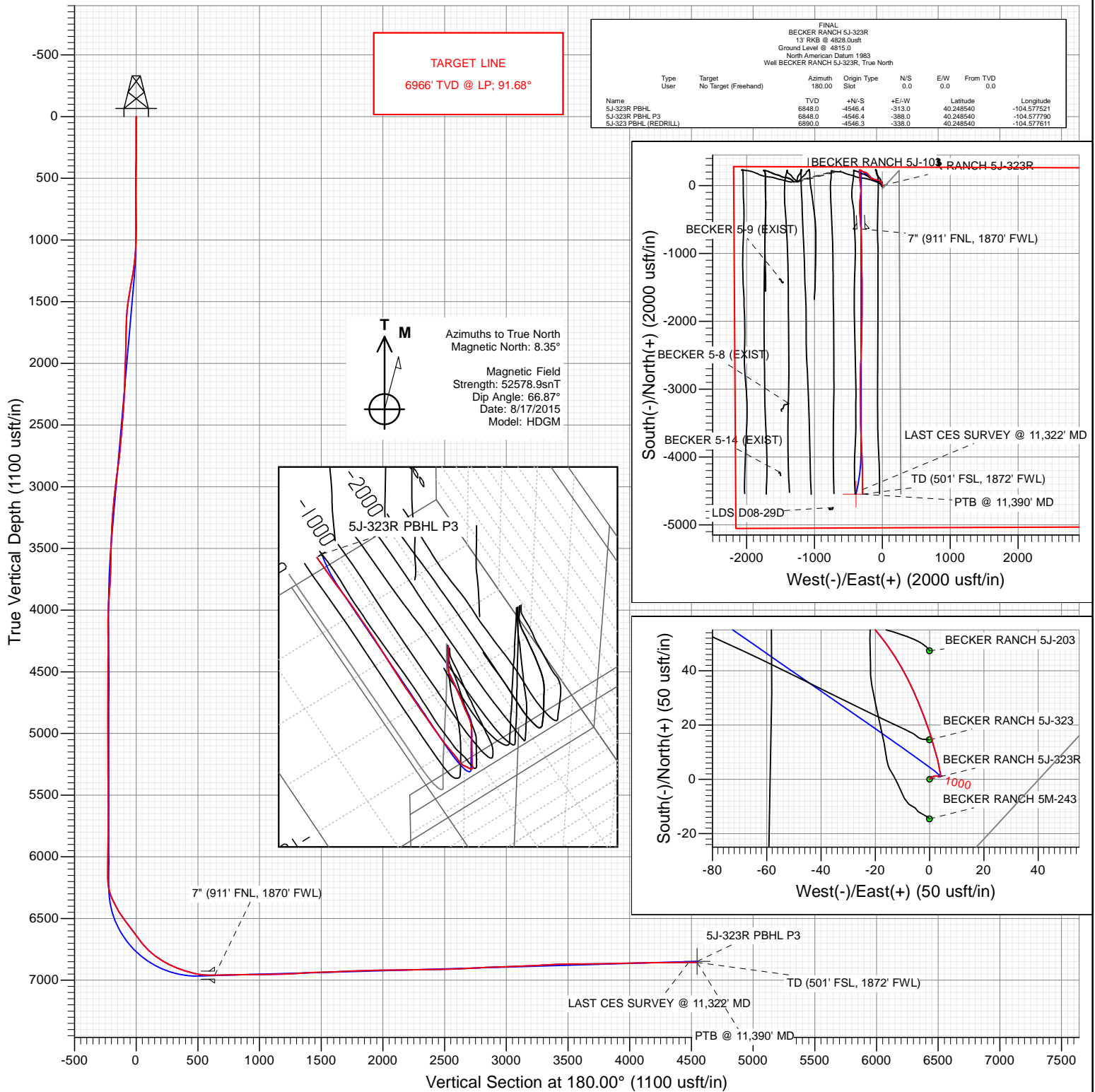




Petroleum Development Corporation

Project: Weld County
Site: S5-T3N-R64W
Well: BECKER RANCH 5J-323R
Wellbore: OH
Design: FINAL



WELL DETAILS: BECKER RANCH 5J-323R

Ground Level: 4815.0
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 1339273.46 3257754.84 40.261020 -104.576400



Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------|
| Company: | Petroleum Development Corp. | Local Co-ordinate Reference: | Well BECKER RANCH 5J-323R |
| Project: | Weld County | TVD Reference: | 13' RKB @ 4828.0usft |
| Site: | S5-T3N-R64W | MD Reference: | 13' RKB @ 4828.0usft |
| Well: | BECKER RANCH 5J-323R | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | SURVEYS | Database: | USA EDM 5000 Multi Users DB |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Weld County | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|-----------------------|--|--------------|--|-------------------|--|
| Site | | S5-T3N-R64W | | | |
| Site Position: | | Northing: | | 1,339,314.55 usft | |
| From: | | Easting: | | 3,256,448.24 usft | |
| Position Uncertainty: | | Slot Radius: | | Grid Convergence: | |
| Lat/Long | | 0.0 usft | | 13-3/16 " | |
| | | | | 40.261170 | |
| | | | | -104.581080 | |
| | | | | 0.59 ° | |

| Well | | BECKER RANCH 5J-323R | | | | |
|----------------------|-------|----------------------|---------------------|-------------------|---------------|--------------|
| Well Position | +N/-S | 0.0 usft | Northing: | 1,339,273.46 usft | Latitude: | 40.261020 |
| | +E/-W | 0.0 usft | Easting: | 3,257,754.84 usft | Longitude: | -104.576400 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 0.0 usft | Ground Level: | 4,815.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 8/17/2015 | 8.35 | 66.87 | 52,579 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| Design | SURVEYS | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 180.00 | |

| | | | | | |
|-----------------------|------------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 9/9/2015 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 157.0 | 11,390.0 | Survey #1 (OH) | MWD+HDGM | OWSG MWD + HDGM | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|----------------------------|------------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | | |
