71 | 12.435 | | |
| 12,400.00 | 6,931.54 | 6,906.46 | 6,931.54 | 157.66 | 239.38 | 90.45 | -59.14 | -9,146.11 | 3,872.94 | 3,551.82 | 321.12 | 12.061 | | |
| 12,500.00 | 6,931.16 | 6,906.84 | 6,931.16 | 160.45 | 239.40 | 90.44 | -59.14 | -9,146.11 | 3,783.14 | 3,459.48 | 323.66 | 11.688 | | |
| 12,600.00 | 6,930.78 | 6,907.22 | 6,930.78 | 163.24 | 239.41 | 90.42 | -59.14 | -9,146.11 | 3,693.87 | 3,367.53 | 326.34 | 11.319 | | |
| 12,700.00 | 6,930.40 | 6,907.60 | 6,930.40 | 166.04 | 239.42 | 90.41 | -59.14 | -9,146.11 | 3,605.16 | 3,276.01 | 329.15 | 10.953 | | |
| 12,800.00 | 6,930.03 | 6,907.98 | 6,930.03 | 168.84 | 239.43 | 90.40 | -59.14 | -9,146.11 | 3,517.05 | 3,184.95 | 332.10 | 10.590 | | |
| 12,900.00 | 6,929.65 | 6,908.35 | 6,929.65 | 171.64 | 239.45 | 90.39 | -59.14 | -9,146.11 | 3,429.60 | 3,094.38 | 335.21 | 10.231 | | |
| 13,000.00 | 6,929.27 | 6,908.73 | 6,929.27 | 174.44 | 239.46 | 90.37 | -59.14 | -9,146.11 | 3,342.85 | 3,004.36 | 338.49 | 9.876 | | |
| 13,100.00 | 6,928.89 | 6,909.11 | 6,928.89 | 177.24 | 239.47 | 90.36 | -59.14 | -9,146.11 | 3,256.85 | 2,914.92 | 341.93 | 9.525 | | |
| 13,200.00 | 6,928.51 | 6,909.49 | 6,928.51 | 180.05 | 239.49 | 90.35 | -59.14 | -9,146.11 | 3,171.68 | 2,826.13 | 345.56 | 9.178 | | |
| 13,300.00 | 6,928.13 | 6,909.87 | 6,928.13 | 182.86 | 239.50 | 90.33 | -59.14 | -9,146.11 | 3,087.41 | 2,738.03 | 349.37 | 8.837 | | |
| 13,400.00 | 6,927.75 | 6,889.75 | 6,927.75 | 185.67 | 238.80 | 90.32 | -59.14 | -9,146.11 | 3,004.09 | 2,651.42 | 352.67 | 8.518 | | |
| 13,500.00 | 6,927.37 | 6,889.37 | 6,927.37 | 188.48 | 238.79 | 90.31 | -59.14 | -9,146.11 | 2,921.82 | 2,564.96 | 356.86 | 8.188 | | |
| 13,600.00 | 6,926.99 | 6,888.99 | 6,926.99 | 191.29 | 238.77 | 90.30 | -59.14 | -9,146.11 | 2,840.69 | 2,479.42 | 361.27 | 7.863 | | |
| 13,700.00 | 6,926.61 | 6,888.61 | 6,926.61 | 194.10 | 238.76 | 90.28 | -59.14 | -9,146.11 | 2,760.80 | 2,394.89 | 365.91 | 7.545 | | |
| 13,800.00 | 6,926.23 | 6,888.23 | 6,926.23 | 196.92 | 238.75 | 90.27 | -59.14 | -9,146.11 | 2,682.26 | 2,311.48 | 370.78 | 7.234 | | |
| 13,900.00 | 6,925.85 | 6,887.85 | 6,925.85 | 199.73 | 238.73 | 90.26 | -59.14 | -9,146.11 | 2,605.18 | 2,229.29 | 375.89 | 6.931 | | |
| 14,000.00 | 6,925.47 | 6,887.47 | 6,925.47 | 202.55 | 238.72 | 90.24 | -59.14 | -9,146.11 | 2,529.72 | 2,148.47 | 381.24 | 6.635 | | |
