



# **SRC ENERGY**

**SECTION 15, T6N, R66W  
HARVESTERS STATE 7-15 PAD  
HARVESTERS STATE 5C-16-M**

**OH  
PLAN #1**

## **Anticollision Report**

**04 October, 2017**





## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	10/4/2017		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	14,986.61	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
HARVESTERS STATE 7-15 PAD						
BERG 33-15 (AB_150CC) - OH - OH	100.00	58.68	1,657.42	1,650.86	252.382	CC
BERG 33-15 (AB_150CC) - OH - OH	600.00	556.06	1,658.38	1,650.40	207.860	ES
BERG 33-15 (AB_150CC) - OH - OH	7,100.00	6,992.06	1,853.14	1,792.14	30.382	SF
BERRY 22-2(PR_75CC) - OH - OH	100.00	29.32	4,393.23	4,386.67	669.160	CC
BERRY 22-2(PR_75CC) - OH - OH	200.00	124.76	4,393.28	4,386.65	662.375	ES
BERRY 22-2(PR_75CC) - OH - OH	10,400.00	7,124.37	6,008.66	5,901.24	55.935	SF
BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH	0.00	20.22	4,393.24			
BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH	600.00	619.02	4,393.94	4,385.81	540.421	ES
BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH	10,400.00	7,400.00	6,014.20	5,905.40	55.275	SF
BLACKGOLD 3(AB_150CC) - OH - OH	8,013.68	7,251.50	2,153.70	2,080.90	29.585	CC, ES
BLACKGOLD 3(AB_150CC) - OH - OH	8,900.00	7,257.82	2,328.94	2,239.96	26.176	SF
BURBACH 15-22(SI_150CC) - OH - OH	8,985.40	7,220.72	816.47	502.87	2.604	CC
BURBACH 15-22(SI_150CC) - OH - OH	9,000.00	7,220.67	816.60	502.65	2.601	ES, SF
BURBACH 15-23(SI_150CC) - OH - OH	9,365.67	7,204.53	513.97	191.37	1.593	CC, ES
BURBACH 15-23(SI_150CC) - OH - OH	9,400.00	7,204.43	515.12	191.80	1.593	SF
BURMAN 16-42(PR_75CC) - OH - OH	11,636.11	7,186.45	1,665.66	1,282.38	4.346	CC
BURMAN 16-42(PR_75CC) - OH - OH	11,700.00	7,186.25	1,666.89	1,281.94	4.330	ES
BURMAN 16-42(PR_75CC) - OH - OH	11,800.00	7,185.94	1,673.71	1,286.55	4.323	SF
BURMAN 16-43(PR_75CC) - OH - OH	11,653.49	7,183.40	3,166.51	2,782.84	8.253	CC
BURMAN 16-43(PR_75CC) - OH - OH	11,700.00	7,183.25	3,166.85	2,781.92	8.227	ES
BURMAN 16-43(PR_75CC) - OH - OH	12,200.00	7,181.69	3,213.32	2,816.65	8.101	SF
DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN	9,965.57	7,289.45	3,700.11	3,577.01	30.057	CC
DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN	14,987.41	12,345.91	3,833.94	3,425.84	9.395	ES, SF
DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN	9,937.77	7,374.04	3,890.39	3,767.71	31.714	CC
DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN	14,987.41	12,361.02	3,970.03	3,563.83	9.774	ES, SF
FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1	7,418.33	16,403.56	1,984.86	1,686.21	6.646	CC
FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1	10,200.00	19,118.26	2,011.56	1,574.68	4.604	ES
FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1	10,300.00	19,118.26	2,018.16	1,579.67	4.602	SF
FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1	10,117.50	19,018.34	1,812.19	1,378.72	4.181	CC
FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1	10,200.00	19,018.34	1,814.07	1,378.71	4.167	ES, SF
FRITZLER 11-21-4(PR_150CC) - OH - OH	13,929.27	7,333.68	3,646.93	3,414.28	15.675	CC
FRITZLER 11-21-4(PR_150CC) - OH - OH	14,000.00	7,335.11	3,647.62	3,412.93	15.542	ES
FRITZLER 11-21-4(PR_150CC) - OH - OH	14,800.00	7,358.00	3,749.39	3,497.19	14.867	SF
FRITZLER 11-21(PR_150CC) - OH - OH	14,521.56	7,156.45	4,316.87	3,853.65	9.319	CC
FRITZLER 11-21(PR_150CC) - OH - OH	14,600.00	7,156.21	4,317.58	3,852.20	9.277	ES
FRITZLER 11-21(PR_150CC) - OH - OH	14,987.41	7,155.00	4,341.93	3,866.92	9.141	SF
FRITZLER 1-17(PR_150CC) - OH - OH	14,987.41	7,170.00	3,101.09	2,632.13	6.613	CC, ES, SF

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
HARVESTERS STATE 7-15 PAD						
FRITZLER 17-23-18(PR_150CC) - OH - OH	14,987.41	7,409.72	3,725.67	3,525.87	18.647	CC, ES, SF
FRITZLER 17-32-12(PR_150CC) - OH - OH	14,987.41	7,600.64	1,802.48	1,616.83	9.709	CC, ES, SF
FRITZLER 17-42-11(PR_150CC) - OH - MWD	14,987.41	7,576.96	1,028.23	766.25	3.925	CC, ES, SF
FRITZLER 34-17(PR_150CC) - OH - OH	14,987.41	7,177.01	3,711.46	3,484.60	16.361	CC, ES, SF
FRITZLER 43-17(PR_150CC) - OH - OH	14,987.41	7,371.48	1,860.01	1,621.11	7.786	CC, ES, SF
FRITZLER 6-6-17 (PR_150CC) - OH - OH	14,987.41	7,236.57	2,799.18	2,570.12	12.221	CC, ES, SF
FRITZLER 6-8-17(PR_150CC) - OH - OH	14,987.41	7,325.90	3,888.09	3,643.61	15.903	CC, ES, SF
FRITZLER 8-8-17(PR_150CC) - OH - OH	14,987.41	7,205.76	3,651.45	3,389.92	13.962	CC, ES, SF
GREELEY SWD #1(XX) - OH - OH	10,222.56	7,172.86	3,385.40	3,041.31	9.839	CC
GREELEY SWD #1(XX) - OH - OH	10,300.00	7,172.62	3,386.28	3,040.15	9.783	ES
GREELEY SWD #1(XX) - OH - OH	10,900.00	7,170.75	3,452.51	3,092.19	9.582	SF
HARVESTER 31-15(SI_150CC) - OH - OH	6,622.76	6,627.84	1,045.97	988.72	18.268	CC, ES
HARVESTER 31-15(SI_150CC) - OH - OH	6,800.00	6,806.05	1,056.63	997.84	17.974	SF
HARVESTER 32-15(SI_150CC) - OH - OH	472.13	451.16	530.83	523.38	71.218	CC
HARVESTER 32-15(SI_150CC) - OH - OH	600.00	578.29	531.01	522.97	66.068	ES
HARVESTER 32-15(SI_150CC) - OH - OH	6,700.00	6,677.73	682.26	624.44	11.799	SF
HARVESTERS RESOURCES 15M-303 (PR_150CC) - O	7,110.84	8,451.41	218.79	161.28	3.804	CC, ES
HARVESTERS RESOURCES 15M-303 (PR_150CC) - O	7,200.00	8,449.71	241.94	171.08	3.414	SF
HARVESTERS RESOURCES 15M-423(PR_150CC) - O	6,987.22	8,555.09	517.39	452.99	8.034	CC
HARVESTERS RESOURCES 15M-423(PR_150CC) - O	7,000.00	8,554.47	517.68	452.35	7.924	ES
HARVESTERS RESOURCES 15M-423(PR_150CC) - O	7,100.00	8,550.31	539.11	467.99	7.580	SF
HARVESTERS RESOURCES 15R-243(PR_150CC) - OH	6,838.35	8,341.63	875.54	807.77	12.920	CC, ES
HARVESTERS RESOURCES 15R-243(PR_150CC) - OH	6,900.00	8,340.80	880.66	811.12	12.663	SF
HARVESTERS RESOURCES 15R-403(PR_150CC) - OH	6,835.53	8,571.49	1,225.70	1,153.68	17.020	CC, ES
HARVESTERS RESOURCES 15R-403(PR_150CC) - OH	6,900.00	8,570.32	1,230.64	1,157.50	16.825	SF
HARVESTERS STATE 30C-16-M - OH - PLAN #1	200.00	201.00	139.90	133.22	20.959	CC, ES
HARVESTERS STATE 30C-16-M - OH - PLAN #1	14,987.41	15,216.01	1,539.96	1,082.86	3.369	SF
HARVESTERS STATE 30N-16B-M - OH - PLAN #1	300.00	301.00	120.23	113.34	17.447	CC, ES
HARVESTERS STATE 30N-16B-M - OH - PLAN #1	14,987.41	14,942.37	1,332.26	877.77	2.931	SF
HARVESTERS STATE 31C-16-M - OH - PLAN #1	600.00	600.00	40.07	31.98	4.952	CC
HARVESTERS STATE 31C-16-M - OH - PLAN #1	14,987.41	15,002.30	440.09	-16.75	0.963	Level 1, ES, SF
HARVESTERS STATE 33C-16-M - OH - PLAN #1	200.00	199.00	259.76	253.09	38.926	CC, ES
HARVESTERS STATE 33C-16-M - OH - PLAN #1	14,987.41	15,239.10	2,229.90	1,773.48	4.886	SF
HARVESTERS STATE 34C-16-M - OH - PLAN #1	200.00	198.00	379.98	373.31	56.947	CC, ES
HARVESTERS STATE 34C-16-M - OH - PLAN #1	14,987.41	15,758.28	3,492.08	3,035.30	7.645	SF
HARVESTERS STATE 12N-16A-M - OH - PLAN #1	200.00	199.00	240.08	233.41	35.977	CC, ES
HARVESTERS STATE 12N-16A-M - OH - PLAN #1	14,987.41	14,901.47	2,042.15	1,589.66	4.513	SF
HARVESTERS STATE 12N-16B-M - OH - PLAN #1	200.00	199.00	220.05	213.38	32.975	CC, ES
HARVESTERS STATE 12N-16B-M - OH - PLAN #1	14,987.41	14,965.61	1,819.24	1,364.56	4.001	SF
HARVESTERS STATE 12N-16C-M - OH - PLAN #1	200.00	199.00	200.00	193.33	29.971	CC, ES
HARVESTERS STATE 12N-16C-M - OH - PLAN #1	14,987.41	14,973.19	1,606.26	1,151.58	3.533	SF
HARVESTERS STATE 13C-16-M - OH - PLAN #1	200.00	198.00	319.88	313.20	47.940	CC, ES
HARVESTERS STATE 13C-16-M - OH - PLAN #1	14,987.41	15,409.83	2,861.16	2,404.68	6.268	SF
HARVESTERS STATE 13N-16B-M - OH - PLAN #1	200.00	198.00	339.90	333.23	50.941	CC, ES
HARVESTERS STATE 13N-16B-M - OH - PLAN #1	14,987.41	15,313.15	3,075.87	2,619.75	6.744	SF
HARVESTERS STATE 31N-16B-M - OH - PLAN #1	500.00	500.00	20.05	12.44	2.634	CC, ES
HARVESTERS STATE 31N-16B-M - OH - PLAN #1	14,987.41	14,814.62	365.92	61.86	1.203	Level 2, SF
HARVESTERS STATE 32C-16-M - OH - PLAN #1	200.00	199.00	179.96	173.29	26.968	CC, ES
HARVESTERS STATE 32C-16-M - OH - PLAN #1	14,987.41	15,074.55	1,390.97	895.12	2.805	SF
HARVESTERS STATE 32C-16-M2 - OH - PLAN #1	500.00	500.00	60.10	52.49	7.896	CC, ES
HARVESTERS STATE 32C-16-M2 - OH - PLAN #1	14,987.41	14,999.73	661.27	204.94	1.449	Level 3, SF
HARVESTERS STATE 32N-16B-M - OH - PLAN #1	300.00	299.00	159.93	153.04	23.217	CC, ES
HARVESTERS STATE 32N-16B-M - OH - PLAN #1	14,987.41	14,863.80	1,206.04	754.50	2.671	SF

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
HARVESTERS STATE 7-15 PAD						
HARVESTERS STATE 32N-16C-M - OH - PLAN #1	508.33	508.33	79.77	72.12	10.429	CC
HARVESTERS STATE 32N-16C-M - OH - PLAN #1	600.00	599.47	79.84	71.75	9.870	ES
HARVESTERS STATE 32N-16C-M - OH - PLAN #1	14,987.41	14,905.58	887.76	435.37	1.962	SF
HARVESTERS STATE 33N-16B-M - OH - PLAN #1	200.00	199.00	279.78	273.11	41.926	CC, ES
HARVESTERS STATE 33N-16B-M - OH - PLAN #1	14,987.41	15,121.28	2,448.89	1,993.29	5.375	SF
HARVESTERS STATE 33N-16C-M - OH - PLAN #1	200.00	198.00	299.84	293.17	44.937	CC, ES
HARVESTERS STATE 33N-16C-M - OH - PLAN #1	14,987.41	15,249.20	2,652.51	2,196.29	5.814	SF
HARVESTERS STATE 34N-16C-M - OH - PLAN #1	200.00	198.00	359.94	353.27	53.944	CC, ES
HARVESTERS STATE 34N-16C-M - OH - PLAN #1	14,987.41	15,458.53	3,283.23	2,826.71	7.192	SF
HARVESTERS STATE 4C-16-M - OH - PLAN #1	500.00	501.00	100.19	94.45	17.451	CC, ES
HARVESTERS STATE 4C-16-M - OH - PLAN #1	14,987.41	15,116.21	1,135.68	678.83	2.486	SF
HARVESTERS STATE 4N-16A-M - OH - PLAN #1	600.00	600.00	60.12	52.02	7.429	CC, ES
HARVESTERS STATE 4N-16A-M - OH - PLAN #1	14,987.41	14,734.34	724.30	300.66	1.710	SF
HARVESTERS STATE 4N-16C-M - OH - PLAN #1	600.00	600.00	80.16	72.07	9.906	CC, ES
HARVESTERS STATE 4N-16C-M - OH - PLAN #1	14,987.41	14,969.16	790.23	337.44	1.745	SF
HARVESTERS STATE 5N-16B-M - OH - PLAN #1	400.00	400.00	40.06	32.86	5.559	CC
HARVESTERS STATE 5N-16B-M - OH - PLAN #1	14,987.41	14,803.80	390.57	-12.24	0.970	Level 1, ES, SF
HARVESTERS STATE 5N-16C-M - OH - PLAN #1	500.00	500.00	20.03	12.42	2.631	CC
HARVESTERS STATE 5N-16C-M - OH - PLAN #1	14,987.41	14,869.23	249.17	-157.26	0.613	Level 1, ES, SF
HOOD 41-20(PR_150CC) - OH - OH	14,987.41	7,162.00	4,417.47	3,945.13	9.352	CC, ES, SF
HOOD 6-2-20(PR_150CC) - OH - OH	14,987.41	7,569.75	5,168.85	4,914.62	20.331	CC, ES, SF
LEFFLER 1 21-2(SI_75CC) - OH - OH	11,874.88	7,104.49	4,295.17	4,124.08	25.105	CC
LEFFLER 1 21-2(SI_75CC) - OH - OH	12,000.00	7,112.07	4,296.99	4,122.44	24.618	ES
LEFFLER 1 21-2(SI_75CC) - OH - OH	13,400.00	7,196.82	4,556.97	4,352.98	22.339	SF
LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P	7,200.00	10,291.34	3,975.67	3,837.45	28.764	ES
LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P	9,810.97	7,725.73	3,964.35	3,842.45	32.521	CC
LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P	12,000.00	7,118.67	4,366.74	4,200.50	26.267	SF
LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN	9,817.47	7,584.62	3,688.52	3,567.13	30.386	CC
LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN	9,900.00	7,550.00	3,689.13	3,565.98	29.957	ES
LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN	11,900.00	7,050.00	4,092.64	3,929.45	25.080	SF
LEFFLER FARM 1-21(PA_75CC) - OH - OH	13,204.98	7,162.56	4,506.95	4,080.64	10.572	CC
LEFFLER FARM 1-21(PA_75CC) - OH - OH	13,300.00	7,162.26	4,507.95	4,079.03	10.510	ES
LEFFLER FARM 1-21(PA_75CC) - OH - OH	14,100.00	7,159.77	4,594.96	4,147.39	10.266	SF
LOVELY 1(AB_150CC) - OH - OH	13,165.23	7,209.68	2,291.97	1,865.13	5.370	CC
LOVELY 1(AB_150CC) - OH - OH	13,200.00	7,209.57	2,292.23	1,864.43	5.358	ES
LOVELY 1(AB_150CC) - OH - OH	13,400.00	7,208.95	2,303.96	1,871.43	5.327	SF
LOVELY 14-9(AB_150CC) - OH - OH	14,661.95	7,208.01	2,238.31	1,769.33	4.773	CC
LOVELY 14-9(AB_150CC) - OH - OH	14,700.00	7,207.89	2,238.64	1,768.60	4.763	ES
LOVELY 14-9(AB_150CC) - OH - OH	14,900.00	7,207.27	2,250.94	1,776.44	4.744	SF
LUCAS SCHOOL 1(TA_150CC) - OH - OH	10,436.63	7,238.19	2,321.48	1,969.33	6.592	CC
LUCAS SCHOOL 1(TA_150CC) - OH - OH	10,500.00	7,237.99	2,322.34	1,968.51	6.563	ES
LUCAS SCHOOL 1(TA_150CC) - OH - OH	10,800.00	7,237.06	2,349.74	1,988.91	6.512	SF
LUCAS SCHOOL 34-9(TA_150CC) - OH - OH	11,652.17	7,205.60	2,301.87	1,917.47	5.988	CC
LUCAS SCHOOL 34-9(TA_150CC) - OH - OH	11,700.00	7,205.75	2,302.37	1,916.65	5.969	ES
LUCAS SCHOOL 34-9(TA_150CC) - OH - OH	11,900.00	7,206.37	2,315.17	1,924.58	5.927	SF
MAURICE LEFFLER 1(AB_150CC) - OH - OH	13,218.53	4,452.00	5,089.77	4,805.93	17.932	CC
MAURICE LEFFLER 1(AB_150CC) - OH - OH	13,300.00	4,452.00	5,090.43	4,804.63	17.812	ES
MAURICE LEFFLER 1(AB_150CC) - OH - OH	14,700.00	4,452.00	5,300.99	4,986.64	16.863	SF
MCGLOTHLIN 8-6-17(PR_150CC) - OH - OH	14,987.41	7,434.00	2,290.50	2,029.63	8.780	CC, ES, SF
MCGLOTHLIN 17-11(PR_75CC) - OH - OH	14,987.41	7,207.00	1,486.53	1,062.95	3.509	CC, ES, SF
MONTERA 10-34 (PR_75CC) - OH - OH	6,739.24	6,762.76	2,167.30	2,108.90	37.114	CC
MONTERA 10-34 (PR_75CC) - OH - OH	6,800.00	6,823.22	2,167.63	2,108.71	36.788	ES
MONTERA 10-34 (PR_75CC) - OH - OH	7,600.00	7,301.89	2,301.09	2,234.97	34.801	SF

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



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
HARVESTERS STATE 7-15 PAD						
RUTT-ADAMS HEIRS 2-22 - OH - OH	7,904.68	7,185.09	4,316.73	4,027.74	14.938	CC
RUTT-ADAMS HEIRS 2-22 - OH - OH	8,000.00	7,184.79	4,317.78	4,027.15	14.857	ES
RUTT-ADAMS HEIRS 2-22 - OH - OH	9,200.00	7,181.05	4,506.88	4,191.67	14.298	SF
SENA 15-21(PR_75CC) - OH - OH	7,979.33	7,239.86	1,074.63	782.43	3.678	CC
SENA 15-21(PR_75CC) - OH - OH	8,000.00	7,239.79	1,074.83	782.27	3.674	ES, SF
SENA 15-24(PR_75CC) - OH - OH	7,930.99	7,226.01	230.00	-60.88	0.791	Level 1, CC, ES, SF
SENA 15-25(PR_75CC) - OH - OH	8,303.98	7,231.84	454.16	155.90	1.523	CC, ES, SF
STATE 1(AB_150CC) - OH - OH	11,807.97	7,183.92	989.01	601.03	2.549	CC, ES
STATE 1(AB_150CC) - OH - OH	11,900.00	7,183.63	993.28	603.30	2.547	SF
STATE BEATRICE 16-1(AB_150CC) - OH - OH	11,937.69	7,185.51	1,010.79	619.15	2.581	CC, ES
STATE BEATRICE 16-1(AB_150CC) - OH - OH	12,000.00	7,185.32	1,012.71	619.58	2.576	SF
STATE BEATRICE 32-16(PR_75CC) - OH - OH	11,746.25	7,179.11	462.55	76.46	1.198	Level 2, CC, ES, SF
STATE-HOPPE 16-1(SI_75CC) - OH - OH	14,504.73	7,167.50	3,149.00	2,685.87	6.799	CC
STATE-HOPPE 16-1(SI_75CC) - OH - OH	14,600.00	7,167.21	3,150.44	2,684.74	6.765	ES
STATE-HOPPE 16-1(SI_75CC) - OH - OH	14,900.00	7,166.27	3,173.71	2,701.22	6.717	SF
STATE-HOPPE 16-2(PR_75CC) - OH - OH	13,357.68	7,184.08	1,665.90	1,234.54	3.862	CC
STATE-HOPPE 16-2(PR_75CC) - OH - OH	13,400.00	7,183.95	1,666.44	1,233.96	3.853	ES
STATE-HOPPE 16-2(PR_75CC) - OH - OH	13,500.00	7,183.64	1,671.97	1,237.31	3.847	SF
STATE-HOPPE 16-3(PR_150CC) - OH - OH	14,561.62	7,182.84	501.32	254.42	2.030	CC, ES, SF
STOCKOVER 16-1(PR_75CC) - OH - OH	10,405.89	7,175.29	1,642.89	1,293.78	4.706	CC, ES
STOCKOVER 16-1(PR_75CC) - OH - OH	10,600.00	7,174.68	1,654.32	1,300.66	4.678	SF
ULRICH PC I 17-07D(PR_75CC) - OH - OH	14,987.41	7,328.97	2,196.57	2,107.79	24.741	CC, ES, SF
ULRICH PC I 17-08(PR_75CC) - OH - OH	14,987.41	7,184.00	1,043.45	713.71	3.164	CC, ES, SF
ULRICH PC I17-17D(PR_75CC) - OH - OH	14,987.41	7,402.35	1,764.68	1,661.04	17.027	CC, ES, SF

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 100-GYRO-NS												<b>Offset Well Error:</b>	3.28 ft
HARVESTERS STATE 7-15 PAD - BERG 33-15 (AB_150CC) - OH - OH													
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	38.00	3.28	3.28	167.82	-1,620.06	349.64	1,657.80				
100.00	100.00	58.68	96.68	3.28	3.28	167.82	-1,620.12	349.65	1,657.42	1,650.86	6.57	252.382	CC
200.00	200.00	156.80	194.80	3.34	3.31	167.82	-1,620.43	349.63	1,657.73	1,651.08	6.65	249.323	
300.00	300.00	259.39	297.39	3.44	3.40	167.83	-1,620.75	349.42	1,657.99	1,651.14	6.85	242.200	
400.00	400.00	360.41	398.41	3.60	3.54	167.84	-1,620.86	349.34	1,658.08	1,650.94	7.14	232.134	
500.00	500.00	460.09	498.09	3.81	3.72	167.84	-1,620.97	349.37	1,658.19	1,650.66	7.53	220.298	
600.00	600.00	556.06	594.06	4.05	3.93	167.83	-1,621.12	349.50	1,658.38	1,650.40	7.98	207.860	ES
700.00	699.98	652.55	690.55	4.32	4.17	-134.19	-1,621.60	349.60	1,660.08	1,651.59	8.49	195.535	
800.00	799.94	754.79	792.78	4.61	4.46	-134.25	-1,622.20	349.45	1,662.69	1,653.62	9.07	183.387	
900.00	899.89	858.16	896.16	4.92	4.77	-134.31	-1,622.65	348.89	1,665.07	1,655.38	9.69	171.804	
1,000.00	999.85	960.10	998.09	5.25	5.10	-134.36	-1,622.93	348.36	1,667.30	1,656.95	10.35	161.105	
1,100.00	1,099.80	1,057.92	1,095.91	5.60	5.42	-134.41	-1,623.21	347.68	1,669.50	1,658.48	11.02	151.455	
1,200.00	1,199.76	1,156.14	1,194.12	5.96	5.76	-134.46	-1,623.66	347.11	1,671.90	1,660.18	11.72	142.621	
1,300.00	1,299.72	1,256.13	1,294.12	6.33	6.12	-134.50	-1,624.15	346.43	1,674.31	1,661.86	12.45	134.493	
1,400.00	1,399.67	1,357.98	1,395.95	6.71	6.49	-134.55	-1,624.65	345.61	1,676.70	1,663.50	13.20	127.030	
1,500.00	1,499.63	1,462.11	1,500.08	7.10	6.88	-134.59	-1,624.94	344.80	1,678.89	1,664.91	13.97	120.159	
1,600.00	1,599.58	1,564.67	1,602.64	7.49	7.27	-134.64	-1,624.98	344.02	1,680.85	1,666.09	14.75	113.944	
1,700.00	1,699.54	1,662.85	1,700.82	7.88	7.65	-134.67	-1,625.06	342.95	1,682.77	1,667.24	15.52	108.395	
1,800.00	1,799.50	1,759.80	1,797.76	8.28	8.03	-134.71	-1,625.28	342.04	1,684.88	1,668.57	16.30	103.358	
1,900.00	1,899.45	1,859.26	1,897.21	8.69	8.42	-134.75	-1,625.65	341.09	1,687.11	1,670.01	17.10	98.686	

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
2,000.00	1,999.41	1,957.57	1,995.52	9.10	8.81	-134.78	-1,626.03	340.08	1,689.35	1,671.46	17.89	94.418		
2,100.00	2,099.36	2,056.45	2,094.39	9.51	9.20	-134.81	-1,626.59	338.90	1,691.73	1,673.04	18.70	90.482		
2,200.00	2,199.32	2,155.83	2,193.77	9.92	9.60	-134.84	-1,627.12	337.91	1,694.12	1,674.61	19.51	86.840		
2,300.00	2,299.28	2,254.11	2,292.04	10.34	10.00	-134.89	-1,627.65	337.25	1,696.59	1,676.27	20.32	83.494		
2,400.00	2,399.23	2,357.61	2,395.53	10.75	10.42	-134.93	-1,628.27	336.36	1,699.08	1,677.92	21.16	80.309		
2,500.00	2,499.19	2,461.58	2,499.50	11.17	10.85	-134.97	-1,628.56	335.36	1,701.23	1,679.23	22.00	77.333		
2,600.00	2,599.14	2,563.16	2,601.07	11.60	11.26	-135.02	-1,628.65	334.68	1,703.26	1,680.43	22.83	74.594		
2,700.00	2,699.10	2,660.73	2,698.65	12.02	11.66	-135.07	-1,628.68	334.17	1,705.27	1,681.62	23.65	72.090		
2,800.00	2,799.06	2,758.41	2,796.33	12.44	12.06	-135.12	-1,628.92	333.66	1,707.50	1,683.02	24.48	69.754		
2,900.00	2,899.01	2,859.30	2,897.21	12.87	12.48	-135.17	-1,629.20	333.13	1,709.75	1,684.43	25.32	67.529		
3,000.00	2,998.97	2,957.98	2,995.89	13.29	12.89	-135.22	-1,629.40	332.71	1,711.96	1,685.81	26.15	65.464		
3,100.00	3,098.92	3,054.78	3,092.69	13.72	13.29	-135.27	-1,629.79	332.24	1,714.35	1,687.37	26.98	63.547		
3,200.00	3,198.88	3,155.88	3,193.79	14.14	13.71	-135.32	-1,630.30	331.78	1,716.84	1,689.02	27.82	61.702		
3,300.00	3,298.84	3,263.09	3,301.00	14.57	14.16	-135.39	-1,630.48	331.55	1,719.07	1,690.37	28.70	59.900		
3,400.00	3,398.79	3,371.14	3,409.04	15.00	14.61	-135.45	-1,630.22	330.90	1,720.81	1,691.23	29.58	58.180		
3,500.00	3,498.75	3,469.05	3,506.95	15.43	15.02	-135.50	-1,629.76	330.24	1,722.32	1,691.90	30.41	56.630		
3,600.00	3,598.70	3,563.64	3,601.53	15.86	15.41	-135.54	-1,629.63	329.51	1,724.11	1,692.88	31.24	55.195		
3,700.00	3,698.66	3,654.86	3,692.75	16.29	15.80	-135.58	-1,629.84	328.83	1,726.28	1,694.24	32.05	53.867		
3,800.00	3,798.62	3,748.62	3,786.51	16.72	16.19	-135.61	-1,630.60	328.06	1,728.99	1,696.13	32.87	52.603		
3,900.00	3,898.57	3,851.20	3,889.08	17.15	16.62	-135.65	-1,631.51	327.26	1,731.80	1,698.07	33.73	51.342		
4,000.00	3,998.53	3,954.81	3,992.68	17.59	17.06	-135.69	-1,632.11	326.55	1,734.32	1,699.72	34.60	50.127		
4,100.00	4,098.48	4,055.24	4,093.11	18.02	17.48	-135.73	-1,632.63	325.78	1,736.76	1,701.31	35.45	48.989		
4,200.00	4,198.44	4,157.29	4,195.16	18.45	17.91	-135.77	-1,633.12	324.97	1,739.16	1,702.85	36.31	47.892		
4,300.00	4,298.40	4,272.70	4,310.56	18.88	18.40	-135.83	-1,633.14	324.20	1,741.18	1,703.94	37.23	46.764		
4,400.00	4,398.35	4,374.05	4,411.91	19.32	18.82	-135.87	-1,632.45	323.31	1,742.43	1,704.33	38.09	45.742		
4,500.00	4,498.31	4,474.22	4,512.07	19.75	19.24	-135.92	-1,631.89	322.46	1,743.81	1,704.87	38.95	44.774		
4,600.00	4,598.26	4,589.20	4,627.04	20.19	19.73	-135.96	-1,630.86	321.21	1,744.82	1,704.96	39.86	43.771		
4,700.00	4,698.22	4,681.99	4,719.82	20.62	20.12	-136.02	-1,629.54	320.66	1,745.44	1,704.75	40.69	42.898		
4,800.00	4,798.18	4,784.18	4,822.00	21.05	20.55	-136.10	-1,628.27	320.54	1,746.35	1,704.79	41.55	42.027		
4,900.00	4,898.13	4,886.79	4,904.60	21.49	20.90	-136.12	-1,627.69	319.51	1,747.52	1,705.18	42.34	41.278		
5,000.00	4,998.09	4,953.37	4,991.17	21.92	21.26	-136.15	-1,628.04	318.55	1,749.77	1,706.64	43.13	40.567		
5,100.00	5,098.04	5,065.85	5,103.65	22.36	21.74	-136.22	-1,628.36	318.66	1,752.24	1,708.19	44.05	39.782		
5,200.00	5,198.00	5,181.58	5,219.37	22.79	22.22	-136.32	-1,627.20	319.08	1,753.49	1,708.52	44.97	38.992		
5,300.00	5,297.96	5,282.25	5,320.04	23.23	22.64	-136.43	-1,625.66	319.89	1,754.35	1,708.52	45.83	38.279		
5,400.00	5,397.91	5,369.93	5,407.70	23.67	23.01	-136.53	-1,624.52	320.89	1,755.54	1,708.90	46.64	37.643		
5,500.00	5,497.87	5,457.38	5,495.14	24.10	23.38	-136.63	-1,624.05	322.09	1,757.52	1,710.07	47.44	37.047		
5,600.00	5,597.82	5,560.41	5,598.17	24.54	23.81	-136.72	-1,624.12	322.88	1,759.94	1,711.62	48.31	36.428		
5,700.00	5,697.78	5,663.30	5,701.05	24.97	24.24	-136.83	-1,623.61	323.88	1,761.87	1,712.68	49.19	35.821		
5,800.00	5,797.74	5,765.69	5,803.43	25.41	24.68	-136.93	-1,623.11	325.04	1,763.85	1,713.79	50.06	35.238		
5,900.00	5,897.69	5,864.09	5,901.83	25.85	25.09	-137.00	-1,622.72	325.13	1,765.67	1,714.76	50.91	34.684		
6,000.00	5,997.65	5,958.06	5,995.80	26.28	25.49	-137.09	-1,622.44	325.91	1,767.77	1,716.03	51.74	34.166		
6,100.00	6,097.60	6,048.18	6,085.90	26.72	25.87	-137.21	-1,622.28	327.68	1,770.28	1,717.73	52.56	33.684		
6,200.00	6,197.56	6,147.69	6,185.39	27.16	26.29	-137.33	-1,622.65	329.63	1,773.34	1,719.93	53.41	33.200		
6,300.00	6,297.52	6,255.51	6,293.20	27.59	26.74	-137.45	-1,622.64	331.11	1,775.87	1,721.56	54.31	32.698		
6,400.00	6,397.47	6,349.71	6,387.38	28.03	27.14	-137.57	-1,622.43	332.99	1,778.39	1,723.24	55.15	32.249		
6,500.00	6,497.43	6,433.98	6,471.64	28.47	27.49	-137.67	-1,622.80	334.52	1,781.51	1,725.58	55.93	31.852		
6,600.00	6,597.38	6,517.63	6,555.26	28.90	27.85	-137.76	-1,624.14	336.17	1,785.75	1,729.04	56.71	31.490		
6,700.00	6,697.08	6,641.07	6,678.68	29.34	28.37	-111.83	-1,626.10	337.28	1,790.82	1,733.13	57.69	31.042		
6,800.00	6,794.63	6,763.70	6,773.90	29.79	28.89	-108.24	-1,626.71	337.06	1,798.73	1,740.08	58.65	30.667		
6,900.00	6,887.62	6,829.15	6,866.75	30.24	29.17	-107.09	-1,627.74	337.36	1,811.73	1,752.36	59.38	30.511		
7,000.00	6,973.77	6,915.11	6,952.70	30.70	29.54	-106.33	-1,628.69	337.64	1,829.70	1,769.50	60.20	30.395		
7,100.00	7,050.94	6,992.06	7,029.65	31.20	29.87	-105.45	-1,629.54	337.89	1,853.14	1,792.14	61.00	30.382 SF		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
7,200.00	7,117.24	7,058.11	7,095.69	31.77	30.15	-104.12	-1,630.27	338.10	1,882.51	1,820.72	61.79	30.467		
7,300.00	7,171.03	7,111.63	7,149.21	32.46	30.38	-102.07	-1,630.86	338.28	1,918.02	1,855.43	62.59	30.645		
7,400.00	7,211.00	7,151.30	7,188.87	33.29	30.54	-99.11	-1,631.30	338.40	1,959.57	1,896.17	63.40	30.909		
7,500.00	7,236.16	7,176.15	7,213.72	34.29	30.65	-95.07	-1,631.58	338.48	2,006.63	1,942.43	64.20	31.255		
7,600.00	7,245.89	7,185.56	7,223.13	35.43	30.69	-89.94	-1,631.68	338.51	2,058.27	1,993.29	64.97	31.680		
7,700.00	7,245.73	7,185.08	7,222.66	36.72	30.69	-89.12	-1,631.67	338.51	2,113.41	2,047.69	65.72	32.157		
7,800.00	7,245.42	7,184.46	7,222.03	38.18	30.69	-89.10	-1,631.67	338.51	2,171.75	2,105.24	66.51	32.652		
7,900.00	7,245.10	7,183.83	7,221.40	39.80	30.68	-89.08	-1,631.66	338.51	2,233.06	2,165.73	67.32	33.169		
8,000.00	7,244.79	7,183.20	7,220.77	41.54	30.68	-89.05	-1,631.65	338.51	2,297.08	2,228.94	68.14	33.711		
8,100.00	7,244.48	7,182.58	7,220.15	43.41	30.68	-89.03	-1,631.65	338.51	2,363.59	2,294.64	68.95	34.280		
8,200.00	7,244.17	7,181.95	7,219.52	45.38	30.68	-89.01	-1,631.64	338.50	2,432.41	2,362.66	69.74	34.876		
8,300.00	7,243.86	7,181.32	7,218.89	47.44	30.67	-88.99	-1,631.63	338.50	2,503.32	2,432.80	70.52	35.500		
8,400.00	7,243.55	7,180.69	7,218.26	49.58	30.67	-88.97	-1,631.63	338.50	2,576.17	2,504.90	71.26	36.151		