| 157.0 | 0.20 | 12.80 | 157.0 | 0.3 | 0.1 | -0.3 | 0.13 | 0.13 | | |
| 249.0 | 0.10 | 110.00 | 249.0 | 0.4 | 0.2 | -0.4 | 0.25 | -0.11 | | |
| 341.0 | 0.20 | 58.30 | 341.0 | 0.5 | 0.4 | -0.5 | 0.17 | 0.11 | | |
| 434.0 | 0.20 | 358.80 | 434.0 | 0.7 | 0.5 | -0.7 | 0.21 | 0.00 | | |
| 526.0 | 0.10 | 109.30 | 526.0 | 0.8 | 0.6 | -0.8 | 0.27 | -0.11 | | |
| 618.0 | 0.40 | 79.50 | 618.0 | 0.9 | 1.0 | -0.9 | 0.34 | 0.33 | | |
| 711.0 | 0.10 | 53.70 | 711.0 | 1.0 | 1.4 | -1.0 | 0.34 | -0.32 | | |
| 803.0 | 0.50 | 61.30 | 803.0 | 1.2 | 1.8 | -1.2 | 0.44 | 0.43 | | |
| 873.0 | 0.80 | 101.10 | 873.0 | 1.3 | 2.5 | -1.3 | 0.75 | 0.43 | | |
| 926.0 | 0.90 | 113.80 | 926.0 | 1.0 | 3.3 | -1.0 | 0.40 | 0.19 | | |
| 1,021.0 | 1.40 | 3.10 | 1,021.0 | 1.9 | 4.0 | -1.9 | 2.01 | 0.53 | | |
| 1,113.0 | 5.20 | 345.60 | 1,112.8 | 7.0 | 3.0 | -7.0 | 4.23 | 4.13 | | |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------|
| Company: | Petroleum Development Corp. | Local Co-ordinate Reference: | Well BECKER RANCH 5J-323R |
| Project: | Weld County | TVD Reference: | 13' RKB @ 4828.0usft |
| Site: | S5-T3N-R64W | MD Reference: | 13' RKB @ 4828.0usft |
| Well: | BECKER RANCH 5J-323R | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | SURVEYS | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|---------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments |
| 1,206.0 | 7.20 | 342.10 | 1,205.3 | 16.7 | 0.2 | -16.7 | 2.19 | 2.15 | |
| 1,298.0 | 11.00 | 337.50 | 1,296.1 | 30.3 | -4.9 | -30.3 | 4.20 | 4.13 | |
| 1,391.0 | 11.80 | 326.60 | 1,387.3 | 46.4 | -13.6 | -46.4 | 2.47 | 0.86 | |
| 1,482.0 | 12.40 | 316.80 | 1,476.2 | 61.3 | -25.4 | -61.3 | 2.35 | 0.66 | |
| 1,575.0 | 10.40 | 303.60 | 1,567.4 | 73.2 | -39.2 | -73.2 | 3.52 | -2.15 | |
| 1,667.0 | 7.70 | 285.90 | 1,658.3 | 79.5 | -52.1 | -79.5 | 4.18 | -2.93 | |
| 1,759.0 | 6.50 | 271.90 | 1,749.6 | 81.4 | -63.2 | -81.4 | 2.28 | -1.30 | |
| 1,851.0 | 7.50 | 280.80 | 1,840.9 | 82.7 | -74.3 | -82.7 | 1.60 | 1.09 | |
| 1,943.0 | 8.40 | 287.30 | 1,932.0 | 85.8 | -86.6 | -85.8 | 1.38 | 0.98 | |