| 14,100.00 | 6,925.09 | 6,887.09 | 6,925.09 | 205.37 | 238.71 | 90.23 | -59.14 | -9,146.11 | 2,456.00 | 2,069.16 | 386.84 | 6.349 | | |
| 14,200.00 | 6,924.71 | 6,886.71 | 6,924.71 | 208.19 | 238.69 | 90.22 | -59.14 | -9,146.11 | 2,384.20 | 1,991.51 | 392.69 | 6.071 | | |
| 14,300.00 | 6,924.34 | 6,886.34 | 6,924.34 | 211.01 | 238.68 | 90.20 | -59.14 | -9,146.11 | 2,314.50 | 1,915.72 | 398.78 | 5.804 | | |
| 14,400.00 | 6,923.96 | 6,885.96 | 6,923.96 | 213.83 | 238.67 | 90.19 | -59.14 | -9,146.11 | 2,247.09 | 1,841.98 | 405.11 | 5.547 | | |
| 14,500.00 | 6,923.58 | 6,885.58 | 6,923.58 | 216.65 | 238.65 | 90.18 | -59.14 | -9,146.11 | 2,182.17 | 1,770.53 | 411.65 | 5.301 | | |
| 14,600.00 | 6,923.20 | 6,885.20 | 6,923.20 | 219.48 | 238.64 | 90.17 | -59.14 | -9,146.11 | 2,119.99 | 1,701.61 | 418.38 | 5.067 | | |
| 14,700.00 | 6,922.82 | 6,884.82 | 6,922.82 | 222.30 | 238.63 | 90.15 | -59.14 | -9,146.11 | 2,060.79 | 1,635.51 | 425.28 | 4.846 | | |
| 14,800.00 | 6,922.44 | 6,884.44 | 6,922.44 | 225.13 | 238.61 | 90.14 | -59.14 | -9,146.11 | 2,004.82 | 1,572.53 | 432.29 | 4.638 | | |
| 14,900.00 | 6,922.06 | 6,884.06 | 6,922.06 | 227.95 | 238.60 | 90.13 | -59.14 | -9,146.11 | 1,952.38 | 1,513.01 | 439.38 | 4.444 | | |
| 14,915.55 | 6,922.00 | 6,884.00 | 6,922.00 | 228.39 | 238.60 | 90.13 | -59.14 | -9,146.11 | 1,944.56 | 1,504.09 | 440.48 | 4.415 CC, ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I17-17D(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: 0.00 ft | |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|-----------|----------------------------|---------|
| Survey Program: 78-MWD | | | | | | | | | | | | | Offset Well Error: 3.28 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 0.00 | 0.00 | 0.00 | 25.00 | 3.28 | 3.28 | -90.55 | -88.28 | -9,143.34 | 9,143.80 | | | | | |
| 100.00 | 100.00 | 111.47 | 136.47 | 3.28 | 3.29 | -90.55 | -88.57 | -9,142.98 | 9,143.48 | 9,136.90 | 6.58 | 1,390.139 | | |
| 200.00 | 200.00 | 185.70 | 210.70 | 3.34 | 3.34 | -90.55 | -88.48 | -9,142.79 | 9,143.22 | 9,136.55 | 6.67 | 1,370.293 | | |
| 300.00 | 299.98 | 260.42 | 285.42 | 3.44 | 3.41 | 84.08 | -88.44 | -9,142.81 | 9,143.07 | 9,136.22 | 6.85 | 1,335.464 | | |
| 400.00 | 399.84 | 347.36 | 372.36 | 3.59 | 3.53 | 84.11 | -88.53 | -9,143.01 | 9,142.76 | 9,135.64 | 7.11 | 1,285.250 | | |