8,500.00	7,243.23	7,180.07	7,217.64	51.78	30.67	-88.95	-1,631.62	338.50	2,650.78	2,578.80	71.98	36.828		
8,600.00	7,242.92	7,179.44	7,217.01	54.05	30.66	-88.93	-1,631.61	338.50	2,727.02	2,654.36	72.66	37.530		
8,700.00	7,242.61	7,178.81	7,216.38	56.37	30.66	-88.91	-1,631.61	338.49	2,804.76	2,731.44	73.32	38.255		
8,800.00	7,242.30	7,178.18	7,215.76	58.74	30.66	-88.89	-1,631.60	338.49	2,883.87	2,809.93	73.94	39.003		
8,900.00	7,241.99	7,177.56	7,215.13	61.16	30.66	-88.87	-1,631.59	338.49	2,964.24	2,889.71	74.53	39.771		
9,000.00	7,241.67	7,176.93	7,214.50	63.61	30.65	-88.85	-1,631.58	338.49	3,045.77	2,970.68	75.10	40.559		
9,100.00	7,241.36	7,176.30	7,213.87	66.09	30.65	-88.83	-1,631.58	338.48	3,128.38	3,052.75	75.63	41.364		
9,200.00	7,241.05	7,175.67	7,213.25	68.60	30.65	-88.81	-1,631.57	338.48	3,211.97	3,135.83	76.14	42.187		
9,300.00	7,240.74	7,175.05	7,212.62	71.13	30.65	-88.79	-1,631.56	338.48	3,296.48	3,219.86	76.62	43.025		
9,400.00	7,240.43	7,174.42	7,211.99	73.70	30.64	-88.77	-1,631.56	338.48	3,381.83	3,304.75	77.07	43.877		
9,500.00	7,240.11	7,173.79	7,211.36	76.28	30.64	-88.74	-1,631.55	338.48	3,467.96	3,390.45	77.51	44.743		
9,600.00	7,239.80	7,173.17	7,210.74	78.88	30.64	-88.72	-1,631.54	338.47	3,554.82	3,476.90	77.92	45.621		
9,700.00	7,239.49	7,172.54	7,210.11	81.50	30.64	-88.70	-1,631.54	338.47	3,642.36	3,564.05	78.31	46.510		
9,800.00	7,239.18	7,171.91	7,209.48	84.13	30.63	-88.68	-1,631.53	338.47	3,730.52	3,651.84	78.69	47.410		
9,900.00	7,238.87	7,171.28	7,208.86	86.78	30.63	-88.66	-1,631.52	338.47	3,819.27	3,740.23	79.04	48.320		
10,000.00	7,238.55	7,170.66	7,208.23	89.44	30.63	-88.64	-1,631.52	338.47	3,908.55	3,829.18	79.38	49.239		
10,100.00	7,238.24	7,170.03	7,207.60	92.11	30.62	-88.62	-1,631.51	338.46	3,998.35	3,918.65	79.70	50.167		
10,200.00	7,237.93	7,169.40	7,206.97	94.80	30.62	-88.60	-1,631.50	338.46	4,088.62	4,008.61	80.01	51.102		
10,300.00	7,237.62	7,168.77	7,206.35	97.49	30.62	-88.58	-1,631.49	338.46	4,179.33	4,099.03	80.30	52.044		
10,400.00	7,237.31	7,168.15	7,205.72	100.19	30.62	-88.56	-1,631.49	338.46	4,270.46	4,189.87	80.59	52.993		
10,500.00	7,236.99	7,167.52	7,205.09	102.90	30.61	-88.54	-1,631.48	338.46	4,361.97	4,281.12	80.85	53.948		
10,600.00	7,236.68	7,166.89	7,204.46	105.62	30.61	-88.52	-1,631.47	338.45	4,453.85	4,372.74	81.11	54.909		
10,700.00	7,236.37	7,166.26	7,203.84	108.35	30.61	-88.50	-1,631.47	338.45	4,546.08	4,464.72	81.36	55.875		
10,800.00	7,236.06	7,165.64	7,203.21	111.08	30.61	-88.48	-1,631.46	338.45	4,638.62	4,557.02	81.60	56.846		
10,900.00	7,235.75	7,165.01	7,202.58	113.82	30.60	-88.46	-1,631.45	338.45	4,731.47	4,649.64	81.83	57.822		
11,000.00	7,235.44	7,164.38	7,201.95	116.56	30.60	-88.43	-1,631.45	338.45	4,824.60	4,742.56	82.05	58.802		
11,100.00	7,235.12	7,163.76	7,201.33	119.31	30.60	-88.41	-1,631.44	338.44	4,918.01	4,835.75	82.26	59.785		
11,200.00	7,234.81	7,163.13	7,200.70	122.07	30.59	-88.39	-1,631.43	338.44	5,011.67	4,929.20	82.47	60.773		
11,300.00	7,234.50	7,162.50	7,200.07	124.83	30.59	-88.37	-1,631.42	338.44	5,105.56	5,022.90	82.66	61.763		
11,400.00	7,234.19	7,161.87	7,199.45	127.59	30.59	-88.35	-1,631.42	338.44	5,199.69	5,116.84	82.85	62.757		
11,500.00	7,233.88	7,161.25	7,198.82	130.36	30.59	-88.33	-1,631.41	338.44	5,294.03	5,210.99	83.04	63.753		
11,600.00	7,233.56	7,160.62	7,198.19	133.13	30.58	-88.31	-1,631.40	338.43	5,388.58	5,305.36	83.22	64.752		
11,700.00	7,233.25	7,159.99	7,197.56	135.91	30.58	-88.29	-1,631.40	338.43	5,483.32	5,399.92	83.39	65.754		
11,800.00	7,232.94	7,159.36	7,196.94	138.68	30.58	-88.27	-1,631.39	338.43	5,578.24	5,494.68	83.56	66.757		
11,900.00	7,232.63	7,158.74	7,196.31	141.47	30.58	-88.25	-1,631.38	338.43	5,673.34	5,589.61	83.72	67.763		
12,000.00	7,232.32	7,158.11	7,195.68	144.25	30.57	-88.23	-1,631.38	338.43	5,768.60	5,684.72	83.88	68.770		
12,100.00	7,232.00	7,157.48	7,195.05	147.04	30.57	-88.21	-1,631.37	338.42	5,864.02	5,779.98	84.04	69.779		
12,200.00	7,231.69	7,156.85	7,194.43	149.83	30.57	-88.19	-1,631.36	338.42	5,959.59	5,875.40	84.19	70.790		
12,300.00	7,231.38	7,156.23	7,193.80	152.62	30.57	-88.17	-1,631.36	338.42	6,055.30	5,970.97	84.33	71.801		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b> HARVESTERS STATE 7-15 PAD - BERG 33-15 (AB_150CC) - OH - OH												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 100-GYRO-NS												<b>Offset Well Error:</b>	3.28 ft
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
12,400.00	7,231.07	7,155.60	7,193.17	155.42	30.56	-88.15	-1,631.35	338.42	6,151.15	6,066.68	84.48	72.814	
12,500.00	7,230.76	7,154.97	7,192.55	158.22	30.56	-88.13	-1,631.34	338.42	6,247.13	6,162.52	84.62	73.828	
12,600.00	7,230.44	7,154.35	7,191.92	161.01	30.56	-88.10	-1,631.33	338.41	6,343.24	6,258.48	84.75	74.843	
12,700.00	7,230.13	7,153.72	7,191.29	163.82	30.55	-88.08	-1,631.33	338.41	6,439.46	6,354.57	84.89	75.859	
12,800.00	7,229.82	7,153.09	7,190.66	166.62	30.55	-88.06	-1,631.32	338.41	6,535.79	6,450.78	85.02	76.876	
12,900.00	7,229.51	7,152.46	7,190.04	169.43	30.55	-88.04	-1,631.31	338.41	6,632.24	6,547.09	85.15	77.893	
13,000.00	7,229.20	7,151.84	7,189.41	172.23	30.55	-88.02	-1,631.31	338.41	6,728.79	6,643.52	85.27	78.910	
13,100.00	7,228.88	7,151.21	7,188.78	175.04	30.54	-88.00	-1,631.30	338.40	6,825.43	6,740.04	85.39	79.928	
13,200.00	7,228.57	7,150.58	7,188.15	177.85	30.54	-87.98	-1,631.29	338.40	6,922.18	6,836.66	85.52	80.946	
13,300.00	7,228.26	7,149.95	7,187.53	180.66	30.54	-87.96	-1,631.29	338.40	7,019.01	6,933.38	85.63	81.965	
13,400.00	7,227.95	7,149.33	7,186.90	183.48	30.54	-87.94	-1,631.28	338.40	7,115.93	7,030.18	85.75	82.983	
13,500.00	7,227.64	7,148.70	7,186.27	186.29	30.53	-87.92	-1,631.27	338.40	7,212.94	7,127.07	85.87	84.002	
13,600.00	7,227.33	7,148.07	7,185.65	189.11	30.53	-87.90	-1,631.27	338.39	7,310.02	7,224.04	85.98	85.020	
13,700.00	7,227.01	7,147.44	7,185.02	191.92	30.53	-87.88	-1,631.26	338.39	7,407.19	7,321.10	86.09	86.039	
13,800.00	7,226.70	7,146.82	7,184.39	194.74	30.53	-87.86	-1,631.25	338.39	7,504.43	7,418.22	86.20	87.057	
13,900.00	7,226.39	7,146.19	7,183.76	197.56	30.52	-87.84	-1,631.24	338.39	7,601.73	7,515.43	86.31	88.075	
14,000.00	7,226.08	7,145.56	7,183.14	200.38	30.52	-87.82	-1,631.24	338.39	7,699.11	7,612.70	86.42	89.093	
14,100.00	7,225.77	7,144.94	7,182.51	203.21	30.52	-87.79	-1,631.23	338.38	7,796.56	7,710.04	86.52	90.110	
14,200.00	7,225.45	7,144.31	7,181.88	206.03	30.51	-87.77	-1,631.22	338.38	7,894.07	7,807.44	86.63	91.127	
14,300.00	7,225.14	7,143.68	7,181.25	208.85	30.51	-87.75	-1,631.22	338.38	7,991.64	7,904.91	86.73	92.144	
14,400.00	7,224.83	7,143.05	7,180.63	211.68	30.51	-87.73	-1,631.21	338.38	8,089.27	8,002.43	86.83	93.159	
14,500.00	7,224.52	7,142.43	7,180.00	214.50	30.51	-87.71	-1,631.20	338.38	8,186.95	8,100.02	86.93	94.175	
14,600.00	7,224.21	7,141.80	7,179.37	217.33	30.50	-87.69	-1,631.20	338.37	8,284.69	8,197.66	87.03	95.189	
14,700.00	7,223.89	7,141.17	7,178.75	220.16	30.50	-87.67	-1,631.19	338.37	8,382.49	8,295.36	87.13	96.203	
14,800.00	7,223.58	7,140.54	7,178.12	222.98	30.50	-87.65	-1,631.18	338.37	8,480.34	8,393.10	87.23	97.216	
14,900.00	7,223.27	7,139.92	7,177.49	225.81	30.50	-87.63	-1,631.18	338.37	8,578.23	8,490.90	87.33	98.228	
14,987.41	7,223.00	7,139.37	7,176.94	228.28	30.49	-87.61	-1,631.17	338.37	8,663.84	8,576.43	87.41	99.113	



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	70.00	3.28	3.28	172.87	-4,359.27	545.25	4,393.79					
100.00	100.00	29.32	99.32	3.28	3.28	172.87	-4,359.27	545.23	4,393.23	4,386.67	6.57	669.160 CC		
200.00	200.00	124.76	194.76	3.34	3.30	172.87	-4,359.34	545.02	4,393.28	4,386.65	6.63	662.375 ES		
300.00	300.00	214.87	284.86	3.44	3.36	172.88	-4,359.59	544.76	4,393.52	4,386.72	6.80	646.100		
400.00	400.00	309.58	379.58	3.60	3.46	172.88	-4,360.00	544.66	4,393.93	4,386.87	7.07	621.786		
500.00	500.00	412.27	482.27	3.81	3.63	172.88	-4,360.44	544.71	4,394.36	4,386.93	7.43	591.072		
600.00	600.00	510.81	580.81	4.05	3.83	172.88	-4,360.86	544.71	4,394.79	4,386.91	7.87	558.092		
700.00	699.98	614.23	684.22	4.32	4.08	-129.12	-4,361.31	544.46	4,396.27	4,387.88	8.39	524.001		
800.00	799.94	718.08	788.08	4.61	4.35	-129.14	-4,361.67	543.97	4,398.43	4,389.47	8.96	490.861		
900.00	899.89	810.94	880.93	4.92	4.63	-129.16	-4,362.10	543.25	4,400.66	4,391.12	9.55	460.985		
1,000.00	999.85	911.20	981.18	5.25	4.94	-129.17	-4,362.64	542.19	4,402.93	4,392.74	10.19	432.040		
1,100.00	1,099.80	992.29	1,062.26	5.60	5.20	-129.18	-4,363.30	541.05	4,405.45	4,394.64	10.80	407.769		
1,200.00	1,199.76	1,081.17	1,151.12	5.96	5.51	-129.19	-4,364.38	539.56	4,408.31	4,396.84	11.47	384.487		
1,300.00	1,299.72	1,176.94	1,246.87	6.33	5.84	-129.19	-4,365.72	537.86	4,411.35	4,399.18	12.17	362.442		
1,400.00	1,399.67	1,286.18	1,356.07	6.71	6.24	-129.20	-4,367.22	535.77	4,414.35	4,401.41	12.94	341.033		
1,500.00	1,499.63	1,393.13	1,462.99	7.10	6.63	-129.20	-4,368.47	533.51	4,417.13	4,403.40	13.73	321.826		
1,600.00	1,599.58	1,492.36	1,562.20	7.49	7.01	-129.20	-4,369.56	531.47	4,419.83	4,405.34	14.49	305.021		
1,700.00	1,699.54	1,584.31	1,654.13	7.88	7.36	-129.20	-4,370.65	529.68	4,422.64	4,407.40	15.24	290.246		
1,800.00	1,799.50	1,706.64	1,776.42	8.28	7.83	-129.21	-4,371.96	527.38	4,425.35	4,409.24	16.11	274.661		
1,900.00	1,899.45	1,790.20	1,859.97	8.69	8.16	-129.21	-4,372.77	525.91	4,427.96	4,411.12	16.84	262.902		
2,000.00	1,999.41	1,884.42	1,954.17	9.10	8.53	-129.22	-4,373.88	524.39	4,430.80	4,413.18	17.62	251.445		
2,100.00	2,099.36	1,977.00	2,046.73	9.51	8.90	-129.22	-4,375.11	522.78	4,433.78	4,415.38	18.40	240.975		
2,200.00	2,199.32	2,066.88	2,136.58	9.92	9.26	-129.22	-4,376.49	521.10	4,436.95	4,417.78	19.17	231.436		
2,300.00	2,299.28	2,164.28	2,233.95	10.34	9.65	-129.23	-4,378.18	519.23	4,440.30	4,420.32	19.98	222.254		
2,400.00	2,399.23	2,307.15	2,376.78	10.75	10.23	-129.23	-4,380.11	516.57	4,443.33	4,422.35	20.98	211.829		
2,500.00	2,499.19	2,487.51	2,557.11	11.17	10.96	-129.25	-4,379.85	513.84	4,444.92	4,422.80	22.13	200.892		
2,600.00	2,599.14	2,595.34	2,664.92	11.60	11.40	-129.26	-4,378.47	512.23	4,445.34	4,422.36	22.98	193.405		
2,700.00	2,699.10	2,696.36	2,765.93	12.02	11.82	-129.28	-4,377.16	510.61	4,445.73	4,421.91	23.82	186.645		
2,800.00	2,799.06	2,790.38	2,859.92	12.44	12.20	-129.28	-4,376.00	508.97	4,446.17	4,421.54	24.63	180.532		
2,900.00	2,899.01	2,889.09	2,958.61	12.87	12.61	-129.29	-4,374.89	507.17	4,446.70	4,421.24	25.46	174.664		
3,000.00	2,998.97	2,981.93	3,051.43	13.29	13.00	-129.30	-4,373.93	505.43	4,447.31	4,421.04	26.27	169.310		
3,100.00	3,098.92	3,086.98	3,156.46	13.72	13.43	-129.31	-4,372.92	503.34	4,447.98	4,420.85	27.13	163.964		
3,200.00	3,198.88	3,196.05	3,265.50	14.14	13.89	-129.31	-4,371.66	501.17	4,448.47	4,420.46	28.01	158.836		
3,300.00	3,298.84	3,281.82	3,351.25	14.57	14.24	-129.32	-4,370.71	499.51	4,449.00	4,420.21	28.79	154.525		
3,400.00	3,398.79	3,368.48	3,437.89	15.00	14.61	-129.32	-4,370.05	497.70	4,449.86	4,420.27	29.58	150.429		
3,500.00	3,498.75	3,459.22	3,528.60	15.43	14.98	-129.32	-4,369.63	495.50	4,450.98	4,420.59	30.39	146.466		
3,600.00	3,598.70	3,551.52	3,620.86	15.86	15.37	-129.32	-4,369.40	493.04	4,452.27	4,421.07	31.20	142.679		
3,700.00	3,698.66	3,647.63	3,716.94	16.29	15.77	-129.32	-4,369.29	490.68	4,453.72	4,421.68	32.04	139.017		
3,800.00	3,798.62	3,743.50	3,812.79	16.72	16.18	-129.32	-4,369.16	488.78	4,455.21	4,422.34	32.87	135.543		
3,900.00	3,898.57	3,839.35	3,908.62	17.15	16.58	-129.32	-4,369.19	486.76	4,456.85	4,423.15	33.70	132.243		
4,000.00	3,998.53	3,943.12	4,012.37	17.59	17.02	-129.33	-4,369.15	484.89	4,458.46	4,423.89	34.57	128.973		
4,100.00	4,098.48	4,044.86	4,114.10	18.02	17.45	-129.34	-4,369.02	483.23	4,460.01	4,424.58	35.43	125.890		
4,200.00	4,198.44	4,151.18	4,220.42	18.45	17.89	-129.36	-4,368.73	482.19	4,461.50	4,425.19	36.31	122.884		
4,300.00	4,298.40	4,270.66	4,339.89	18.88	18.39	-129.40	-4,367.84	482.68	4,462.70	4,425.46	37.24	119.834		
4,400.00	4,398.35	4,415.01	4,484.22	19.32	18.99	-129.46	-4,365.61	483.74	4,463.14	4,424.86	38.28	116.599		
4,439.24	4,437.58	4,452.56	4,521.76	19.49	19.15	-129.47	-4,364.85	484.02	4,463.13	4,424.53	38.61	115.607		
4,500.00	4,498.31	4,508.12	4,577.31	19.75	19.38	-129.50	-4,363.75	484.51	4,463.15	4,424.05	39.10	114.137		
4,600.00	4,598.26	4,580.80	4,649.98	20.19	19.69	-129.53	-4,362.60	485.05	4,463.58	4,423.73	39.84	112.025		
4,700.00	4,698.22	4,649.02	4,718.19	20.62	19.97	-129.55	-4,361.99	485.38	4,464.65	4,424.09	40.57	110.060		
4,800.00	4,798.18	4,723.72	4,792.90	21.05	20.28	-129.58	-4,361.89	485.74	4,466.45	4,425.13	41.31	108.112		
4,900.00	4,898.13	4,824.31	4,893.48	21.49	20.70	-129.62	-4,361.93	486.27	4,468.44	4,426.27	42.17	105.959		
5,000.00	4,998.09	4,923.27	4,992.44	21.92	21.12	-129.65	-4,362.01	486.55	4,470.45	4,427.43	43.02	103.908		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,100.00	5,098.04	5,023.90	5,093.07	22.36	21.54	-129.68	-4,362.09	486.90	4,472.48	4,428.60	43.88	101.919		
5,200.00	5,198.00	5,132.24	5,201.41	22.79	22.00	-129.72	-4,362.04	487.55	4,474.41	4,429.64	44.78	99.929		
5,300.00	5,297.96	5,267.10	5,336.26	23.23	22.56	-129.78	-4,361.41	488.51	4,475.97	4,430.19	45.78	97.767		
5,400.00	5,397.91	5,442.89	5,512.00	23.67	23.30	-129.87	-4,358.38	491.17	4,476.52	4,429.57	46.96	95.336		
5,500.00	5,497.87	5,560.24	5,629.21	24.10	23.80	-129.96	-4,354.04	494.87	4,475.11	4,427.23	47.89	93.455		
5,600.00	5,597.82	5,624.28	5,693.20	24.54	24.07	-130.00	-4,352.17	496.57	4,474.49	4,425.89	48.60	92.069		
5,628.52	5,626.33	5,642.78	5,711.69	24.66	24.15	-130.01	-4,351.74	496.99	4,474.46	4,425.65	48.80	91.684		
5,700.00	5,697.78	5,700.01	5,768.90	24.97	24.39	-130.04	-4,350.69	498.04	4,474.68	4,425.32	49.36	90.656		
5,800.00	5,797.74	5,762.47	5,831.35	25.41	24.66	-130.07	-4,349.96	498.78	4,475.53	4,425.47	50.06	89.403		
5,900.00	5,897.69	5,846.16	5,915.04	25.85	25.01	-130.10	-4,349.47	499.20	4,476.92	4,426.07	50.85	88.041		
6,000.00	5,997.65	5,951.78	6,020.66	26.28	25.46	-130.14	-4,349.04	499.45	4,478.47	4,426.74	51.73	86.567		
6,100.00	6,097.60	6,056.25	6,125.13	26.72	25.90	-130.17	-4,348.37	499.39	4,479.74	4,427.12	52.61	85.144		
6,200.00	6,197.56	6,162.43	6,231.31	27.16	26.35	-130.20	-4,347.74	499.20	4,481.04	4,427.54	53.50	83.757		
6,300.00	6,297.52	6,277.37	6,346.24	27.59	26.84	-130.23	-4,346.69	498.93	4,482.02	4,427.60	54.42	82.352		
6,400.00	6,397.47	6,370.59	6,439.46	28.03	27.24	-130.25	-4,345.73	498.68	4,482.89	4,427.63	55.26	81.127		
6,500.00	6,497.43	6,463.91	6,532.77	28.47	27.63	-130.28	-4,344.97	498.42	4,483.96	4,427.87	56.09	79.942		
6,600.00	6,597.38	6,563.64	6,632.50	28.90	28.06	-130.30	-4,344.29	497.82	4,485.11	4,428.16	56.95	78.754		
6,700.00	6,697.08	6,678.44	6,747.29	29.34	28.54	-104.43	-4,343.25	497.69	4,486.69	4,428.81	57.88	77.520		
6,800.00	6,794.63	6,784.34	6,853.18	29.79	28.99	-100.96	-4,341.90	497.86	4,490.04	4,431.26	58.77	76.397		
6,900.00	6,887.62	6,875.75	6,944.59	30.24	29.38	-99.83	-4,340.75	497.58	4,495.65	4,436.04	59.61	75.415		
7,000.00	6,973.77	6,963.54	7,032.37	30.70	29.76	-99.16	-4,339.60	497.69	4,503.82	4,443.37	60.45	74.508		
7,100.00	7,050.94	7,027.63	7,096.44	31.20	30.03	-98.42	-4,338.65	498.46	4,514.78	4,453.57	61.21	73.754		
7,200.00	7,117.24	7,071.29	7,140.10	31.77	30.21	-97.38	-4,338.18	499.11	4,529.04	4,467.09	61.96	73.101		
7,300.00	7,171.03	7,109.51	7,178.31	32.46	30.37	-96.08	-4,337.94	499.73	4,546.61	4,483.84	62.77	72.427		
7,400.00	7,211.00	7,147.95	7,216.75	33.29	30.54	-94.57	-4,337.73	500.37	4,567.25	4,503.53	63.72	71.672		
7,500.00	7,236.16	7,171.50	7,240.29	34.29	30.64	-92.66	-4,337.61	500.76	4,590.71	4,525.96	64.74	70.905		
7,600.00	7,245.89	7,179.57	7,248.36	35.43	30.67	-90.34	-4,337.56	500.89	4,616.60	4,550.79	65.81	70.148		
7,700.00	7,245.73	7,177.74	7,246.54	36.72	30.66	-89.96	-4,337.57	500.86	4,644.50	4,577.55	66.95	69.376		
7,800.00	7,245.42	7,175.77	7,244.56	38.18	30.66	-89.93	-4,337.58	500.83	4,674.37	4,606.16	68.21	68.527		
7,900.00	7,245.10	7,173.79	7,242.58	39.80	30.65	-89.91	-4,337.59	500.80	4,706.17	4,636.59	69.59	67.631		
8,000.00	7,244.79	7,171.81	7,240.61	41.54	30.64	-89.88	-4,337.61	500.77	4,739.87	4,668.82	71.05	66.713		
8,100.00	7,244.48	7,169.84	7,238.63	43.41	30.63	-89.85	-4,337.62	500.73	4,775.43	4,702.85	72.58	65.795		
8,200.00	7,244.17	7,167.86	7,236.65	45.38	30.62	-89.83	-4,337.63	500.70	4,812.80	4,738.63	74.17	64.892		
8,300.00	7,243.86	7,165.88	7,234.68	47.44	30.61	-89.80	-4,337.64	500.67	4,851.94	4,776.15	75.79	64.018		
8,400.00	7,243.55	7,163.91	7,232.70	49.58	30.61	-89.78	-4,337.65	500.63	4,892.82	4,815.37	77.44	63.180		
8,500.00	7,243.23	7,161.93	7,230.72	51.78	30.60	-89.75	-4,337.66	500.60	4,935.38	4,856.27	79.11	62.386		
8,600.00	7,242.92	7,159.95	7,228.75	54.05	30.59	-89.73	-4,337.67	500.57	4,979.58	4,898.79	80.79	61.639		
8,700.00	7,242.61	7,157.98	7,226.77	56.37	30.58	-89.70	-4,337.68	500.54	5,025.39	4,942.92	82.46	60.941		
8,800.00	7,242.30	7,156.00	7,224.79	58.74	30.57	-89.68	-4,337.69	500.50	5,072.75	4,988.62	84.13	60.295		
8,900.00	7,241.99	7,154.02	7,222.82	61.16	30.56	-89.65	-4,337.70	500.47	5,121.62	5,035.84	85.79	59.701		
9,000.00	7,241.67	7,152.05	7,220.84	63.61	30.55	-89.63	-4,337.71	500.44	5,171.97	5,084.54	87.43	59.157		
9,100.00	7,241.36	7,150.07	7,218.86	66.09	30.55	-89.60	-4,337.72	500.40	5,223.75	5,134.70	89.05	58.662		
9,200.00	7,241.05	7,148.09	7,216.89	68.60	30.54	-89.57	-4,337.73	500.37	5,276.91	5,186.27	90.64	58.215		
9,300.00	7,240.74	7,146.12	7,214.91	71.13	30.53	-89.55	-4,337.74	500.34	5,331.42	5,239.20	92.21	57.815		
9,400.00	7,240.43	7,144.14	7,212.94	73.70	30.52	-89.52	-4,337.75	500.31	5,387.23	5,293.47	93.76	57.460		
9,500.00	7,240.11	7,142.16	7,210.96	76.28	30.51	-89.50	-4,337.76	500.27	5,444.30	5,349.04	95.27	57.147		
9,600.00	7,239.80	7,140.19	7,208.98	78.88	30.50	-89.47	-4,337.77	500.24	5,502.60	5,405.85	96.75	56.874		
9,700.00	7,239.49	7,138.21	7,207.01	81.50	30.50	-89.45	-4,337.78	500.21	5,562.09	5,463.89	98.20	56.641		
9,800.00	7,239.18	7,136.23	7,205.03	84.13	30.49	-89.42	-4,337.79	500.17	5,622.73	5,523.11	99.62	56.444		
9,900.00	7,238.87	7,134.26	7,203.05	86.78	30.48	-89.40	-4,337.81	500.14	5,684.47	5,583.47	101.00	56.282		
10,000.00	7,238.55	7,132.28	7,201.08	89.44	30.47	-89.37	-4,337.82	500.11	5,747.30	5,644.95	102.35	56.153		
10,100.00	7,238.24	7,130.30	7,199.10	92.11	30.46	-89.35	-4,337.83	500.08	5,811.16	5,707.49	103.67	56.056		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,200.00	7,237.93	7,128.33	7,197.12	94.80	30.45	-89.32	-4,337.84	500.04	5,876.03	5,771.08	104.95	55.988		
10,300.00	7,237.62	7,126.35	7,195.15	97.49	30.45	-89.29	-4,337.85	500.01	5,941.88	5,835.67	106.20	55.948		
10,400.00	7,237.31	7,124.37	7,193.17	100.19	30.44	-89.27	-4,337.86	499.98	6,008.66	5,901.24	107.42	55.935 SF		
10,500.00	7,236.99	7,122.40	7,191.19	102.90	30.43	-89.24	-4,337.87	499.94	6,076.36	5,967.75	108.61	55.947		
10,600.00	7,236.68	7,120.42	7,189.22	105.62	30.42	-89.22	-4,337.88	499.91	6,144.94	6,035.18	109.76	55.984		
10,700.00	7,236.37	7,118.44	7,187.24	108.35	30.41	-89.19	-4,337.89	499.88	6,214.37	6,103.49	110.89	56.042		
10,800.00	7,236.06	7,116.47	7,185.27	111.08	30.40	-89.17	-4,337.90	499.85	6,284.63	6,172.65	111.98	56.123		
10,900.00	7,235.75	7,114.49	7,183.29	113.82	30.40	-89.14	-4,337.91	499.81	6,355.68	6,242.64	113.04	56.224		
11,000.00	7,235.44	7,112.51	7,181.31	116.56	30.39	-89.12	-4,337.92	499.78	6,427.50	6,313.42	114.08	56.344		
11,100.00	7,235.12	7,110.54	7,179.34	119.31	30.38	-89.09	-4,337.93	499.75	6,500.06	6,384.98	115.08	56.482		
11,200.00	7,234.81	7,108.56	7,177.36	122.07	30.37	-89.07	-4,337.94	499.71	6,573.35	6,457.29	116.06	56.638		
11,300.00	7,234.50	7,106.58	7,175.38	124.83	30.36	-89.04	-4,337.95	499.68	6,647.33	6,530.32	117.01	56.810		
11,400.00	7,234.19	7,104.60	7,173.41	127.59	30.35	-89.01	-4,337.96	499.65	6,721.98	6,604.05	117.93	56.998		
11,500.00	7,233.88	7,102.63	7,171.43	130.36	30.35	-88.99	-4,337.97	499.62	6,797.29	6,678.46	118.83	57.201		
11,600.00	7,233.56	7,100.65	7,169.45	133.13	30.34	-88.96	-4,337.98	499.58	6,873.22	6,753.52	119.70	57.419		
11,700.00	7,233.25	7,101.35	7,167.48	135.91	30.34	-88.94	-4,338.00	499.55	6,949.76	6,829.20	120.56	57.644		
11,800.00	7,232.94	7,103.33	7,165.50	138.68	30.35	-88.91	-4,338.01	499.52	7,026.89	6,905.49	121.41	57.880		
11,900.00	7,232.63	7,105.31	7,163.52	141.47	30.36	-88.89	-4,338.02	499.48	7,104.60	6,982.37	122.22	58.128		
12,000.00	7,232.32	7,107.28	7,161.55	144.25	30.37	-88.86	-4,338.03	499.45	7,182.85	7,059.83	123.02	58.387		
12,100.00	7,232.00	7,109.26	7,159.57	147.04	30.37	-88.84	-4,338.04	499.42	7,261.63	7,137.84	123.80	58.658		
12,200.00	7,231.69	7,111.24	7,157.59	149.83	30.38	-88.81	-4,338.05	499.39	7,340.93	7,216.38	124.55	58.940		
12,300.00	7,231.38	7,113.21	7,155.62	152.62	30.39	-88.79	-4,338.06	499.35	7,420.74	7,295.45	125.28	59.232		
12,400.00	7,231.07	7,115.19	7,153.64	155.42	30.40	-88.76	-4,338.07	499.32	7,501.02	7,375.02	126.00	59.533		
12,500.00	7,230.76	7,117.17	7,151.67	158.22	30.41	-88.73	-4,338.08	499.29	7,581.77	7,455.08	126.69	59.843		
12,600.00	7,230.44	7,119.14	7,149.69	161.01	30.42	-88.71	-4,338.09	499.26	7,662.98	7,535.61	127.37	60.163		
12,700.00	7,230.13	7,121.12	7,147.71	163.82	30.42	-88.68	-4,338.10	499.22	7,744.63	7,616.60	128.03	60.491		
12,800.00	7,229.82	7,100.01	7,168.82	166.62	30.33	-88.96	-4,337.99	499.57	7,826.73	7,698.15	128.58	60.870		
12,900.00	7,229.51	7,085.05	7,153.85	169.43	30.27	-88.76	-4,338.08	499.33	7,909.20	7,780.07	129.13	61.250		
13,000.00	7,229.20	7,083.89	7,152.70	172.23	30.27	-88.75	-4,338.09	499.31	7,992.08	7,862.35	129.73	61.607		
13,100.00	7,228.88	7,082.75	7,151.55	175.04	30.26	-88.73	-4,338.10	499.29	8,075.35	7,945.05	130.31	61.971		
13,200.00	7,228.57	7,081.60	7,150.41	177.85	30.26	-88.72	-4,338.10	499.27	8,159.00	8,028.13	130.87	62.343		
13,300.00	7,228.26	7,080.46	7,149.27	180.66	30.25	-88.70	-4,338.11	499.25	8,243.01	8,111.59	131.42	62.720		
13,400.00	7,227.95	7,079.33	7,148.13	183.48	30.25	-88.69	-4,338.12	499.24	8,327.38	8,195.42	131.96	63.104		
13,500.00	7,227.64	7,078.20	7,147.00	186.29	30.24	-88.67	-4,338.13	499.22	8,412.09	8,279.60	132.49	63.494		
13,600.00	7,227.33	7,077.07	7,145.88	189.11	30.24	-88.66	-4,338.14	499.20	8,497.13	8,364.13	133.00	63.890		
13,700.00	7,227.01	7,075.95	7,144.75	191.92	30.23	-88.65	-4,338.15	499.18	8,582.49	8,449.00	133.49	64.291		
13,800.00	7,226.70	7,074.83	7,143.63	194.74	30.23	-88.63	-4,338.16	499.16	8,668.16	8,534.19	133.98	64.698		
13,900.00	7,226.39	7,073.71	7,142.52	197.56	30.22	-88.62	-4,338.16	499.15	8,754.14	8,619.69	134.45	65.110		
14,000.00	7,226.08	7,072.60	7,141.41	200.38	30.22	-88.60	-4,338.17	499.13	8,840.42	8,705.50	134.91	65.526		
14,100.00	7,225.77	7,071.50	7,140.30	203.21	30.21	-88.59	-4,338.18	499.11	8,926.98	8,791.61	135.36	65.948		
14,200.00	7,225.45	7,070.40	7,139.20	206.03	30.21	-88.57	-4,338.19	499.10	9,013.81	8,878.01	135.80	66.373		
14,300.00	7,225.14	7,069.30	7,138.10	208.85	30.20	-88.56	-4,338.20	499.08	9,100.92	8,964.69	136.23	66.803		
14,400.00	7,224.83	7,068.20	7,137.01	211.68	30.20	-88.55	-4,338.21	499.06	9,188.29	9,051.64	136.65	67.238		
14,500.00	7,224.52	7,067.11	7,135.92	214.50	30.19	-88.53	-4,338.22	499.04	9,275.92	9,138.85	137.06	67.676		
14,600.00	7,224.21	7,066.03	7,134.83	217.33	30.19	-88.52	-4,338.23	499.03	9,363.79	9,226.32	137.46	68.118		
14,700.00	7,223.89	7,064.95	7,133.75	220.16	30.19	-88.50	-4,338.24	499.01	9,451.90	9,314.05	137.85	68.564		
14,800.00	7,223.58	7,063.87	7,132.67	222.98	30.18	-88.49	-4,338.25	498.99	9,540.25	9,402.01	138.24	69.014		
14,900.00	7,223.27	7,062.79	7,131.60	225.81	30.18	-88.48	-4,338.26	498.98	9,628.82	9,490.21	138.61	69.467		
14,987.41	7,223.00	7,061.86	7,130.66	228.28	30.17	-88.46	-4,338.27	498.96	9,706.43	9,567.50	138.93	69.866		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	20.22	-1.78	3.28	3.28	172.87	-4,359.27	545.24	4,393.24					
100.00	100.00	112.87	90.87	3.28	3.29	172.87	-4,359.41	545.14	4,393.37	4,386.79	6.58	668.114		
200.00	200.00	211.70	189.70	3.34	3.35	172.87	-4,359.65	545.03	4,393.60	4,386.91	6.69	656.794		
300.00	300.00	318.17	296.17	3.44	3.48	172.88	-4,359.84	544.82	4,393.75	4,386.83	6.92	634.919		
400.00	400.00	418.38	396.38	3.60	3.64	172.88	-4,359.97	544.48	4,393.84	4,386.60	7.24	606.663		
500.00	500.00	520.81	498.81	3.81	3.85	172.89	-4,360.05	544.16	4,393.88	4,386.22	7.66	573.980		