| 2,036.0 | 8.00 | 281.20 | 2,024.1 | 89.1 | -99.4 | -89.1 | 1.03 | -0.43 | |
| 2,128.0 | 9.40 | 279.70 | 2,115.0 | 91.6 | -113.1 | -91.6 | 1.54 | 1.52 | |
| 2,221.0 | 7.30 | 285.30 | 2,207.0 | 94.4 | -126.3 | -94.4 | 2.42 | -2.26 | |
| 2,313.0 | 8.40 | 291.00 | 2,298.2 | 98.4 | -138.2 | -98.4 | 1.46 | 1.20 | |
| 2,405.0 | 7.40 | 303.40 | 2,389.3 | 104.0 | -149.4 | -104.0 | 2.14 | -1.09 | |
| 2,497.0 | 8.00 | 313.30 | 2,480.5 | 111.7 | -159.0 | -111.7 | 1.58 | 0.65 | |
| 2,590.0 | 7.20 | 310.00 | 2,572.6 | 119.9 | -168.2 | -119.9 | 0.98 | -0.86 | |
| 2,682.0 | 7.70 | 307.60 | 2,663.9 | 127.4 | -177.5 | -127.4 | 0.64 | 0.54 | |
| 2,774.0 | 9.00 | 321.30 | 2,754.9 | 136.7 | -186.9 | -136.7 | 2.57 | 1.41 | |
| 2,867.0 | 9.30 | 323.40 | 2,846.7 | 148.4 | -195.9 | -148.4 | 0.48 | 0.32 | |
| 2,963.0 | 9.10 | 322.40 | 2,941.5 | 160.7 | -205.2 | -160.7 | 0.27 | -0.21 | |
| 3,058.0 | 8.40 | 319.10 | 3,035.4 | 171.9 | -214.3 | -171.9 | 0.91 | -0.74 | |
| 3,153.0 | 9.70 | 307.80 | 3,129.2 | 182.0 | -225.2 | -182.0 | 2.31 | 1.37 | |
| 3,249.0 | 8.10 | 300.30 | 3,224.0 | 190.4 | -237.4 | -190.4 | 2.06 | -1.67 | |
| 3,344.0 | 8.60 | 288.40 | 3,318.0 | 196.0 | -249.9 | -196.0 | 1.89 | 0.53 | |
| 3,440.0 | 7.60 | 285.10 | 3,413.1 | 199.9 | -262.9 | -199.9 | 1.15 | -1.04 | |
| 3,535.0 | 7.10 | 286.20 | 3,507.3 | 203.2 | -274.6 | -203.2 | 0.55 | -0.53 | |
| 3,631.0 | 6.00 | 283.00 | 3,602.7 | 206.0 | -285.2 | -206.0 | 1.21 | -1.15 | |
| 3,726.0 | 5.10 | 284.50 | 3,697.2 | 208.2 | -294.1 | -208.2 | 0.96 | -0.95 | |
| 3,822.0 | 5.10 | 325.10 | 3,792.9 | 212.7 | -300.7 | -212.7 | 3.68 | 0.00 | |
| 3,917.0 | 5.40 | 324.30 | 3,887.5 | 219.8 | -305.7 | -219.8 | 0.33 | 0.32 | |
| 4,012.0 | 3.30 | 316.50 | 3,982.2 | 225.4 | -310.2 | -225.4 | 2.29 | -2.21 | |
| 4,108.0 | 0.80 | 262.70 | 4,078.1 | 227.4 | -312.7 | -227.4 | 3.02 | -2.60 | |
| 4,203.0 | 0.70 | 264.10 | 4,173.1 | 227.2 | -314.0 | -227.2 | 0.11 | -0.11 | |
| 4,299.0 | 1.10 | 264.30 | 4,269.1 | 227.1 | -315.5 | -227.1 | 0.42 | 0.42 | |
| 4,394.0 | 2.00 | 274.20 | 4,364.1 | 227.1 | -318.0 | -227.1 | 0.98 | 0.95 | |
| 4,490.0 | 0.60 | 59.10 | 4,460.1 | 227.5 | -319.3 | -227.5 | 2.62 | -1.46 | |
| 4,585.0 | 0.50 | 64.40 | 4,555.1 | 227.9 | -318.5 | -227.9 | 0.12 | -0.11 | |