| 500.00 | 499.45 | 435.50 | 460.50 | 3.79 | 3.68 | 84.17 | -88.65 | -9,143.33 | 9,142.23 | 9,134.76 | 7.47 | 1,224.221 | | |
| 600.00 | 598.70 | 611.96 | 636.96 | 4.03 | 4.08 | 84.32 | -89.14 | -9,143.62 | 9,141.29 | 9,133.18 | 8.11 | 1,126.954 | | |
| 700.00 | 697.47 | 678.62 | 703.62 | 4.31 | 4.26 | 84.42 | -89.48 | -9,143.44 | 9,139.47 | 9,130.90 | 8.57 | 1,066.026 | | |
| 800.00 | 795.62 | 727.00 | 751.99 | 4.64 | 4.40 | 84.51 | -89.71 | -9,143.48 | 9,137.75 | 9,128.72 | 9.03 | 1,011.547 | | |
| 900.00 | 893.06 | 727.00 | 751.99 | 5.00 | 4.40 | 84.53 | -89.71 | -9,143.48 | 9,136.59 | 9,127.19 | 9.40 | 972.425 | | |
| 1,000.00 | 989.78 | 796.60 | 821.58 | 5.39 | 4.60 | 84.65 | -89.62 | -9,144.20 | 9,135.41 | 9,125.42 | 9.99 | 914.055 | | |
| 1,062.05 | 1,049.75 | 815.84 | 840.82 | 5.65 | 4.66 | 84.68 | -89.44 | -9,144.60 | 9,135.20 | 9,124.89 | 10.31 | 885.895 | | |
| 1,100.00 | 1,086.42 | 856.00 | 880.96 | 5.81 | 4.78 | 84.75 | -88.87 | -9,145.70 | 9,135.36 | 9,124.76 | 10.60 | 862.057 | | |
| 1,109.74 | 1,095.83 | 856.00 | 880.96 | 5.85 | 4.78 | 84.75 | -88.87 | -9,145.70 | 9,135.35 | 9,124.71 | 10.64 | 858.637 | | |
| 1,200.00 | 1,183.06 | 856.00 | 880.96 | 6.25 | 4.78 | 84.75 | -88.87 | -9,145.70 | 9,135.80 | 9,124.76 | 11.04 | 827.759 | | |
| 1,300.00 | 1,279.69 | 856.00 | 880.96 | 6.71 | 4.78 | 84.75 | -88.87 | -9,145.70 | 9,137.33 | 9,125.84 | 11.49 | 795.151 | | |
| 1,400.00 | 1,376.33 | 904.94 | 929.85 | 7.17 | 4.94 | 84.84 | -87.82 | -9,147.67 | 9,139.43 | 9,127.31 | 12.11 | 754.618 | | |
| 1,500.00 | 1,472.97 | 928.37 | 953.24 | 7.65 | 5.02 | 84.88 | -87.19 | -9,148.90 | 9,142.51 | 9,129.85 | 12.66 | 722.044 | | |
| 1,600.00 | 1,569.61 | 984.00 | 1,008.72 | 8.13 | 5.20 | 84.98 | -85.36 | -9,152.55 | 9,146.68 | 9,133.35 | 13.33 | 686.306 | | |
| 1,700.00 | 1,666.24 | 984.00 | 1,008.72 | 8.62 | 5.20 | 84.98 | -85.36 | -9,152.55 | 9,151.24 | 9,137.42 | 13.82 | 662.385 | | |
| 1,800.00 | 1,762.88 | 984.00 | 1,008.72 | 9.12 | 5.20 | 84.98 | -85.36 | -9,152.55 | 9,156.89 | 9,142.59 | 14.31 | 639.977 | | |
| 1,900.00 | 1,859.52 | 984.00 | 1,008.72 | 9.62 | 5.20 | 84.98 | -85.36 | -9,152.55 | 9,163.63 | 9,148.83 | 14.80 | 618.999 | | |
| 2,000.00 | 1,956.16 | 1,051.36 | 1,075.76 | 10.13 | 5.43 | | | | | | | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I17-17D(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|-------------------|--|--------------------|---------|