600.00	600.00	619.02	597.02	4.05	4.09	172.89	-4,360.16	543.80	4,393.94	4,385.81	8.13	540.421 ES		
700.00	699.98	720.82	698.81	4.32	4.36	-129.11	-4,360.23	543.50	4,395.05	4,386.37	8.67	506.777		
800.00	799.94	817.26	795.26	4.61	4.65	-129.14	-4,360.33	543.30	4,397.00	4,387.75	9.25	475.519		
900.00	899.89	918.47	896.46	4.92	4.96	-129.16	-4,360.45	542.97	4,398.95	4,389.08	9.88	445.391		
1,000.00	999.85	1,017.11	995.11	5.25	5.29	-129.19	-4,360.59	542.69	4,400.93	4,390.40	10.53	417.840		
1,100.00	1,099.80	1,119.57	1,097.56	5.60	5.64	-129.21	-4,360.69	542.40	4,402.87	4,391.64	11.23	392.077		
1,200.00	1,199.76	1,214.20	1,192.19	5.96	5.98	-129.24	-4,360.84	542.05	4,404.85	4,392.93	11.92	369.455		
1,300.00	1,299.72	1,305.96	1,283.95	6.33	6.31	-129.26	-4,361.14	541.65	4,407.00	4,394.38	12.62	349.104		
1,400.00	1,399.67	1,408.74	1,386.73	6.71	6.69	-129.28	-4,361.55	541.15	4,409.21	4,395.83	13.38	329.506		
1,500.00	1,499.63	1,515.52	1,493.51	7.10	7.09	-129.31	-4,361.85	540.49	4,411.29	4,397.12	14.17	311.356		
1,600.00	1,599.58	1,613.76	1,591.75	7.49	7.47	-129.33	-4,362.09	539.83	4,413.33	4,398.40	14.93	295.520		
1,700.00	1,699.54	1,712.61	1,690.59	7.88	7.85	-129.35	-4,362.36	539.21	4,415.40	4,399.68	15.71	281.015		
1,800.00	1,799.50	1,807.63	1,785.61	8.28	8.22	-129.37	-4,362.69	538.55	4,417.54	4,401.05	16.48	267.990		
1,900.00	1,899.45	1,901.62	1,879.60	8.69	8.60	-129.38	-4,363.15	537.76	4,419.80	4,402.54	17.26	256.092		
2,000.00	1,999.41	2,000.49	1,978.46	9.10	8.99	-129.40	-4,363.75	536.71	4,422.15	4,404.09	18.06	244.871		
2,100.00	2,099.36	2,112.09	2,090.05	9.51	9.44	-129.41	-4,364.31	535.37	4,424.37	4,405.46	18.92	233.890		
2,200.00	2,199.32	2,218.27	2,196.22	9.92	9.86	-129.43	-4,364.67	533.96	4,426.42	4,406.67	19.76	224.042		
2,300.00	2,299.28	2,332.45	2,310.39	10.34	10.33	-129.44	-4,364.75	532.45	4,428.20	4,407.57	20.63	214.601		
2,400.00	2,399.23	2,438.18	2,416.11	10.75	10.76	-129.46	-4,364.55	531.16	4,429.74	4,408.26	21.48	206.214		
2,500.00	2,499.19	2,538.83	2,516.76	11.17	11.17	-129.47	-4,364.30	530.14	4,431.26	4,408.94	22.31	198.617		
2,600.00	2,599.14	2,641.14	2,619.06	11.60	11.59	-129.49	-4,363.97	529.27	4,432.71	4,409.56	23.15	191.483		
2,700.00	2,699.10	2,737.59	2,715.51	12.02	11.99	-129.51	-4,363.66	528.44	4,434.16	4,410.20	23.97	185.012		
2,800.00	2,799.06	2,833.93	2,811.84	12.44	12.38	-129.53	-4,363.48	527.65	4,435.76	4,410.97	24.79	178.960		
2,900.00	2,899.01	2,931.47	2,909.38	12.87	12.79	-129.55	-4,363.25	526.96	4,437.33	4,411.71	25.61	173.246		
3,000.00	2,998.97	3,016.16	2,994.07	13.29	13.14	-129.57	-4,363.27	526.52	4,439.17	4,412.78	26.39	168.229		
3,100.00	3,098.92	3,109.16	3,087.07	13.72	13.53	-129.59	-4,363.52	526.07	4,441.26	4,414.06	27.20	163.288		
3,200.00	3,198.88	3,211.95	3,189.85	14.14	13.95	-129.61	-4,363.82	525.52	4,443.36	4,415.31	28.05	158.392		
3,300.00	3,298.84	3,299.10	3,277.00	14.57	14.32	-129.63	-4,364.19	525.02	4,445.60	4,416.76	28.84	154.134		
3,400.00	3,398.79	3,389.66	3,367.57	15.00	14.70	-129.65	-4,364.81	524.45	4,448.09	4,418.45	29.65	150.032		
3,500.00	3,498.75	3,546.66	3,524.56	15.43	15.35	-129.69	-4,364.98	523.69	4,450.02	4,419.29	30.73	144.791		
3,600.00	3,598.70	3,668.03	3,645.92	15.86	15.86	-129.72	-4,363.94	523.56	4,451.04	4,419.37	31.67	140.544		
3,700.00	3,698.66	3,781.46	3,759.34	16.29	16.33	-129.75	-4,362.59	523.29	4,451.73	4,419.15	32.57	136.665		
3,800.00	3,798.62	3,872.20	3,850.07	16.72	16.71	-129.78	-4,361.42	523.10	4,452.33	4,418.94	33.38	133.363		
3,900.00	3,898.57	3,961.62	3,939.49	17.15	17.08	-129.80	-4,360.54	522.76	4,453.20	4,419.01	34.19	130.244		
4,000.00	3,998.53	4,054.02	4,031.89	17.59	17.47	-129.83	-4,359.83	522.34	4,454.27	4,419.26	35.01	127.227		
4,100.00	4,098.48	4,140.72	4,118.59	18.02	17.84	-129.85	-4,359.34	521.82	4,455.54	4,419.73	35.81	124.434		
4,200.00	4,198.44	4,227.02	4,204.88	18.45	18.20	-129.87	-4,359.20	521.30	4,457.19	4,420.59	36.60	121.777		
4,300.00	4,298.40	4,327.82	4,305.68	18.88	18.62	-129.89	-4,359.10	520.73	4,458.92	4,421.46	37.46	119.038		
4,400.00	4,398.35	4,423.32	4,401.18	19.32	19.03	-129.91	-4,359.08	520.25	4,460.72	4,422.43	38.29	116.490		
4,500.00	4,498.31	4,525.64	4,503.50	19.75	19.46	-129.93	-4,359.05	519.79	4,462.54	4,423.38	39.16	113.964		
4,600.00	4,598.26	4,625.43	4,603.28	20.19	19.88	-129.96	-4,358.97	519.32	4,464.30	4,424.29	40.01	111.575		
4,700.00	4,698.22	4,715.57	4,693.43	20.62	20.26	-129.98	-4,359.03	518.84	4,466.20	4,425.38	40.82	109.399		
4,800.00	4,798.18	4,804.77	4,782.63	21.05	20.64	-130.00	-4,359.27	518.68	4,468.34	4,426.71	41.63	107.323		
4,900.00	4,898.13	4,905.55	4,883.41	21.49	21.06	-130.03	-4,359.61	518.71	4,470.59	4,428.10	42.49	105.205		
5,000.00	4,998.09	5,005.42	4,983.27	21.92	21.48	-130.06	-4,359.94	518.74	4,472.83	4,429.48	43.35	103.178		
5,100.00	5,098.04	5,100.68	5,078.53	22.36	21.89	-130.09	-4,360.30	518.77	4,475.13	4,430.94	44.19	101.276		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,198.52	5,176.37	22.79	22.30	-130.12	-4,360.75	518.86	4,477.50	4,432.46	45.04	99.421		
5,300.00	5,297.96	5,304.69	5,282.54	23.23	22.75	-130.15	-4,361.19	518.85	4,479.83	4,433.91	45.92	97.555		
5,400.00	5,397.91	5,405.73	5,383.58	23.67	23.17	-130.17	-4,361.55	518.76	4,482.08	4,435.29	46.78	95.803		
5,500.00	5,497.87	5,499.20	5,477.05	24.10	23.57	-130.20	-4,361.93	518.71	4,484.39	4,436.77	47.61	94.180		
5,600.00	5,597.82	5,652.51	5,630.36	24.54	24.22	-130.25	-4,361.40	519.00	4,485.89	4,437.19	48.70	92.106		
5,700.00	5,697.78	5,741.75	5,719.60	24.97	24.59	-130.28	-4,360.76	519.17	4,487.14	4,437.62	49.52	90.619		
5,800.00	5,797.74	5,822.44	5,800.29	25.41	24.93	-130.30	-4,360.57	519.15	4,488.81	4,438.52	50.29	89.253		
5,900.00	5,897.69	5,915.55	5,893.40	25.85	25.33	-130.33	-4,360.62	519.05	4,490.77	4,439.65	51.12	87.842		
6,000.00	5,997.65	6,018.78	5,996.62	26.28	25.77	-130.35	-4,360.71	518.72	4,492.73	4,440.73	52.00	86.403		
6,100.00	6,097.60	6,114.01	6,091.86	26.72	26.17	-130.37	-4,360.86	518.28	4,494.74	4,441.90	52.84	85.068		
6,200.00	6,197.56	6,219.36	6,197.20	27.16	26.62	-130.40	-4,361.06	517.69	4,496.77	4,443.05	53.72	83.706		
6,300.00	6,297.52	6,342.83	6,320.67	27.59	27.15	-130.42	-4,360.84	516.72	4,498.40	4,443.71	54.68	82.263		
6,400.00	6,397.47	6,448.25	6,426.08	28.03	27.60	-130.44	-4,360.35	515.63	4,499.70	4,444.13	55.57	80.977		
6,500.00	6,497.43	6,554.85	6,532.68	28.47	28.05	-130.45	-4,359.80	514.53	4,500.97	4,444.51	56.46	79.724		
6,600.00	6,597.38	6,659.78	6,637.59	28.90	28.50	-130.47	-4,359.07	513.13	4,502.01	4,444.67	57.34	78.515		
6,700.00	6,697.08	6,756.68	6,734.48	29.34	28.91	-104.56	-4,358.43	511.72	4,503.64	4,445.45	58.19	77.395		
6,800.00	6,794.63	6,864.02	6,841.80	29.79	29.37	-101.03	-4,357.81	509.56	4,507.39	4,448.30	59.09	76.278		
6,900.00	6,887.62	6,972.48	6,950.21	30.24	29.83	-99.93	-4,356.94	506.51	4,513.13	4,453.13	60.00	75.215		
7,000.00	6,973.77	7,071.90	7,049.57	30.70	30.25	-99.32	-4,355.94	503.26	4,521.12	4,460.23	60.89	74.253		
7,100.00	7,050.94	7,154.91	7,132.51	31.20	30.61	-98.72	-4,355.04	499.99	4,531.68	4,469.94	61.74	73.402		
7,200.00	7,117.24	7,224.14	7,201.68	31.77	30.90	-97.96	-4,354.29	497.23	4,545.18	4,482.58	62.59	72.613		
7,300.00	7,171.03	7,281.25	7,258.74	32.46	31.15	-96.93	-4,353.67	494.95	4,561.77	4,498.27	63.50	71.839		
7,400.00	7,211.00	7,324.83	7,302.29	33.29	31.33	-95.56	-4,353.19	493.21	4,581.50	4,517.02	64.48	71.058		
7,500.00	7,236.16	7,353.82	7,331.25	34.29	31.46	-93.78	-4,352.88	492.05	4,604.24	4,538.71	65.52	70.268		
7,600.00	7,245.89	7,367.50	7,344.92	35.43	31.52	-91.57	-4,352.73	491.51	4,629.66	4,563.04	66.62	69.494		
7,700.00	7,245.73	7,371.33	7,348.74	36.72	31.53	-91.27	-4,352.69	491.35	4,657.28	4,589.49	67.78	68.710		
7,800.00	7,245.42	7,375.00	7,352.41	38.18	31.55	-91.32	-4,352.65	491.21	4,686.86	4,617.79	69.08	67.851		
7,900.00	7,245.10	7,378.66	7,356.07	39.80	31.56	-91.36	-4,352.61	491.06	4,718.38	4,647.91	70.48	66.948		
8,000.00	7,244.79	7,382.33	7,359.74	41.54	31.58	-91.41	-4,352.57	490.91	4,751.80	4,679.83	71.97	66.025		
8,100.00	7,244.48	7,386.00	7,363.41	43.41	31.59	-91.46	-4,352.53	490.77	4,787.06	4,713.53	73.53	65.103		
8,200.00	7,244.17	7,389.67	7,367.07	45.38	31.61	-91.50	-4,352.49	490.62	4,824.14	4,748.99	75.15	64.197		
8,300.00	7,243.86	7,393.34	7,370.74	47.44	31.63	-91.55	-4,352.45	490.48	4,862.99	4,786.19	76.80	63.319		
8,400.00	7,243.55	7,397.01	7,374.41	49.58	31.64	-91.60	-4,352.41	490.33	4,903.57	4,825.09	78.48	62.478		
8,500.00	7,243.23	7,400.68	7,378.07	51.78	31.66	-91.65	-4,352.37	490.18	4,945.83	4,865.65	80.18	61.681		
8,600.00	7,242.92	7,404.35	7,381.74	54.05	31.67	-91.69	-4,352.33	490.04	4,989.74	4,907.85	81.89	60.932		
8,700.00	7,242.61	7,408.02	7,385.40	56.37	31.69	-91.74	-4,352.29	489.89	5,035.25	4,951.66	83.60	60.231		
8,800.00	7,242.30	7,411.69	7,389.07	58.74	31.70	-91.79	-4,352.25	489.74	5,082.32	4,997.02	85.30	59.582		
8,900.00	7,241.99	7,415.36	7,392.74	61.16	31.72	-91.83	-4,352.21	489.60	5,130.90	5,043.92	86.99	58.984		
9,000.00	7,241.67	7,419.03	7,396.40	63.61	31.74	-91.88	-4,352.17	489.45	5,180.96	5,092.30	88.66	58.436		
9,100.00	7,241.36	7,422.70	7,400.07	66.09	31.75	-91.93	-4,352.13	489.30	5,232.44	5,142.13	90.31	57.937		
9,200.00	7,241.05	7,426.37	7,403.74	68.60	31.77	-91.98	-4,352.09	489.16	5,285.31	5,193.37	91.94	57.485		
9,300.00	7,240.74	7,400.00	7,377.39	71.13	31.65	-91.64	-4,352.37	490.21	5,339.62	5,246.20	93.41	57.161		
9,400.00	7,240.43	7,400.00	7,377.39	73.70	31.65	-91.64	-4,352.37	490.21	5,395.17	5,300.19	94.97	56.807		
9,500.00	7,240.11	7,400.00	7,377.39	76.28	31.65	-91.64	-4,352.37	490.21	5,451.98	5,355.48	96.50	56.496		
9,600.00	7,239.80	7,400.00	7,377.39	78.88	31.65	-91.64	-4,352.37	490.21	5,510.02	5,412.02	98.00	56.225		
9,700.00	7,239.49	7,400.00	7,377.39	81.50	31.65	-91.64	-4,352.37	490.21	5,569.26	5,469.79	99.47	55.992		
9,800.00	7,239.18	7,400.00	7,377.39	84.13	31.65	-91.64	-4,352.37	490.21	5,629.65	5,528.75	100.90	55.794		
9,900.00	7,238.87	7,400.00	7,377.39	86.78	31.65	-91.64	-4,352.37	490.21	5,691.15	5,588.85	102.30	55.632		
10,000.00	7,238.55	7,400.00	7,377.39	89.44	31.65	-91.64	-4,352.37	490.21	5,753.74	5,650.07	103.67	55.502		
10,100.00	7,238.24	7,400.00	7,377.39	92.11	31.65	-91.64	-4,352.37	490.21	5,817.37	5,712.37	105.00	55.403		
10,200.00	7,237.93	7,400.00	7,377.39	94.80	31.65	-91.64	-4,352.37	490.21	5,882.01	5,775.71	106.30	55.333		
10,300.00	7,237.62	7,400.00	7,377.39	97.49	31.65	-91.64	-4,352.37	490.21	5,947.63	5,840.06	107.57	55.291		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	7,400.00	7,377.39	100.19	31.65	-91.64	-4,352.37	490.21	6,014.20	5,905.40	108.80	55.275 SF		
10,500.00	7,236.99	7,400.00	7,377.39	102.90	31.65	-91.64	-4,352.37	490.21	6,081.68	5,971.68	110.01	55.284		
10,600.00	7,236.68	7,400.00	7,377.39	105.62	31.65	-91.64	-4,352.37	490.21	6,150.05	6,038.88	111.18	55.317		
10,700.00	7,236.37	7,400.00	7,377.39	108.35	31.65	-91.64	-4,352.37	490.21	6,219.28	6,106.96	112.32	55.372		
10,800.00	7,236.06	7,400.00	7,377.39	111.08	31.65	-91.64	-4,352.37	490.21	6,289.33	6,175.91	113.43	55.448		
10,900.00	7,235.75	7,400.00	7,377.39	113.82	31.65	-91.64	-4,352.37	490.21	6,360.19	6,245.68	114.51	55.545		
11,000.00	7,235.44	7,400.00	7,377.39	116.56	31.65	-91.64	-4,352.37	490.21	6,431.82	6,316.26	115.56	55.660		
11,100.00	7,235.12	7,400.00	7,377.39	119.31	31.65	-91.64	-4,352.37	490.21	6,504.20	6,387.62	116.58	55.794		
11,200.00	7,234.81	7,400.00	7,377.39	122.07	31.65	-91.64	-4,352.37	490.21	6,577.30	6,459.73	117.57	55.944		
11,300.00	7,234.50	7,400.00	7,377.39	124.83	31.65	-91.64	-4,352.37	490.21	6,651.10	6,532.57	118.53	56.111		
11,400.00	7,234.19	7,400.00	7,377.39	127.59	31.65	-91.64	-4,352.37	490.21	6,725.58	6,606.11	119.47	56.294		
11,500.00	7,233.88	7,400.00	7,377.39	130.36	31.65	-91.64	-4,352.37	490.21	6,800.71	6,680.33	120.39	56.491		
11,600.00	7,233.56	7,400.00	7,377.39	133.13	31.65	-91.64	-4,352.37	490.21	6,876.48	6,755.21	121.27	56.703		
11,700.00	7,233.25	7,400.00	7,377.39	135.91	31.65	-91.64	-4,352.37	490.21	6,952.86	6,830.72	122.14	56.927		
11,800.00	7,232.94	7,400.00	7,377.39	138.68	31.65	-91.64	-4,352.37	490.21	7,029.83	6,906.86	122.98	57.165		
11,900.00	7,232.63	7,400.00	7,377.39	141.47	31.65	-91.64	-4,352.37	490.21	7,107.38	6,983.59	123.79	57.414		
12,000.00	7,232.32	7,400.00	7,377.39	144.25	31.65	-91.64	-4,352.37	490.21	7,185.48	7,060.89	124.59	57.675		
12,100.00	7,232.00	7,400.00	7,377.39	147.04	31.65	-91.64	-4,352.37	490.21	7,264.12	7,138.76	125.36	57.947		
12,200.00	7,231.69	7,400.00	7,377.39	149.83	31.65	-91.64	-4,352.37	490.21	7,343.27	7,217.16	126.11	58.229		
12,300.00	7,231.38	7,400.00	7,377.39	152.62	31.65	-91.64	-4,352.37	490.21	7,422.93	7,296.09	126.84	58.522		
12,400.00	7,231.07	7,400.00	7,377.39	155.42	31.65	-91.64	-4,352.37	490.21	7,503.08	7,375.53	127.55	58.824		
12,500.00	7,230.76	7,400.00	7,377.39	158.22	31.65	-91.64	-4,352.37	490.21	7,583.70	7,455.46	128.24	59.135		
12,600.00	7,230.44	7,400.00	7,377.39	161.01	31.65	-91.64	-4,352.37	490.21	7,664.78	7,535.86	128.92	59.455		
12,700.00	7,230.13	7,400.00	7,377.39	163.82	31.65	-91.64	-4,352.37	490.21	7,746.29	7,616.72	129.57	59.783		
12,800.00	7,229.82	7,400.00	7,377.39	166.62	31.65	-91.64	-4,352.37	490.21	7,828.24	7,698.03	130.21	60.119		
12,900.00	7,229.51	7,400.00	7,377.39	169.43	31.65	-91.64	-4,352.37	490.21	7,910.60	7,779.77	130.83	60.463		
13,000.00	7,229.20	7,400.00	7,377.39	172.23	31.65	-91.64	-4,352.37	490.21	7,993.37	7,861.93	131.44	60.814		
13,100.00	7,228.88	7,400.00	7,377.39	175.04	31.65	-91.64	-4,352.37	490.21	8,076.52	7,944.49	132.03	61.172		
13,200.00	7,228.57	7,400.00	7,377.39	177.85	31.65	-91.64	-4,352.37	490.21	8,160.05	8,027.45	132.60	61.537		
13,300.00	7,228.26	7,400.00	7,377.39	180.66	31.65	-91.64	-4,352.37	490.21	8,243.95	8,110.79	133.16	61.908		
13,400.00	7,227.95	7,400.00	7,377.39	183.48	31.65	-91.64	-4,352.37	490.21	8,328.21	8,194.50	133.71	62.286		
13,500.00	7,227.64	7,400.00	7,377.39	186.29	31.65	-91.64	-4,352.37	490.21	8,412.81	8,278.56	134.24	62.669		
13,600.00	7,227.33	7,400.00	7,377.39	189.11	31.65	-91.64	-4,352.37	490.21	8,497.74	8,362.98	134.76	63.058		
13,700.00	7,227.01	7,400.00	7,377.39	191.92	31.65	-91.64	-4,352.37	490.21	8,583.00	8,447.73	135.27	63.453		
13,800.00	7,226.70	7,400.00	7,377.39	194.74	31.65	-91.64	-4,352.37	490.21	8,668.57	8,532.81	135.76	63.852		
13,900.00	7,226.39	7,400.00	7,377.39	197.56	31.65	-91.64	-4,352.37	490.21	8,754.45	8,618.21	136.24	64.257		
14,000.00	7,226.08	7,400.00	7,377.39	200.38	31.65	-91.64	-4,352.37	490.21	8,840.63	8,703.92	136.71	64.667		
14,100.00	7,225.77	7,400.00	7,377.39	203.21	31.65	-91.64	-4,352.37	490.21	8,927.09	8,789.92	137.17	65.081		
14,200.00	7,225.45	7,400.00	7,377.39	206.03	31.65	-91.64	-4,352.37	490.21	9,013.84	8,876.22	137.62	65.500		
14,300.00	7,225.14	7,400.00	7,377.39	208.85	31.65	-91.64	-4,352.37	490.21	9,100.85	8,962.80	138.05	65.923		
14,400.00	7,224.83	7,400.00	7,377.39	211.68	31.65	-91.64	-4,352.37	490.21	9,188.14	9,049.65	138.48	66.350		
14,500.00	7,224.52	7,400.00	7,377.39	214.50	31.65	-91.64	-4,352.37	490.21	9,275.67	9,136.78	138.90	66.781		
14,600.00	7,224.21	7,400.00	7,377.39	217.33	31.65	-91.64	-4,352.37	490.21	9,363.46	9,224.16	139.31	67.215		
14,700.00	7,223.89	7,400.00	7,377.39	220.16	31.65	-91.64	-4,352.37	490.21	9,451.49	9,311.79	139.70	67.654		
14,800.00	7,223.58	7,400.00	7,377.39	222.98	31.65	-91.64	-4,352.37	490.21	9,539.76	9,399.66	140.09	68.096		
14,900.00	7,223.27	7,400.00	7,377.39	225.81	31.65	-91.64	-4,352.37	490.21	9,628.25	9,487.78	140.47	68.542		
14,987.41	7,223.00	7,400.00	7,377.39	228.28	31.65	-91.64	-4,352.37	490.21	9,705.79	9,564.99	140.80	68.934		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	22.82	-0.18	3.28	3.28	-26.46	2,322.84	-1,156.12	2,594.65					
100.00	100.00	120.86	97.86	3.28	3.29	-26.47	2,322.77	-1,156.32	2,594.68	2,588.10	6.58	394.405		
200.00	200.00	218.92	195.92	3.34	3.36	-26.47	2,322.93	-1,156.40	2,594.86	2,588.17	6.70	387.544		
300.00	300.00	328.27	305.27	3.44	3.49	-26.46	2,322.93	-1,156.05	2,594.70	2,587.77	6.93	374.200		
342.26	342.26	365.26	342.26	3.51	3.55	-26.46	2,322.93	-1,155.96	2,594.66	2,587.61	7.05	367.928		
400.00	400.00	420.04	397.04	3.60	3.64	-26.45	2,323.02	-1,155.93	2,594.72	2,587.48	7.24	358.151		
500.00	500.00	528.12	505.12	3.81	3.86	-26.45	2,322.95	-1,155.87	2,594.64	2,586.97	7.67	338.267		
600.00	600.00	634.87	611.87	4.05	4.12	-26.45	2,322.79	-1,155.60	2,594.40	2,586.23	8.17	317.548		
700.00	699.98	740.65	717.64	4.32	4.41	31.59	2,322.23	-1,155.00	2,592.21	2,583.48	8.73	296.984		
800.00	799.94	838.72	815.71	4.61	4.70	31.63	2,321.93	-1,154.51	2,589.18	2,579.87	9.31	278.061		
900.00	899.89	946.01	922.99	4.92	5.04	31.68	2,321.28	-1,153.69	2,585.76	2,575.80	9.97	259.476		
1,000.00	999.85	1,038.78	1,015.76	5.25	5.35	31.72	2,320.79	-1,153.11	2,582.49	2,571.88	10.61	243.504		
1,100.00	1,099.80	1,135.62	1,112.61	5.60	5.69	31.76	2,320.49	-1,152.60	2,579.46	2,568.17	11.29	228.552		
1,200.00	1,199.76	1,238.23	1,215.21	5.96	6.05	31.80	2,320.10	-1,152.07	2,576.37	2,564.36	12.01	214.522		
1,300.00	1,299.72	1,336.46	1,313.44	6.33	6.41	31.84	2,319.67	-1,151.63	2,573.26	2,560.52	12.74	202.028		
1,400.00	1,399.67	1,433.39	1,410.36	6.71	6.77	31.89	2,319.51	-1,150.98	2,570.29	2,556.81	13.48	190.743		
1,500.00	1,499.63	1,536.73	1,513.70	7.10	7.16	31.93	2,319.28	-1,150.38	2,567.32	2,553.07	14.25	180.155		
1,600.00	1,599.58	1,639.49	1,616.46	7.49	7.55	31.97	2,318.70	-1,150.03	2,564.14	2,549.10	15.04	170.536		
1,700.00	1,699.54	1,733.64	1,710.61	7.88	7.92	31.99	2,318.00	-1,150.25	2,561.06	2,545.26	15.80	162.118		
1,800.00	1,799.50	1,834.12	1,811.09	8.28	8.31	32.02	2,317.52	-1,150.50	2,558.22	2,541.63	16.59	154.187		
1,900.00	1,899.45	1,940.77	1,917.73	8.69	8.73	32.04	2,316.57	-1,150.65	2,554.95	2,537.53	17.42	146.691		
2,000.00	1,999.41	2,033.59	2,010.54	9.10	9.10	32.06	2,315.80	-1,151.15	2,551.92	2,533.73	18.20	140.253		
2,100.00	2,099.36	2,138.82	2,115.77	9.51	9.52	32.08	2,314.98	-1,151.60	2,548.90	2,529.88	19.03	133.962		
2,200.00	2,199.32	2,241.60	2,218.55	9.92	9.94	32.10	2,313.98	-1,151.84	2,545.61	2,525.75	19.85	128.213		
2,300.00	2,299.28	2,338.19	2,315.14	10.34	10.33	32.12	2,313.08	-1,152.26	2,542.44	2,521.78	20.66	123.051		
2,400.00	2,399.23	2,438.10	2,415.04	10.75	10.73	32.13	2,312.02	-1,152.96	2,539.29	2,517.80	21.49	118.186		
2,500.00	2,499.19	2,535.19	2,512.12	11.17	11.13	32.13	2,310.97	-1,153.85	2,536.21	2,513.91	22.30	113.724		
2,600.00	2,599.14	2,630.70	2,607.62	11.60	11.52	32.14	2,310.05	-1,154.78	2,533.25	2,510.14	23.11	109.600		
2,700.00	2,699.10	2,722.35	2,699.26	12.02	11.90	32.15	2,309.49	-1,155.56	2,530.56	2,506.65	23.91	105.827		
2,800.00	2,799.06	2,813.53	2,790.44	12.44	12.27	32.16	2,309.26	-1,156.47	2,528.25	2,503.53	24.71	102.315		
2,900.00	2,899.01	2,916.44	2,893.34	12.87	12.70	32.18	2,309.05	-1,157.52	2,526.00	2,500.44	25.56	98.833		
3,000.00	2,998.97	3,014.62	2,991.51	13.29	13.10	32.18	2,308.66	-1,158.92	2,523.75	2,497.36	26.39	95.636		
3,100.00	3,098.92	3,113.60	3,090.47	13.72	13.51	32.18	2,308.24	-1,160.46	2,521.54	2,494.31	27.23	92.617		
3,200.00	3,198.88	3,206.57	3,183.43	14.14	13.90	32.17	2,307.93	-1,162.13	2,519.50	2,491.47	28.04	89.859		
3,300.00	3,298.84	3,300.78	3,277.62	14.57	14.29	32.16	2,307.66	-1,164.25	2,517.72	2,488.86	28.86	87.244		
3,400.00	3,398.79	3,399.36	3,376.17	15.00	14.70	32.15	2,307.43	-1,166.69	2,516.08	2,486.38	29.70	84.723		
3,500.00	3,498.75	3,506.01	3,482.79	15.43	15.15	32.13	2,307.12	-1,169.21	2,514.33	2,483.76	30.57	82.243		
3,600.00	3,598.70	3,601.02	3,577.77	15.86	15.55	32.12	2,306.89	-1,171.33	2,512.58	2,481.18	31.40	80.021		
3,700.00	3,698.66	3,733.97	3,710.69	16.29	16.10	32.09	2,305.57	-1,174.29	2,510.11	2,477.73	32.38	77.513		
3,800.00	3,798.62	3,841.55	3,818.22	16.72	16.56	32.07	2,303.68	-1,176.52	2,506.92	2,473.65	33.26	75.364		
3,900.00	3,898.57	3,941.97	3,918.61	17.15	16.98	32.04	2,301.80	-1,178.52	2,503.59	2,469.48	34.12	73.381		
4,000.00	3,998.53	4,041.74	4,018.33	17.59	17.40	32.01	2,299.90	-1,180.65	2,500.30	2,465.33	34.97	71.500		
4,100.00	4,098.48	4,143.37	4,119.92	18.02	17.83	31.99	2,297.89	-1,182.85	2,496.96	2,461.13	35.83	69.690		
4,200.00	4,198.44	4,245.11	4,221.62	18.45	18.25	31.96	2,295.84	-1,184.99	2,493.55	2,456.86	36.69	67.962		
4,300.00	4,298.40	4,345.63	4,322.10	18.88	18.68	31.93	2,293.75	-1,187.07	2,490.07	2,452.53	37.55	66.319		
4,400.00	4,398.35	4,445.26	4,421.68	19.32	19.10	31.90	2,291.70	-1,189.13	2,486.62	2,448.22	38.40	64.754		
4,500.00	4,498.31	4,546.22	4,522.59	19.75	19.53	31.87	2,289.53	-1,191.36	2,483.15	2,443.88	39.26	63.248		
4,600.00	4,598.26	4,645.85	4,622.17	20.19	19.95	31.84	2,287.36	-1,193.56	2,479.64	2,439.52	40.12	61.812		
4,700.00	4,698.22	4,751.75	4,728.03	20.62	20.40	31.80	2,285.03	-1,195.90	2,476.12	2,435.13	41.00	60.400		
4,800.00	4,798.18	4,859.98	4,836.19	21.05	20.85	31.77	2,282.20	-1,198.13	2,472.17	2,430.28	41.89	59.023		
4,900.00	4,898.13	4,958.14	4,934.30	21.49	21.27	31.74	2,279.55	-1,200.10	2,468.11	2,425.37	42.74	57.753		
5,000.00	4,998.09	5,054.54	5,030.65	21.92	21.68	31.71	2,277.14	-1,201.97	2,464.20	2,420.62	43.58	56.544		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,100.00	5,098.04	5,149.85	5,125.92	22.36	22.08	31.68	2,274.96	-1,203.70	2,460.43	2,416.01	44.42	55.389		
5,200.00	5,198.00	5,244.51	5,220.55	22.79	22.48	31.66	2,273.03	-1,205.43	2,456.89	2,411.63	45.26	54.286		
5,300.00	5,297.96	5,339.85	5,315.86	23.23	22.89	31.65	2,271.35	-1,207.03	2,453.53	2,407.43	46.10	53.224		
5,400.00	5,397.91	5,436.28	5,412.27	23.67	23.30	31.64	2,270.11	-1,208.16	2,450.37	2,403.43	46.94	52.199		
5,500.00	5,497.87	5,533.75	5,509.73	24.10	23.71	31.64	2,268.95	-1,209.26	2,447.28	2,399.49	47.79	51.207		
5,600.00	5,597.82	5,626.33	5,602.29	24.54	24.10	31.64	2,268.01	-1,210.43	2,444.41	2,395.79	48.62	50.274		
5,700.00	5,697.78	5,724.52	5,700.48	24.97	24.52	31.66	2,267.56	-1,211.32	2,441.87	2,392.40	49.47	49.358		
5,800.00	5,797.74	5,843.38	5,819.34	25.41	25.02	31.69	2,266.73	-1,211.27	2,438.68	2,388.27	50.41	48.380		
5,900.00	5,897.69	5,947.22	5,923.18	25.85	25.47	31.73	2,265.79	-1,211.02	2,435.23	2,383.95	51.28	47.487		
6,000.00	5,997.65	6,094.90	6,070.82	26.28	26.09	31.80	2,263.84	-1,209.06	2,431.07	2,378.75	52.32	46.469		
6,100.00	6,097.60	6,200.77	6,176.63	26.72	26.54	31.87	2,261.31	-1,206.62	2,425.38	2,372.18	53.20	45.593		
6,200.00	6,197.56	6,347.92	6,323.62	27.16	27.17	31.96	2,256.02	-1,201.96	2,418.06	2,363.86	54.21	44.609		
6,300.00	6,297.52	6,427.30	6,402.89	27.59	27.51	32.00	2,252.57	-1,199.99	2,410.59	2,355.59	55.00	43.826		
6,400.00	6,397.47	6,500.00	6,475.55	28.03	27.82	32.02	2,250.22	-1,199.11	2,404.54	2,348.76	55.78	43.110		
6,500.00	6,497.43	6,558.76	6,534.29	28.47	28.07	32.04	2,249.01	-1,198.89	2,399.86	2,343.36	56.49	42.480		
6,600.00	6,597.38	6,639.27	6,614.80	28.90	28.41	32.06	2,248.10	-1,198.91	2,396.31	2,339.03	57.28	41.834		
6,700.00	6,697.08	6,730.34	6,705.87	29.34	28.80	58.33	2,247.38	-1,199.23	2,391.50	2,333.39	58.11	41.155		
6,800.00	6,794.63	6,814.95	6,790.48	29.79	29.16	63.03	2,246.93	-1,199.87	2,380.81	2,321.90	58.92	40.410		
6,900.00	6,887.62	6,885.90	6,861.41	30.24	29.46	65.97	2,247.02	-1,200.75	2,364.88	2,305.22	59.66	39.636		
7,000.00	6,973.77	6,972.29	6,947.79	30.70	29.83	69.22	2,247.59	-1,202.02	2,344.36	2,283.88	60.48	38.761		
7,100.00	7,050.94	7,050.55	7,026.04	31.20	30.16	72.84	2,248.06	-1,203.03	2,319.86	2,258.56	61.29	37.848		
7,200.00	7,117.24	7,116.61	7,092.10	31.77	30.44	76.66	2,248.51	-1,203.87	2,292.99	2,230.87	62.12	36.914		
7,300.00	7,171.03	7,171.26	7,146.74	32.46	30.67	80.49	2,248.94	-1,204.44	2,265.34	2,202.34	63.00	35.957		
7,400.00	7,211.00	7,211.84	7,187.32	33.29	30.84	84.01	2,249.28	-1,204.78	2,238.53	2,174.55	63.98	34.988		
7,500.00	7,236.16	7,237.84	7,213.32	34.29	30.95	86.98	2,249.50	-1,205.01	2,214.03	2,148.95	65.07	34.023		
7,600.00	7,245.89	7,248.55	7,224.03	35.43	31.00	89.21	2,249.59	-1,205.11	2,193.07	2,126.80	66.27	33.091		
7,700.00	7,245.73	7,249.37	7,224.85	36.72	31.00	89.47	2,249.60	-1,205.12	2,176.42	2,108.83	67.60	32.197		
7,800.00	7,245.42	7,250.04	7,225.52	38.18	31.00	89.49	2,249.60	-1,205.13	2,164.27	2,095.17	69.10	31.319		
7,900.00	7,245.10	7,250.72	7,226.20	39.80	31.01	89.51	2,249.61	-1,205.13	2,156.70	2,085.94	70.76	30.478		
8,000.00	7,244.79	7,251.40	7,226.88	41.54	31.01	89.52	2,249.62	-1,205.14	2,153.74	2,081.20	72.54	29.690		