| 4,680.0 | 0.20 | 2.40 | 4,650.1 | 228.3 | -318.1 | -228.3 | 0.47 | -0.32 | |
| 4,776.0 | 0.10 | 341.70 | 4,746.1 | 228.5 | -318.1 | -228.5 | 0.12 | -0.10 | |
| 4,871.0 | 0.20 | 3.40 | 4,841.1 | 228.8 | -318.1 | -228.8 | 0.12 | 0.11 | |
| 4,967.0 | 0.20 | 238.50 | 4,937.1 | 228.8 | -318.3 | -228.8 | 0.37 | 0.00 | |
| 5,062.0 | 0.60 | 243.80 | 5,032.1 | 228.5 | -318.9 | -228.5 | 0.42 | 0.42 | |
| 5,158.0 | 0.80 | 263.80 | 5,128.1 | 228.2 | -320.0 | -228.2 | 0.33 | 0.21 | |
| 5,253.0 | 0.70 | 238.60 | 5,223.0 | 227.9 | -321.1 | -227.9 | 0.36 | -0.11 | |
| 5,348.0 | 0.70 | 244.50 | 5,318.0 | 227.3 | -322.2 | -227.3 | 0.08 | 0.00 | |
| 5,444.0 | 0.70 | 241.80 | 5,414.0 | 226.8 | -323.2 | -226.8 | 0.03 | 0.00 | |
| 5,539.0 | 0.90 | 245.10 | 5,509.0 | 226.2 | -324.4 | -226.2 | 0.22 | 0.21 | |
| 5,635.0 | 1.20 | 271.40 | 5,605.0 | 225.9 | -326.1 | -225.9 | 0.58 | 0.31 | |
| 5,730.0 | 0.80 | 299.40 | 5,700.0 | 226.2 | -327.6 | -226.2 | 0.65 | -0.42 | |
| 5,826.0 | 0.60 | 294.80 | 5,796.0 | 226.8 | -328.7 | -226.8 | 0.22 | -0.21 | |
| 5,921.0 | 1.10 | 301.10 | 5,891.0 | 227.5 | -329.9 | -227.5 | 0.53 | 0.53 | |
| 6,016.0 | 1.70 | 306.20 | 5,985.9 | 228.8 | -331.8 | -228.8 | 0.64 | 0.63 | |
| 6,112.0 | 2.10 | 292.00 | 6,081.9 | 230.3 | -334.6 | -230.3 | 0.64 | 0.42 | |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------|
| Company: | Petroleum Development Corp. | Local Co-ordinate Reference: | Well BECKER RANCH 5J-323R |
| Project: | Weld County | TVD Reference: | 13' RKB @ 4828.0usft |
| Site: | S5-T3N-R64W | MD Reference: | 13' RKB @ 4828.0usft |
| Well: | BECKER RANCH 5J-323R | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | SURVEYS | Database: | USA EDM 5000 Multi Users DB |

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|---------------------|-----------------------|
| 6,207.0 | 1.20 | 211.50 | 6,176.9 | 230.1 | -336.8 | -230.1 | 2.36 | -0.95 | |
| 6,254.0 | 6.20 | 180.40 | 6,223.8 | 227.1 | -337.0 | -227.1 | 11.08 | 10.64 | |
| 6,303.0 | 14.30 | 177.90 | 6,271.9 | 218.4 | -336.8 | -218.4 | 16.55 | 16.53 | |
| 6,350.0 | 21.00 | 180.10 | 6,316.7 | 204.2 | -336.6 | -204.2 | 14.32 | 14.26 | |
| 6,398.0 | 25.10 | 180.30 | 6,360.9 | 185.4 | -336.7 | -185.4 | 8.54 | 8.54 | |