| Survey Program: 78-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | | | | | |



Anticollision Report



| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

| Offset Design HARVESTERS STATE 7-15 PAD - ULRICH PC I17-17D(PR_75CC) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 78-MWD | | | | | | | | | | | | | Offset Well Error: | 3.28 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 10,200.00 | 6,939.89 | 7,227.28 | 7,072.20 | 97.23 | 38.71 | 93.60 | 743.67 | -9,866.57 | 6,872.05 | 6,785.45 | 86.61 | 79.347 | | |
| 10,300.00 | 6,939.51 | 7,224.81 | 7,069.73 | 99.91 | 38.71 | 93.54 | 743.70 | -9,866.62 | 6,778.98 | 6,691.31 | 87.67 | 77.325 | | |
| 10,400.00 | 6,939.13 | 7,222.33 | 7,067.25 | 102.60 | 38.70 | 93.48 | 743.73 | -9,866.66 | 6,686.11 | 6,597.33 | 88.78 | 75.313 | | |
| 10,500.00 | 6,938.75 | 7,219.84 | 7,064.76 | 105.30 | 38.69 | 93.43 | 743.75 | -9,866.70 | 6,593.44 | 6,503.51 | 89.93 | 73.314 | | |
| 10,600.00 | 6,938.37 | 7,217.35 | 7,062.27 | 108.00 | 38.68 | 93.37 | 743.78 | -9,866.74 | 6,500.99 | 6,409.85 | 91.14 | 71.328 | | |
| 10,700.00 | 6,937.99 | 7,214.85 | 7,059.77 | 110.72 | 38.67 | 93.31 | 743.80 | -9,866.78 | 6,408.77 | 6,316.37 | 92.40 | 69.357 | | |
| 10,800.00 | 6,937.61 | 7,212.34 | 7,057.26 | 113.44 | 38.67 | 93.25 | 743.83 | -9,866.82 | 6,316.78 | 6,223.07 | 93.72 | 67.404 | | |
| 10,900.00 | 6,937.23 | 7,209.82 | 7,054.75 | 116.17 | 38.66 | 93.20 | 743.85 | -9,866.86 | 6,225.04 | 6,129.96 | 95.08 | 65.469 | | |
| 11,000.00 | 6,936.85 | 7,207.30 | 7,052.22 | 118.90 | 38.65 | 93.14 | 743.88 | -9,866.90 | 6,133.56 | 6,037.05 | 96.51 | 63.554 | | |
| 11,100.00 | 6,936.47 | 7,204.77 | 7,049.69 | 121.64 | 38.64 | 93.08 | 743.90 | -9,866.95 | 6,042.34 | 5,944.35 | 97.99 | 61.661 | | |
| 11,200.00 | 6,936.09 | 7,202.23 | 7,047.16 | 124.39 | 38.63 | 93.02 | 743.92 | -9,866.99 | 5,951.41 | 5,851.87 | 99.54 | 59.790 | | |
| 11,300.00 | 6,935.71 | 7,199.68 | 7,044.61 | 127.14 | 38.63 | 92.96 | 743.94 | -9,867.03 | 5,860.77 | 5,759.63 | 101.15 | 57.944 | | |
| 11,400.00 | 6,935.34 | 7,197.13 | 7,042.06 | 129.90 | 38.62 | 92.91 | 743.96 | -9,867.07 | 5,770.44 | 5,667.62 | 102.82 | 56.123 | | |