8,013.68	7,244.75	7,251.50	7,226.97	41.80	31.01	89.53	2,249.62	-1,205.14	2,153.70	2,080.90	72.80	29.585 CC, ES		
8,100.00	7,244.48	7,252.09	7,227.57	43.41	31.01	89.54	2,249.62	-1,205.15	2,155.43	2,081.03	74.40	28.970		
8,200.00	7,244.17	7,252.78	7,228.26	45.38	31.01	89.56	2,249.63	-1,205.15	2,161.74	2,085.43	76.31	28.327		
8,300.00	7,243.86	7,253.49	7,228.96	47.44	31.02	89.58	2,249.63	-1,205.16	2,172.65	2,094.40	78.25	27.767		
8,400.00	7,243.55	7,254.19	7,229.67	49.58	31.02	89.60	2,249.64	-1,205.17	2,188.07	2,107.90	80.17	27.293		
8,500.00	7,243.23	7,254.90	7,230.38	51.78	31.02	89.62	2,249.64	-1,205.18	2,207.92	2,125.86	82.06	26.905		
8,600.00	7,242.92	7,255.62	7,231.10	54.05	31.03	89.64	2,249.65	-1,205.18	2,232.08	2,148.17	83.90	26.603		
8,700.00	7,242.61	7,256.35	7,231.83	56.37	31.03	89.66	2,249.66	-1,205.19	2,260.40	2,174.73	85.68	26.383		
8,800.00	7,242.30	7,257.08	7,232.56	58.74	31.03	89.68	2,249.66	-1,205.20	2,292.75	2,205.38	87.37	26.242		
8,900.00	7,241.99	7,257.82	7,233.30	61.16	31.04	89.70	2,249.67	-1,205.20	2,328.94	2,239.96	88.97	26.176 SF		
9,000.00	7,241.67	7,258.56	7,234.04	63.61	31.04	89.72	2,249.67	-1,205.21	2,368.80	2,278.32	90.48	26.180		
9,100.00	7,241.36	7,259.31	7,234.79	66.09	31.04	89.74	2,249.68	-1,205.22	2,412.15	2,320.25	91.89	26.250		
9,200.00	7,241.05	7,260.07	7,235.55	68.60	31.05	89.76	2,249.69	-1,205.23	2,458.80	2,365.60	93.20	26.381		
9,300.00	7,240.74	7,260.84	7,236.31	71.13	31.05	89.78	2,249.69	-1,205.24	2,508.58	2,414.16	94.42	26.568		
9,400.00	7,240.43	7,261.61	7,237.09	73.70	31.05	89.80	2,249.70	-1,205.24	2,561.29	2,465.75	95.54	26.808		
9,500.00	7,240.11	7,262.39	7,237.86	76.28	31.06	89.82	2,249.70	-1,205.25	2,616.76	2,520.19	96.57	27.096		
9,600.00	7,239.80	7,263.17	7,238.65	78.88	31.06	89.84	2,249.71	-1,205.26	2,674.83	2,577.31	97.52	27.429		
9,700.00	7,239.49	7,263.96	7,239.44	81.50	31.06	89.86	2,249.72	-1,205.27	2,735.31	2,636.93	98.38	27.803		
9,800.00	7,239.18	7,264.76	7,240.24	84.13	31.07	89.88	2,249.72	-1,205.28	2,798.07	2,698.90	99.17	28.214		
9,900.00	7,238.87	7,265.57	7,241.05	86.78	31.07	89.90	2,249.73	-1,205.28	2,862.94	2,763.05	99.89	28.661		
10,000.00	7,238.55	7,266.39	7,241.87	89.44	31.07	89.92	2,249.74	-1,205.29	2,929.79	2,829.25	100.54	29.140		
10,100.00	7,238.24	7,267.21	7,242.69	92.11	31.08	89.95	2,249.74	-1,205.30	2,998.49	2,897.35	101.13	29.649		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,200.00	7,237.93	7,268.04	7,243.52	94.80	31.08	89.97	2,249.75	-1,205.31	3,068.90	2,967.23	101.67	30.185		
10,300.00	7,237.62	7,268.88	7,244.36	97.49	31.08	89.99	2,249.76	-1,205.32	3,140.92	3,038.77	102.16	30.746		
10,400.00	7,237.31	7,269.72	7,245.20	100.19	31.09	90.01	2,249.76	-1,205.33	3,214.44	3,111.84	102.60	31.331		
10,500.00	7,236.99	7,270.58	7,246.06	102.90	31.09	90.03	2,249.77	-1,205.34	3,289.36	3,186.36	103.00	31.937		
10,600.00	7,236.68	7,271.44	7,246.92	105.62	31.09	90.06	2,249.78	-1,205.35	3,365.58	3,262.22	103.36	32.563		
10,700.00	7,236.37	7,272.31	7,247.79	108.35	31.10	90.08	2,249.78	-1,205.36	3,443.01	3,339.33	103.68	33.207		
10,800.00	7,236.06	7,273.19	7,248.67	111.08	31.10	90.10	2,249.79	-1,205.37	3,521.59	3,417.61	103.98	33.869		
10,900.00	7,235.75	7,274.08	7,249.55	113.82	31.10	90.13	2,249.80	-1,205.38	3,601.22	3,496.98	104.24	34.547		
11,000.00	7,235.44	7,274.97	7,250.45	116.56	31.11	90.15	2,249.80	-1,205.39	3,681.85	3,577.37	104.48	35.239		
11,100.00	7,235.12	7,275.88	7,251.35	119.31	31.11	90.18	2,249.81	-1,205.39	3,763.41	3,658.71	104.70	35.945		
11,200.00	7,234.81	7,276.79	7,252.27	122.07	31.12	90.20	2,249.82	-1,205.40	3,845.84	3,740.94	104.90	36.663		
11,300.00	7,234.50	7,277.71	7,253.19	124.83	31.12	90.22	2,249.83	-1,205.42	3,929.09	3,824.01	105.07	37.393		
11,400.00	7,234.19	7,278.64	7,254.12	127.59	31.12	90.25	2,249.83	-1,205.43	4,013.10	3,907.86	105.23	38.135		
11,500.00	7,233.88	7,279.59	7,255.06	130.36	31.13	90.27	2,249.84	-1,205.44	4,097.82	3,992.44	105.38	38.886		
11,600.00	7,233.56	7,280.54	7,256.01	133.13	31.13	90.30	2,249.85	-1,205.45	4,183.23	4,077.72	105.51	39.647		
11,700.00	7,233.25	7,281.50	7,256.97	135.91	31.14	90.33	2,249.86	-1,205.46	4,269.26	4,163.63	105.63	40.417		
11,800.00	7,232.94	7,282.47	7,257.94	138.68	31.14	90.35	2,249.86	-1,205.47	4,355.90	4,250.16	105.74	41.195		
11,900.00	7,232.63	7,283.45	7,258.92	141.47	31.14	90.38	2,249.87	-1,205.48	4,443.09	4,337.25	105.84	41.981		
12,000.00	7,232.32	7,284.43	7,259.91	144.25	31.15	90.40	2,249.88	-1,205.49	4,530.81	4,424.89	105.92	42.774		
12,100.00	7,232.00	7,285.43	7,260.91	147.04	31.15	90.43	2,249.89	-1,205.50	4,619.03	4,513.03	106.00	43.574		
12,200.00	7,231.69	7,286.44	7,261.92	149.83	31.16	90.46	2,249.89	-1,205.51	4,707.73	4,601.65	106.08	44.380		
12,300.00	7,231.38	7,287.46	7,262.94	152.62	31.16	90.48	2,249.90	-1,205.52	4,796.86	4,690.72	106.14	45.192		
12,400.00	7,231.07	7,288.50	7,263.97	155.42	31.17	90.51	2,249.91	-1,205.54	4,886.42	4,780.22	106.20	46.010		
12,500.00	7,230.76	7,289.54	7,265.01	158.22	31.17	90.54	2,249.92	-1,205.55	4,976.37	4,870.12	106.26	46.833		
12,600.00	7,230.44	7,290.59	7,266.07	161.01	31.17	90.57	2,249.93	-1,205.56	5,066.71	4,960.40	106.31	47.660		
12,700.00	7,230.13	7,291.65	7,267.13	163.82	31.18	90.60	2,249.94	-1,205.57	5,157.39	5,051.04	106.36	48.492		
12,800.00	7,229.82	7,292.73	7,268.21	166.62	31.18	90.62	2,249.94	-1,205.58	5,248.42	5,142.02	106.40	49.328		
12,900.00	7,229.51	7,293.82	7,269.29	169.43	31.19	90.65	2,249.95	-1,205.60	5,339.77	5,233.33	106.44	50.168		
13,000.00	7,229.20	7,294.91	7,270.39	172.23	31.19	90.68	2,249.96	-1,205.61	5,431.42	5,324.95	106.47	51.012		
13,100.00	7,228.88	7,296.03	7,271.50	175.04	31.20	90.71	2,249.97	-1,205.62	5,523.36	5,416.85	106.51	51.859		
13,200.00	7,228.57	7,297.15	7,272.62	177.85	31.20	90.74	2,249.98	-1,205.64	5,615.58	5,509.04	106.54	52.710		
13,300.00	7,228.26	7,298.28	7,273.76	180.66	31.21	90.77	2,249.99	-1,205.65	5,708.06	5,601.49	106.57	53.563		
13,400.00	7,227.95	7,299.43	7,274.90	183.48	31.21	90.80	2,250.00	-1,205.66	5,800.78	5,694.19	106.59	54.419		
13,500.00	7,227.64	7,300.59	7,276.06	186.29	31.22	90.83	2,250.00	-1,205.68	5,893.75	5,787.13	106.62	55.278		
13,600.00	7,227.33	7,301.76	7,277.24	189.11	31.22	90.86	2,250.01	-1,205.69	5,986.94	5,880.30	106.64	56.139		
13,700.00	7,227.01	7,302.95	7,278.42	191.92	31.23	90.90	2,250.02	-1,205.71	6,080.35	5,973.68	106.67	57.003		
13,800.00	7,226.70	7,304.15	7,279.62	194.74	31.23	90.93	2,250.03	-1,205.72	6,173.96	6,067.27	106.69	57.868		
13,900.00	7,226.39	7,305.36	7,280.84	197.56	31.24	90.96	2,250.04	-1,205.73	6,267.78	6,161.06	106.71	58.735		
14,000.00	7,226.08	7,306.59	7,282.06	200.38	31.24	90.99	2,250.05	-1,205.75	6,361.78	6,255.04	106.73	59.605		
14,100.00	7,225.77	7,307.83	7,283.30	203.21	31.25	91.03	2,250.06	-1,205.76	6,455.96	6,349.20	106.75	60.475		
14,200.00	7,225.45	7,309.08	7,284.56	206.03	31.25	91.06	2,250.07	-1,205.78	6,550.31	6,443.53	106.77	61.348		
14,300.00	7,225.14	7,310.35	7,285.83	208.85	31.26	91.09	2,250.08	-1,205.80	6,644.83	6,538.03	106.79	62.221		
14,400.00	7,224.83	7,311.64	7,287.11	211.68	31.26	91.13	2,250.09	-1,205.81	6,739.50	6,632.69	106.81	63.096		
14,500.00	7,224.52	7,312.94	7,288.41	214.50	31.27	91.16	2,250.10	-1,205.83	6,834.33	6,727.50	106.83	63.972		
14,600.00	7,224.21	7,314.25	7,289.72	217.33	31.27	91.20	2,250.11	-1,205.84	6,929.30	6,822.45	106.85	64.850		
14,700.00	7,223.89	7,315.58	7,291.05	220.16	31.28	91.23	2,250.12	-1,205.86	7,024.41	6,917.54	106.87	65.728		
14,800.00	7,223.58	7,316.93	7,292.40	222.98	31.29	91.27	2,250.13	-1,205.88	7,119.66	7,012.77	106.89	66.607		
14,900.00	7,223.27	7,318.29	7,293.76	225.81	31.29	91.30	2,250.14	-1,205.89	7,215.03	7,108.12	106.91	67.486		
14,987.41	7,223.00	7,319.49	7,294.97	228.28	31.30	91.34	2,250.15	-1,205.91	7,298.50	7,191.57	106.93	68.256		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	21.00	3.28	3.28	-67.33	905.04	-2,166.61	2,348.14					
100.00	100.00	79.00	100.00	3.28	3.56	-67.33	905.04	-2,166.61	2,348.04	2,341.20	6.84	343.141		
200.00	200.00	179.00	200.00	3.34	5.57	-67.33	905.04	-2,166.61	2,348.04	2,339.13	8.91	263.580		
300.00	300.00	279.00	300.00	3.44	8.64	-67.33	905.04	-2,166.61	2,348.04	2,335.96	12.09	194.278		
400.00	400.00	379.00	400.00	3.60	11.94	-67.33	905.04	-2,166.61	2,348.04	2,332.50	15.55	151.020		
500.00	500.00	479.00	500.00	3.81	15.33	-67.33	905.04	-2,166.61	2,348.04	2,328.91	19.14	122.694		
600.00	600.00	579.00	600.00	4.05	18.76	-67.33	905.04	-2,166.61	2,348.04	2,325.24	22.80	102.972		
700.00	699.98	678.98	699.98	4.32	22.20	-9.34	905.04	-2,166.61	2,346.36	2,319.84	26.52	88.486		
800.00	799.94	778.94	799.94	4.61	25.66	-9.35	905.04	-2,166.61	2,343.43	2,313.17	30.26	77.432		
900.00	899.89	878.89	899.89	4.92	29.12	-9.36	905.04	-2,166.61	2,340.50	2,306.46	34.04	68.753		
1,000.00	999.85	978.85	999.85	5.25	32.59	-9.37	905.04	-2,166.61	2,337.58	2,299.73	37.84	61.770		
1,100.00	1,099.80	1,078.80	1,099.80	5.60	36.07	-9.39	905.04	-2,166.61	2,334.65	2,292.99	41.66	56.037		
1,200.00	1,199.76	1,178.76	1,199.76	5.96	39.54	-9.40	905.04	-2,166.61	2,331.72	2,286.22	45.50	51.249		
1,300.00	1,299.72	1,278.72	1,299.72	6.33	43.02	-9.41	905.04	-2,166.61	2,328.80	2,279.45	49.34	47.194		
1,400.00	1,399.67	1,378.67	1,399.67	6.71	46.50	-9.42	905.04	-2,166.61	2,325.87	2,272.67	53.20	43.718		
1,500.00	1,499.63	1,478.63	1,499.63	7.10	49.98	-9.43	905.04	-2,166.61	2,322.94	2,265.87	57.07	40.705		
1,600.00	1,599.58	1,578.58	1,599.58	7.49	53.46	-9.45	905.04	-2,166.61	2,320.01	2,259.07	60.94	38.070		
1,700.00	1,699.54	1,678.54	1,699.54	7.88	56.95	-9.46	905.04	-2,166.61	2,317.09	2,252.27	64.82	35.747		
1,800.00	1,799.50	1,778.50	1,799.50	8.28	60.43	-9.47	905.04	-2,166.61	2,314.16	2,245.46	68.70	33.683		
1,900.00	1,899.45	1,878.45	1,899.45	8.69	63.92	-9.48	905.04	-2,166.61	2,311.23	2,238.64	72.59	31.839		
2,000.00	1,999.41	1,978.41	1,999.41	9.10	67.40	-9.49	905.04	-2,166.61	2,308.31	2,231.82	76.48	30.180		
2,100.00	2,099.36	2,078.36	2,099.36	9.51	70.89	-9.51	905.04	-2,166.61	2,305.38	2,225.00	80.38	28.681		
2,200.00	2,199.32	2,178.32	2,199.32	9.92	74.37	-9.52	905.04	-2,166.61	2,302.46	2,218.18	84.28	27.320		
2,300.00	2,299.28	2,278.28	2,299.28	10.34	77.86	-9.53	905.04	-2,166.61	2,299.53	2,211.35	88.18	26.078		
2,400.00	2,399.23	2,378.23	2,399.23	10.75	81.34	-9.54	905.04	-2,166.61	2,296.60	2,204.52	92.08	24.941		
2,500.00	2,499.19	2,478.19	2,499.19	11.17	84.83	-9.56	905.04	-2,166.61	2,293.68	2,197.69	95.99	23.896		
2,600.00	2,599.14	2,578.14	2,599.14	11.60	88.32	-9.57	905.04	-2,166.61	2,290.75	2,190.86	99.89	22.932		
2,700.00	2,699.10	2,678.10	2,699.10	12.02	91.81	-9.58	905.04	-2,166.61	2,287.83	2,184.03	103.80	22.040		
2,800.00	2,799.06	2,778.06	2,799.06	12.44	95.29	-9.59	905.04	-2,166.61	2,284.90	2,177.19	107.71	21.213		
2,900.00	2,899.01	2,878.01	2,899.01	12.87	98.78	-9.61	905.04	-2,166.61	2,281.98	2,170.35	111.62	20.444		
3,000.00	2,998.97	2,977.97	2,998.97	13.29	102.27	-9.62	905.04	-2,166.61	2,279.05	2,163.52	115.53	19.726		
3,100.00	3,098.92	3,077.92	3,098.92	13.72	105.76	-9.63	905.04	-2,166.61	2,276.12	2,156.68	119.45	19.055		
3,200.00	3,198.88	3,177.88	3,198.88	14.14	109.24	-9.64	905.04	-2,166.61	2,273.20	2,149.84	123.36	18.427		
3,300.00	3,298.84	3,277.84	3,298.84	14.57	112.73	-9.66	905.04	-2,166.61	2,270.27	2,143.00	127.28	17.837		
3,400.00	3,398.79	3,377.79	3,398.79	15.00	116.22	-9.67	905.04	-2,166.61	2,267.35	2,136.16	131.19	17.283		
3,500.00	3,498.75	3,477.75	3,498.75	15.43	119.71	-9.68	905.04	-2,166.61	2,264.42	2,129.32	135.11	16.760		
3,600.00	3,598.70	3,577.70	3,598.70	15.86	123.20	-9.69	905.04	-2,166.61	2,261.50	2,122.47	139.03	16.267		
3,700.00	3,698.66	3,677.66	3,698.66	16.29	126.68	-9.71	905.04	-2,166.61	2,258.58	2,115.63	142.94	15.800		
3,800.00	3,798.62	3,777.62	3,798.62	16.72	130.17	-9.72	905.04	-2,166.61	2,255.65	2,108.79	146.86	15.359		
3,900.00	3,898.57	3,877.57	3,898.57	17.15	133.66	-9.73	905.04	-2,166.61	2,252.73	2,101.95	150.78	14.940		
4,000.00	3,998.53	3,977.53	3,998.53	17.59	137.15	-9.74	905.04	-2,166.61	2,249.80	2,095.10	154.70	14.543		
4,100.00	4,098.48	4,077.48	4,098.48	18.02	140.64	-9.76	905.04	-2,166.61	2,246.88	2,088.26	158.62	14.165		
4,200.00	4,198.44	4,177.44	4,198.44	18.45	144.13	-9.77	905.04	-2,166.61	2,243.95	2,081.41	162.54	13.806		
4,300.00	4,298.40	4,277.40	4,298.40	18.88	147.62	-9.78	905.04	-2,166.61	2,241.03	2,074.57	166.46	13.463		
4,400.00	4,398.35	4,377.35	4,398.35	19.32	151.10	-9.80	905.04	-2,166.61	2,238.11	2,067.72	170.38	13.136		
4,500.00	4,498.31	4,477.31	4,498.31	19.75	154.59	-9.81	905.04	-2,166.61	2,235.18	2,060.88	174.30	12.824		
4,600.00	4,598.26	4,577.26	4,598.26	20.19	158.08	-9.82	905.04	-2,166.61	2,232.26	2,054.03	178.23	12.525		
4,700.00	4,698.22	4,677.22	4,698.22	20.62	161.57	-9.83	905.04	-2,166.61	2,229.34	2,047.19	182.15	12.239		
4,800.00	4,798.18	4,777.18	4,798.18	21.05	165.06	-9.85	905.04	-2,166.61	2,226.41	2,040.34	186.07	11.966		
4,900.00	4,898.13	4,877.13	4,898.13	21.49	168.55	-9.86	905.04	-2,166.61	2,223.49	2,033.50	189.99	11.703		
5,000.00	4,998.09	4,977.09	4,998.09	21.92	172.04	-9.87	905.04	-2,166.61	2,220.57	2,026.65	193.91	11.451		
5,100.00	5,098.04	5,077.04	5,098.04	22.36	175.53	-9.89	905.04	-2,166.61	2,217.64	2,019.81	197.84	11.209		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,177.00	5,198.00	22.79	179.01	-9.90	905.04	-2,166.61	2,214.72	2,012.96	201.76	10.977		
5,300.00	5,297.96	5,276.96	5,297.96	23.23	182.50	-9.91	905.04	-2,166.61	2,211.80	2,006.11	205.68	10.753		
5,400.00	5,397.91	5,376.91	5,397.91	23.67	185.99	-9.93	905.04	-2,166.61	2,208.87	1,999.27	209.61	10.538		
5,500.00	5,497.87	5,476.87	5,497.87	24.10	189.48	-9.94	905.04	-2,166.61	2,205.95	1,992.42	213.53	10.331		
5,600.00	5,597.82	5,576.82	5,597.82	24.54	192.97	-9.95	905.04	-2,166.61	2,203.03	1,985.57	217.45	10.131		
5,700.00	5,697.78	5,676.78	5,697.78	24.97	196.46	-9.97	905.04	-2,166.61	2,200.11	1,978.73	221.38	9.938		
5,800.00	5,797.74	5,776.74	5,797.74	25.41	199.95	-9.98	905.04	-2,166.61	2,197.19	1,971.88	225.30	9.752		
5,900.00	5,897.69	5,876.69	5,897.69	25.85	203.44	-9.99	905.04	-2,166.61	2,194.26	1,965.04	229.23	9.572		
6,000.00	5,997.65	5,976.65	5,997.65	26.28	206.93	-10.01	905.04	-2,166.61	2,191.34	1,958.19	233.15	9.399		
6,100.00	6,097.60	6,076.60	6,097.60	26.72	210.41	-10.02	905.04	-2,166.61	2,188.42	1,951.34	237.08	9.231		
6,200.00	6,197.56	6,176.56	6,197.56	27.16	213.90	-10.03	905.04	-2,166.61	2,185.50	1,944.50	241.00	9.068		
6,300.00	6,297.52	6,276.52	6,297.52	27.59	217.39	-10.05	905.04	-2,166.61	2,182.58	1,937.65	244.93	8.911		
6,400.00	6,397.47	6,376.47	6,397.47	28.03	220.88	-10.06	905.04	-2,166.61	2,179.65	1,930.80	248.85	8.759		
6,500.00	6,497.43	6,476.43	6,497.43	28.47	224.37	-10.07	905.04	-2,166.61	2,176.73	1,923.96	252.78	8.611		
6,600.00	6,597.38	6,576.38	6,597.38	28.90	227.86	-10.09	905.04	-2,166.61	2,173.81	1,917.11	256.70	8.468		
6,700.00	6,697.08	6,676.08	6,697.08	29.34	231.34	15.99	905.04	-2,166.61	2,167.14	1,906.52	260.62	8.315		
6,800.00	6,794.63	6,773.63	6,794.63	29.79	234.75	20.38	905.04	-2,166.61	2,146.70	1,882.24	264.46	8.117		
6,900.00	6,887.62	6,866.62	6,887.62	30.24	237.99	23.14	905.04	-2,166.61	2,112.49	1,844.37	268.12	7.879		
7,000.00	6,973.77	6,952.77	6,973.77	30.70	241.00	26.35	905.04	-2,166.61	2,065.46	1,793.94	271.52	7.607		
7,100.00	7,050.94	7,029.94	7,050.94	31.20	243.69	30.70	905.04	-2,166.61	2,006.91	1,732.35	274.56	7.309		
7,200.00	7,117.24	7,103.76	7,117.24	31.77	246.27	36.81	905.04	-2,166.61	1,938.50	1,661.04	277.46	6.987		
7,300.00	7,171.03	7,150.03	7,171.03	32.46	247.88	45.45	905.04	-2,166.61	1,862.17	1,582.79	279.38	6.665		
7,400.00	7,211.00	7,210.00	7,211.00	33.29	249.98	57.31	905.04	-2,166.61	1,780.07	1,498.30	281.77	6.317		
7,500.00	7,236.16	7,215.16	7,236.16	34.29	250.16	72.22	905.04	-2,166.61	1,694.57	1,412.28	282.29	6.003		
7,600.00	7,245.89	7,224.89	7,245.89	35.43	250.50	88.15	905.04	-2,166.61	1,608.08	1,325.06	283.02	5.682		
7,700.00	7,245.73	7,224.73	7,245.73	36.72	250.49	90.28	905.04	-2,166.61	1,522.78	1,239.24	283.53	5.371		
7,800.00	7,245.42	7,224.42	7,245.42	38.18	250.48	90.26	905.04	-2,166.61	1,439.37	1,155.15	284.22	5.064		
7,900.00	7,245.10	7,224.10	7,245.10	39.80	250.47	90.24	905.04	-2,166.61	1,358.20	1,073.07	285.13	4.763		
8,000.00	7,244.79	7,223.79	7,244.79	41.54	250.46	90.22	905.04	-2,166.61	1,279.70	993.39	286.31	4.470		
8,100.00	7,244.48	7,223.48	7,244.48	43.41	250.45	90.19	905.04	-2,166.61	1,204.38	916.58	287.81	4.185		
8,200.00	7,244.17	7,223.17	7,244.17	45.38	250.44	90.17	905.04	-2,166.61	1,132.90	843.24	289.66	3.911		
8,300.00	7,243.86	7,222.86	7,243.86	47.44	250.43	90.15	905.04	-2,166.61	1,066.01	774.10	291.92	3.652		
8,400.00	7,243.55	7,222.55	7,243.55	49.58	250.42	90.13	905.04	-2,166.61	1,004.64	710.06	294.58	3.410		
8,500.00	7,243.23	7,222.23	7,243.23	51.78	250.40	90.11	905.04	-2,166.61	949.86	652.22	297.63	3.191		
8,600.00	7,242.92	7,221.92	7,242.92	54.05	250.39	90.08	905.04	-2,166.61	902.86	601.86	300.99	3.000		
8,700.00	7,242.61	7,221.61	7,242.61	56.37	250.38	90.06	905.04	-2,166.61	864.91	560.39	304.52	2.840		
8,800.00	7,242.30	7,221.30	7,242.30	58.74	250.37	90.04	905.04	-2,166.61	837.25	529.23	308.02	2.718		
8,900.00	7,241.99	7,220.99	7,241.99	61.16	250.36	90.02	905.04	-2,166.61	820.92	509.68	311.24	2.638		
8,985.40	7,241.72	7,220.72	7,241.72	63.25	250.35	90.00	905.04	-2,166.61	816.47	502.87	313.60	2.604 CC		
9,000.00	7,241.67	7,220.67	7,241.67	63.61	250.35	90.00	905.04	-2,166.61	816.60	502.65	313.95	2.601 ES, SF		
9,100.00	7,241.36	7,220.36	7,241.36	66.09	250.34	89.97	905.04	-2,166.61	824.47	508.50	315.98	2.609		
9,200.00	7,241.05	7,220.05	7,241.05	68.60	250.33	89.95	905.04	-2,166.61	844.20	526.96	317.24	2.661		
9,300.00	7,240.74	7,219.74	7,240.74	71.13	250.32	89.93	905.04	-2,166.61	874.98	557.19	317.79	2.753		
9,400.00	7,240.43	7,219.43	7,240.43	73.70	250.31	89.91	905.04	-2,166.61	915.70	597.98	317.72	2.882		
9,500.00	7,240.11	7,219.11	7,240.11	76.28	250.30	89.89	905.04	-2,166.61	965.11	647.91	317.20	3.043		
9,600.00	7,239.80	7,218.80	7,239.80	78.88	250.28	89.87	905.04	-2,166.61	1,021.94	705.58	316.36	3.230		
9,700.00	7,239.49	7,218.49	7,239.49	81.50	250.27	89.84	905.04	-2,166.61	1,085.02	769.70	315.32	3.441		
9,800.00	7,239.18	7,218.18	7,239.18	84.13	250.26	89.82	905.04	-2,166.61	1,153.34	839.15	314.19	3.671		
9,900.00	7,238.87	7,217.87	7,238.87	86.78	250.25	89.80	905.04	-2,166.61	1,226.01	912.99	313.02	3.917		
10,000.00	7,238.55	7,217.55	7,238.55	89.44	250.24	89.78	905.04	-2,166.61	1,302.32	990.45	311.87	4.176		
10,100.00	7,238.24	7,217.24	7,238.24	92.11	250.23	89.76	905.04	-2,166.61	1,381.65	1,070.89	310.76	4.446		
10,200.00	7,237.93	7,216.93	7,237.93	94.80	250.22	89.73	905.04	-2,166.61	1,463.51	1,153.80	309.71	4.725		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
10,300.00	7,237.62	7,216.62	7,237.62	97.49	250.21	89.71	905.04	-2,166.61	1,547.51	1,238.79	308.72	5.013					
10,400.00	7,237.31	7,216.31	7,237.31	100.19	250.20	89.69	905.04	-2,166.61	1,633.31	1,325.51	307.80	5.306					
10,500.00	7,236.99	7,215.99	7,236.99	102.90	250.19	89.67	905.04	-2,166.61	1,720.64	1,413.70	306.94	5.606					
10,600.00	7,236.68	7,215.68	7,236.68	105.62	250.18	89.65	905.04	-2,166.61	1,809.29	1,503.14	306.15	5.910					
10,700.00	7,236.37	7,215.37	7,236.37	108.35	250.17	89.62	905.04	-2,166.61	1,899.07	1,593.65	305.42	6.218					
10,800.00	7,236.06	7,215.06	7,236.06	111.08	250.15	89.60	905.04	-2,166.61	1,989.82	1,685.08	304.74	6.530					
10,900.00	7,235.75	7,214.75	7,235.75	113.82	250.14	89.58	905.04	-2,166.61	2,081.41	1,777.30	304.12	6.844					
11,000.00	7,235.44	7,214.44	7,235.44	116.56	250.13	89.56	905.04	-2,166.61	2,173.75	1,870.21	303.54	7.161					
11,100.00	7,235.12	7,214.12	7,235.12	119.31	250.12	89.54	905.04	-2,166.61	2,266.74	1,963.74	303.01	7.481					
11,200.00	7,234.81	7,213.81	7,234.81	122.07	250.11	89.52	905.04	-2,166.61	2,360.30	2,057.79	302.51	7.802					
11,300.00	7,234.50	7,213.50	7,234.50	124.83	250.10	89.49	905.04	-2,166.61	2,454.37	2,152.32	302.06	8.126					
11,400.00	7,234.19	7,213.19	7,234.19	127.59	250.09	89.47	905.04	-2,166.61	2,548.90	2,247.26	301.63	8.450					
11,500.00	7,233.88	7,212.88	7,233.88	130.36	250.08	89.45	905.04	-2,166.61	2,643.82	2,342.58	301.24	8.776					
11,600.00	7,233.56	7,212.56	7,233.56	133.13	250.07	89.43	905.04	-2,166.61	2,739.11	2,438.23	300.88	9.104					
11,700.00	7,233.25	7,212.25	7,233.25	135.91	250.06	89.41	905.04	-2,166.61	2,834.72	2,534.18	300.54	9.432					
11,800.00	7,232.94	7,211.94	7,232.94	138.68	250.05	89.38	905.04	-2,166.61	2,930.62	2,630.40	300.22	9.761					
11,900.00	7,232.63	7,211.63	7,232.63	141.47	250.03	89.36	905.04	-2,166.61	3,026.79	2,726.86	299.93	10.092					
12,000.00	7,232.32	7,211.32	7,232.32	144.25	250.02	89.34	905.04	-2,166.61	3,123.20	2,823.54	299.66	10.423					
12,100.00	7,232.00	7,211.00	7,232.00	147.04	250.01	89.32	905.04	-2,166.61	3,219.83	2,920.42	299.40	10.754					
12,200.00	7,231.69	7,210.69	7,231.69	149.83	250.00	89.30	905.04	-2,166.61	3,316.65	3,017.49	299.17	11.086					
12,300.00	7,231.38	7,210.38	7,231.38	152.62	249.99	89.27	905.04	-2,166.61	3,413.66	3,114.72	298.95	11.419					
12,400.00	7,231.07	7,210.07	7,231.07	155.42	249.98	89.25	905.04	-2,166.61	3,510.84	3,212.10	298.74	11.752					
12,500.00	7,230.76	7,209.76	7,230.76	158.22	249.97	89.23	905.04	-2,166.61	3,608.18	3,309.63	298.55	12.086					
12,600.00	7,230.44	7,209.44	7,230.44	161.01	249.96	89.21	905.04	-2,166.61	3,705.65	3,407.28	298.37	12.420					
12,700.00	7,230.13	7,209.13	7,230.13	163.82	249.95	89.19	905.04	-2,166.61	3,803.26	3,505.06	298.20	12.754					
12,800.00	7,229.82	7,208.82	7,229.82	166.62	249.94	89.17	905.04	-2,166.61	3,900.98	3,602.94	298.04	13.089					
12,900.00	7,229.51	7,208.51	7,229.51	169.43	249.93	89.14	905.04	-2,166.61	3,998.82	3,700.93	297.90	13.424					
13,000.00	7,229.20	7,208.20	7,229.20	172.23	249.91	89.12	905.04	-2,166.61	4,096.77	3,799.01	297.76	13.759					
13,100.00	7,228.88	7,207.88	7,228.88	175.04	249.90	89.10	905.04	-2,166.61	4,194.81	3,897.18	297.63	14.094					
13,200.00	7,228.57	7,207.57	7,228.57	177.85	249.89	89.08	905.04	-2,166.61	4,292.94	3,995.43	297.51	14.429					
13,300.00	7,228.26	7,207.26	7,228.26	180.66	249.88	89.06	905.04	-2,166.61	4,391.15	4,093.75	297.40	14.765					
13,400.00	7,227.95	7,206.95	7,227.95	183.48	249.87	89.03	905.04	-2,166.61	4,489.45	4,192.15	297.30	15.101					
13,500.00	7,227.64	7,206.64	7,227.64	186.29	249.86	89.01	905.04	-2,166.61	4,587.82	4,290.61	297.20	15.437					
13,600.00	7,227.33	7,206.33	7,227.33	189.11	249.85	88.99	905.04	-2,166.61	4,686.25	4,389.14	297.11	15.773					
13,700.00	7,227.01	7,206.01	7,227.01	191.92	249.84	88.97	905.04	-2,166.61	4,784.75	4,487.73	297.03	16.109					
13,800.00	7,226.70	7,205.70	7,226.70	194.74	249.83	88.95	905.04	-2,166.61	4,883.32	4,586.36	296.95	16.445					
13,900.00	7,226.39	7,205.39	7,226.39	197.56	249.82	88.92	905.04	-2,166.61	4,981.94	4,685.06	296.88	16.781					
14,000.00	7,226.08	7,205.08	7,226.08	200.38	249.81	88.90	905.04	-2,166.61	5,080.61	4,783.80	296.82	17.117					
14,100.00	7,225.77	7,204.77	7,225.77	203.21	249.79	88.88	905.04	-2,166.61	5,179.34	4,882.58	296.76	17.453					
14,200.00	7,225.45	7,204.45	7,225.45	206.03	249.78	88.86	905.04	-2,166.61	5,278.11	4,981.41	296.70	17.789					
14,300.00	7,225.14	7,204.14	7,225.14	208.85	249.77	88.84	905.04	-2,166.61	5,376.93	5,080.28	296.65	18.126					
14,400.00	7,224.83	7,203.83	7,224.83	211.68	249.76	88.81	905.04	-2,166.61	5,475.79	5,179.18	296.60	18.462					
14,500.00	7,224.52	7,203.52	7,224.52	214.50	249.75	88.79	905.04	-2,166.61	5,574.69	5,278.13	296.56	18.798					
14,600.00	7,224.21	7,203.21	7,224.21	217.33	249.74	88.77	905.04	-2,166.61	5,673.63	5,377.11	296.52	19.134					
14,700.00	7,223.89	7,202.89	7,223.89	220.16	249.73	88.75	905.04	-2,166.61	5,772.61	5,476.12	296.49	19.470					
14,800.00	7,223.58	7,202.58	7,223.58	222.98	249.72	88.73	905.04	-2,166.61	5,871.62	5,575.16	296.46	19.806					
14,900.00	7,223.27	7,202.27	7,223.27	225.81	249.71	88.71	905.04	-2,166.61	5,970.66	5,674.23	296.43	20.142					
14,987.41	7,223.00	7,202.00	7,223.00	228.28	249.70	88.69	905.04	-2,166.61	6,057.26	5,760.85	296.41	20.435					



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	
0.00	0.00	0.00	36.00	3.28	3.28	-99.58	-428.28	-2,536.66	2,572.81				
100.00	100.00	64.00	100.00	3.28	3.47	-99.58	-428.28	-2,536.66	2,572.56	2,565.81	6.75	381.135	