| 6,493.0 | 31.40 | 177.50 | 6,444.5 | 140.5 | -335.7 | -140.5 | 6.78 | 6.63 | |
| 6,589.0 | 38.40 | 174.10 | 6,523.2 | 85.7 | -331.6 | -85.7 | 7.57 | 7.29 | |
| 6,684.0 | 36.60 | 171.50 | 6,598.6 | 28.4 | -324.3 | -28.4 | 2.52 | -1.89 | |
| 6,780.0 | 37.00 | 174.00 | 6,675.4 | -28.7 | -317.1 | 28.7 | 1.61 | 0.42 | |
| 6,875.0 | 44.20 | 182.90 | 6,747.6 | -90.3 | -315.8 | 90.3 | 9.71 | 7.58 | |
| 6,970.0 | 54.80 | 186.80 | 6,809.2 | -162.1 | -322.1 | 162.1 | 11.58 | 11.16 | |
| 7,066.0 | 61.50 | 183.90 | 6,859.8 | -243.3 | -329.6 | 243.3 | 7.43 | 6.98 | |
| 7,161.0 | 68.20 | 180.00 | 6,900.2 | -329.1 | -332.4 | 329.1 | 7.97 | 7.05 | |
| 7,256.0 | 73.80 | 176.40 | 6,931.1 | -418.9 | -329.6 | 418.9 | 6.90 | 5.89 | |
| 7,303.0 | 76.60 | 176.10 | 6,943.1 | -464.2 | -326.6 | 464.2 | 5.99 | 5.96 | |
| 7,352.0 | 80.20 | 175.70 | 6,953.0 | -512.1 | -323.2 | 512.1 | 7.39 | 7.35 | |
| 7,399.0 | 87.20 | 175.20 | 6,958.1 | -558.6 | -319.4 | 558.6 | 14.93 | 14.89 | |
| 7,437.0 | 89.30 | 175.20 | 6,959.3 | -596.5 | -316.3 | 596.5 | 5.53 | 5.53 | |
| 7,487.0 | 90.50 | 177.80 | 6,959.4 | -646.4 | -313.2 | 646.4 | 5.73 | 2.40 | |
| 7,583.0 | 91.20 | 179.20 | 6,958.0 | -742.3 | -310.7 | 742.3 | 1.63 | 0.73 | |
| 7,678.0 | 91.70 | 178.60 | 6,955.6 | -837.3 | -308.9 | 837.3 | 0.82 | 0.53 | |
| 7,774.0 | 90.20 | 178.70 | 6,954.0 | -933.2 | -306.6 | 933.2 | 1.57 | -1.56 | |
| 7,869.0 | 90.20 | 180.30 | 6,953.6 | -1,028.2 | -305.8 | 1,028.2 | 1.68 | 0.00 | |
| 7,964.0 | 90.90 | 179.40 | 6,952.7 | -1,123.2 | -305.5 | 1,123.2 | 1.20 | 0.74 | |
| 8,060.0 | 92.20 | 178.30 | 6,950.1 | -1,219.2 | -303.6 | 1,219.2 | 1.77 | 1.35 | |
| 8,155.0 | 94.70 | 178.10 | 6,944.4 | -1,313.9 | -300.6 | 1,313.9 | 2.64 | 2.63 | |
| 8,251.0 | 92.30 | 179.90 | 6,938.6 | -1,409.7 | -299.0 | 1,409.7 | 3.12 | -2.50 | |
| 8,346.0 | 91.20 | 181.30 | 6,935.6 | -1,504.7 | -300.0 | 1,504.7 | 1.87 | -1.16 | |
| 8,442.0 | 92.40 | 179.20 | 6,932.6 | -1,600.6 | -300.4 | 1,600.6 | 2.52 | 1.25 | |
| 8,537.0 | 92.50 | 178.30 | 6,928.6 | -1,695.5 | -298.3 | 1,695.5 | 0.95 | 0.11 | |
| 8,632.0 | 92.60 | 179.50 | 6,924.3 | -1,790.4 | -296.5 | 1,790.4 | 1.27 | 0.11 | |