| 11,500.00 | 6,934.96 | 7,194.57 | 7,039.50 | 132.66 | 38.61 | 92.85 | 743.98 | -9,867.12 | 5,680.44 | 5,575.88 | 104.56 | 54.328 | | |
| 11,600.00 | 6,934.58 | 7,192.00 | 7,036.93 | 135.42 | 38.60 | 92.79 | 744.00 | -9,867.16 | 5,590.77 | 5,484.40 | 106.37 | 52.561 | | |
| 11,700.00 | 6,934.20 | 7,189.43 | 7,034.35 | 138.19 | 38.59 | 92.73 | 744.02 | -9,867.20 | 5,501.45 | 5,393.21 | 108.25 | 50.823 | | |
| 11,800.00 | 6,933.82 | 7,186.84 | 7,031.77 | 140.96 | 38.59 | 92.67 | 744.04 | -9,867.24 | 5,412.51 | 5,302.31 | 110.20 | 49.115 | | |
| 11,900.00 | 6,933.44 | 7,184.25 | 7,029.18 | 143.74 | 38.58 | 92.61 | 744.06 | -9,867.29 | 5,323.96 | 5,211.73 | 112.23 | 47.437 | | |
| 12,000.00 | 6,933.06 | 7,181.65 | 7,026.58 | 146.51 | 38.57 | 92.55 | 744.07 | -9,867.33 | 5,235.83 | 5,121.49 | 114.34 | 45.791 | | |
| 12,100.00 | 6,932.68 | 7,179.05 | 7,023.98 | 149.30 | 38.56 | 92.49 | 744.09 | -9,867.38 | 5,148.12 | 5,031.59 | 116.53 | 44.177 | | |
| 12,200.00 | 6,932.30 | 7,176.43 | 7,021.36 | 152.08 | 38.55 | 92.43 | 744.10 | -9,867.42 | 5,060.87 | 4,942.06 | 118.81 | 42.596 | | |
| 12,300.00 | 6,931.92 | 7,173.81 | 7,018.74 | 154.87 | 38.55 | 92.37 | 744.12 | -9,867.46 | 4,974.10 | 4,852.92 | 121.18 | 41.048 | | |
| 12,400.00 | 6,931.54 | 7,171.18 | 7,016.11 | 157.66 | 38.54 | 92.31 | 744.13 | -9,867.51 | 4,887.83 | 4,764.20 | 123.64 | 39.534 | | |
| 12,500.00 | 6,931.16 | 7,168.55 | 7,013.48 | 160.45 | 38.53 | 92.25 | 744.15 | -9,867.55 | 4,802.10 | 4,675.91 | 126.19 | 38.056 | | |
| 12,600.00 | 6,930.78 | 7,165.92 | 7,010.85 | 163.24 | 38.52 | 92.19 | 744.16 | -9,867.59 | 4,716.91 | 4,588.08 | 128.84 | 36.592 | | |
| 12,700.00 | 6,930.40 | 7,163.29 | 7,008.22 | 166.04 | 38.51 | 92.13 | 744.17 | -9,867.63 | 4,632.32 | 4,503.44 | 131.57 | 35.138 | | |
| 12,800.00 | 6,930.03 | 7,160.65 | 7,005.59 | 168.84 | 38.50 | 92.07 | 744.18 | -9,867.67 | 4,548.37 | 4,419.49 | 134.34 | 33.694 | | |
| 12,900.00 | 6,929.65 | 7,158.02 | 7,002.96 | 171.64 | 38.49 | 92.01 | 744.19 | -9,867.71 | 4,464.42 | 4,335.54 | 137.14 | 32.260 | | |
| 13,000.00 | 6,929.27 | 7,155.39 | 7,000.33 | 174.44 | 38.48 | 91.95 | 744.20 | -9,867.75 | 4,380.47 | 4,251.59 | 140.00 | 30.836 | | |
| 13,100.00 | 6,928.89 | 7,152.75 | 6,997.70 | 177.24 | 38.47 | 91.89 | 744.21 | -9,867.79 | 4,296.52 | 4,167.64 | 142.84 | 29.422 | | |