200.00	200.00	164.00	200.00	3.34	5.16	-99.58	-428.28	-2,536.66	2,572.56	2,564.07	8.49	302.860	
300.00	300.00	264.00	300.00	3.44	8.16	-99.58	-428.28	-2,536.66	2,572.56	2,560.96	11.60	221.697	
400.00	400.00	364.00	400.00	3.60	11.44	-99.58	-428.28	-2,536.66	2,572.56	2,557.52	15.05	170.988	
500.00	500.00	464.00	500.00	3.81	14.82	-99.58	-428.28	-2,536.66	2,572.56	2,553.93	18.63	138.115	
600.00	600.00	564.00	600.00	4.05	18.24	-99.58	-428.28	-2,536.66	2,572.56	2,550.27	22.29	115.427	
700.00	699.98	663.98	699.98	4.32	21.68	-41.62	-428.28	-2,536.66	2,571.29	2,545.29	26.00	98.902	
800.00	799.94	763.94	799.94	4.61	25.14	-41.67	-428.28	-2,536.66	2,569.07	2,539.32	29.74	86.371	
900.00	899.89	863.89	899.89	4.92	28.60	-41.71	-428.28	-2,536.66	2,566.85	2,533.33	33.52	76.574	
1,000.00	999.85	963.85	999.85	5.25	32.07	-41.75	-428.28	-2,536.66	2,564.64	2,527.32	37.32	68.718	
1,100.00	1,099.80	1,063.80	1,099.80	5.60	35.54	-41.80	-428.28	-2,536.66	2,562.42	2,521.28	41.14	62.285	
1,200.00	1,199.76	1,163.76	1,199.76	5.96	39.02	-41.84	-428.28	-2,536.66	2,560.21	2,515.24	44.97	56.926	
1,300.00	1,299.72	1,263.72	1,299.72	6.33	42.50	-41.89	-428.28	-2,536.66	2,558.00	2,509.18	48.82	52.395	
1,400.00	1,399.67	1,363.67	1,399.67	6.71	45.98	-41.93	-428.28	-2,536.66	2,555.79	2,503.12	52.68	48.517	
1,500.00	1,499.63	1,463.63	1,499.63	7.10	49.46	-41.97	-428.28	-2,536.66	2,553.59	2,497.04	56.54	45.162	
1,600.00	1,599.58	1,563.58	1,599.58	7.49	52.94	-42.02	-428.28	-2,536.66	2,551.38	2,490.97	60.42	42.231	
1,700.00	1,699.54	1,663.54	1,699.54	7.88	56.42	-42.06	-428.28	-2,536.66	2,549.18	2,484.88	64.29	39.649	
1,800.00	1,799.50	1,763.50	1,799.50	8.28	59.91	-42.11	-428.28	-2,536.66	2,546.98	2,478.80	68.18	37.358	
1,900.00	1,899.45	1,863.45	1,899.45	8.69	63.39	-42.15	-428.28	-2,536.66	2,544.77	2,472.71	72.07	35.312	
2,000.00	1,999.41	1,963.41	1,999.41	9.10	66.88	-42.20	-428.28	-2,536.66	2,542.58	2,466.62	75.96	33.474	
2,100.00	2,099.36	2,063.36	2,099.36	9.51	70.36	-42.24	-428.28	-2,536.66	2,540.38	2,460.53	79.85	31.814	
2,200.00	2,199.32	2,163.32	2,199.32	9.92	73.85	-42.29	-428.28	-2,536.66	2,538.18	2,454.43	83.75	30.307	
2,300.00	2,299.28	2,263.28	2,299.28	10.34	77.34	-42.33	-428.28	-2,536.66	2,535.99	2,448.34	87.65	28.933	
2,400.00	2,399.23	2,363.23	2,399.23	10.75	80.82	-42.38	-428.28	-2,536.66	2,533.79	2,442.24	91.55	27.676	
2,500.00	2,499.19	2,463.19	2,499.19	11.17	84.31	-42.42	-428.28	-2,536.66	2,531.60	2,436.15	95.46	26.521	
2,600.00	2,599.14	2,563.14	2,599.14	11.60	87.80	-42.47	-428.28	-2,536.66	2,529.41	2,430.05	99.36	25.456	
2,700.00	2,699.10	2,663.10	2,699.10	12.02	91.28	-42.51	-428.28	-2,536.66	2,527.22	2,423.95	103.27	24.472	
2,800.00	2,799.06	2,763.06	2,799.06	12.44	94.77	-42.56	-428.28	-2,536.66	2,525.04	2,417.86	107.18	23.559	
2,900.00	2,899.01	2,863.01	2,899.01	12.87	98.26	-42.61	-428.28	-2,536.66	2,522.85	2,411.76	111.09	22.710	
3,000.00	2,998.97	2,962.97	2,998.97	13.29	101.74	-42.65	-428.28	-2,536.66	2,520.67	2,405.67	115.00	21.918	
3,100.00	3,098.92	3,062.92	3,098.92	13.72	105.23	-42.70	-428.28	-2,536.66	2,518.49	2,399.57	118.92	21.179	
3,200.00	3,198.88	3,162.88	3,198.88	14.14	108.72	-42.74	-428.28	-2,536.66	2,516.31	2,393.48	122.83	20.486	
3,300.00	3,298.84	3,262.84	3,298.84	14.57	112.21	-42.79	-428.28	-2,536.66	2,514.13	2,387.38	126.74	19.836	
3,400.00	3,398.79	3,362.79	3,398.79	15.00	115.70	-42.83	-428.28	-2,536.66	2,511.95	2,381.29	130.66	19.225	
3,500.00	3,498.75	3,462.75	3,498.75	15.43	119.18	-42.88	-428.28	-2,536.66	2,509.78	2,375.20	134.58	18.650	
3,600.00	3,598.70	3,562.70	3,598.70	15.86	122.67	-42.93	-428.28	-2,536.66	2,507.60	2,369.11	138.49	18.106	
3,700.00	3,698.66	3,662.66	3,698.66	16.29	126.16	-42.97	-428.28	-2,536.66	2,505.43	2,363.02	142.41	17.593	
3,800.00	3,798.62	3,762.62	3,798.62	16.72	129.65	-43.02	-428.28	-2,536.66	2,503.26	2,356.93	146.33	17.107	
3,900.00	3,898.57	3,862.57	3,898.57	17.15	133.14	-43.07	-428.28	-2,536.66	2,501.09	2,350.85	150.25	16.647	
4,000.00	3,998.53	3,962.53	3,998.53	17.59	136.63	-43.11	-428.28	-2,536.66	2,498.92	2,344.76	154.16	16.209	
4,100.00	4,098.48	4,062.48	4,098.48	18.02	140.11	-43.16	-428.28	-2,536.66	2,496.76	2,338.67	158.08	15.794	
4,200.00	4,198.44	4,162.44	4,198.44	18.45	143.60	-43.21	-428.28	-2,536.66	2,494.59	2,332.59	162.00	15.398	
4,300.00	4,298.40	4,262.40	4,298.40	18.88	147.09	-43.25	-428.28	-2,536.66	2,492.43	2,326.51	165.92	15.022	
4,400.00	4,398.35	4,362.35	4,398.35	19.32	150.58	-43.30	-428.28	-2,536.66	2,490.27	2,320.43	169.84	14.662	
4,500.00	4,498.31	4,462.31	4,498.31	19.75	154.07	-43.35	-428.28	-2,536.66	2,488.11	2,314.35	173.77	14.319	
4,600.00	4,598.26	4,562.26	4,598.26	20.19	157.56	-43.39	-428.28	-2,536.66	2,485.96	2,308.27	177.69	13.991	
4,700.00	4,698.22	4,662.22	4,698.22	20.62	161.05	-43.44	-428.28	-2,536.66	2,483.80	2,302.19	181.61	13.677	
4,800.00	4,798.18	4,762.18	4,798.18	21.05	164.54	-43.49	-428.28	-2,536.66	2,481.65	2,296.12	185.53	13.376	
4,900.00	4,898.13	4,862.13	4,898.13	21.49	168.02	-43.53	-428.28	-2,536.66	2,479.49	2,290.04	189.45	13.088	
5,000.00	4,998.09	4,962.09	4,998.09	21.92	171.51	-43.58	-428.28	-2,536.66	2,477.34	2,283.97	193.37	12.811	
5,100.00	5,098.04	5,062.04	5,098.04	22.36	175.00	-43.63	-428.28	-2,536.66	2,475.19	2,277.90	197.30	12.546	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	
5,200.00	5,198.00	5,162.00	5,198.00	22.79	178.49	-43.68	-428.28	-2,536.66	2,473.05	2,271.83	201.22	12.290	
5,300.00	5,297.96	5,261.96	5,297.96	23.23	181.98	-43.72	-428.28	-2,536.66	2,470.90	2,265.76	205.14	12.045	
5,400.00	5,397.91	5,361.91	5,397.91	23.67	185.47	-43.77	-428.28	-2,536.66	2,468.76	2,259.69	209.07	11.809	
5,500.00	5,497.87	5,461.87	5,497.87	24.10	188.96	-43.82	-428.28	-2,536.66	2,466.62	2,253.63	212.99	11.581	
5,600.00	5,597.82	5,561.82	5,597.82	24.54	192.45	-43.87	-428.28	-2,536.66	2,464.48	2,247.56	216.91	11.362	
5,700.00	5,697.78	5,661.78	5,697.78	24.97	195.94	-43.91	-428.28	-2,536.66	2,462.34	2,241.50	220.84	11.150	
5,800.00	5,797.74	5,761.74	5,797.74	25.41	199.42	-43.96	-428.28	-2,536.66	2,460.20	2,235.44	224.76	10.946	
5,900.00	5,897.69	5,861.69	5,897.69	25.85	202.91	-44.01	-428.28	-2,536.66	2,458.06	2,229.38	228.68	10.749	
6,000.00	5,997.65	5,961.65	5,997.65	26.28	206.40	-44.06	-428.28	-2,536.66	2,455.93	2,223.32	232.61	10.558	
6,100.00	6,097.60	6,061.60	6,097.60	26.72	209.89	-44.11	-428.28	-2,536.66	2,453.80	2,217.27	236.53	10.374	
6,200.00	6,197.56	6,161.56	6,197.56	27.16	213.38	-44.15	-428.28	-2,536.66	2,451.67	2,211.21	240.46	10.196	
6,300.00	6,297.52	6,261.52	6,297.52	27.59	216.87	-44.20	-428.28	-2,536.66	2,449.54	2,205.16	244.38	10.023	
6,400.00	6,397.47	6,361.47	6,397.47	28.03	220.36	-44.25	-428.28	-2,536.66	2,447.41	2,199.11	248.31	9.856	
6,500.00	6,497.43	6,461.43	6,497.43	28.47	223.85	-44.30	-428.28	-2,536.66	2,445.29	2,193.06	252.23	9.695	
6,600.00	6,597.38	6,561.38	6,597.38	28.90	227.34	-44.35	-428.28	-2,536.66	2,443.17	2,187.01	256.15	9.538	
6,700.00	6,697.08	6,661.08	6,697.08	29.34	230.82	-18.67	-428.28	-2,536.66	2,437.07	2,177.00	260.07	9.371	
6,800.00	6,794.63	6,758.63	6,794.63	29.79	234.22	-15.76	-428.28	-2,536.66	2,416.40	2,152.49	263.91	9.156	
6,900.00	6,887.62	6,851.62	6,887.62	30.24	237.47	-15.72	-428.28	-2,536.66	2,381.07	2,113.50	267.56	8.899	
7,000.00	6,973.77	6,937.77	6,973.77	30.70	240.47	-16.83	-428.28	-2,536.66	2,331.99	2,061.04	270.94	8.607	
7,100.00	7,050.94	7,014.94	7,050.94	31.20	243.17	-19.03	-428.28	-2,536.66	2,270.41	1,996.45	273.97	8.287	
7,200.00	7,117.24	7,081.24	7,117.24	31.77	245.48	-22.71	-428.28	-2,536.66	2,197.92	1,921.36	276.56	7.947	
7,300.00	7,171.03	7,135.03	7,171.03	32.46	247.36	-28.80	-428.28	-2,536.66	2,116.37	1,837.69	278.68	7.594	
7,400.00	7,211.00	7,175.00	7,211.00	33.29	248.76	-39.30	-428.28	-2,536.66	2,027.83	1,747.56	280.27	7.235	
7,500.00	7,236.16	7,200.16	7,236.16	34.29	249.63	-57.85	-428.28	-2,536.66	1,934.56	1,653.25	281.31	6.877	
7,600.00	7,245.89	7,209.89	7,245.89	35.43	249.97	-86.27	-428.28	-2,536.66	1,838.95	1,557.14	281.81	6.525	
7,700.00	7,245.73	7,209.73	7,245.73	36.72	249.97	-90.58	-428.28	-2,536.66	1,743.16	1,461.17	281.99	6.182	
7,800.00	7,245.42	7,209.42	7,245.42	38.18	249.96	-90.54	-428.28	-2,536.66	1,647.87	1,365.64	282.22	5.839	
7,900.00	7,245.10	7,209.10	7,245.10	39.80	249.95	-90.51	-428.28	-2,536.66	1,553.17	1,270.63	282.54	5.497	
8,000.00	7,244.79	7,208.79	7,244.79	41.54	249.94	-90.47	-428.28	-2,536.66	1,459.18	1,176.23	282.95	5.157	
8,100.00	7,244.48	7,208.48	7,244.48	43.41	249.92	-90.44	-428.28	-2,536.66	1,366.04	1,082.55	283.50	4.819	
8,200.00	7,244.17	7,208.17	7,244.17	45.38	249.91	-90.41	-428.28	-2,536.66	1,273.95	989.73	284.21	4.482	
8,300.00	7,243.86	7,207.86	7,243.86	47.44	249.90	-90.37	-428.28	-2,536.66	1,183.14	897.99	285.15	4.149	
8,400.00	7,243.55	7,207.55	7,243.55	49.58	249.89	-90.34	-428.28	-2,536.66	1,093.93	807.56	286.37	3.820	
8,500.00	7,243.23	7,207.23	7,243.23	51.78	249.88	-90.30	-428.28	-2,536.66	1,006.75	718.79	287.96	3.496	
8,600.00	7,242.92	7,206.92	7,242.92	54.05	249.87	-90.27	-428.28	-2,536.66	922.18	632.17	290.01	3.180	
8,700.00	7,242.61	7,206.61	7,242.61	56.37	249.86	-90.23	-428.28	-2,536.66	841.00	548.36	292.64	2.874	
8,800.00	7,242.30	7,206.30	7,242.30	58.74	249.85	-90.20	-428.28	-2,536.66	764.30	468.32	295.97	2.582	
8,900.00	7,241.99	7,205.99	7,241.99	61.16	249.84	-90.16	-428.28	-2,536.66	693.55	393.46	300.09	2.311	
9,000.00	7,241.67	7,205.67	7,241.67	63.61	249.83	-90.13	-428.28	-2,536.66	630.78	325.79	304.99	2.068	
9,100.00	7,241.36	7,205.36	7,241.36	66.09	249.82	-90.09	-428.28	-2,536.66	578.58	268.13	310.45	1.864	
9,200.00	7,241.05	7,205.05	7,241.05	68.60	249.80	-90.06	-428.28	-2,536.66	540.01	224.10	315.92	1.709	
9,300.00	7,240.74	7,204.74	7,240.74	71.13	249.79	-90.02	-428.28	-2,536.66	518.15	197.64	320.51	1.617	
9,365.67	7,240.53	7,204.53	7,240.53	72.82	249.79	-90.00	-428.28	-2,536.66	513.97	191.37	322.60	1.593 CC, ES	
9,400.00	7,240.43	7,204.43	7,240.43	73.70	249.78	-89.99	-428.28	-2,536.66	515.12	191.80	323.32	1.593 SF	
9,500.00	7,240.11	7,204.11	7,240.11	76.28	249.77	-89.95	-428.28	-2,536.66	531.24	207.31	323.92	1.640	
9,600.00	7,239.80	7,203.80	7,239.80	78.88	249.76	-89.92	-428.28	-2,536.66	564.87	242.27	322.60	1.751	
9,700.00	7,239.49	7,203.49	7,239.49	81.50	249.75	-89.88	-428.28	-2,536.66	613.14	293.08	320.06	1.916	
9,800.00	7,239.18	7,203.18	7,239.18	84.13	249.74	-89.85	-428.28	-2,536.66	672.91	355.90	317.01	2.123	
9,900.00	7,238.87	7,202.87	7,238.87	86.78	249.73	-89.81	-428.28	-2,536.66	741.40	427.48	313.92	2.362	
10,000.00	7,238.55	7,202.55	7,238.55	89.44	249.72	-89.78	-428.28	-2,536.66	816.42	505.40	311.02	2.625	
10,100.00	7,238.24	7,202.24	7,238.24	92.11	249.71	-89.74	-428.28	-2,536.66	896.33	587.89	308.43	2.906	
10,200.00	7,237.93	7,201.93	7,237.93	94.80	249.70	-89.71	-428.28	-2,536.66	979.93	673.77	306.16	3.201	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,300.00	7,237.62	7,201.62	7,237.62	97.49	249.69	-89.68	-428.28	-2,536.66	1,066.36	762.17	304.19	3.506		
10,400.00	7,237.31	7,201.31	7,237.31	100.19	249.67	-89.64	-428.28	-2,536.66	1,154.99	852.50	302.49	3.818		
10,500.00	7,236.99	7,200.99	7,236.99	102.90	249.66	-89.61	-428.28	-2,536.66	1,245.34	944.32	301.01	4.137		
10,600.00	7,236.68	7,200.68	7,236.68	105.62	249.65	-89.57	-428.28	-2,536.66	1,337.06	1,037.33	299.73	4.461		
10,700.00	7,236.37	7,200.37	7,236.37	108.35	249.64	-89.54	-428.28	-2,536.66	1,429.89	1,131.27	298.62	4.788		
10,800.00	7,236.06	7,200.06	7,236.06	111.08	249.63	-89.50	-428.28	-2,536.66	1,523.63	1,225.99	297.64	5.119		
10,900.00	7,235.75	7,200.25	7,235.75	113.82	249.64	-89.47	-428.28	-2,536.66	1,618.12	1,321.31	296.81	5.452		
11,000.00	7,235.44	7,200.56	7,235.44	116.56	249.65	-89.43	-428.28	-2,536.66	1,713.24	1,417.16	296.08	5.786		
11,100.00	7,235.12	7,200.88	7,235.12	119.31	249.66	-89.40	-428.28	-2,536.66	1,808.88	1,513.45	295.43	6.123		
11,200.00	7,234.81	7,201.19	7,234.81	122.07	249.67	-89.36	-428.28	-2,536.66	1,904.97	1,610.11	294.86	6.461		
11,300.00	7,234.50	7,201.50	7,234.50	124.83	249.68	-89.33	-428.28	-2,536.66	2,001.44	1,707.08	294.36	6.799		
11,400.00	7,234.19	7,201.81	7,234.19	127.59	249.69	-89.29	-428.28	-2,536.66	2,098.24	1,804.34	293.91	7.139		
11,500.00	7,233.88	7,202.12	7,233.88	130.36	249.70	-89.26	-428.28	-2,536.66	2,195.33	1,901.83	293.51	7.480		
11,600.00	7,233.56	7,202.44	7,233.56	133.13	249.71	-89.22	-428.28	-2,536.66	2,292.67	1,999.52	293.15	7.821		
11,700.00	7,233.25	7,202.75	7,233.25	135.91	249.72	-89.19	-428.28	-2,536.66	2,390.23	2,097.40	292.83	8.163		
11,800.00	7,232.94	7,203.06	7,232.94	138.68	249.74	-89.15	-428.28	-2,536.66	2,487.99	2,195.44	292.54	8.505		
11,900.00	7,232.63	7,203.37	7,232.63	141.47	249.75	-89.12	-428.28	-2,536.66	2,585.91	2,293.63	292.28	8.847		
12,000.00	7,232.32	7,203.68	7,232.32	144.25	249.76	-89.08	-428.28	-2,536.66	2,683.99	2,391.94	292.05	9.190		
12,100.00	7,232.00	7,204.00	7,232.00	147.04	249.77	-89.05	-428.28	-2,536.66	2,782.20	2,490.36	291.84	9.533		
12,200.00	7,231.69	7,204.31	7,231.69	149.83	249.78	-89.01	-428.28	-2,536.66	2,880.54	2,588.88	291.66	9.876		
12,300.00	7,231.38	7,204.62	7,231.38	152.62	249.79	-88.98	-428.28	-2,536.66	2,978.99	2,687.50	291.49	10.220		
12,400.00	7,231.07	7,204.93	7,231.07	155.42	249.80	-88.95	-428.28	-2,536.66	3,077.54	2,786.20	291.34	10.563		
12,500.00	7,230.76	7,205.24	7,230.76	158.22	249.81	-88.91	-428.28	-2,536.66	3,176.18	2,884.97	291.20	10.907		
12,600.00	7,230.44	7,205.56	7,230.44	161.01	249.82	-88.88	-428.28	-2,536.66	3,274.90	2,983.82	291.08	11.251		
12,700.00	7,230.13	7,205.87	7,230.13	163.82	249.83	-88.84	-428.28	-2,536.66	3,373.70	3,082.72	290.97	11.595		
12,800.00	7,229.82	7,206.18	7,229.82	166.62	249.84	-88.81	-428.28	-2,536.66	3,472.56	3,181.68	290.88	11.938		
12,900.00	7,229.51	7,206.49	7,229.51	169.43	249.86	-88.77	-428.28	-2,536.66	3,571.49	3,280.70	290.79	12.282		
13,000.00	7,229.20	7,206.80	7,229.20	172.23	249.87	-88.74	-428.28	-2,536.66	3,670.48	3,379.76	290.72	12.626		
13,100.00	7,228.88	7,207.12	7,228.88	175.04	249.88	-88.70	-428.28	-2,536.66	3,769.52	3,478.87	290.65	12.969		
13,200.00	7,228.57	7,207.43	7,228.57	177.85	249.89	-88.67	-428.28	-2,536.66	3,868.61	3,578.01	290.59	13.313		
13,300.00	7,228.26	7,207.74	7,228.26	180.66	249.90	-88.63	-428.28	-2,536.66	3,967.74	3,677.20	290.54	13.656		
13,400.00	7,227.95	7,208.05	7,227.95	183.48	249.91	-88.60	-428.28	-2,536.66	4,066.92	3,776.42	290.50	14.000		
13,500.00	7,227.64	7,208.36	7,227.64	186.29	249.92	-88.56	-428.28	-2,536.66	4,166.14	3,875.67	290.47	14.343		
13,600.00	7,227.33	7,208.67	7,227.33	189.11	249.93	-88.53	-428.28	-2,536.66	4,265.39	3,974.95	290.44	14.686		
13,700.00	7,227.01	7,208.99	7,227.01	191.92	249.94	-88.49	-428.28	-2,536.66	4,364.68	4,074.26	290.42	15.029		
13,800.00	7,226.70	7,209.30	7,226.70	194.74	249.95	-88.46	-428.28	-2,536.66	4,464.00	4,173.59	290.40	15.372		
13,900.00	7,226.39	7,209.61	7,226.39	197.56	249.96	-88.42	-428.28	-2,536.66	4,563.35	4,272.95	290.39	15.715		
14,000.00	7,226.08	7,209.92	7,226.08	200.38	249.97	-88.39	-428.28	-2,536.66	4,662.72	4,372.34	290.38	16.057		
14,100.00	7,225.77	7,189.77	7,225.77	203.21	249.27	-88.35	-428.28	-2,536.66	4,762.12	4,472.46	289.67	16.440		
14,200.00	7,225.45	7,189.45	7,225.45	206.03	249.26	-88.32	-428.28	-2,536.66	4,861.55	4,571.90	289.65	16.784		
14,300.00	7,225.14	7,189.14	7,225.14	208.85	249.25	-88.28	-428.28	-2,536.66	4,961.00	4,671.37	289.64	17.128		
14,400.00	7,224.83	7,188.83	7,224.83	211.68	249.24	-88.25	-428.28	-2,536.66	5,060.47	4,770.85	289.63	17.472		
14,500.00	7,224.52	7,188.52	7,224.52	214.50	249.23	-88.22	-428.28	-2,536.66	5,159.97	4,870.35	289.62	17.816		
14,600.00	7,224.21	7,188.21	7,224.21	217.33	249.22	-88.18	-428.28	-2,536.66	5,259.48	4,969.86	289.62	18.160		
14,700.00	7,223.89	7,187.89	7,223.89	220.16	249.21	-88.15	-428.28	-2,536.66	5,359.01	5,069.39	289.62	18.504		
14,800.00	7,223.58	7,187.58	7,223.58	222.98	249.20	-88.11	-428.28	-2,536.66	5,458.56	5,168.93	289.62	18.847		
14,900.00	7,223.27	7,187.27	7,223.27	225.81	249.18	-88.08	-428.28	-2,536.66	5,558.12	5,268.49	289.63	19.190		
14,987.41	7,223.00	7,187.00	7,223.00	228.28	249.17	-88.05	-428.28	-2,536.66	5,645.16	5,355.52	289.64	19.490		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	47.00	3.28	3.28	-108.41	-1,597.37	-4,798.19	5,057.31				
100.00	100.00	53.00	100.00	3.28	3.41	-108.41	-1,597.37	-4,798.19	5,057.09	5,050.40	6.69	755.614	
200.00	200.00	153.00	200.00	3.34	4.87	-108.41	-1,597.37	-4,798.19	5,057.09	5,048.89	8.20	616.416	
300.00	300.00	253.00	300.00	3.44	7.81	-108.41	-1,597.37	-4,798.19	5,057.09	5,045.84	11.25	449.364	
400.00	400.00	353.00	400.00	3.60	11.07	-108.41	-1,597.37	-4,798.19	5,057.09	5,042.41	14.68	344.537	
500.00	500.00	453.00	500.00	3.81	14.45	-108.41	-1,597.37	-4,798.19	5,057.09	5,038.84	18.25	277.070	
600.00	600.00	553.00	600.00	4.05	17.86	-108.41	-1,597.37	-4,798.19	5,057.09	5,035.18	21.91	230.815	
700.00	699.98	652.98	699.98	4.32	21.30	-50.44	-1,597.37	-4,798.19	5,056.00	5,030.39	25.62	197.356	
800.00	799.94	752.94	799.94	4.61	24.76	-50.47	-1,597.37	-4,798.19	5,054.11	5,024.75	29.36	172.120	
900.00	899.89	852.89	899.89	4.92	28.22	-50.49	-1,597.37	-4,798.19	5,052.23	5,019.09	33.14	152.452	
1,000.00	999.85	952.85	999.85	5.25	31.69	-50.52	-1,597.37	-4,798.19	5,050.34	5,013.40	36.94	136.719	
1,100.00	1,099.80	1,052.80	1,099.80	5.60	35.16	-50.54	-1,597.37	-4,798.19	5,048.45	5,007.69	40.76	123.863	
1,200.00	1,199.76	1,152.76	1,199.76	5.96	38.64	-50.57	-1,597.37	-4,798.19	5,046.57	5,001.97	44.59	113.171	
1,300.00	1,299.72	1,252.72	1,299.72	6.33	42.11	-50.60	-1,597.37	-4,798.19	5,044.68	4,996.24	48.44	104.146	
1,400.00	1,399.67	1,352.67	1,399.67	6.71	45.59	-50.62	-1,597.37	-4,798.19	5,042.80	4,990.50	52.30	96.429	
1,500.00	1,499.63	1,452.63	1,499.63	7.10	49.08	-50.65	-1,597.37	-4,798.19	5,040.92	4,984.76	56.16	89.759	
1,600.00	1,599.58	1,552.58	1,599.58	7.49	52.56	-50.67	-1,597.37	-4,798.19	5,039.04	4,979.00	60.03	83.938	
1,700.00	1,699.54	1,652.54	1,699.54	7.88	56.04	-50.70	-1,597.37	-4,798.19	5,037.16	4,973.24	63.91	78.815	
1,800.00	1,799.50	1,752.50	1,799.50	8.28	59.52	-50.73	-1,597.37	-4,798.19	5,035.28	4,967.48	67.79	74.273	
1,900.00	1,899.45	1,852.45	1,899.45	8.69	63.01	-50.75	-1,597.37	-4,798.19	5,033.40	4,961.72	71.68	70.218	
2,000.00	1,999.41	1,952.41	1,999.41	9.10	66.49	-50.78	-1,597.37	-4,798.19	5,031.52	4,955.95	75.57	66.577	
2,100.00	2,099.36	2,052.36	2,099.36	9.51	69.98	-50.81	-1,597.37	-4,798.19	5,029.64	4,950.18	79.47	63.291	
2,200.00	2,199.32	2,152.32	2,199.32	9.92	73.47	-50.83	-1,597.37	-4,798.19	5,027.77	4,944.40	83.37	60.309	
2,300.00	2,299.28	2,252.28	2,299.28	10.34	76.95	-50.86	-1,597.37	-4,798.19	5,025.90	4,938.63	87.27	57.592	
2,400.00	2,399.23	2,352.23	2,399.23	10.75	80.44	-50.88	-1,597.37	-4,798.19	5,024.02	4,932.85	91.17	55.106	
2,500.00	2,499.19	2,452.19	2,499.19	11.17	83.92	-50.91	-1,597.37	-4,798.19	5,022.15	4,927.08	95.07	52.823	
2,600.00	2,599.14	2,552.14	2,599.14	11.60	87.41	-50.94	-1,597.37	-4,798.19	5,020.28	4,921.30	98.98	50.720	
2,700.00	2,699.10	2,652.10	2,699.10	12.02	90.90	-50.96	-1,597.37	-4,798.19	5,018.41	4,915.52	102.89	48.775	
2,800.00	2,799.06	2,752.06	2,799.06	12.44	94.39	-50.99	-1,597.37	-4,798.19	5,016.54	4,909.74	106.80	46.972	
2,900.00	2,899.01	2,852.01	2,899.01	12.87	97.87	-51.02	-1,597.37	-4,798.19	5,014.67	4,903.97	110.71	45.296	
3,000.00	2,998.97	2,951.97	2,998.97	13.29	101.36	-51.04	-1,597.37	-4,798.19	5,012.81	4,898.19	114.62	43.734	
3,100.00	3,098.92	3,051.92	3,098.92	13.72	104.85	-51.07	-1,597.37	-4,798.19	5,010.94	4,892.41	118.53	42.275	
3,200.00	3,198.88	3,151.88	3,198.88	14.14	108.34	-51.09	-1,597.37	-4,798.19	5,009.08	4,886.63	122.45	40.908	
3,300.00	3,298.84	3,251.84	3,298.84	14.57	111.82	-51.12	-1,597.37	-4,798.19	5,007.21	4,880.85	126.36	39.626	
3,400.00	3,398.79	3,351.79	3,398.79	15.00	115.31	-51.15	-1,597.37	-4,798.19	5,005.35	4,875.08	130.28	38.421	
3,500.00	3,498.75	3,451.75	3,498.75	15.43	118.80	-51.17	-1,597.37	-4,798.19	5,003.49	4,869.30	134.19	37.286	
3,600.00	3,598.70	3,551.70	3,598.70	15.86	122.29	-51.20	-1,597.37	-4,798.19	5,001.63	4,863.52	138.11	36.215	
3,700.00	3,698.66	3,651.66	3,698.66	16.29	125.78	-51.23	-1,597.37	-4,798.19	4,999.77	4,857.75	142.03	35.203	
3,800.00	3,798.62	3,751.62	3,798.62	16.72	129.27	-51.25	-1,597.37	-4,798.19	4,997.91	4,851.97	145.94	34.245	
3,900.00	3,898.57	3,851.57	3,898.57	17.15	132.75	-51.28	-1,597.37	-4,798.19	4,996.06	4,846.19	149.86	33.337	
4,000.00	3,998.53	3,951.53	3,998.53	17.59	136.24	-51.31	-1,597.37	-4,798.19	4,994.20	4,840.42	153.78	32.476	
4,100.00	4,098.48	4,051.48	4,098.48	18.02	139.73	-51.33	-1,597.37	-4,798.19	4,992.35	4,834.64	157.70	31.657	
4,200.00	4,198.44	4,151.44	4,198.44	18.45	143.22	-51.36	-1,597.37	-4,798.19	4,990.49	4,828.87	161.62	30.878	
4,300.00	4,298.40	4,251.40	4,298.40	18.88	146.71	-51.39	-1,597.37	-4,798.19	4,988.64	4,823.10	165.54	30.135	
4,400.00	4,398.35	4,351.35	4,398.35	19.32	150.20	-51.41	-1,597.37	-4,798.19	4,986.79	4,817.33	169.46	29.427	
4,500.00	4,498.31	4,451.31	4,498.31	19.75	153.68	-51.44	-1,597.37	-4,798.19	4,984.94	4,811.55	173.38	28.751	
4,600.00	4,598.26	4,551.26	4,598.26	20.19	157.17	-51.47	-1,597.37	-4,798.19	4,983.09	4,805.78	177.30	28.105	
4,700.00	4,698.22	4,651.22	4,698.22	20.62	160.66	-51.49	-1,597.37	-4,798.19	4,981.24	4,800.01	181.23	27.486	
4,800.00	4,798.18	4,751.18	4,798.18	21.05	164.15	-51.52	-1,597.37	-4,798.19	4,979.39	4,794.25	185.15	26.894	
4,900.00	4,898.13	4,851.13	4,898.13	21.49	167.64	-51.55	-1,597.37	-4,798.19	4,977.55	4,788.48	189.07	26.326	
5,000.00	4,998.09	4,951.09	4,998.09	21.92	171.13	-51.57	-1,597.37	-4,798.19	4,975.70	4,782.71	192.99	25.782	
5,100.00	5,098.04	5,051.04	5,098.04	22.36	174.62	-51.60	-1,597.37	-4,798.19	4,973.86	4,776.94	196.91	25.259	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,151.00	5,198.00	22.79	178.11	-51.63	-1,597.37	-4,798.19	4,972.02	4,771.18	200.84	24.756		
5,300.00	5,297.96	5,250.96	5,297.96	23.23	181.60	-51.65	-1,597.37	-4,798.19	4,970.17	4,765.41	204.76	24.273		
5,400.00	5,397.91	5,350.91	5,397.91	23.67	185.08	-51.68	-1,597.37	-4,798.19	4,968.33	4,759.65	208.68	23.808		
5,500.00	5,497.87	5,450.87	5,497.87	24.10	188.57	-51.71	-1,597.37	-4,798.19	4,966.49	4,753.89	212.61	23.360		
5,600.00	5,597.82	5,550.82	5,597.82	24.54	192.06	-51.73	-1,597.37	-4,798.19	4,964.65	4,748.12	216.53	22.928		
5,700.00	5,697.78	5,650.78	5,697.78	24.97	195.55	-51.76	-1,597.37	-4,798.19	4,962.82	4,742.36	220.45	22.512		
5,800.00	5,797.74	5,750.74	5,797.74	25.41	199.04	-51.79	-1,597.37	-4,798.19	4,960.98	4,736.60	224.38	22.110		
5,900.00	5,897.69	5,850.69	5,897.69	25.85	202.53	-51.81	-1,597.37	-4,798.19	4,959.15	4,730.84	228.30	21.722		
6,000.00	5,997.65	5,950.65	5,997.65	26.28	206.02	-51.84	-1,597.37	-4,798.19	4,957.31	4,725.09	232.23	21.347		
6,100.00	6,097.60	6,050.60	6,097.60	26.72	209.51	-51.87	-1,597.37	-4,798.19	4,955.48	4,719.33	236.15	20.984		
6,200.00	6,197.56	6,150.56	6,197.56	27.16	213.00	-51.90	-1,597.37	-4,798.19	4,953.65	4,713.57	240.07	20.634		
6,300.00	6,297.52	6,250.52	6,297.52	27.59	216.49	-51.92	-1,597.37	-4,798.19	4,951.82	4,707.82	244.00	20.294		
6,400.00	6,397.47	6,350.47	6,397.47	28.03	219.97	-51.95	-1,597.37	-4,798.19	4,949.99	4,702.06	247.92	19.966		
6,500.00	6,497.43	6,450.43	6,497.43	28.47	223.46	-51.98	-1,597.37	-4,798.19	4,948.16	4,696.31	251.85	19.647		
6,600.00	6,597.38	6,550.38	6,597.38	28.90	226.95	-52.00	-1,597.37	-4,798.19	4,946.33	4,690.56	255.77	19.339		
6,700.00	6,697.08	6,650.08	6,697.08	29.34	230.43	-26.35	-1,597.37	-4,798.19	4,940.68	4,680.99	259.69	19.025		
6,800.00	6,794.63	6,747.63	6,794.63	29.79	233.84	-23.61	-1,597.37	-4,798.19	4,920.98	4,657.45	263.53	18.674		
6,900.00	6,887.62	6,840.62	6,887.62	30.24	237.08	-23.91	-1,597.37	-4,798.19	4,887.16	4,619.98	267.18	18.291		
7,000.00	6,973.77	6,926.77	6,973.77	30.70	240.09	-25.53	-1,597.37	-4,798.19	4,840.10	4,569.53	270.57	17.888		
7,100.00	7,050.94	7,003.94	7,050.94	31.20	242.78	-28.42	-1,597.37	-4,798.19	4,781.00	4,507.40	273.61	17.474		
7,200.00	7,117.24	7,070.24	7,117.24	31.77	245.10	-32.98	-1,597.37	-4,798.19	4,711.40	4,435.17	276.23	17.056		
7,300.00	7,171.03	7,124.03	7,171.03	32.46	246.98	-39.98	-1,597.37	-4,798.19	4,633.05	4,354.68	278.38	16.643		
7,400.00	7,211.00	7,164.00	7,211.00	33.29	248.37	-50.73	-1,597.37	-4,798.19	4,547.97	4,267.95	280.02	16.242		
7,500.00	7,236.16	7,189.16	7,236.16	34.29	249.25	-66.67	-1,597.37	-4,798.19	4,458.29	4,177.16	281.13	15.858		