| 8,728.0 | 91.30 | 180.70 | 6,921.1 | -1,886.3 | -296.7 | 1,886.3 | 1.84 | -1.35 | |
| 8,823.0 | 90.80 | 182.70 | 6,919.3 | -1,981.3 | -299.5 | 1,981.3 | 2.17 | -0.53 | |
| 8,919.0 | 90.90 | 181.90 | 6,917.9 | -2,077.2 | -303.3 | 2,077.2 | 0.84 | 0.10 | |
| 9,014.0 | 90.60 | 180.80 | 6,916.7 | -2,172.1 | -305.6 | 2,172.1 | 1.20 | -0.32 | |
| 9,110.0 | 90.80 | 181.80 | 6,915.5 | -2,268.1 | -307.7 | 2,268.1 | 1.06 | 0.21 | |
| 9,205.0 | 90.90 | 180.80 | 6,914.1 | -2,363.1 | -309.9 | 2,363.1 | 1.06 | 0.11 | |
| 9,300.0 | 91.20 | 182.10 | 6,912.3 | -2,458.0 | -312.3 | 2,458.0 | 1.40 | 0.32 | |
| 9,396.0 | 92.40 | 181.80 | 6,909.3 | -2,553.9 | -315.6 | 2,553.9 | 1.29 | 1.25 | |
| 9,491.0 | 91.90 | 181.80 | 6,905.8 | -2,648.8 | -318.6 | 2,648.8 | 0.53 | -0.53 | |
| 9,587.0 | 93.40 | 181.90 | 6,901.3 | -2,744.7 | -321.6 | 2,744.7 | 1.57 | 1.56 | |
| 9,682.0 | 92.40 | 180.80 | 6,896.5 | -2,839.5 | -323.9 | 2,839.5 | 1.56 | -1.05 | |
| 9,777.0 | 91.60 | 179.90 | 6,893.2 | -2,934.4 | -324.5 | 2,934.4 | 1.27 | -0.84 | |
| 9,873.0 | 92.40 | 179.40 | 6,889.9 | -3,030.4 | -323.9 | 3,030.4 | 0.98 | 0.83 | |
| 9,968.0 | 92.40 | 178.20 | 6,885.9 | -3,125.3 | -321.9 | 3,125.3 | 1.26 | 0.00 | |
| 10,064.0 | 92.30 | 180.00 | 6,881.9 | -3,221.2 | -320.4 | 3,221.2 | 1.88 | -0.10 | |
| 10,159.0 | 94.10 | 179.50 | 6,876.6 | -3,316.0 | -320.0 | 3,316.0 | 1.97 | 1.89 | |
| 10,255.0 | 92.70 | 179.90 | 6,870.9 | -3,411.8 | -319.5 | 3,411.8 | 1.52 | -1.46 | |
| 10,350.0 | 90.00 | 178.90 | 6,868.7 | -3,506.8 | -318.5 | 3,506.8 | 3.03 | -2.84 | |
| 10,446.0 | 90.40 | 178.50 | 6,868.4 | -3,602.8 | -316.3 | 3,602.8 | 0.59 | 0.42 | |
| 10,541.0 | 90.40 | 177.90 | 6,867.7 | -3,697.7 | -313.3 | 3,697.7 | 0.63 | 0.00 | |
| 10,636.0 | 91.20 | 177.70 | 6,866.4 | -3,792.7 | -309.7 | 3,792.7 | 0.87 | 0.84 | |
| 10,732.0 | 91.30 | 177.60 | 6,864.3 | -3,888.5 | -305.7 | 3,888.5 | 0.15 | 0.10 | |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------|
| Company: | Petroleum Development Corp. | Local Co-ordinate Reference: | Well BECKER RANCH 5J-323R |
| Project: | Weld County | TVD Reference: | 13' RKB @ 4828.0usft |
| Site: | S5-T3N-R64W | MD Reference: | 13' RKB @ 4828.0usft |