| 13,200.00 | 6,928.51 | 7,150.12 | 6,995.07 | 180.05 | 38.46 | 91.83 | 744.22 | -9,867.83 | 4,212.57 | 4,083.69 | 145.71 | 28.018 | | |
| 13,300.00 | 6,928.13 | 7,147.49 | 6,992.44 | 182.86 | 38.45 | 91.77 | 744.23 | -9,867.87 | 4,128.62 | 3,999.74 | 148.61 | 26.624 | | |
| 13,400.00 | 6,927.75 | 7,144.85 | 6,989.81 | 185.67 | 38.44 | 91.71 | 744.24 | -9,867.91 | 4,044.67 | 3,915.79 | 151.54 | 25.240 | | |
| 13,500.00 | 6,927.37 | 7,142.22 | 6,987.18 | 188.48 | 38.43 | 91.65 | 744.25 | -9,867.95 | 3,960.72 | 3,831.84 | 154.50 | 23.866 | | |
| 13,600.00 | 6,926.99 | 7,139.59 | 6,984.55 | 191.29 | 38.42 | 91.59 | 744.26 | -9,868.00 | 3,876.77 | 3,747.89 | 157.49 | 22.502 | | |
| 13,700.00 | 6,926.61 | 7,136.95 | 6,981.92 | 194.10 | 38.41 | 91.53 | 744.27 | -9,868.04 | 3,792.82 | 3,663.94 | 160.50 | 21.148 | | |
| 13,800.00 | 6,926.23 | 7,134.32 | 6,979.29 | 196.92 | 38.40 | 91.47 | 744.28 | -9,868.08 | 3,708.87 | 3,580.00 | 163.53 | 19.804 | | |
| 13,900.00 | 6,925.85 | 7,131.69 | 6,976.66 | 199.73 | 38.39 | 91.41 | 744.29 | -9,868.12 | 3,624.92 | 3,496.05 | 166.59 | 18.470 | | |
| 14,000.00 | 6,925.47 | 7,129.05 | 6,974.03 | 202.55 | 38.38 | 91.35 | 744.30 | -9,868.16 | 3,540.97 | 3,412.10 | 169.66 | 17.146 | | |
| 14,100.00 | 6,925.09 | 7,126.42 | 6,971.40 | 205.37 | 38.37 | 91.29 | 744.31 | -9,868.20 | 3,457.02 | 3,328.15 | 172.76 | 15.832 | | |
| 14,200.00 | 6,924.71 | 7,123.79 | 6,968.77 | 208.19 | 38.36 | 91.23 | 744.32 | -9,868.24 | 3,373.07 | 3,244.20 | 175.87 | 14.528 | | |
| 14,300.00 | 6,924.34 | 7,121.15 | 6,966.14 | 211.01 | 38.35 | 91.17 | 744.33 | -9,868.28 | 3,289.12 | 3,160.25 | 178.99 | 13.234 | | |
| 14,400.00 | 6,923.96 | 7,118.52 | 6,963.51 | 213.83 | 38.34 | 91.11 | 744.34 | -9,868.32 | 3,205.17 | 3,076.30 | 182.13 | 11.950 | | |
| 14,500.00 | 6,923.58 | 7,115.89 | 6,960.88 | 216.65 | 38.33 | 91.05 | 744.35 | -9,868.36 | 3,121.22 | 2,992.35 | 185.28 | 10.676 | | |
| 14,600.00 | 6,923.20 | 7,113.25 | 6,958.25 | 219.48 | 38.32 | 90.99 | 744.36 | -9,868.40 | 3,037.27 | 2,908.40 | 188.44 | 9.412 | | |
| 14,700.00 | 6,922.82 | 7,110.62 | 6,955.62 | 222.30 | 38.31 | 90.93 | 744.37 | -9,868.44 | 2,953.32 | 2,824.45 | 191.61 | 8.158 | | |
| 14,800.00 | 6,922.44 | 7,108.00 | 6,952.99 | 225.13 | 38.30 | 90.87 | 744.38 | -9,868.48 | 2,869.37 | 2,740.50 | 194.79 | 6.914 | | |