7,600.00	7,245.89	7,201.12	7,245.89	35.43	249.67	-87.37	-1,597.37	-4,798.19	4,366.29	4,084.50	281.79	15.495		
7,700.00	7,245.73	7,201.27	7,245.73	36.72	249.67	-90.42	-1,597.37	-4,798.19	4,274.02	3,991.96	282.06	15.153		
7,800.00	7,245.42	7,201.58	7,245.42	38.18	249.68	-90.41	-1,597.37	-4,798.19	4,182.11	3,899.71	282.40	14.809		
7,900.00	7,245.10	7,201.90	7,245.10	39.80	249.69	-90.40	-1,597.37	-4,798.19	4,090.58	3,807.78	282.80	14.465		
8,000.00	7,244.79	7,202.21	7,244.79	41.54	249.71	-90.39	-1,597.37	-4,798.19	3,999.45	3,716.18	283.27	14.119		
8,100.00	7,244.48	7,202.52	7,244.48	43.41	249.72	-90.38	-1,597.37	-4,798.19	3,908.76	3,624.94	283.82	13.772		
8,200.00	7,244.17	7,202.83	7,244.17	45.38	249.73	-90.37	-1,597.37	-4,798.19	3,818.53	3,534.08	284.46	13.424		
8,300.00	7,243.86	7,203.14	7,243.86	47.44	249.74	-90.36	-1,597.37	-4,798.19	3,728.80	3,443.62	285.18	13.075		
8,400.00	7,243.55	7,203.46	7,243.55	49.58	249.75	-90.35	-1,597.37	-4,798.19	3,639.61	3,353.61	286.00	12.726		
8,500.00	7,243.23	7,203.77	7,243.23	51.78	249.76	-90.34	-1,597.37	-4,798.19	3,550.99	3,264.07	286.92	12.376		
8,600.00	7,242.92	7,204.08	7,242.92	54.05	249.77	-90.33	-1,597.37	-4,798.19	3,463.00	3,175.05	287.95	12.026		
8,700.00	7,242.61	7,204.39	7,242.61	56.37	249.78	-90.32	-1,597.37	-4,798.19	3,375.67	3,086.57	289.10	11.677		
8,800.00	7,242.30	7,204.70	7,242.30	58.74	249.79	-90.30	-1,597.37	-4,798.19	3,289.06	2,998.69	290.37	11.327		
8,900.00	7,241.99	7,205.01	7,241.99	61.16	249.80	-90.29	-1,597.37	-4,798.19	3,203.23	2,911.46	291.77	10.979		
9,000.00	7,241.67	7,205.33	7,241.67	63.61	249.81	-90.28	-1,597.37	-4,798.19	3,118.25	2,824.94	293.31	10.631		
9,100.00	7,241.36	7,205.64	7,241.36	66.09	249.83	-90.27	-1,597.37	-4,798.19	3,034.18	2,739.19	294.99	10.286		
9,200.00	7,241.05	7,205.95	7,241.05	68.60	249.84	-90.26	-1,597.37	-4,798.19	2,951.11	2,654.28	296.82	9.942		
9,300.00	7,240.74	7,206.26	7,240.74	71.13	249.85	-90.25	-1,597.37	-4,798.19	2,869.11	2,570.29	298.82	9.602		
9,400.00	7,240.43	7,206.57	7,240.43	73.70	249.86	-90.24	-1,597.37	-4,798.19	2,788.30	2,487.32	300.98	9.264		
9,500.00	7,240.11	7,206.89	7,240.11	76.28	249.87	-90.23	-1,597.37	-4,798.19	2,708.76	2,405.44	303.32	8.931		
9,600.00	7,239.80	7,207.20	7,239.80	78.88	249.88	-90.22	-1,597.37	-4,798.19	2,630.62	2,324.79	305.83	8.602		
9,700.00	7,239.49	7,207.51	7,239.49	81.50	249.89	-90.21	-1,597.37	-4,798.19	2,554.00	2,245.47	308.53	8.278		
9,800.00	7,239.18	7,207.82	7,239.18	84.13	249.90	-90.20	-1,597.37	-4,798.19	2,479.06	2,167.63	311.42	7.960		
9,900.00	7,238.87	7,208.13	7,238.87	86.78	249.91	-90.19	-1,597.37	-4,798.19	2,405.93	2,091.42	314.51	7.650		
10,000.00	7,238.55	7,208.45	7,238.55	89.44	249.92	-90.18	-1,597.37	-4,798.19	2,334.80	2,017.00	317.80	7.347		
10,100.00	7,238.24	7,208.76	7,238.24	92.11	249.93	-90.16	-1,597.37	-4,798.19	2,265.85	1,944.56	321.28	7.052		
10,200.00	7,237.93	7,209.07	7,237.93	94.80	249.95	-90.15	-1,597.37	-4,798.19	2,199.28	1,874.32	324.97	6.768		
10,300.00	7,237.62	7,209.38	7,237.62	97.49	249.96	-90.14	-1,597.37	-4,798.19	2,135.33	1,806.49	328.84	6.494		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,209.69	7,237.31	100.19	249.97	-90.13	-1,597.37	-4,798.19	2,074.22	1,741.33	332.89	6.231		
10,500.00	7,236.99	7,189.99	7,236.99	102.90	249.28	-90.12	-1,597.37	-4,798.19	2,016.23	1,679.82	336.41	5.993		
10,600.00	7,236.68	7,189.68	7,236.68	105.62	249.27	-90.11	-1,597.37	-4,798.19	1,961.62	1,620.87	340.75	5.757		
10,700.00	7,236.37	7,189.37	7,236.37	108.35	249.26	-90.10	-1,597.37	-4,798.19	1,910.69	1,565.48	345.21	5.535		
10,800.00	7,236.06	7,189.06	7,236.06	111.08	249.25	-90.09	-1,597.37	-4,798.19	1,863.74	1,513.99	349.74	5.329		
10,900.00	7,235.75	7,188.75	7,235.75	113.82	249.24	-90.08	-1,597.37	-4,798.19	1,821.07	1,466.76	354.31	5.140		
11,000.00	7,235.44	7,188.44	7,235.44	116.56	249.22	-90.07	-1,597.37	-4,798.19	1,783.00	1,424.13	358.87	4.968		
11,100.00	7,235.12	7,188.12	7,235.12	119.31	249.21	-90.06	-1,597.37	-4,798.19	1,749.81	1,386.47	363.34	4.816		
11,200.00	7,234.81	7,187.81	7,234.81	122.07	249.20	-90.05	-1,597.37	-4,798.19	1,721.81	1,354.14	367.67	4.683		
11,300.00	7,234.50	7,187.50	7,234.50	124.83	249.19	-90.04	-1,597.37	-4,798.19	1,699.24	1,327.44	371.80	4.570		
11,400.00	7,234.19	7,187.19	7,234.19	127.59	249.18	-90.03	-1,597.37	-4,798.19	1,682.32	1,306.67	375.65	4.478		
11,500.00	7,233.88	7,186.88	7,233.88	130.36	249.17	-90.01	-1,597.37	-4,798.19	1,671.22	1,292.06	379.15	4.408		
11,600.00	7,233.56	7,186.56	7,233.56	133.13	249.16	-90.00	-1,597.37	-4,798.19	1,666.06	1,283.79	382.27	4.358		
11,636.11	7,233.45	7,186.45	7,233.45	134.13	249.16	-90.00	-1,597.37	-4,798.19	1,665.66	1,282.38	383.29	4.346 CC		
11,700.00	7,233.25	7,186.25	7,233.25	135.91	249.15	-89.99	-1,597.37	-4,798.19	1,666.89	1,281.94	384.95	4.330 ES		
11,800.00	7,232.94	7,185.94	7,232.94	138.68	249.14	-89.98	-1,597.37	-4,798.19	1,673.71	1,286.55	387.15	4.323 SF		
11,900.00	7,232.63	7,185.63	7,232.63	141.47	249.13	-89.97	-1,597.37	-4,798.19	1,686.44	1,297.55	388.88	4.337		
12,000.00	7,232.32	7,185.32	7,232.32	144.25	249.12	-89.96	-1,597.37	-4,798.19	1,704.95	1,314.81	390.13	4.370		
12,100.00	7,232.00	7,185.00	7,232.00	147.04	249.11	-89.95	-1,597.37	-4,798.19	1,729.05	1,338.13	390.92	4.423		
12,200.00	7,231.69	7,184.69	7,231.69	149.83	249.09	-89.94	-1,597.37	-4,798.19	1,758.52	1,367.24	391.28	4.494		
12,300.00	7,231.38	7,184.38	7,231.38	152.62	249.08	-89.93	-1,597.37	-4,798.19	1,793.09	1,401.85	391.24	4.583		
12,400.00	7,231.07	7,184.07	7,231.07	155.42	249.07	-89.92	-1,597.37	-4,798.19	1,832.47	1,441.62	390.85	4.688		
12,500.00	7,230.76	7,183.76	7,230.76	158.22	249.06	-89.91	-1,597.37	-4,798.19	1,876.36	1,486.20	390.16	4.809		
12,600.00	7,230.44	7,183.44	7,230.44	161.01	249.05	-89.90	-1,597.37	-4,798.19	1,924.45	1,535.24	389.21	4.945		
12,700.00	7,230.13	7,183.13	7,230.13	163.82	249.04	-89.89	-1,597.37	-4,798.19	1,976.43	1,588.38	388.05	5.093		
12,800.00	7,229.82	7,182.82	7,229.82	166.62	249.03	-89.88	-1,597.37	-4,798.19	2,032.01	1,645.29	386.72	5.254		
12,900.00	7,229.51	7,182.51	7,229.51	169.43	249.02	-89.86	-1,597.37	-4,798.19	2,090.89	1,705.63	385.26	5.427		
13,000.00	7,229.20	7,182.20	7,229.20	172.23	249.01	-89.85	-1,597.37	-4,798.19	2,152.81	1,769.11	383.70	5.611		
13,100.00	7,228.88	7,181.88	7,228.88	175.04	249.00	-89.84	-1,597.37	-4,798.19	2,217.52	1,835.44	382.08	5.804		
13,200.00	7,228.57	7,181.57	7,228.57	177.85	248.99	-89.83	-1,597.37	-4,798.19	2,284.76	1,904.35	380.41	6.006		
13,300.00	7,228.26	7,181.26	7,228.26	180.66	248.97	-89.82	-1,597.37	-4,798.19	2,354.34	1,975.62	378.72	6.217		
13,400.00	7,227.95	7,180.95	7,227.95	183.48	248.96	-89.81	-1,597.37	-4,798.19	2,426.05	2,049.02	377.03	6.435		
13,500.00	7,227.64	7,180.64	7,227.64	186.29	248.95	-89.80	-1,597.37	-4,798.19	2,499.69	2,124.35	375.34	6.660		
13,600.00	7,227.33	7,180.33	7,227.33	189.11	248.94	-89.79	-1,597.37	-4,798.19	2,575.12	2,201.44	373.68	6.891		
13,700.00	7,227.01	7,180.01	7,227.01	191.92	248.93	-89.78	-1,597.37	-4,798.19	2,652.17	2,280.13	372.04	7.129		
13,800.00	7,226.70	7,179.70	7,226.70	194.74	248.92	-89.77	-1,597.37	-4,798.19	2,730.71	2,360.28	370.44	7.372		
13,900.00	7,226.39	7,179.39	7,226.39	197.56	248.91	-89.76	-1,597.37	-4,798.19	2,810.62	2,441.74	368.87	7.619		
14,000.00	7,226.08	7,179.08	7,226.08	200.38	248.90	-89.75	-1,597.37	-4,798.19	2,891.77	2,524.42	367.35	7.872		
14,100.00	7,225.77	7,178.77	7,225.77	203.21	248.89	-89.74	-1,597.37	-4,798.19	2,974.07	2,608.20	365.88	8.129		
14,200.00	7,225.45	7,178.45	7,225.45	206.03	248.88	-89.72	-1,597.37	-4,798.19	3,057.43	2,692.98	364.45	8.389		
14,300.00	7,225.14	7,178.14	7,225.14	208.85	248.87	-89.71	-1,597.37	-4,798.19	3,141.76	2,778.70	363.06	8.653		
14,400.00	7,224.83	7,177.83	7,224.83	211.68	248.85	-89.70	-1,597.37	-4,798.19	3,226.98	2,865.26	361.73	8.921		
14,500.00	7,224.52	7,177.52	7,224.52	214.50	248.84	-89.69	-1,597.37	-4,798.19	3,313.03	2,952.60	360.44	9.192		
14,600.00	7,224.21	7,177.21	7,224.21	217.33	248.83	-89.68	-1,597.37	-4,798.19	3,399.85	3,040.65	359.19	9.465		
14,700.00	7,223.89	7,176.89	7,223.89	220.16	248.82	-89.67	-1,597.37	-4,798.19	3,487.37	3,129.37	358.00	9.741		
14,800.00	7,223.58	7,176.58	7,223.58	222.98	248.81	-89.66	-1,597.37	-4,798.19	3,575.54	3,218.70	356.84	10.020		
14,900.00	7,223.27	7,176.27	7,223.27	225.81	248.80	-89.65	-1,597.37	-4,798.19	3,664.33	3,308.59	355.73	10.301		
14,987.41	7,223.00	7,176.00	7,223.00	228.28	248.79	-89.64	-1,597.37	-4,798.19	3,742.39	3,387.60	354.79	10.548		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	50.00	3.28	3.28	-122.82	-3,098.30	-4,804.04	5,716.71				
100.00	100.00	50.00	100.00	3.28	3.39	-122.82	-3,098.30	-4,804.04	5,716.49	5,709.81	6.68	855.910	
200.00	200.00	150.00	200.00	3.34	4.79	-122.82	-3,098.30	-4,804.04	5,716.49	5,708.37	8.13	703.380	
300.00	300.00	250.00	300.00	3.44	7.71	-122.82	-3,098.30	-4,804.04	5,716.49	5,705.33	11.16	512.278	
400.00	400.00	350.00	400.00	3.60	10.97	-122.82	-3,098.30	-4,804.04	5,716.49	5,701.91	14.58	392.133	
500.00	500.00	450.00	500.00	3.81	14.34	-122.82	-3,098.30	-4,804.04	5,716.49	5,698.34	18.15	314.957	
600.00	600.00	550.00	600.00	4.05	17.76	-122.82	-3,098.30	-4,804.04	5,716.49	5,694.69	21.81	262.143	
700.00	699.98	649.98	699.98	4.32	21.20	-64.84	-3,098.30	-4,804.04	5,715.77	5,690.25	25.52	224.015	
800.00	799.94	749.94	799.94	4.61	24.65	-64.87	-3,098.30	-4,804.04	5,714.51	5,685.25	29.26	195.299	
900.00	899.89	849.89	899.89	4.92	28.12	-64.90	-3,098.30	-4,804.04	5,713.25	5,680.21	33.04	172.939	
1,000.00	999.85	949.85	999.85	5.25	31.58	-64.93	-3,098.30	-4,804.04	5,711.99	5,675.15	36.84	155.065	
1,100.00	1,099.80	1,049.80	1,099.80	5.60	35.06	-64.95	-3,098.30	-4,804.04	5,710.73	5,670.08	40.65	140.468	
1,200.00	1,199.76	1,149.76	1,199.76	5.96	38.53	-64.98	-3,098.30	-4,804.04	5,709.47	5,664.99	44.49	128.334	
1,300.00	1,299.72	1,249.72	1,299.72	6.33	42.01	-65.01	-3,098.30	-4,804.04	5,708.22	5,659.88	48.34	118.095	
1,400.00	1,399.67	1,349.67	1,399.67	6.71	45.49	-65.03	-3,098.30	-4,804.04	5,706.97	5,654.77	52.19	109.344	
1,500.00	1,499.63	1,449.63	1,499.63	7.10	48.97	-65.06	-3,098.30	-4,804.04	5,705.71	5,649.66	56.06	101.783	
1,600.00	1,599.58	1,549.58	1,599.58	7.49	52.45	-65.09	-3,098.30	-4,804.04	5,704.46	5,644.53	59.93	95.185	
1,700.00	1,699.54	1,649.54	1,699.54	7.88	55.94	-65.11	-3,098.30	-4,804.04	5,703.21	5,639.41	63.81	89.380	
1,800.00	1,799.50	1,749.50	1,799.50	8.28	59.42	-65.14	-3,098.30	-4,804.04	5,701.97	5,634.27	67.69	84.233	
1,900.00	1,899.45	1,849.45	1,899.45	8.69	62.90	-65.17	-3,098.30	-4,804.04	5,700.72	5,629.14	71.58	79.641	
2,000.00	1,999.41	1,949.41	1,999.41	9.10	66.39	-65.20	-3,098.30	-4,804.04	5,699.47	5,624.00	75.47	75.517	
2,100.00	2,099.36	2,049.36	2,099.36	9.51	69.87	-65.22	-3,098.30	-4,804.04	5,698.23	5,618.86	79.37	71.795	
2,200.00	2,199.32	2,149.32	2,199.32	9.92	73.36	-65.25	-3,098.30	-4,804.04	5,696.98	5,613.72	83.27	68.420	
2,300.00	2,299.28	2,249.28	2,299.28	10.34	76.85	-65.28	-3,098.30	-4,804.04	5,695.74	5,608.58	87.17	65.344	
2,400.00	2,399.23	2,349.23	2,399.23	10.75	80.33	-65.30	-3,098.30	-4,804.04	5,694.50	5,603.43	91.07	62.530	
2,500.00	2,499.19	2,449.19	2,499.19	11.17	83.82	-65.33	-3,098.30	-4,804.04	5,693.26	5,598.29	94.97	59.946	
2,600.00	2,599.14	2,549.14	2,599.14	11.60	87.31	-65.36	-3,098.30	-4,804.04	5,692.02	5,593.14	98.88	57.565	
2,700.00	2,699.10	2,649.10	2,699.10	12.02	90.79	-65.39	-3,098.30	-4,804.04	5,690.79	5,588.00	102.79	55.364	
2,800.00	2,799.06	2,749.06	2,799.06	12.44	94.28	-65.41	-3,098.30	-4,804.04	5,689.55	5,582.85	106.70	53.324	
2,900.00	2,899.01	2,849.01	2,899.01	12.87	97.77	-65.44	-3,098.30	-4,804.04	5,688.32	5,577.71	110.61	51.427	
3,000.00	2,998.97	2,948.97	2,998.97	13.29	101.26	-65.47	-3,098.30	-4,804.04	5,687.08	5,572.56	114.52	49.660	
3,100.00	3,098.92	3,048.92	3,098.92	13.72	104.74	-65.49	-3,098.30	-4,804.04	5,685.85	5,567.42	118.43	48.009	
3,200.00	3,198.88	3,148.88	3,198.88	14.14	108.23	-65.52	-3,098.30	-4,804.04	5,684.62	5,562.28	122.35	46.463	
3,300.00	3,298.84	3,248.84	3,298.84	14.57	111.72	-65.55	-3,098.30	-4,804.04	5,683.39	5,557.13	126.26	45.013	
3,400.00	3,398.79	3,348.79	3,398.79	15.00	115.21	-65.58	-3,098.30	-4,804.04	5,682.17	5,551.99	130.18	43.649	
3,500.00	3,498.75	3,448.75	3,498.75	15.43	118.70	-65.60	-3,098.30	-4,804.04	5,680.94	5,546.84	134.09	42.365	
3,600.00	3,598.70	3,548.70	3,598.70	15.86	122.18	-65.63	-3,098.30	-4,804.04	5,679.71	5,541.70	138.01	41.154	
3,700.00	3,698.66	3,648.66	3,698.66	16.29	125.67	-65.66	-3,098.30	-4,804.04	5,678.49	5,536.56	141.93	40.009	
3,800.00	3,798.62	3,748.62	3,798.62	16.72	129.16	-65.68	-3,098.30	-4,804.04	5,677.27	5,531.42	145.85	38.926	
3,900.00	3,898.57	3,848.57	3,898.57	17.15	132.65	-65.71	-3,098.30	-4,804.04	5,676.05	5,526.28	149.77	37.900	
4,000.00	3,998.53	3,948.53	3,998.53	17.59	136.14	-65.74	-3,098.30	-4,804.04	5,674.83	5,521.14	153.68	36.925	
4,100.00	4,098.48	4,048.48	4,098.48	18.02	139.63	-65.77	-3,098.30	-4,804.04	5,673.61	5,516.00	157.60	35.999	
4,200.00	4,198.44	4,148.44	4,198.44	18.45	143.11	-65.79	-3,098.30	-4,804.04	5,672.39	5,510.86	161.52	35.118	
4,300.00	4,298.40	4,248.40	4,298.40	18.88	146.60	-65.82	-3,098.30	-4,804.04	5,671.17	5,505.73	165.44	34.278	
4,400.00	4,398.35	4,348.35	4,398.35	19.32	150.09	-65.85	-3,098.30	-4,804.04	5,669.96	5,500.59	169.37	33.478	
4,500.00	4,498.31	4,448.31	4,498.31	19.75	153.58	-65.88	-3,098.30	-4,804.04	5,668.74	5,495.46	173.29	32.713	
4,600.00	4,598.26	4,548.26	4,598.26	20.19	157.07	-65.90	-3,098.30	-4,804.04	5,667.53	5,490.32	177.21	31.982	
4,700.00	4,698.22	4,648.22	4,698.22	20.62	160.56	-65.93	-3,098.30	-4,804.04	5,666.32	5,485.19	181.13	31.283	
4,800.00	4,798.18	4,748.18	4,798.18	21.05	164.05	-65.96	-3,098.30	-4,804.04	5,665.11	5,480.06	185.05	30.614	
4,900.00	4,898.13	4,848.13	4,898.13	21.49	167.54	-65.99	-3,098.30	-4,804.04	5,663.90	5,474.93	188.97	29.972	
5,000.00	4,998.09	4,948.09	4,998.09	21.92	171.02	-66.01	-3,098.30	-4,804.04	5,662.69	5,469.80	192.90	29.356	
5,100.00	5,098.04	5,048.04	5,098.04	22.36	174.51	-66.04	-3,098.30	-4,804.04	5,661.49	5,464.67	196.82	28.765	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,148.00	5,198.00	22.79	178.00	-66.07	-3,098.30	-4,804.04	5,660.28	5,459.54	200.74	28.197		
5,300.00	5,297.96	5,247.96	5,297.96	23.23	181.49	-66.10	-3,098.30	-4,804.04	5,659.08	5,454.41	204.67	27.650		
5,400.00	5,397.91	5,347.91	5,397.91	23.67	184.98	-66.12	-3,098.30	-4,804.04	5,657.88	5,449.29	208.59	27.125		
5,500.00	5,497.87	5,447.87	5,497.87	24.10	188.47	-66.15	-3,098.30	-4,804.04	5,656.68	5,444.17	212.51	26.618		
5,600.00	5,597.82	5,547.82	5,597.82	24.54	191.96	-66.18	-3,098.30	-4,804.04	5,655.48	5,439.04	216.44	26.130		
5,700.00	5,697.78	5,647.78	5,697.78	24.97	195.45	-66.20	-3,098.30	-4,804.04	5,654.28	5,433.92	220.36	25.659		
5,800.00	5,797.74	5,747.74	5,797.74	25.41	198.94	-66.23	-3,098.30	-4,804.04	5,653.08	5,428.80	224.28	25.205		
5,900.00	5,897.69	5,847.69	5,897.69	25.85	202.42	-66.26	-3,098.30	-4,804.04	5,651.89	5,423.68	228.21	24.766		
6,000.00	5,997.65	5,947.65	5,997.65	26.28	205.91	-66.29	-3,098.30	-4,804.04	5,650.69	5,418.56	232.13	24.343		
6,100.00	6,097.60	6,047.60	6,097.60	26.72	209.40	-66.32	-3,098.30	-4,804.04	5,649.50	5,413.44	236.06	23.933		
6,200.00	6,197.56	6,147.56	6,197.56	27.16	212.89	-66.34	-3,098.30	-4,804.04	5,648.31	5,408.33	239.98	23.536		
6,300.00	6,297.52	6,247.52	6,297.52	27.59	216.38	-66.37	-3,098.30	-4,804.04	5,647.12	5,403.21	243.91	23.153		
6,400.00	6,397.47	6,347.47	6,397.47	28.03	219.87	-66.40	-3,098.30	-4,804.04	5,645.93	5,398.10	247.83	22.781		
6,500.00	6,497.43	6,447.43	6,497.43	28.47	223.36	-66.43	-3,098.30	-4,804.04	5,644.74	5,392.99	251.76	22.421		
6,600.00	6,597.38	6,547.38	6,597.38	28.90	226.85	-66.45	-3,098.30	-4,804.04	5,643.55	5,387.87	255.68	22.073		
6,700.00	6,697.08	6,647.08	6,697.08	29.34	230.33	-40.87	-3,098.30	-4,804.04	5,639.00	5,379.41	259.60	21.722		
6,800.00	6,794.63	6,744.63	6,794.63	29.79	233.73	-38.42	-3,098.30	-4,804.04	5,622.10	5,358.66	263.44	21.341		
6,900.00	6,887.62	6,837.62	6,887.62	30.24	236.98	-39.23	-3,098.30	-4,804.04	5,592.81	5,325.71	267.10	20.939		
7,000.00	6,973.77	6,923.77	6,973.77	30.70	239.99	-41.57	-3,098.30	-4,804.04	5,551.95	5,281.44	270.51	20.524		
7,100.00	7,050.94	7,000.94	7,050.94	31.20	242.68	-45.31	-3,098.30	-4,804.04	5,500.64	5,227.06	273.58	20.106		
7,200.00	7,117.24	7,067.24	7,117.24	31.77	244.99	-50.58	-3,098.30	-4,804.04	5,440.30	5,164.03	276.27	19.692		
7,300.00	7,171.03	7,121.03	7,171.03	32.46	246.87	-57.62	-3,098.30	-4,804.04	5,372.56	5,094.03	278.53	19.289		
7,400.00	7,211.00	7,161.00	7,211.00	33.29	248.27	-66.55	-3,098.30	-4,804.04	5,299.25	5,018.90	280.34	18.903		
7,500.00	7,236.16	7,186.16	7,236.16	34.29	249.15	-77.14	-3,098.30	-4,804.04	5,222.29	4,940.60	281.69	18.539		
7,600.00	7,245.89	7,204.12	7,245.89	35.43	249.77	-88.61	-3,098.30	-4,804.04	5,143.67	4,860.83	282.85	18.185		
7,700.00	7,245.73	7,204.27	7,245.73	36.72	249.78	-90.22	-3,098.30	-4,804.04	5,065.25	4,781.78	283.47	17.869		
7,800.00	7,245.42	7,204.58	7,245.42	38.18	249.79	-90.22	-3,098.30	-4,804.04	4,987.59	4,703.37	284.21	17.549		
7,900.00	7,245.10	7,204.90	7,245.10	39.80	249.80	-90.21	-3,098.30	-4,804.04	4,910.74	4,625.65	285.08	17.226		
8,000.00	7,244.79	7,205.21	7,244.79	41.54	249.81	-90.21	-3,098.30	-4,804.04	4,834.73	4,548.66	286.08	16.900		
8,100.00	7,244.48	7,205.52	7,244.48	43.41	249.82	-90.20	-3,098.30	-4,804.04	4,759.62	4,472.42	287.20	16.572		
8,200.00	7,244.17	7,205.83	7,244.17	45.38	249.83	-90.19	-3,098.30	-4,804.04	4,685.43	4,396.98	288.45	16.243		
8,300.00	7,243.86	7,206.14	7,243.86	47.44	249.84	-90.19	-3,098.30	-4,804.04	4,612.22	4,322.39	289.83	15.914		
8,400.00	7,243.55	7,206.46	7,243.55	49.58	249.85	-90.18	-3,098.30	-4,804.04	4,540.03	4,248.70	291.33	15.584		
8,500.00	7,243.23	7,206.77	7,243.23	51.78	249.86	-90.18	-3,098.30	-4,804.04	4,468.91	4,175.95	292.96	15.254		
8,600.00	7,242.92	7,207.08	7,242.92	54.05	249.88	-90.17	-3,098.30	-4,804.04	4,398.92	4,104.20	294.72	14.926		
8,700.00	7,242.61	7,207.39	7,242.61	56.37	249.89	-90.17	-3,098.30	-4,804.04	4,330.10	4,033.51	296.59	14.599		
8,800.00	7,242.30	7,207.70	7,242.30	58.74	249.90	-90.16	-3,098.30	-4,804.04	4,262.52	3,963.93	298.59	14.275		
8,900.00	7,241.99	7,208.01	7,241.99	61.16	249.91	-90.16	-3,098.30	-4,804.04	4,196.24	3,895.53	300.71	13.955		
9,000.00	7,241.67	7,208.33	7,241.67	63.61	249.92	-90.15	-3,098.30	-4,804.04	4,131.31	3,828.37	302.94	13.637		
9,100.00	7,241.36	7,208.64	7,241.36	66.09	249.93	-90.14	-3,098.30	-4,804.04	4,067.80	3,762.52	305.28	13.325		
9,200.00	7,241.05	7,208.95	7,241.05	68.60	249.94	-90.14	-3,098.30	-4,804.04	4,005.79	3,698.05	307.74	13.017		
9,300.00	7,240.74	7,209.26	7,240.74	71.13	249.95	-90.13	-3,098.30	-4,804.04	3,945.33	3,635.03	310.30	12.715		
9,400.00	7,240.43	7,209.57	7,240.43	73.70	249.96	-90.13	-3,098.30	-4,804.04	3,886.51	3,573.55	312.96	12.418		
9,500.00	7,240.11	7,209.89	7,240.11	76.28	249.97	-90.12	-3,098.30	-4,804.04	3,829.39	3,513.67	315.73	12.129		
9,600.00	7,239.80	7,189.80	7,239.80	78.88	249.27	-90.12	-3,098.30	-4,804.04	3,774.06	3,456.19	317.87	11.873		
9,700.00	7,239.49	7,189.49	7,239.49	81.50	249.26	-90.11	-3,098.30	-4,804.04	3,720.60	3,399.81	320.79	11.598		
9,800.00	7,239.18	7,189.18	7,239.18	84.13	249.25	-90.10	-3,098.30	-4,804.04	3,669.08	3,345.28	323.80	11.331		
9,900.00	7,238.87	7,188.87	7,238.87	86.78	249.24	-90.10	-3,098.30	-4,804.04	3,619.60	3,292.71	326.89	11.073		
10,000.00	7,238.55	7,188.55	7,238.55	89.44	249.23	-90.09	-3,098.30	-4,804.04	3,572.22	3,242.18	330.05	10.823		
10,100.00	7,238.24	7,188.24	7,238.24	92.11	249.22	-90.09	-3,098.30	-4,804.04	3,527.05	3,193.78	333.27	10.583		
10,200.00	7,237.93	7,187.93	7,237.93	94.80	249.21	-90.08	-3,098.30	-4,804.04	3,484.16	3,147.62	336.54	10.353		
10,300.00	7,237.62	7,187.62	7,237.62	97.49	249.20	-90.08	-3,098.30	-4,804.04	3,443.65	3,103.78	339.87	10.132		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,187.31	7,237.31	100.19	249.19	-90.07	-3,098.30	-4,804.04	3,405.58	3,062.36	343.23	9.922		
10,500.00	7,236.99	7,186.99	7,236.99	102.90	249.17	-90.07	-3,098.30	-4,804.04	3,370.06	3,023.45	346.61	9.723		
10,600.00	7,236.68	7,186.68	7,236.68	105.62	249.16	-90.06	-3,098.30	-4,804.04	3,337.16	2,987.14	350.02	9.534		
10,700.00	7,236.37	7,186.37	7,236.37	108.35	249.15	-90.05	-3,098.30	-4,804.04	3,306.95	2,953.53	353.42	9.357		
10,800.00	7,236.06	7,186.06	7,236.06	111.08	249.14	-90.05	-3,098.30	-4,804.04	3,279.51	2,922.69	356.82	9.191		
10,900.00	7,235.75	7,185.75	7,235.75	113.82	249.13	-90.04	-3,098.30	-4,804.04	3,254.92	2,894.72	360.20	9.036		
11,000.00	7,235.44	7,185.44	7,235.44	116.56	249.12	-90.04	-3,098.30	-4,804.04	3,233.24	2,869.70	363.54	8.894		
11,100.00	7,235.12	7,185.12	7,235.12	119.31	249.11	-90.03	-3,098.30	-4,804.04	3,214.52	2,847.68	366.84	8.763		
11,200.00	7,234.81	7,184.81	7,234.81	122.07	249.10	-90.03	-3,098.30	-4,804.04	3,198.82	2,828.74	370.08	8.644		
11,300.00	7,234.50	7,184.50	7,234.50	124.83	249.09	-90.02	-3,098.30	-4,804.04	3,186.18	2,812.94	373.24	8.537		
11,400.00	7,234.19	7,184.19	7,234.19	127.59	249.08	-90.01	-3,098.30	-4,804.04	3,176.64	2,800.32	376.32	8.441		
11,500.00	7,233.88	7,183.88	7,233.88	130.36	249.07	-90.01	-3,098.30	-4,804.04	3,170.23	2,790.93	379.30	8.358		
11,600.00	7,233.56	7,183.56	7,233.56	133.13	249.05	-90.00	-3,098.30	-4,804.04	3,166.96	2,784.79	382.17	8.287		
11,653.49	7,233.40	7,183.40	7,233.40	134.62	249.05	-90.00	-3,098.30	-4,804.04	3,166.51	2,782.84	383.66	8.253 CC		
11,700.00	7,233.25	7,183.25	7,233.25	135.91	249.04	-90.00	-3,098.30	-4,804.04	3,166.85	2,781.92	384.93	8.227 ES		
11,800.00	7,232.94	7,182.94	7,232.94	138.68	249.03	-89.99	-3,098.30	-4,804.04	3,169.90	2,782.34	387.56	8.179		
11,900.00	7,232.63	7,182.63	7,232.63	141.47	249.02	-89.99	-3,098.30	-4,804.04	3,176.09	2,786.04	390.05	8.143		
12,000.00	7,232.32	7,182.32	7,232.32	144.25	249.01	-89.98	-3,098.30	-4,804.04	3,185.41	2,793.00	392.41	8.118		
12,100.00	7,232.00	7,182.00	7,232.00	147.04	249.00	-89.97	-3,098.30	-4,804.04	3,197.83	2,803.22	394.62	8.104		
12,200.00	7,231.69	7,181.69	7,231.69	149.83	248.99	-89.97	-3,098.30	-4,804.04	3,213.32	2,816.65	396.68	8.101 SF		
12,300.00	7,231.38	7,181.38	7,231.38	152.62	248.98	-89.96	-3,098.30	-4,804.04	3,231.83	2,833.25	398.58	8.108		
12,400.00	7,231.07	7,181.07	7,231.07	155.42	248.97	-89.96	-3,098.30	-4,804.04	3,253.31	2,852.98	400.34	8.126		
12,500.00	7,230.76	7,180.76	7,230.76	158.22	248.96	-89.95	-3,098.30	-4,804.04	3,277.70	2,875.76	401.94	8.155		
12,600.00	7,230.44	7,180.44	7,230.44	161.01	248.95	-89.95	-3,098.30	-4,804.04	3,304.94	2,901.55	403.40	8.193		
12,700.00	7,230.13	7,180.13	7,230.13	163.82	248.94	-89.94	-3,098.30	-4,804.04	3,334.96	2,930.26	404.70	8.241		
12,800.00	7,229.82	7,179.82	7,229.82	166.62	248.92	-89.94	-3,098.30	-4,804.04	3,367.68	2,961.81	405.87	8.297		
12,900.00	7,229.51	7,179.51	7,229.51	169.43	248.91	-89.93	-3,098.30	-4,804.04	3,403.02	2,996.13	406.89	8.363		
13,000.00	7,229.20	7,179.20	7,229.20	172.23	248.90	-89.92	-3,098.30	-4,804.04	3,440.91	3,033.12	407.79	8.438		
13,100.00	7,228.88	7,178.88	7,228.88	175.04	248.89	-89.92	-3,098.30	-4,804.04	3,481.26	3,072.70	408.55	8.521		
13,200.00	7,228.57	7,178.57	7,228.57	177.85	248.88	-89.91	-3,098.30	-4,804.04	3,523.98	3,114.78	409.20	8.612		
13,300.00	7,228.26	7,178.26	7,228.26	180.66	248.87	-89.91	-3,098.30	-4,804.04	3,569.00	3,159.27	409.73	8.711		
13,400.00	7,227.95	7,177.95	7,227.95	183.48	248.86	-89.90	-3,098.30	-4,804.04	3,616.22	3,206.07	410.15	8.817		
13,500.00	7,227.64	7,177.64	7,227.64	186.29	248.85	-89.90	-3,098.30	-4,804.04	3,665.56	3,255.08	410.48	8.930		
13,600.00	7,227.33	7,177.33	7,227.33	189.11	248.84	-89.89	-3,098.30	-4,804.04	3,716.94	3,306.23	410.71	9.050		
13,700.00	7,227.01	7,177.01	7,227.01	191.92	248.83	-89.88	-3,098.30	-4,804.04	3,770.27	3,359.42	410.85	9.177		
13,800.00	7,226.70	7,176.70	7,226.70	194.74	248.82	-89.88	-3,098.30	-4,804.04	3,825.47	3,414.55	410.92	9.310		
13,900.00	7,226.39	7,176.39	7,226.39	197.56	248.80	-89.87	-3,098.30	-4,804.04	3,882.46	3,471.55	410.91	9.448		
14,000.00	7,226.08	7,176.08	7,226.08	200.38	248.79	-89.87	-3,098.30	-4,804.04	3,941.17	3,530.33	410.84	9.593		
14,100.00	7,225.77	7,175.77	7,225.77	203.21	248.78	-89.86	-3,098.30	-4,804.04	4,001.52	3,590.81	410.70	9.743		