| Well: | BECKER RANCH 5J-323R | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | SURVEYS | Database: | USA EDM 5000 Multi Users DB |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|---------------------|---|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100u) | Formations / Comments |
| 10,827.0 | 91.00 | 176.30 | 6,862.4 | -3,983.4 | -300.7 | 3,983.4 | 1.40 | -0.32 | |
| 10,922.0 | 91.70 | 178.20 | 6,860.1 | -4,078.3 | -296.1 | 4,078.3 | 2.13 | 0.74 | |
| 11,018.0 | 90.30 | 179.60 | 6,858.5 | -4,174.2 | -294.3 | 4,174.2 | 2.06 | -1.46 | |
| 11,113.0 | 90.40 | 179.20 | 6,857.9 | -4,269.2 | -293.3 | 4,269.2 | 0.43 | 0.11 | |
| 11,208.0 | 90.70 | 179.40 | 6,857.0 | -4,364.2 | -292.1 | 4,364.2 | 0.38 | 0.32 | |
| 11,322.0 | 90.30 | 179.20 | 6,856.0 | -4,478.2 | -290.7 | 4,478.2 | 0.39 | -0.35 | LAST CES SURVEY @ 11,322' MD |
| 11,390.0 | 90.30 | 179.20 | 6,855.6 | -4,546.2 | -289.8 | 4,546.2 | 0.00 | 0.00 | PTB @ 11,390' MD - TD (501' FSL, 1872' FWL) |

| Targets | | | | | | | | | |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| 5J-323 PBHL (REDRILL - survey misses target center by 59.2usft at 11389.2usft MD (6855.6 TVD, -4545.4 N, -289.8 E) - Point | 0.00 | 0.00 | 6,890.0 | -4,546.3 | -338.0 | 1,334,723.91 | 3,257,464.18 | 40.248540 | -104.577611 |
| 5J-323R PBHL - survey misses target center by 24.4usft at 11389.9usft MD (6855.6 TVD, -4546.1 N, -289.8 E) - Point | 0.00 | 0.00 | 6,848.0 | -4,546.4 | -313.0 | 1,334,724.05 | 3,257,489.21 | 40.248540 | -104.577521 |
| 5J-323R PBHL P3 - survey misses target center by 98.5usft at 11388.9usft MD (6855.6 TVD, -4545.1 N, -289.8 E) - Point | 0.00 | 0.00 | 6,848.0 | -4,546.4 | -388.0 | 1,334,723.26 | 3,257,414.22 | 40.248540 | -104.577790 |

| Casing Points | | | | |
|-----------------------|-----------------------|--------------------------|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
| 7,477.7 | 6,959.5 | 7" (911' FNL, 1870' FWL) | 0 | 0 |

| Survey Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 11,322.0 | 6,856.0 | -4,478.2 | -290.7 | LAST CES SURVEY @ 11,322' MD |
| 11,390.0 | 6,855.6 | -4,546.2 | -289.8 | PTB @ 11,390' MD |
| 11,390.0 | 6,855.6 | -4,546.2 | -289.8 | TD (501' FSL, 1872' FWL) |

Checked By: _____ Approved By: _____ Date: _____