| 14,900.00 | 6,922.06 | 7,105.36 | 6,950.36 | 227.95 | 38.29 | 90.81 | 744.39 | -9,868.52 | 2,785.42 | 2,656.55 | 197.98 | 5.680 | | |
| 14,915.55 | 6,922.00 | 7,101.07 | 6,946.01 | 228.39 | 38.31 | 90.70 | 744.33 | -9,868.59 | 3,010.90 | 2,786.24 | 224.66 | 13.402 CC, ES, SF | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

Reference Depths are relative to KB @ 4820.00ft

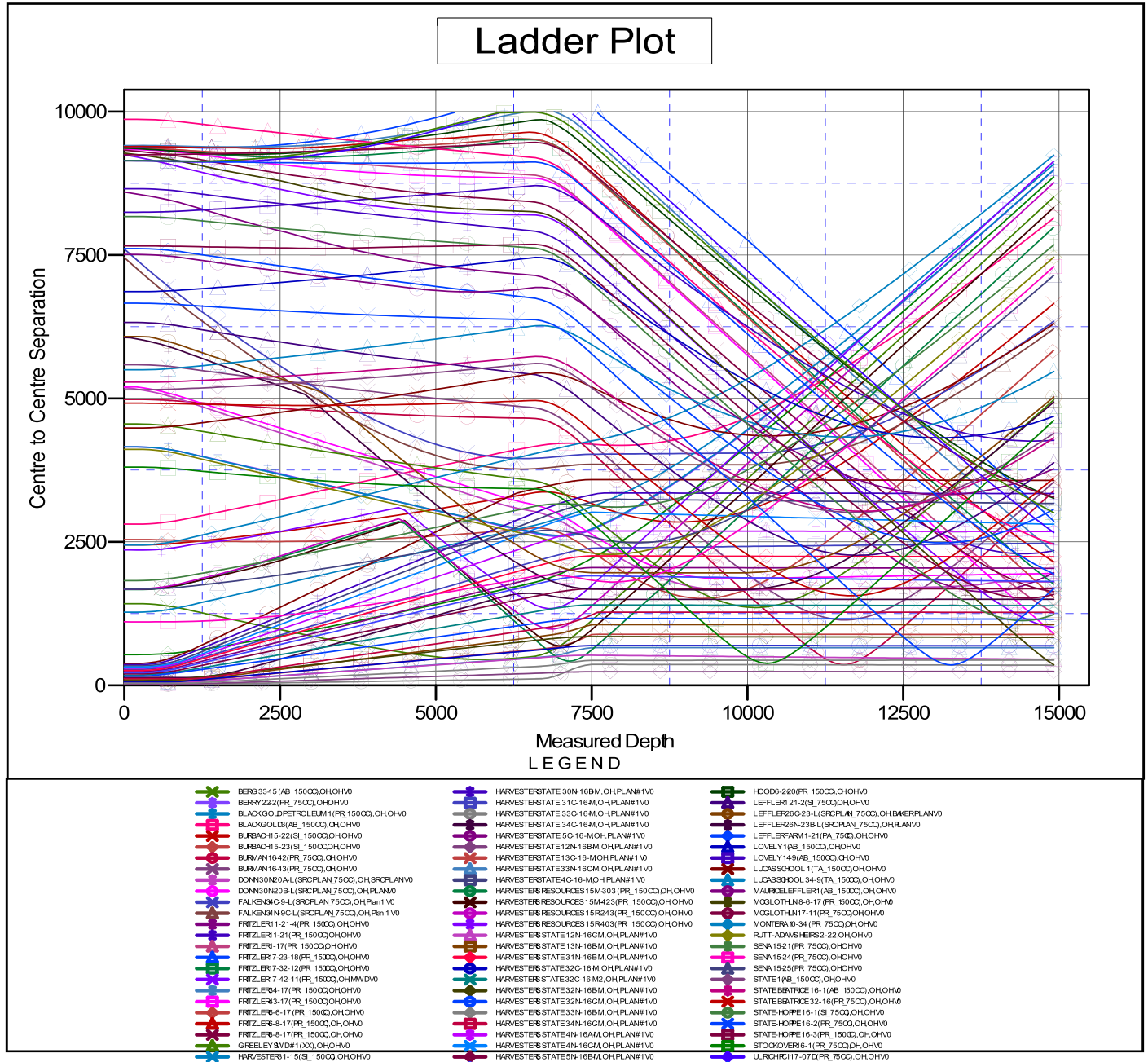
Offset Depths are relative to Offset Datum

Central Meridian is -105.5000000

Coordinates are relative to: HARVESTERS STATE 12N-16A-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.48°



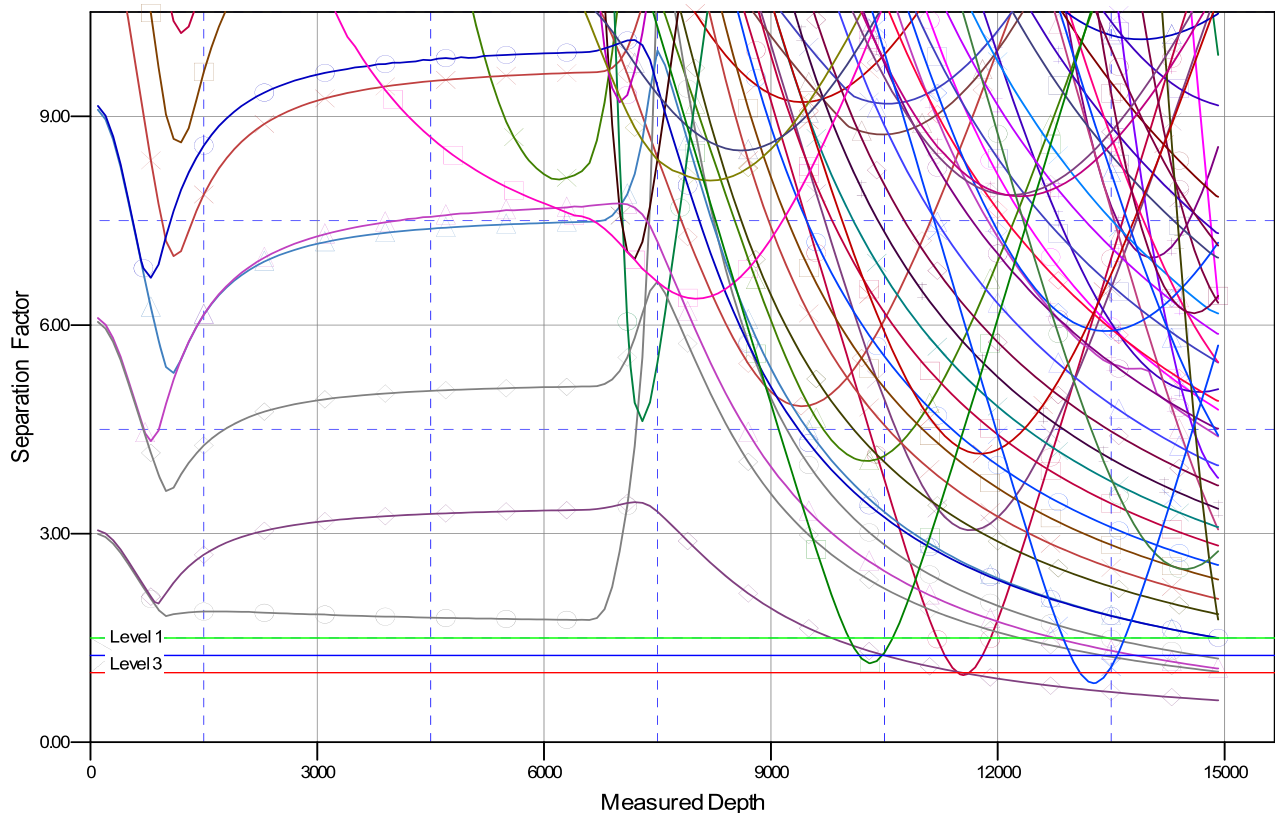
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------------|
| Company: | SRC ENERGY | Local Co-ordinate Reference: | Well HARVESTERS STATE 12N-16A-M |
| Project: | SECTION 15, T6N, R66W | TVD Reference: | KB @ 4820.00ft |
| Reference Site: | HARVESTERS STATE 7-15 PAD | MD Reference: | KB @ 4820.00ft |
| Site Error: | 3.28 ft | North Reference: | True |
| Reference Well: | HARVESTERS STATE 12N-16A-M | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.28 ft | Output errors are at | 2.45 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.14 Single User Db |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Reference Datum |

Reference Depths are relative to KB @ 4820.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.5000000

Coordinates are relative to: HARVESTERS STATE 12N-16A-M
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.48°

Separation Factor Plot



LEGEND

| | | |
|---|--|---|
| BERG 33-15 (AB, 1500Q, OH, OHV0) | HARVESTERSTATE 30N-16BM, OH, PLAN#1V0 | H006-220 (PR, 1500Q, OH, OHV0) |
| BERRY 22-1 (PR, 750Q, OH, OHV0) | HARVESTERSTATE 31C-16M, OH, PLAN#1V0 | LEFFLER 21-2 (SL, 750Q, OH, OHV0) |
| BLACK GOLD PETROLEUM 1 (PR, 1500Q, OH, OHV0) | HARVESTERSTATE 32C-16M, OH, PLAN#1V0 | LEFFLER 26-23-L (SRC, PLAN, 750Q, OH, PLANV0) |
| BLACK GOLD (AB, 1500Q, OH, OHV0) | HARVESTERSTATE 34C-16M, OH, PLAN#1V0 | LEFFLER 26N-23B-L (SRC, PLAN, 750Q, OH, PLANV0) |
| BURBACH 15-22 (SL, 1500Q, OH, OHV0) | HARVESTERSTATE 3C-16-M, OH, PLAN#1V0 | LOVELY 1 (AB, 1500Q, OH, OHV0) |
| BURBACH 15-23 (SL, 1500Q, OH, OHV0) | HARVESTERSTATE 12N-16BM, OH, PLAN#1V0 | LOVELY 149 (AB, 1500Q, OH, OHV0) |
| BURMAN 16-42 (PR, 750Q, OH, OHV0) | HARVESTERSTATE 13C-16-M, OH, PLAN#1V0 | LOVELY 149 (AB, 1500Q, OH, OHV0) |