14,200.00	7,225.45	7,175.45	7,225.45	206.03	248.77	-89.86	-3,098.30	-4,804.04	4,063.43	3,652.91	410.51	9.898		
14,300.00	7,225.14	7,175.14	7,225.14	208.85	248.76	-89.85	-3,098.30	-4,804.04	4,126.83	3,716.56	410.27	10.059		
14,400.00	7,224.83	7,174.83	7,224.83	211.68	248.75	-89.84	-3,098.30	-4,804.04	4,191.66	3,781.67	409.99	10.224		
14,500.00	7,224.52	7,174.52	7,224.52	214.50	248.74	-89.84	-3,098.30	-4,804.04	4,257.85	3,848.19	409.67	10.393		
14,600.00	7,224.21	7,174.21	7,224.21	217.33	248.73	-89.83	-3,098.30	-4,804.04	4,325.35	3,916.04	409.31	10.567		
14,700.00	7,223.89	7,173.89	7,223.89	220.16	248.72	-89.83	-3,098.30	-4,804.04	4,394.08	3,985.16	408.92	10.746		
14,800.00	7,223.58	7,173.58	7,223.58	222.98	248.71	-89.82	-3,098.30	-4,804.04	4,463.99	4,055.49	408.50	10.928		
14,900.00	7,223.27	7,173.27	7,223.27	225.81	248.70	-89.82	-3,098.30	-4,804.04	4,535.03	4,126.98	408.05	11.114		
14,987.41	7,223.00	7,173.00	7,223.00	228.28	248.69	-89.81	-3,098.30	-4,804.04	4,598.01	4,190.36	407.65	11.279		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	
0.00	0.00	25.00	68.00	3.28	3.28	-142.56	-4,269.42	-3,268.68	5,377.44				
100.00	100.00	916.03	953.62	3.28	5.21	-142.76	-4,219.57	-3,207.85	5,368.77	5,360.25	8.51	630.513	
200.00	200.00	1,014.68	1,050.95	3.34	5.63	-142.80	-4,209.35	-3,195.38	5,352.87	5,343.96	8.91	600.983	
300.00	300.00	1,113.34	1,148.28	3.44	6.07	-142.84	-4,199.14	-3,182.92	5,336.98	5,327.61	9.37	569.754	
400.00	400.00	1,212.00	1,245.61	3.60	6.52	-142.88	-4,188.92	-3,170.46	5,321.08	5,311.19	9.89	538.081	
500.00	500.00	1,310.65	1,342.94	3.81	6.99	-142.92	-4,178.71	-3,157.99	5,305.19	5,294.73	10.46	506.957	
600.00	600.00	1,409.31	1,440.28	4.05	7.47	-142.96	-4,168.49	-3,145.53	5,289.30	5,278.22	11.09	477.078	
700.00	699.98	1,507.86	1,537.50	4.32	7.95	-85.30	-4,158.29	-3,133.08	5,273.28	5,261.53	11.75	448.977	
800.00	799.94	1,606.32	1,634.64	4.61	8.45	-85.37	-4,148.09	-3,120.64	5,257.15	5,244.72	12.43	422.832	
900.00	899.89	1,704.78	1,731.77	4.92	8.94	-85.45	-4,137.90	-3,108.20	5,241.03	5,227.88	13.15	398.576	
1,000.00	999.85	1,803.23	1,828.91	5.25	9.44	-85.52	-4,127.71	-3,095.76	5,224.93	5,211.04	13.89	376.191	
1,100.00	1,099.80	1,901.69	1,926.04	5.60	9.95	-85.60	-4,117.51	-3,083.32	5,208.83	5,194.18	14.65	355.593	
1,200.00	1,199.76	2,000.15	2,023.18	5.96	10.46	-85.67	-4,107.32	-3,070.88	5,192.74	5,177.31	15.42	336.665	
1,300.00	1,299.72	2,101.39	2,120.32	6.33	10.99	-85.75	-4,097.12	-3,058.44	5,176.66	5,160.43	16.23	319.036	
1,400.00	1,399.67	2,197.07	2,217.45	6.71	11.49	-85.83	-4,086.93	-3,046.01	5,160.59	5,143.57	17.02	303.293	
1,500.00	1,499.63	2,295.53	2,314.59	7.10	12.01	-85.91	-4,076.74	-3,033.57	5,144.52	5,126.70	17.83	288.585	
1,600.00	1,599.58	2,393.98	2,411.72	7.49	12.52	-85.98	-4,066.54	-3,021.13	5,128.47	5,109.82	18.65	275.031	
1,700.00	1,699.54	2,492.44	2,508.86	7.88	13.05	-86.06	-4,056.35	-3,008.69	5,112.43	5,092.95	19.47	262.518	
1,800.00	1,799.50	2,590.90	2,606.00	8.28	13.57	-86.14	-4,046.15	-2,996.25	5,096.39	5,076.09	20.31	250.945	
1,900.00	1,899.45	2,689.36	2,703.13	8.69	14.09	-86.22	-4,035.96	-2,983.81	5,080.37	5,059.22	21.15	240.222	
2,000.00	1,999.41	2,787.82	2,800.27	9.10	14.62	-86.30	-4,025.77	-2,971.37	5,064.36	5,042.36	21.99	230.265	
2,100.00	2,099.36	2,886.28	2,897.41	9.51	15.14	-86.38	-4,015.57	-2,958.93	5,048.35	5,025.51	22.84	221.003	
2,200.00	2,199.32	2,984.74	2,994.54	9.92	15.67	-86.47	-4,005.38	-2,946.49	5,032.36	5,008.66	23.70	212.370	
2,300.00	2,299.28	3,083.19	3,091.68	10.34	16.20	-86.55	-3,995.18	-2,934.05	5,016.37	4,991.82	24.55	204.308	
2,400.00	2,399.23	3,181.65	3,188.81	10.75	16.73	-86.63	-3,984.99	-2,921.62	5,000.40	4,974.98	25.41	196.765	
2,500.00	2,499.19	3,280.11	3,285.95	11.17	17.26	-86.71	-3,974.80	-2,909.18	4,984.43	4,958.16	26.28	189.697	
2,600.00	2,599.14	3,378.57	3,383.09	11.60	17.79	-86.80	-3,964.60	-2,896.74	4,968.48	4,941.34	27.14	183.060	
2,700.00	2,699.10	3,477.03	3,480.22	12.02	18.32	-86.88	-3,954.41	-2,884.30	4,952.53	4,924.53	28.01	176.819	
2,800.00	2,799.06	3,575.49	3,577.36	12.44	18.85	-86.96	-3,944.21	-2,871.86	4,936.60	4,907.72	28.88	170.941	
2,900.00	2,899.01	3,673.94	3,674.49	12.87	19.39	-87.05	-3,934.02	-2,859.42	4,920.68	4,890.93	29.75	165.396	
3,000.00	2,998.97	3,772.40	3,771.63	13.29	19.92	-87.13	-3,923.83	-2,846.98	4,904.77	4,874.14	30.62	160.158	
3,100.00	3,098.92	3,870.86	3,868.77	13.72	20.45	-87.22	-3,913.63	-2,834.54	4,888.87	4,857.37	31.50	155.202	
3,200.00	3,198.88	3,969.32	3,965.90	14.14	20.99	-87.31	-3,903.44	-2,822.10	4,872.97	4,840.60	32.38	150.508	
3,300.00	3,298.84	4,067.78	4,063.04	14.57	21.52	-87.39	-3,893.24	-2,809.66	4,857.10	4,823.84	33.26	146.055	
3,400.00	3,398.79	4,166.24	4,160.17	15.00	22.05	-87.48	-3,883.05	-2,797.23	4,841.23	4,807.09	34.14	141.825	
3,500.00	3,498.75	4,264.69	4,257.31	15.43	22.59	-87.57	-3,872.86	-2,784.79	4,825.37	4,790.35	35.02	137.804	
3,600.00	3,598.70	4,363.15	4,354.45	15.86	23.12	-87.66	-3,862.66	-2,772.35	4,809.52	4,773.63	35.90	133.976	
3,700.00	3,698.66	4,461.61	4,451.58	16.29	23.66	-87.75	-3,852.47	-2,759.91	4,793.69	4,756.91	36.78	130.328	
3,800.00	3,798.62	4,560.07	4,548.72	16.72	24.19	-87.84	-3,842.27	-2,747.47	4,777.87	4,740.20	37.67	126.848	
3,900.00	3,898.57	4,658.53	4,645.85	17.15	24.73	-87.93	-3,832.08	-2,735.03	4,762.06	4,723.50	38.55	123.524	
4,000.00	3,998.53	4,756.99	4,742.99	17.59	25.27	-88.02	-3,821.89	-2,722.59	4,746.26	4,706.82	39.44	120.347	
4,100.00	4,098.48	4,855.44	4,840.13	18.02	25.80	-88.11	-3,811.69	-2,710.15	4,730.47	4,690.14	40.33	117.308	
4,200.00	4,198.44	4,953.90	4,937.26	18.45	26.34	-88.21	-3,801.50	-2,697.71	4,714.69	4,673.48	41.21	114.397	
4,300.00	4,298.40	5,052.36	5,034.40	18.88	26.88	-88.30	-3,791.30	-2,685.27	4,698.93	4,656.83	42.10	111.607	
4,400.00	4,398.35	5,150.82	5,131.53	19.32	27.41	-88.39	-3,781.11	-2,672.84	4,683.18	4,640.19	42.99	108.931	
4,500.00	4,498.31	5,249.28	5,228.67	19.75	27.95	-88.49	-3,770.91	-2,660.40	4,667.44	4,623.56	43.88	106.362	
4,600.00	4,598.26	5,347.74	5,325.81	20.19	28.49	-88.58	-3,760.72	-2,647.96	4,651.72	4,606.94	44.77	103.893	
4,700.00	4,698.22	5,446.20	5,422.94	20.62	29.02	-88.68	-3,750.53	-2,635.52	4,636.00	4,590.34	45.67	101.519	
4,800.00	4,798.18	5,544.65	5,520.08	21.05	29.56	-88.77	-3,740.33	-2,623.08	4,620.30	4,573.74	46.56	99.236	
4,900.00	4,898.13	5,643.11	5,617.21	21.49	30.10	-88.87	-3,730.14	-2,610.64	4,604.61	4,557.16	47.45	97.037	
5,000.00	4,998.09	5,741.57	5,714.35	21.92	30.64	-88.97	-3,719.94	-2,598.20	4,588.94	4,540.59	48.35	94.918	
5,100.00	5,098.04	5,840.03	5,811.49	22.36	31.17	-89.07	-3,709.75	-2,585.76	4,573.28	4,524.04	49.24	92.875	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,938.49	5,908.62	22.79	31.71	-89.17	-3,699.56	-2,573.32	4,557.63	4,507.49	50.14	90.904		
5,300.00	5,297.96	6,036.95	6,005.76	23.23	32.25	-89.27	-3,689.36	-2,560.88	4,542.00	4,490.96	51.03	89.002		
5,400.00	5,397.91	6,135.40	6,102.89	23.67	32.79	-89.37	-3,679.17	-2,548.45	4,526.37	4,474.44	51.93	87.165		
5,500.00	5,497.87	6,233.86	6,200.03	24.10	33.33	-89.47	-3,668.97	-2,536.01	4,510.77	4,457.94	52.83	85.389		
5,600.00	5,597.82	6,260.38	6,226.19	24.54	33.47	-89.49	-3,666.23	-2,532.66	4,495.75	4,442.30	53.45	84.118		
5,700.00	5,697.78	6,300.00	6,265.41	24.97	33.68	-89.52	-3,662.14	-2,528.88	4,482.19	4,428.09	54.10	82.848		
5,800.00	5,797.74	6,315.27	6,280.58	25.41	33.75	-89.53	-3,660.58	-2,528.08	4,470.47	4,415.82	54.64	81.810		
5,900.00	5,897.69	6,335.57	6,300.77	25.85	33.84	-89.53	-3,658.50	-2,527.58	4,460.52	4,405.33	55.19	80.823		
6,000.00	5,997.65	6,350.00	6,315.12	26.28	33.90	-89.52	-3,657.04	-2,527.62	4,452.36	4,396.67	55.69	79.948		
6,100.00	6,097.60	6,376.29	6,341.26	26.72	33.99	-89.50	-3,654.40	-2,528.53	4,445.94	4,389.72	56.22	79.087		
6,200.00	6,197.56	6,400.00	6,364.79	27.16	34.08	-89.48	-3,652.04	-2,530.28	4,441.33	4,384.62	56.72	78.309		
6,300.00	6,297.52	6,425.01	6,389.52	27.59	34.16	-89.44	-3,649.58	-2,533.08	4,438.54	4,381.34	57.20	77.601		
6,400.00	6,397.47	6,436.98	6,401.31	28.03	34.19	-89.42	-3,648.41	-2,534.77	4,437.48	4,379.88	57.61	77.033		
6,406.47	6,403.94	6,438.28	6,402.59	28.06	34.19	-89.41	-3,648.29	-2,534.96	4,437.48	4,379.85	57.63	76.996		
6,500.00	6,497.43	6,450.00	6,414.10	28.47	34.23	-89.39	-3,647.15	-2,536.85	4,438.30	4,380.30	58.00	76.528		
6,600.00	6,597.38	6,476.73	6,440.21	28.90	34.29	-89.33	-3,644.61	-2,541.96	4,440.87	4,382.45	58.42	76.017		
6,700.00	6,697.08	6,500.00	6,462.76	29.34	34.34	-63.34	-3,642.43	-2,547.29	4,443.06	4,384.25	58.81	75.545		
6,800.00	6,794.63	6,525.01	6,486.76	29.79	34.39	-60.18	-3,640.13	-2,553.94	4,438.83	4,379.62	59.21	74.970		
6,900.00	6,887.62	6,536.14	6,497.34	30.24	34.41	-59.98	-3,639.13	-2,557.21	4,427.81	4,368.27	59.54	74.370		
7,000.00	6,973.77	6,550.00	6,510.46	30.70	34.44	-60.87	-3,637.89	-2,561.53	4,410.37	4,350.48	59.88	73.648		
7,100.00	7,050.94	6,574.75	6,533.63	31.20	34.47	-62.56	-3,635.72	-2,569.96	4,386.80	4,326.49	60.31	72.738		
7,200.00	7,117.24	6,600.00	6,556.91	31.77	34.51	-64.95	-3,633.56	-2,579.49	4,357.74	4,296.93	60.81	71.667		
7,300.00	7,171.03	6,610.26	6,566.26	32.46	34.52	-67.87	-3,632.70	-2,583.62	4,323.76	4,262.41	61.35	70.482		
7,400.00	7,211.00	6,625.01	6,579.58	33.29	34.53	-71.37	-3,631.48	-2,589.83	4,285.76	4,223.70	62.06	69.058		
7,500.00	7,236.16	6,640.37	6,593.30	34.29	34.55	-75.35	-3,630.24	-2,596.62	4,244.65	4,181.69	62.96	67.417		
7,600.00	7,245.89	6,650.00	6,601.82	35.43	34.55	-79.64	-3,629.47	-2,601.04	4,201.48	4,137.46	64.02	65.623		
7,700.00	7,245.73	6,650.00	6,601.82	36.72	34.55	-80.25	-3,629.47	-2,601.04	4,158.29	4,093.05	65.23	63.747		
7,800.00	7,245.42	6,675.23	6,623.81	38.18	34.57	-80.57	-3,627.51	-2,613.25	4,116.72	4,050.00	66.73	61.696		
7,900.00	7,245.10	6,700.00	6,644.92	39.80	34.58	-80.89	-3,625.64	-2,626.07	4,077.21	4,008.82	68.39	59.619		
8,000.00	7,244.79	6,700.00	6,644.92	41.54	34.58	-80.89	-3,625.64	-2,626.07	4,039.47	3,969.34	70.13	57.602		
8,100.00	7,244.48	6,715.38	6,657.77	43.41	34.59	-81.08	-3,624.52	-2,634.45	4,003.77	3,931.70	72.07	55.554		
8,200.00	7,244.17	6,725.01	6,665.72	45.38	34.59	-81.20	-3,623.84	-2,639.85	3,970.07	3,895.94	74.13	53.554		
8,300.00	7,243.86	6,750.00	6,685.94	47.44	34.59	-81.50	-3,622.11	-2,654.42	3,938.37	3,862.00	76.36	51.574		
8,400.00	7,243.55	6,750.00	6,685.94	49.58	34.59	-81.50	-3,622.11	-2,654.42	3,908.81	3,830.18	78.63	49.710		
8,500.00	7,243.23	6,784.08	6,712.58	51.78	34.59	-81.90	-3,619.87	-2,675.55	3,881.13	3,800.03	81.09	47.859		
8,600.00	7,242.92	6,800.00	6,724.63	54.05	34.59	-82.08	-3,618.88	-2,685.91	3,855.61	3,772.02	83.59	46.126		
8,700.00	7,242.61	6,825.01	6,743.03	56.37	34.59	-82.35	-3,617.39	-2,702.78	3,832.15	3,745.97	86.18	44.467		
8,800.00	7,242.30	6,850.00	6,760.75	58.74	34.59	-82.62	-3,615.98	-2,720.34	3,810.76	3,721.93	88.83	42.898		
8,900.00	7,241.99	6,876.80	6,778.97	61.16	34.58	-82.90	-3,614.57	-2,739.94	3,791.42	3,699.87	91.55	41.414		
9,000.00	7,241.67	6,900.00	6,794.07	63.61	34.58	-83.13	-3,613.43	-2,757.51	3,774.11	3,679.81	94.29	40.025		
9,100.00	7,241.36	6,934.88	6,815.55	66.09	34.57	-83.45	-3,611.87	-2,784.94	3,758.76	3,661.65	97.11	38.706		
9,200.00	7,241.05	6,967.30	6,834.16	68.60	34.58	-83.74	-3,610.57	-2,811.46	3,745.36	3,645.40	99.96	37.468		
9,300.00	7,240.74	7,000.00	6,851.54	71.13	34.58	-84.00	-3,609.43	-2,839.13	3,733.85	3,631.02	102.83	36.310		
9,400.00	7,240.43	7,039.30	6,870.53	73.70	34.61	-84.29	-3,608.28	-2,873.52	3,724.15	3,618.39	105.77	35.211		
9,500.00	7,240.11	7,078.90	6,887.49	76.28	34.65	-84.55	-3,607.37	-2,909.28	3,716.21	3,607.47	108.73	34.177		
9,600.00	7,239.80	7,125.01	6,904.41	78.88	34.74	-84.82	-3,606.62	-2,952.16	3,709.94	3,598.18	111.76	33.196		
9,700.00	7,239.49	7,164.80	6,916.50	81.50	34.86	-85.00	-3,606.25	-2,990.06	3,705.26	3,590.47	114.79	32.279		
9,800.00	7,239.18	7,210.63	6,927.47	84.13	35.05	-85.17	-3,606.15	-3,034.54	3,702.11	3,584.23	117.88	31.405		
9,900.00	7,238.87	7,250.00	6,934.34	86.78	35.27	-85.28	-3,606.33	-3,073.30	3,700.46	3,579.51	120.95	30.596		
9,965.57	7,238.66	7,289.45	6,938.81	88.52	35.56	-85.35	-3,606.77	-3,112.48	3,700.11	3,577.01	123.10	30.057 CC		
10,000.00	7,238.55	7,306.13	6,939.98	89.44	35.69	-85.37	-3,607.03	-3,129.12	3,700.18	3,575.99	124.20	29.793		
10,100.00	7,238.24	7,364.92	6,940.93	92.11	36.25	-85.39	-3,608.27	-3,187.88	3,701.30	3,573.78	127.52	29.025		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,200.00	7,237.93	7,464.91	6,940.51	94.80	37.47	-85.39	-3,610.60	-3,287.84	3,702.86	3,571.36	131.50	28.158		
10,300.00	7,237.62	7,564.90	6,940.09	97.49	39.00	-85.39	-3,612.92	-3,387.80	3,704.42	3,568.70	135.72	27.294		
10,400.00	7,237.31	7,664.89	6,939.67	100.19	40.76	-85.39	-3,615.25	-3,487.76	3,705.98	3,565.81	140.17	26.439		
10,500.00	7,236.99	7,764.87	6,939.26	102.90	42.72	-85.39	-3,617.57	-3,587.72	3,707.54	3,562.73	144.81	25.602		
10,600.00	7,236.68	7,864.86	6,938.84	105.62	44.85	-85.39	-3,619.90	-3,687.68	3,709.11	3,559.48	149.63	24.789		
10,700.00	7,236.37	7,964.85	6,938.42	108.35	47.12	-85.39	-3,622.22	-3,787.64	3,710.67	3,556.08	154.59	24.003		
10,800.00	7,236.06	8,064.84	6,938.01	111.08	49.50	-85.39	-3,624.55	-3,887.60	3,712.23	3,552.55	159.68	23.248		
10,900.00	7,235.75	8,164.83	6,937.59	113.82	51.99	-85.39	-3,626.87	-3,987.56	3,713.79	3,548.91	164.88	22.524		
11,000.00	7,235.44	8,264.81	6,937.17	116.56	54.57	-85.39	-3,629.20	-4,087.52	3,715.35	3,545.17	170.18	21.832		
11,100.00	7,235.12	8,364.80	6,936.75	119.31	57.22	-85.39	-3,631.52	-4,187.48	3,716.91	3,541.35	175.56	21.171		
11,200.00	7,234.81	8,464.79	6,936.34	122.07	59.94	-85.39	-3,633.85	-4,287.44	3,718.47	3,537.46	181.02	20.542		
11,300.00	7,234.50	8,564.78	6,935.92	124.83	62.72	-85.39	-3,636.17	-4,387.40	3,720.03	3,533.50	186.54	19.943		
11,400.00	7,234.19	8,664.76	6,935.50	127.59	65.55	-85.39	-3,638.50	-4,487.36	3,721.60	3,529.49	192.11	19.372		
11,500.00	7,233.88	8,764.75	6,935.09	130.36	68.42	-85.39	-3,640.82	-4,587.32	3,723.16	3,525.42	197.73	18.829		
11,600.00	7,233.56	8,864.74	6,934.67	133.13	71.33	-85.39	-3,643.15	-4,687.28	3,724.72	3,521.32	203.40	18.312		
11,700.00	7,233.25	8,964.73	6,934.25	135.91	74.28	-85.39	-3,645.47	-4,787.24	3,726.28	3,517.17	209.10	17.820		
11,800.00	7,232.94	9,064.72	6,933.84	138.68	77.25	-85.39	-3,647.80	-4,887.20	3,727.84	3,513.00	214.84	17.351		
11,900.00	7,232.63	9,164.70	6,933.42	141.47	80.26	-85.39	-3,650.12	-4,987.16	3,729.40	3,508.79	220.61	16.905		
12,000.00	7,232.32	9,264.69	6,933.00	144.25	83.28	-85.40	-3,652.45	-5,087.12	3,730.96	3,504.55	226.41	16.479		
12,100.00	7,232.00	9,364.68	6,932.58	147.04	86.33	-85.40	-3,654.77	-5,187.08	3,732.52	3,500.29	232.23	16.072		
12,200.00	7,231.69	9,464.67	6,932.17	149.83	89.40	-85.40	-3,657.10	-5,287.04	3,734.09	3,496.01	238.08	15.684		
12,300.00	7,231.38	9,564.65	6,931.75	152.62	92.49	-85.40	-3,659.42	-5,387.00	3,735.65	3,491.70	243.94	15.314		
12,400.00	7,231.07	9,664.64	6,931.33	155.42	95.59	-85.40	-3,661.75	-5,486.96	3,737.21	3,487.38	249.83	14.959		
12,500.00	7,230.76	9,764.63	6,930.92	158.22	98.71	-85.40	-3,664.07	-5,586.92	3,738.77	3,483.04	255.72	14.620		
12,600.00	7,230.44	9,864.62	6,930.50	161.01	101.84	-85.40	-3,666.40	-5,686.88	3,740.33	3,478.69	261.64	14.296		
12,700.00	7,230.13	9,964.61	6,930.08	163.82	104.98	-85.40	-3,668.72	-5,786.84	3,741.89	3,474.32	267.57	13.985		
12,800.00	7,229.82	10,064.59	6,929.66	166.62	108.13	-85.40	-3,671.05	-5,886.80	3,743.45	3,469.94	273.51	13.687		
12,900.00	7,229.51	10,164.58	6,929.25	169.43	111.30	-85.40	-3,673.37	-5,986.76	3,745.01	3,465.55	279.46	13.401		
13,000.00	7,229.20	10,264.57	6,928.83	172.23	114.47	-85.40	-3,675.70	-6,086.72	3,746.58	3,461.15	285.43	13.126		
13,100.00	7,228.88	10,364.56	6,928.41	175.04	117.65	-85.40	-3,678.02	-6,186.68	3,748.14	3,456.74	291.40	12.862		
13,200.00	7,228.57	10,464.55	6,928.00	177.85	120.84	-85.40	-3,680.35	-6,286.64	3,749.70	3,452.31	297.38	12.609		
13,300.00	7,228.26	10,564.54	6,927.58	180.66	124.03	-85.40	-3,682.67	-6,386.60	3,751.26	3,447.88	303.36	12.366		
13,400.00	7,227.95	10,664.53	6,927.16	183.48	127.22	-85.40	-3,684.99	-6,486.56	3,752.82	3,443.45	309.34	12.133		
13,500.00	7,227.64	10,764.52	6,926.75	186.29	130.41	-85.40	-3,687.31	-6,586.52	3,754.38	3,439.02	315.32	11.900		
13,600.00	7,227.33	10,864.51	6,926.33	189.11	133.59	-85.40	-3,689.63	-6,686.48	3,755.94	3,434.59	321.30	11.667		
13,700.00	7,227.01	10,964.50	6,925.92	191.92	136.77	-85.40	-3,691.95	-6,786.44	3,757.50	3,430.16	327.28	11.434		
13,800.00	7,226.70	11,064.49	6,925.50	194.74	139.95	-85.40	-3,694.27	-6,886.40	3,759.06	3,425.73	333.26	11.201		
13,900.00	7,226.39	11,164.48	6,925.09	197.56	143.13	-85.40	-3,696.59	-6,986.36	3,760.62	3,421.30	339.24	10.968		
14,000.00	7,226.08	11,264.47	6,924.67	200.38	146.31	-85.40	-3,698.91	-7,086.32	3,762.18	3,416.87	345.22	10.735		
14,100.00	7,225.77	11,364.46	6,924.26	203.19	149.49	-85.40	-3,701.23	-7,186.28	3,763.74	3,412.44	351.20	10.502		
14,200.00	7,225.46	11,464.45	6,923.84	206.00	152.67	-85.40	-3,703.55	-7,286.24	3,765.30	3,408.01	357.18	10.269		
14,300.00	7,225.15	11,564.44	6,923.43	208.81	155.85	-85.40	-3,705.87	-7,386.20	3,766.86	3,403.58	363.16	10.036		
14,400.00	7,224.84	11,664.43	6,923.01	211.62	159.03	-85.40	-3,708.19	-7,486.16	3,768.42	3,399.15	369.14	9.803		
14,500.00	7,224.53	11,764.42	6,922.60	214.43	162.21	-85.40	-3,710.51	-7,586.12	3,769.98	3,394.72	375.12	9.570		
14,600.00	7,224.22	11,864.41	6,922.18	217.24	165.39	-85.40	-3,712.83	-7,686.08	3,771.54	3,390.29	381.10	9.337		
14,700.00	7,223.91	11,964.40	6,921.77	220.05	168.57	-85.40	-3,715.15	-7,786.04	3,773.10	3,385.86	387.08	9.104		
14,800.00	7,223.60	12,064.39	6,921.35	222.86	171.75	-85.40	-3,717.47	-7,886.00	3,774.66	3,381.43	393.06	8.871		
14,900.00	7,223.29	12,164.38	6,920.94	225.67	174.93	-85.40	-3,719.79	-7,986.00	3,776.22	3,377.00	399.04	8.638		
14,987.41	7,223.00	12,345.91	6,920.14	228.28	181.27	-85.47	-3,779.44	-8,161.40	3,833.94	3,425.84	408.10	9.395 ES, SF		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	25.00	68.00	3.28	0.00	-142.69	-4,289.46	-3,268.69	5,393.36					
100.00	100.00	57.00	100.00	3.28	0.07	-142.69	-4,289.46	-3,268.69	5,392.94	5,389.58	3.36	1,607.415		
200.00	200.00	896.04	935.63	3.34	3.81	-142.91	-4,260.23	-3,220.26	5,390.80	5,383.59	7.21	747.454		
300.00	300.00	994.95	1,033.47	3.44	4.32	-142.97	-4,252.73	-3,207.83	5,377.16	5,369.40	7.76	693.113		
400.00	400.00	1,093.87	1,131.32	3.60	4.83	-143.03	-4,245.23	-3,195.40	5,363.52	5,355.17	8.36	641.877		
500.00	500.00	1,192.79	1,229.17	3.81	5.34	-143.09	-4,237.73	-3,182.97	5,349.89	5,340.89	9.00	594.423		
600.00	600.00	1,291.71	1,327.01	4.05	5.85	-143.15	-4,230.23	-3,170.54	5,336.26	5,326.58	9.68	551.054		
700.00	699.98	1,390.49	1,424.73	4.32	6.37	-85.46	-4,222.74	-3,158.13	5,322.50	5,312.11	10.40	511.915		
800.00	799.94	1,489.17	1,522.34	4.61	6.88	-85.55	-4,215.25	-3,145.73	5,308.65	5,297.52	11.14	476.736		
900.00	899.89	1,587.85	1,619.95	4.92	7.40	-85.64	-4,207.77	-3,133.33	5,294.82	5,282.92	11.90	445.047		
1,000.00	999.85	1,686.52	1,717.55	5.25	7.92	-85.74	-4,200.29	-3,120.93	5,281.00	5,268.32	12.68	416.530		
1,100.00	1,099.80	1,785.20	1,815.16	5.60	8.43	-85.83	-4,192.81	-3,108.53	5,267.19	5,253.71	13.48	390.854		
1,200.00	1,199.76	1,883.88	1,912.77	5.96	8.95	-85.92	-4,185.32	-3,096.14	5,253.40	5,239.11	14.29	367.701		
1,300.00	1,299.72	1,982.55	2,010.38	6.33	9.47	-86.02	-4,177.84	-3,083.74	5,239.62	5,224.51	15.11	346.777		
1,400.00	1,399.67	2,081.23	2,107.99	6.71	9.99	-86.11	-4,170.36	-3,071.34	5,225.85	5,209.91	15.94	327.818		
1,500.00	1,499.63	2,179.91	2,205.60	7.10	10.51	-86.21	-4,162.88	-3,058.94	5,212.10	5,195.32	16.78	310.591		
1,600.00	1,599.58	2,278.58	2,303.20	7.49	11.03	-86.30	-4,155.40	-3,046.54	5,198.36	5,180.73	17.63	294.892		
1,700.00	1,699.54	2,377.26	2,400.81	7.88	11.55	-86.40	-4,147.91	-3,034.14	5,184.63	5,166.15	18.48	280.544		
1,800.00	1,799.50	2,475.94	2,498.42	8.28	12.07	-86.49	-4,140.43	-3,021.74	5,170.92	5,151.59	19.34	267.391		
1,900.00	1,899.45	2,574.61	2,596.03	8.69	12.60	-86.59	-4,132.95	-3,009.34	5,157.23	5,137.03	20.20	255.300		
2,000.00	1,999.41	2,673.29	2,693.64	9.10	13.12	-86.69	-4,125.47	-2,996.95	5,143.55	5,122.48	21.07	244.155		
2,100.00	2,099.36	2,771.97	2,791.25	9.51	13.64	-86.79	-4,117.98	-2,984.55	5,129.88	5,107.95	21.94	233.854		
2,200.00	2,199.32	2,870.64	2,888.85	9.92	14.16	-86.88	-4,110.50	-2,972.15	5,116.23	5,093.42	22.81	224.309		
2,300.00	2,299.28	2,969.32	2,986.46	10.34	14.68	-86.98	-4,103.02	-2,959.75	5,102.60	5,078.91	23.68	215.443		
2,400.00	2,399.23	3,068.00	3,084.07	10.75	15.20	-87.08	-4,095.54	-2,947.35	5,088.98	5,064.42	24.56	207.190		
2,500.00	2,499.19	3,166.67	3,181.68	11.17	15.73	-87.18	-4,088.05	-2,934.95	5,075.37	5,049.93	25.44	199.489		
2,600.00	2,599.14	3,265.35	3,279.29	11.60	16.25	-87.28	-4,080.57	-2,922.55	5,061.78	5,035.46	26.32	192.290		
2,700.00	2,699.10	3,364.03	3,376.90	12.02	16.77	-87.38	-4,073.09	-2,910.16	5,048.21	5,021.00	27.21	185.545		
2,800.00	2,799.06	3,462.70	3,474.51	12.44	17.29	-87.49	-4,065.61	-2,897.76	5,034.65	5,006.56	28.09	179.215		
2,900.00	2,899.01	3,561.38	3,572.11	12.87	17.82	-87.59	-4,058.12	-2,885.36	5,021.11	4,992.13	28.98	173.263		
3,000.00	2,998.97	3,660.06	3,669.72	13.29	18.34	-87.69	-4,050.64	-2,872.96	5,007.58	4,977.71	29.87	167.657		
3,100.00	3,098.92	3,758.73	3,767.33	13.72	18.86	-87.79	-4,043.16	-2,860.56	4,994.07	4,963.31	30.76	162.369		
3,200.00	3,198.88	3,857.41	3,864.94	14.14	19.38	-87.90	-4,035.68	-2,848.16	4,980.57	4,948.92	31.65	157.372		
3,300.00	3,298.84	3,956.09	3,962.55	14.57	19.91	-88.00	-4,028.19	-2,835.76	4,967.09	4,934.55	32.54	152.644		
3,400.00	3,398.79	4,054.77	4,060.16	15.00	20.43	-88.11	-4,020.71	-2,823.37	4,953.63	4,920.20	33.43	148.164		
3,500.00	3,498.75	4,153.44	4,157.76	15.43	20.95	-88.21	-4,013.23	-2,810.97	4,940.19	4,905.86	34.33	143.914		
3,600.00	3,598.70	4,252.12	4,255.37	15.86	21.47	-88.32	-4,005.75	-2,798.57	4,926.76	4,891.53	35.22	139.876		
3,700.00	3,698.66	4,350.80	4,352.98	16.29	22.00	-88.42	-3,998.26	-2,786.17	4,913.34	4,877.23	36.12	136.035		
3,800.00	3,798.62	4,449.47	4,450.59	16.72	22.52	-88.53	-3,990.78	-2,773.77	4,899.95	4,862.93	37.01	132.378		
3,900.00	3,898.57	4,548.15	4,548.20	17.15	23.04	-88.64	-3,983.30	-2,761.37	4,886.57	4,848.66	37.91	128.891		
4,000.00	3,998.53	4,646.83	4,645.81	17.59	23.56	-88.75	-3,975.82	-2,748.97	4,873.21	4,834.40	38.81	125.563		
4,100.00	4,098.48	4,745.50	4,743.41	18.02	24.09	-88.86	-3,968.34	-2,736.58	4,859.87	4,820.16	39.71	122.384		
4,200.00	4,198.44	4,844.18	4,841.02	18.45	24.61	-88.97	-3,960.85	-2,724.18	4,846.54	4,805.93	40.61	119.344		
4,300.00	4,298.40	4,942.86	4,938.63	18.88	25.13	-89.08	-3,953.37	-2,711.78	4,833.23	4,791.72	41.51	116.435		
4,400.00	4,398.35	5,041.53	5,036.24	19.32	25.66	-89.19	-3,945.89	-2,699.38	4,819.94	4,777.53	42.41	113.647		
4,500.00	4,498.31	5,140.21	5,133.85	19.75	26.18	-89.30	-3,938.41	-2,686.98	4,806.67	4,763.35	43.31	110.975		
4,600.00	4,598.26	5,238.89	5,231.46	20.19	26.70	-89.41	-3,930.92	-2,674.58	4,793.41	4,749.20	44.22	108.410		
4,700.00	4,698.22	5,337.56	5,329.06	20.62	27.22	-89.52	-3,923.44	-2,662.18	4,780.18	4,735.06	45.12	105.946		
4,800.00	4,798.18	5,436.24	5,426.67	21.05	27.75	-89.64	-3,915.96	-2,649.78	4,766.96	4,720.93	46.02	103.579		
4,900.00	4,898.13	5,534.92	5,524.28	21.49	28.27	-89.75	-3,908.48	-2,637.39	4,753.76	4,706.83	46.93	101.302		
5,000.00	4,998.09	5,633.59	5,621.89	21.92	28.79	-89.86	-3,900.99	-2,624.99	4,740.58	4,692.74	47.83	99.110		
5,100.00	5,098.04	5,732.27	5,719.50	22.36	29.32	-89.98	-3,893.51	-2,612.59	4,727.41	4,678.68	48.74	96.998		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,830.95	5,817.11	22.79	29.84	-90.10	-3,886.03	-2,600.19	4,714.27	4,664.63	49.64	94.963		
5,300.00	5,297.96	5,929.62	5,914.71	23.23	30.36	-90.21	-3,878.55	-2,587.79	4,701.15	4,650.60	50.55	93.000		
5,400.00	5,397.91	6,028.30	6,012.32	23.67	30.89	-90.33	-3,871.06	-2,575.39	4,688.04	4,636.59	51.46	91.106		
5,500.00	5,497.87	6,126.98	6,109.93	24.10	31.41	-90.45	-3,863.58	-2,562.99	4,674.96	4,622.59	52.36	89.277		
5,600.00	5,597.82	6,225.65	6,207.54	24.54	31.93	-90.56	-3,856.10	-2,550.60	4,661.89	4,608.62	53.27	87.510		
5,700.00	5,697.78	6,325.69	6,305.15	24.97	32.46	-90.68	-3,848.62	-2,538.20	4,648.85	4,594.66	54.19	85.791		
5,800.00	5,797.74	6,384.72	6,364.89	25.41	32.77	-90.76	-3,844.04	-2,530.68	4,636.02	4,581.09	54.93	84.391		