| BURMAN 16-43 (PR, 750Q, OH, OHV0) | HARVESTERSTATE 33N-16CM, OH, PLAN#1V0 | LUCAS SCHOOL 1 (TA, 1500Q, OH, OHV0) |
| DOHN 02-02-01 (SRC, PLAN, 750Q, OH, PLANV0) | HARVESTERSTATE 4C-16-M, OH, PLAN#1V0 | LUCAS SCHOOL 34-9 (TA, 1500Q, OH, OHV0) |
| DOHN 02-02-01-L (SRC, PLAN, 750Q, OH, PLANV0) | HARVESTER RESOURCES 15M303 (PR, 1500Q, OH, OHV0) | MAIRCE LEFFLER 1 (AB, 1500Q, OH, OHV0) |
| FALKEN 31-9-L (SRC, PLAN, 750Q, OH, PLANV0) | HARVESTER RESOURCES 15M423 (PR, 1500Q, OH, OHV0) | MOGLOTHUN 6-17 (PR, 600Q, OH, OHV0) |
| FALKEN 31-9-L (SRC, PLAN, 750Q, OH, PLANV0) | HARVESTER RESOURCES 15R243 (PR, 1500Q, OH, OHV0) | MOGLOTHUN 17-11 (PR, 750Q, OH, OHV0) |
| FITZLER 11-21-4 (PR, 1500Q, OH, OHV0) | HARVESTER RESOURCES 15R403 (PR, 1500Q, OH, OHV0) | MONTEWA 10-34 (PR, 750Q, OH, OHV0) |
| FITZLER 11-21 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 12N-16CM, OH, PLAN#1V0 | RUTT-ADAMS HERS 2-22 (OH, OHV0) |
| FITZLER 16-17 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 13N-16BM, OH, PLAN#1V0 | SENA 15-21 (PR, 750Q, OH, OHV0) |
| FITZLER 17-22-16 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 31N-16BM, OH, PLAN#1V0 | SENA 15-24 (PR, 750Q, OH, OHV0) |
| FITZLER 17-32-12 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 32C-16M, OH, PLAN#1V0 | SENA 15-25 (PR, 750Q, OH, OHV0) |
| FITZLER 17-42-11 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 32C-16M2, OH, PLAN#1V0 | STATE 1 (AB, 1500Q, OH, OHV0) |
| FITZLER 18-17 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 32N-16BM, OH, PLAN#1V0 | STATEBATRICE 16-11 (AB, 1500Q, OH, OHV0) |
| FITZLER 18-17 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 32N-16BM, OH, PLAN#1V0 | STATEBATRICE 32-16 (PR, 750Q, OH, OHV0) |
| FITZLER 18-17 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 33N-16BM, OH, PLAN#1V0 | STATE HOPE 16-1 (SL, 750Q, OH, OHV0) |
| FITZLER 18-17 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 34N-16CM, OH, PLAN#1V0 | STATE HOPE 16-2 (PR, 750Q, OH, OHV0) |
| FITZLER 18-17 (PR, 1500Q, OH, OHV0) | HARVESTER STATE 4N-16AM, OH, PLAN#1V0 | STATE HOPE 16-3 (PR, 1500Q, OH, OHV0) |
| GRIFFIN 30-1 (OH, OHV0) | HARVESTER STATE 4N-16CM, OH, PLAN#1V0 | STOCKOVER 6-11 (PR, 750Q, OH, OHV0) |
| HARVESTER 11-15 (SL, 1500Q, OH, OHV0) | HARVESTER STATE 5N-16BM, OH, PLAN#1V0 | ULRICH 11-7-07 (PR, 750Q, OH, OHV0) |