5,900.00	5,897.69	6,400.00	6,380.05	25.85	32.85	-90.77	-3,842.89	-2,529.18	4,624.68	4,569.19	55.49	83.337		
6,000.00	5,997.65	6,425.01	6,404.94	26.28	32.97	-90.79	-3,841.01	-2,527.50	4,615.03	4,558.95	56.07	82.305		
6,100.00	6,097.60	6,450.00	6,429.85	26.72	33.08	-90.79	-3,839.16	-2,526.81	4,607.10	4,550.47	56.63	81.354		
6,200.00	6,197.56	6,450.00	6,429.85	27.16	33.08	-90.79	-3,839.16	-2,526.81	4,601.01	4,543.94	57.07	80.620		
6,300.00	6,297.52	6,500.00	6,479.68	27.59	33.26	-90.77	-3,835.52	-2,528.36	4,596.49	4,538.81	57.68	79.683		
6,400.00	6,397.47	6,500.00	6,479.68	28.03	33.26	-90.77	-3,835.52	-2,528.36	4,593.65	4,535.57	58.09	79.083		
6,500.00	6,497.43	6,525.01	6,504.52	28.47	33.34	-90.74	-3,833.74	-2,530.61	4,592.61	4,534.04	58.56	78.423		
6,505.33	6,502.75	6,525.01	6,504.52	28.49	33.34	-90.74	-3,833.74	-2,530.61	4,592.60	4,534.02	58.58	78.397		
6,600.00	6,597.38	6,550.00	6,529.24	28.90	33.41	-90.71	-3,832.00	-2,533.83	4,593.32	4,534.30	59.02	77.831		
6,700.00	6,697.08	6,550.00	6,529.24	29.34	33.41	-64.86	-3,832.00	-2,533.83	4,593.79	4,534.43	59.35	77.395		
6,800.00	6,794.63	6,600.00	6,578.23	29.79	33.53	-61.84	-3,828.60	-2,543.18	4,587.84	4,527.95	59.89	76.607		
6,900.00	6,887.62	6,600.00	6,578.23	30.24	33.53	-61.75	-3,828.60	-2,543.18	4,575.52	4,515.30	60.22	75.983		
7,000.00	6,973.77	6,625.01	6,602.42	30.70	33.58	-62.79	-3,826.96	-2,549.29	4,557.11	4,496.46	60.65	75.133		
7,100.00	7,050.94	6,650.00	6,626.34	31.20	33.63	-64.59	-3,825.36	-2,556.35	4,533.05	4,471.93	61.12	74.168		
7,200.00	7,117.24	6,650.00	6,626.34	31.77	33.63	-66.89	-3,825.36	-2,556.35	4,503.96	4,442.42	61.55	73.178		
7,300.00	7,171.03	6,680.93	6,655.53	32.46	33.67	-69.96	-3,823.44	-2,566.38	4,470.26	4,408.05	62.21	71.854		
7,400.00	7,211.00	6,700.00	6,673.28	33.29	33.70	-73.47	-3,822.29	-2,573.26	4,433.09	4,370.11	62.98	70.385		
7,500.00	7,236.16	6,709.68	6,682.20	34.29	33.71	-77.30	-3,821.72	-2,576.96	4,393.25	4,329.36	63.89	68.758		
7,600.00	7,245.89	6,725.01	6,696.23	35.43	33.73	-81.49	-3,820.83	-2,583.09	4,351.80	4,286.79	65.01	66.944		
7,700.00	7,245.73	6,725.01	6,696.23	36.72	33.73	-82.07	-3,820.83	-2,583.09	4,310.49	4,244.26	66.24	65.075		
7,800.00	7,245.42	6,741.14	6,710.81	38.18	33.75	-82.28	-3,819.91	-2,589.91	4,270.99	4,203.28	67.71	63.074		
7,900.00	7,245.10	6,750.00	6,718.75	39.80	33.75	-82.39	-3,819.41	-2,593.81	4,233.39	4,164.05	69.34	61.054		
8,000.00	7,244.79	6,750.00	6,718.75	41.54	33.75	-82.39	-3,819.41	-2,593.81	4,197.79	4,126.70	71.10	59.043		
8,100.00	7,244.48	6,777.55	6,743.09	43.41	33.77	-82.74	-3,817.92	-2,606.64	4,163.98	4,090.89	73.09	56.974		
8,200.00	7,244.17	6,800.00	6,762.49	45.38	33.79	-83.02	-3,816.75	-2,617.87	4,132.26	4,057.08	75.19	54.960		
8,300.00	7,243.86	6,800.00	6,762.49	47.44	33.79	-83.02	-3,816.75	-2,617.87	4,102.53	4,025.18	77.35	53.040		
8,400.00	7,243.55	6,825.01	6,783.63	49.58	33.81	-83.32	-3,815.50	-2,631.18	4,074.82	3,995.14	79.68	51.142		
8,500.00	7,243.23	6,841.54	6,797.30	51.78	33.81	-83.52	-3,814.70	-2,640.43	4,049.17	3,967.10	82.07	49.335		
8,600.00	7,242.92	6,850.00	6,804.21	54.05	33.82	-83.62	-3,814.30	-2,645.29	4,025.63	3,941.09	84.54	47.621		
8,700.00	7,242.61	6,882.63	6,830.23	56.37	33.83	-84.00	-3,812.84	-2,664.92	4,004.05	3,916.93	87.11	45.963		
8,800.00	7,242.30	6,900.00	6,843.66	58.74	33.84	-84.19	-3,812.10	-2,675.91	3,984.57	3,894.85	89.72	44.412		
8,900.00	7,241.99	6,931.74	6,867.42	61.16	33.85	-84.54	-3,810.84	-2,696.91	3,967.09	3,874.70	92.40	42.935		
9,000.00	7,241.67	6,950.00	6,880.60	63.61	33.85	-84.73	-3,810.16	-2,709.53	3,951.65	3,856.56	95.09	41.558		
9,100.00	7,241.36	7,000.00	6,914.80	66.09	33.88	-85.23	-3,808.48	-2,745.95	3,938.12	3,840.25	97.88	40.235		
9,200.00	7,241.05	7,025.01	6,930.82	68.60	33.90	-85.46	-3,807.74	-2,765.15	3,926.46	3,825.82	100.64	39.013		
9,300.00	7,240.74	7,061.38	6,952.73	71.13	33.93	-85.78	-3,806.80	-2,794.15	3,916.65	3,813.18	103.47	37.854		
9,400.00	7,240.43	7,100.00	6,974.16	73.70	33.98	-86.10	-3,805.96	-2,826.26	3,908.56	3,802.25	106.32	36.764		
9,500.00	7,240.11	7,150.00	6,998.94	76.28	34.08	-86.46	-3,805.14	-2,869.66	3,902.11	3,792.87	109.24	35.720		
9,600.00	7,239.80	7,200.00	7,020.26	78.88	34.23	-86.78	-3,804.61	-2,914.87	3,897.20	3,784.98	112.22	34.730		
9,700.00	7,239.49	7,243.12	7,035.75	81.50	34.41	-87.00	-3,804.40	-2,955.10	3,893.67	3,778.48	115.19	33.801		
9,800.00	7,239.18	7,300.00	7,051.98	84.13	34.72	-87.25	-3,804.47	-3,009.60	3,891.47	3,773.16	118.31	32.892		
9,900.00	7,238.87	7,350.00	7,062.19	86.78	35.08	-87.40	-3,804.85	-3,058.53	3,890.47	3,769.04	121.43	32.040		
9,937.77	7,238.75	7,374.04	7,065.73	87.78	35.28	-87.45	-3,805.14	-3,082.31	3,890.39	3,767.71	122.67	31.714 CC		
10,000.00	7,238.55	7,410.02	7,069.34	89.44	35.59	-87.51	-3,805.70	-3,118.09	3,890.60	3,765.91	124.69	31.202		
10,100.00	7,238.24	7,474.25	7,070.92	92.11	36.25	-87.53	-3,807.06	-3,182.27	3,891.80	3,763.74	128.06	30.390		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,200.00	7,237.93	7,574.24	7,070.32	94.80	37.52	-87.53	-3,809.42	-3,282.23	3,893.41	3,761.37	132.04	29.487		
10,300.00	7,237.62	7,674.22	7,069.72	97.49	39.04	-87.53	-3,811.78	-3,382.18	3,895.01	3,758.75	136.26	28.586		
10,400.00	7,237.31	7,774.21	7,069.12	100.19	40.79	-87.52	-3,814.13	-3,482.14	3,896.61	3,755.91	140.70	27.695		
10,500.00	7,236.99	7,874.20	7,068.52	102.90	42.74	-87.52	-3,816.49	-3,582.10	3,898.21	3,752.87	145.34	26.822		
10,600.00	7,236.68	7,974.18	7,067.91	105.62	44.84	-87.52	-3,818.85	-3,682.06	3,899.81	3,749.66	150.15	25.973		
10,700.00	7,236.37	8,074.17	7,067.31	108.35	47.09	-87.51	-3,821.20	-3,782.01	3,901.41	3,746.30	155.11	25.153		
10,800.00	7,236.06	8,174.16	7,066.71	111.08	49.46	-87.51	-3,823.56	-3,881.97	3,903.01	3,742.81	160.20	24.364		
10,900.00	7,235.75	8,274.14	7,066.11	113.82	51.93	-87.51	-3,825.92	-3,981.93	3,904.61	3,739.21	165.40	23.607		
11,000.00	7,235.44	8,374.13	7,065.50	116.56	54.50	-87.50	-3,828.27	-4,081.89	3,906.21	3,735.51	170.70	22.884		
11,100.00	7,235.12	8,474.12	7,064.90	119.31	57.14	-87.50	-3,830.63	-4,181.84	3,907.81	3,731.73	176.08	22.193		
11,200.00	7,234.81	8,574.11	7,064.30	122.07	59.85	-87.50	-3,832.98	-4,281.80	3,909.41	3,727.87	181.54	21.535		
11,300.00	7,234.50	8,674.09	7,063.70	124.83	62.62	-87.49	-3,835.34	-4,381.76	3,911.01	3,723.95	187.06	20.908		
11,400.00	7,234.19	8,774.08	7,063.10	127.59	65.44	-87.49	-3,837.70	-4,481.72	3,912.61	3,719.97	192.64	20.311		
11,500.00	7,233.88	8,874.07	7,062.49	130.36	68.31	-87.49	-3,840.05	-4,581.67	3,914.21	3,715.94	198.27	19.742		
11,600.00	7,233.56	8,974.05	7,061.89	133.13	71.22	-87.48	-3,842.41	-4,681.63	3,915.81	3,711.87	203.94	19.201		
11,700.00	7,233.25	9,074.04	7,061.29	135.91	74.16	-87.48	-3,844.77	-4,781.59	3,917.41	3,707.76	209.65	18.686		
11,800.00	7,232.94	9,174.03	7,060.69	138.68	77.13	-87.48	-3,847.12	-4,881.55	3,919.01	3,703.62	215.39	18.195		
11,900.00	7,232.63	9,274.01	7,060.09	141.47	80.13	-87.47	-3,849.48	-4,981.50	3,920.61	3,699.44	221.17	17.727		
12,000.00	7,232.32	9,374.00	7,059.48	144.25	83.15	-87.47	-3,851.84	-5,081.46	3,922.21	3,695.24	226.97	17.280		
12,100.00	7,232.00	9,473.99	7,058.88	147.04	86.20	-87.47	-3,854.19	-5,181.42	3,923.81	3,691.01	232.80	16.855		
12,200.00	7,231.69	9,573.97	7,058.28	149.83	89.27	-87.46	-3,856.55	-5,281.37	3,925.41	3,686.76	238.66	16.448		
12,300.00	7,231.38	9,673.96	7,057.68	152.62	92.35	-87.46	-3,858.90	-5,381.33	3,927.01	3,682.49	244.53	16.060		
12,400.00	7,231.07	9,773.95	7,057.08	155.42	95.45	-87.46	-3,861.26	-5,481.29	3,928.61	3,678.20	250.42	15.688		
12,500.00	7,230.76	9,873.94	7,056.47	158.22	98.57	-87.46	-3,863.62	-5,581.25	3,930.21	3,673.89	256.33	15.333		
12,600.00	7,230.44	9,973.92	7,055.87	161.01	101.70	-87.45	-3,865.97	-5,681.20	3,931.81	3,669.57	262.25	14.993		
12,700.00	7,230.13	10,073.91	7,055.27	163.82	104.84	-87.45	-3,868.33	-5,781.16	3,933.42	3,665.23	268.19	14.667		
12,800.00	7,229.82	10,173.90	7,054.67	166.62	107.99	-87.45	-3,870.69	-5,881.12	3,935.02	3,660.88	274.14	14.354		
12,900.00	7,229.51	10,273.88	7,054.07	169.43	111.15	-87.44	-3,873.04	-5,981.08	3,936.62	3,656.52	280.10	14.054		
13,000.00	7,229.20	10,373.87	7,053.46	172.23	114.32	-87.44	-3,875.40	-6,081.03	3,938.22	3,652.15	286.07	13.767		
13,100.00	7,228.88	10,473.86	7,052.86	175.04	117.50	-87.44	-3,877.75	-6,180.99	3,939.82	3,647.76	292.05	13.490		
13,200.00	7,228.57	10,573.84	7,052.26	177.85	120.69	-87.43	-3,880.11	-6,280.95	3,941.42	3,643.37	298.05	13.224		
13,300.00	7,228.26	10,673.83	7,051.66	180.66	123.89	-87.43	-3,882.47	-6,380.91	3,943.02	3,638.97	304.05	12.968		
13,400.00	7,227.95	10,773.82	7,051.06	183.48	127.09	-87.43	-3,884.82	-6,480.86	3,944.62	3,634.56	310.06	12.722		
13,500.00	7,227.64	10,873.81	7,050.45	186.29	130.30	-87.42	-3,887.18	-6,580.82	3,946.22	3,630.15	316.07	12.485		
13,600.00	7,227.33	10,973.79	7,049.85	189.11	133.51	-87.42	-3,889.54	-6,680.78	3,947.82	3,625.72	322.10	12.257		
13,700.00	7,227.01	11,073.78	7,049.25	191.92	136.73	-87.42	-3,891.89	-6,780.74	3,949.42	3,621.29	328.13	12.036		
13,800.00	7,226.70	11,173.77	7,048.65	194.74	139.95	-87.41	-3,894.25	-6,880.69	3,951.02	3,616.86	334.16	11.824		
13,900.00	7,226.39	11,273.75	7,048.05	197.56	143.18	-87.41	-3,896.61	-6,980.65	3,952.62	3,612.42	340.21	11.618		
14,000.00	7,226.08	11,373.74	7,047.44	200.38	146.41	-87.41	-3,898.96	-7,080.61	3,954.22	3,607.97	346.25	11.420		
14,100.00	7,225.77	11,473.73	7,046.84	203.21	149.65	-87.40	-3,901.32	-7,180.56	3,955.82	3,603.52	352.31	11.228		
14,200.00	7,225.45	11,573.71	7,046.24	206.03	152.89	-87.40	-3,903.67	-7,280.52	3,957.43	3,599.06	358.36	11.043		
14,300.00	7,225.14	11,673.70	7,045.64	208.85	156.14	-87.40	-3,906.03	-7,380.48	3,959.03	3,594.60	364.43	10.864		
14,400.00	7,224.83	11,773.69	7,045.03	211.68	159.39	-87.39	-3,908.39	-7,480.44	3,960.63	3,590.13	370.49	10.690		
14,500.00	7,224.52	11,873.67	7,044.43	214.50	162.64	-87.39	-3,910.74	-7,580.39	3,962.23	3,585.66	376.56	10.522		
14,600.00	7,224.21	11,973.66	7,043.83	217.33	165.89	-87.39	-3,913.10	-7,680.35	3,963.83	3,581.19	382.64	10.359		
14,700.00	7,223.89	12,073.65	7,043.23	220.16	169.15	-87.39	-3,915.46	-7,780.31	3,965.43	3,576.71	388.71	10.201		
14,800.00	7,223.58	12,173.64	7,042.63	222.98	172.41	-87.38	-3,917.81	-7,880.27	3,967.03	3,572.23	394.80	10.048		
14,900.00	7,223.27	12,273.62	7,042.02	225.81	175.67	-87.38	-3,920.17	-7,980.22	3,968.63	3,567.75	400.88	9.900		
14,987.41	7,223.00	12,361.02	7,041.50	228.28	178.52	-87.38	-3,922.23	-8,067.60	3,970.03	3,563.83	406.20	9.774 ES, SF		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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							
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	15,789.45	7,243.40	3.28	247.78	0.59	2,083.68	21.44	7,537.18				
100.00	100.00	15,789.69	7,243.40	3.28	247.79	0.58	2,083.68	21.19	7,441.12	7,323.59	117.53	63.311	
200.00	200.00	15,789.93	7,243.40	3.34	247.79	0.58	2,083.68	20.95	7,345.18	7,227.23	117.95	62.275	
300.00	300.00	15,809.89	7,243.40	3.44	248.36	0.57	2,083.68	20.71	7,249.34	7,130.72	118.62	61.113	
400.00	400.00	15,809.64	7,243.40	3.60	248.35	0.56	2,083.68	20.46	7,153.62	7,034.55	119.07	60.077	
500.00	500.00	15,809.40	7,243.40	3.81	248.35	0.56	2,083.68	20.22	7,058.02	6,938.47	119.55	59.038	
600.00	600.00	15,809.15	7,243.40	4.05	248.34	0.55	2,083.68	19.97	6,962.54	6,842.49	120.05	57.996	
700.00	699.98	15,807.46	7,243.41	4.32	248.29	63.33	2,083.68	18.28	6,866.93	6,746.39	120.55	56.964	
800.00	799.94	15,804.70	7,243.41	4.61	248.21	63.25	2,083.69	15.52	6,771.28	6,650.24	121.04	55.944	
900.00	899.89	15,801.93	7,243.42	4.92	248.13	63.17	2,083.69	12.75	6,675.75	6,554.20	121.55	54.921	
1,000.00	999.85	15,800.89	7,243.43	5.25	248.10	63.09	2,083.70	9.99	6,580.35	6,458.23	122.12	53.885	
1,100.00	1,099.80	15,803.66	7,243.44	5.60	248.18	63.02	2,083.70	7.23	6,485.09	6,362.33	122.76	52.826	
1,200.00	1,199.76	15,806.42	7,243.44	5.96	248.26	62.94	2,083.71	4.46	6,389.98	6,266.54	123.44	51.766	
1,300.00	1,299.72	15,809.18	7,243.45	6.33	248.34	62.86	2,083.71	1.70	6,295.01	6,170.86	124.15	50.705	
1,400.00	1,399.67	15,811.95	7,243.46	6.71	248.42	62.78	2,083.72	-1.06	6,200.20	6,075.31	124.90	49.643	
1,500.00	1,499.63	15,814.71	7,243.46	7.10	248.50	62.70	2,083.72	-3.83	6,105.56	5,979.88	125.68	48.581	
1,600.00	1,599.58	15,817.47	7,243.47	7.49	248.57	62.62	2,083.73	-6.59	6,011.08	5,884.58	126.50	47.518	
1,700.00	1,699.54	15,820.24	7,243.48	7.88	248.65	62.54	2,083.73	-9.35	5,916.79	5,789.43	127.37	46.454	
1,800.00	1,799.50	15,823.00	7,243.48	8.28	248.73	62.46	2,083.74	-12.11	5,822.69	5,694.41	128.28	45.392	
1,900.00	1,899.45	15,825.76	7,243.49	8.69	248.81	62.38	2,083.74	-14.88	5,728.79	5,599.55	129.23	44.329	
2,000.00	1,999.41	15,828.53	7,243.50	9.10	248.89	62.30	2,083.75	-17.64	5,635.09	5,504.85	130.24	43.268	
2,100.00	2,099.36	15,831.29	7,243.50	9.51	248.96	62.22	2,083.75	-20.40	5,541.61	5,410.32	131.29	42.208	
2,200.00	2,199.32	15,834.05	7,243.51	9.92	249.04	62.14	2,083.76	-23.17	5,448.37	5,315.96	132.40	41.151	
2,300.00	2,299.28	15,836.81	7,243.52	10.34	249.12	62.06	2,083.76	-25.93	5,355.36	5,221.80	133.57	40.095	
2,400.00	2,399.23	15,839.58	7,243.52	10.75	249.20	61.98	2,083.77	-28.69	5,262.61	5,127.82	134.79	39.043	
2,500.00	2,499.19	15,842.34	7,243.53	11.17	249.28	61.90	2,083.77	-31.46	5,170.13	5,034.06	136.07	37.995	
2,600.00	2,599.14	15,845.10	7,243.54	11.60	249.35	61.82	2,083.78	-34.22	5,077.93	4,940.51	137.42	36.951	
2,700.00	2,699.10	15,847.87	7,243.54	12.02	249.43	61.74	2,083.78	-36.98	4,986.04	4,847.20	138.84	35.913	
2,800.00	2,799.06	15,850.63	7,243.55	12.44	249.51	61.66	2,083.79	-39.75	4,894.45	4,754.13	140.32	34.880	
2,900.00	2,899.01	15,853.39	7,243.56	12.87	249.59	61.58	2,083.79	-42.51	4,803.21	4,661.33	141.88	33.854	
3,000.00	2,998.97	15,856.16	7,243.56	13.29	249.67	61.50	2,083.80	-45.27	4,712.31	4,568.80	143.51	32.836	
3,100.00	3,098.92	15,858.92	7,243.57	13.72	249.75	61.42	2,083.80	-48.04	4,621.79	4,476.57	145.22	31.826	
3,200.00	3,198.88	15,861.68	7,243.58	14.14	249.82	61.35	2,083.81	-50.80	4,531.67	4,384.66	147.01	30.825	
3,300.00	3,298.84	15,864.45	7,243.58	14.57	249.90	61.27	2,083.81	-53.56	4,441.97	4,293.08	148.89	29.834	
3,400.00	3,398.79	15,867.21	7,243.59	15.00	249.98	61.19	2,083.82	-56.33	4,352.71	4,201.86	150.86	28.853	
3,500.00	3,498.75	15,869.97	7,243.60	15.43	250.06	61.11	2,083.82	-59.09	4,263.94	4,111.02	152.91	27.885	
3,600.00	3,598.70	15,872.74	7,243.60	15.86	250.14	61.03	2,083.83	-61.85	4,175.66	4,020.59	155.07	26.928	
3,700.00	3,698.66	15,875.50	7,243.61	16.29	250.21	60.95	2,083.83	-64.61	4,087.93	3,930.61	157.32	25.985	
3,800.00	3,798.62	15,878.26	7,243.62	16.72	250.29	60.87	2,083.84	-67.38	4,000.76	3,841.09	159.68	25.055	
3,900.00	3,898.57	15,881.03	7,243.62	17.15	250.37	60.79	2,083.84	-70.14	3,914.21	3,752.07	162.14	24.141	
4,000.00	3,998.53	15,883.79	7,243.63	17.59	250.45	60.71	2,083.85	-72.90	3,828.32	3,663.60	164.72	23.241	
4,100.00	4,098.48	15,886.55	7,243.64	18.02	250.53	60.63	2,083.85	-75.67	3,743.12	3,575.71	167.41	22.359	
4,200.00	4,198.44	15,889.32	7,243.64	18.45	250.61	60.55	2,083.86	-78.43	3,658.67	3,488.44	170.23	21.493	
4,300.00	4,298.40	15,907.99	7,243.65	18.88	251.13	60.47	2,083.86	-81.19	3,575.02	3,401.57	173.45	20.612	
4,400.00	4,398.35	15,894.84	7,243.66	19.32	250.76	60.39	2,083.87	-83.96	3,492.23	3,316.00	176.23	19.816	
4,500.00	4,498.31	15,902.46	7,243.66	19.75	250.98	60.31	2,083.87	-86.72	3,410.35	3,230.83	179.52	18.997	
4,600.00	4,598.26	15,900.37	7,243.67	20.19	250.92	60.23	2,083.88	-89.48	3,329.47	3,146.70	182.77	18.217	
4,700.00	4,698.22	15,903.13	7,243.68	20.62	251.00	60.15	2,083.88	-92.25	3,249.65	3,063.40	186.24	17.448	
4,800.00	4,798.18	15,905.89	7,243.69	21.05	251.07	60.07	2,083.89	-95.01	3,170.97	2,981.10	189.86	16.701	
4,900.00	4,898.13	15,908.66	7,243.69	21.49	251.15	59.99	2,083.89	-97.77	3,093.51	2,899.89	193.62	15.977	
5,000.00	4,998.09	15,911.42	7,243.70	21.92	251.23	59.91	2,083.90	-100.54	3,017.39	2,819.86	197.53	15.276	
5,100.00	5,098.04	15,914.18	7,243.71	22.36	251.31	59.83	2,083.90	-103.30	2,942.69	2,741.11	201.58	14.598	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	15,916.95	7,243.71	22.79	251.39	59.75	2,083.91	-106.06	2,869.52	2,663.75	205.77	13.945		
5,300.00	5,297.96	15,919.71	7,243.72	23.23	251.47	59.67	2,083.91	-108.83	2,798.02	2,587.92	210.10	13.317		
5,400.00	5,397.91	15,922.47	7,243.73	23.67	251.54	59.59	2,083.92	-111.59	2,728.30	2,513.74	214.56	12.716		
5,500.00	5,497.87	15,925.24	7,243.73	24.10	251.62	59.51	2,083.92	-114.35	2,660.52	2,441.37	219.14	12.140		
5,600.00	5,597.82	15,928.00	7,243.74	24.54	251.70	59.43	2,083.93	-117.12	2,594.81	2,370.98	223.83	11.593		
5,700.00	5,697.78	15,930.76	7,243.75	24.97	251.78	59.35	2,083.93	-119.88	2,531.35	2,302.74	228.61	11.073		
5,800.00	5,797.74	15,933.53	7,243.75	25.41	251.86	59.27	2,083.94	-122.64	2,470.31	2,236.84	233.46	10.581		
5,900.00	5,897.69	15,936.29	7,243.76	25.85	251.93	59.19	2,083.94	-125.40	2,411.86	2,173.50	238.36	10.119		
6,000.00	5,997.65	15,939.05	7,243.77	26.28	252.01	59.11	2,083.95	-128.17	2,356.20	2,112.95	243.26	9.686		
6,100.00	6,097.60	15,941.82	7,243.77	26.72	252.09	59.03	2,083.95	-130.93	2,303.55	2,055.41	248.13	9.283		
6,200.00	6,197.56	15,944.58	7,243.78	27.16	252.17	58.95	2,083.96	-133.69	2,254.09	2,001.15	252.94	8.912		
6,300.00	6,297.52	15,947.34	7,243.79	27.59	252.25	58.87	2,083.96	-136.46	2,208.06	1,950.44	257.62	8.571		
6,400.00	6,397.47	15,950.11	7,243.79	28.03	252.33	58.79	2,083.97	-139.22	2,165.66	1,903.54	262.13	8.262		
6,500.00	6,497.43	15,952.87	7,243.80	28.47	252.40	58.71	2,083.97	-141.98	2,127.13	1,860.73	266.40	7.985		
6,600.00	6,597.38	15,955.63	7,243.81	28.90	252.48	58.63	2,083.98	-144.75	2,092.66	1,822.29	270.37	7.740		
6,700.00	6,697.08	15,962.45	7,243.82	29.34	252.67	86.28	2,083.99	-151.57	2,062.57	1,788.49	274.08	7.526		
6,800.00	6,794.63	15,964.18	7,243.88	29.79	253.29	91.45	2,084.03	-173.29	2,037.58	1,759.85	277.73	7.337		
6,900.00	6,887.62	16,020.89	7,243.97	30.24	254.33	93.31	2,084.09	-210.00	2,018.01	1,736.75	281.26	7.175		
7,000.00	6,973.77	16,071.68	7,244.09	30.70	255.77	93.85	2,084.18	-260.79	2,003.72	1,719.09	284.64	7.040		
7,100.00	7,050.94	16,135.30	7,244.25	31.20	257.57	93.58	2,084.30	-324.41	1,994.17	1,706.26	287.91	6.926		
7,200.00	7,117.24	16,210.18	7,244.43	31.77	259.69	92.84	2,084.43	-399.30	1,988.50	1,697.35	291.15	6.830		
7,300.00	7,171.03	16,305.58	7,244.63	32.46	262.39	91.90	2,084.58	-483.60	1,985.72	1,690.94	294.78	6.736		
7,400.00	7,211.00	16,386.14	7,244.86	33.29	264.67	91.00	2,084.75	-575.25	1,984.87	1,686.91	297.97	6.661		
7,418.33	7,216.74	16,403.56	7,244.90	33.47	265.16	90.85	2,084.78	-592.67	1,984.86	1,686.21	298.64	6.646 CC		
7,500.00	7,236.16	16,482.88	7,245.09	34.29	267.41	90.32	2,084.92	-671.99	1,985.12	1,683.42	301.69	6.580		
7,600.00	7,245.89	16,582.32	7,245.34	35.43	270.22	89.99	2,085.10	-771.43	1,985.88	1,680.24	305.64	6.497		
7,700.00	7,245.73	16,682.31	7,245.58	36.72	273.06	89.99	2,085.28	-871.43	1,986.82	1,677.06	309.76	6.414		
7,800.00	7,245.42	16,782.31	7,245.83	38.18	275.89	90.01	2,085.46	-971.42	1,987.77	1,673.71	314.06	6.329		
7,900.00	7,245.10	16,882.30	7,246.07	39.80	278.73	90.03	2,085.64	-1,071.41	1,988.72	1,670.21	318.51	6.244		
8,000.00	7,244.79	16,982.30	7,246.32	41.54	281.56	90.04	2,085.82	-1,171.41	1,989.66	1,666.57	323.09	6.158		
8,100.00	7,244.48	17,082.29	7,246.56	43.41	284.40	90.06	2,086.00	-1,271.40	1,990.61	1,662.82	327.79	6.073		
8,200.00	7,244.17	17,182.28	7,246.80	45.38	287.23	90.07	2,086.18	-1,371.39	1,991.56	1,658.96	332.60	5.988		
8,300.00	7,243.86	17,282.28	7,247.05	47.44	290.07	90.09	2,086.36	-1,471.39	1,992.51	1,655.01	337.50	5.904		
8,400.00	7,243.55	17,382.27	7,247.29	49.58	292.91	90.11	2,086.54	-1,571.38	1,993.46	1,650.98	342.47	5.821		
8,500.00	7,243.23	17,482.27	7,247.54	51.78	295.74	90.12	2,086.72	-1,671.37	1,994.40	1,646.88	347.52	5.739		
8,600.00	7,242.92	17,582.26	7,247.78	54.05	298.58	90.14	2,086.89	-1,771.37	1,995.35	1,642.73	352.63	5.659		
8,700.00	7,242.61	17,682.25	7,248.03	56.37	301.42	90.15	2,087.07	-1,871.36	1,996.30	1,638.51	357.79	5.580		
8,800.00	7,242.30	17,782.25	7,248.27	58.74	304.26	90.17	2,087.25	-1,971.36	1,997.25	1,634.25	363.00	5.502		
8,900.00	7,241.99	17,882.24	7,248.51	61.16	307.10	90.19	2,087.43	-2,071.35	1,998.20	1,629.95	368.25	5.426		
9,000.00	7,241.67	17,982.24	7,248.76	63.61	309.94	90.20	2,087.61	-2,171.34	1,999.15	1,625.61	373.54	5.352		
9,100.00	7,241.36	18,082.23	7,249.00	66.09	312.78	90.22	2,087.79	-2,271.34	2,000.10	1,621.24	378.86	5.279		
9,200.00	7,241.05	18,182.22	7,249.25	68.60	315.62	90.23	2,087.97	-2,371.33	2,001.05	1,616.83	384.21	5.208		
9,300.00	7,240.74	18,282.22	7,249.49	71.13	318.46	90.25	2,088.15	-2,471.32	2,001.99	1,612.40	389.59	5.139		
9,400.00	7,240.43	18,382.21	7,249.74	73.70	321.30	90.26	2,088.33	-2,571.32	2,002.94	1,607.95	394.99	5.071		
9,500.00	7,240.11	18,482.21	7,249.98	76.28	324.14	90.28	2,088.51	-2,671.31	2,003.89	1,603.48	400.42	5.005		
9,600.00	7,239.80	18,582.20	7,250.22	78.88	326.98	90.30	2,088.69	-2,771.30	2,004.84	1,598.99	405.86	4.940		
9,700.00	7,239.49	18,682.19	7,250.47	81.50	329.82	90.31	2,088.87	-2,871.30	2,005.79	1,594.47	411.32	4.876		
9,800.00	7,239.18	18,782.19	7,250.71	84.13	332.67	90.33	2,089.05	-2,971.29	2,006.74	1,589.95	416.80	4.815		
9,900.00	7,238.87	18,882.18	7,250.96	86.78	335.51	90.34	2,089.23	-3,071.28	2,007.69	1,585.41	422.29	4.754		
10,000.00	7,238.55	18,982.18	7,251.20	89.44	338.35	90.36	2,089.41	-3,171.28	2,008.64	1,580.85	427.79	4.695		
10,100.00	7,238.24	19,082.17	7,251.45	92.11	341.19	90.37	2,089.59	-3,271.27	2,009.60	1,576.29	433.31	4.638		
10,200.00	7,237.93	19,182.16	7,251.69	94.80	344.02	90.38	2,089.77	-3,371.26	2,010.56	1,571.73	438.88	4.584 ES		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	19,118.26	7,251.53	97.49	342.22	90.38	2,089.65	-3,307.36	2,018.16	1,579.67	438.50	4.602 SF		
10,400.00	7,237.31	19,118.26	7,251.53	100.19	342.22	90.38	2,089.65	-3,307.36	2,029.68	1,590.59	439.09	4.623		
10,500.00	7,236.99	19,118.26	7,251.53	102.90	342.22	90.38	2,089.65	-3,307.36	2,046.02	1,607.35	438.67	4.664		
10,600.00	7,236.68	19,118.26	7,251.53	105.62	342.22	90.38	2,089.65	-3,307.36	2,067.07	1,629.77	437.31	4.727		
10,700.00	7,236.37	19,118.26	7,251.53	108.35	342.22	90.38	2,089.65	-3,307.36	2,092.70	1,657.65	435.06	4.810		
10,800.00	7,236.06	19,118.26	7,251.53	111.08	342.22	90.38	2,089.65	-3,307.36	2,122.73	1,690.74	431.99	4.914		
10,900.00	7,235.75	19,118.26	7,251.53	113.82	342.22	90.38	2,089.65	-3,307.36	2,156.99	1,728.78	428.21	5.037		
11,000.00	7,235.44	19,118.26	7,251.53	116.56	342.22	90.38	2,089.65	-3,307.36	2,195.27	1,771.47	423.80	5.180		
11,100.00	7,235.12	19,118.26	7,251.53	119.31	342.22	90.38	2,089.65	-3,307.36	2,237.37	1,818.51	418.85	5.342		
11,200.00	7,234.81	19,118.26	7,251.53	122.07	342.22	90.38	2,089.65	-3,307.36	2,283.07	1,869.61	413.46	5.522		
11,300.00	7,234.50	19,118.26	7,251.53	124.83	342.22	90.38	2,089.65	-3,307.36	2,332.17	1,924.45	407.72	5.720		
11,400.00	7,234.19	19,118.26	7,251.53	127.59	342.22	90.38	2,089.65	-3,307.36	2,384.45	1,982.76	401.70	5.936		
11,500.00	7,233.88	19,118.26	7,251.53	130.36	342.22	90.38	2,089.65	-3,307.36	2,439.72	2,044.25	395.47	6.169		
11,600.00	7,233.56	19,118.26	7,251.53	133.13	342.22	90.38	2,089.65	-3,307.36	2,497.77	2,108.66	389.11	6.419		
11,700.00	7,233.25	19,118.26	7,251.53	135.91	342.22	90.38	2,089.65	-3,307.36	2,558.41	2,175.73	382.67	6.686		
11,800.00	7,232.94	19,118.26	7,251.53	138.68	342.22	90.38	2,089.65	-3,307.36	2,621.46	2,245.25	376.20	6.968		
11,900.00	7,232.63	19,118.26	7,251.53	141.47	342.22	90.38	2,089.65	-3,307.36	2,686.75	2,317.00	369.75	7.266		
12,000.00	7,232.32	19,118.26	7,251.53	144.25	342.22	90.38	2,089.65	-3,307.36	2,754.13	2,390.79	363.35	7.580		
12,100.00	7,232.00	19,118.26	7,251.53	147.04	342.22	90.38	2,089.65	-3,307.36	2,823.45	2,466.43	357.02	7.908		
12,200.00	7,231.69	19,118.26	7,251.53	149.83	342.22	90.38	2,089.65	-3,307.36	2,894.56	2,543.76	350.79	8.251		
12,300.00	7,231.38	19,118.26	7,251.53	152.62	342.22	90.38	2,089.65	-3,307.36	2,967.33	2,622.64	344.69	8.609		
12,400.00	7,231.07	19,118.26	7,251.53	155.42	342.22	90.38	2,089.65	-3,307.36	3,041.65	2,702.93	338.72	8.980		
12,500.00	7,230.76	19,118.26	7,251.53	158.22	342.22	90.38	2,089.65	-3,307.36	3,117.41	2,784.52	332.90	9.364		
12,600.00	7,230.44	19,118.26	7,251.53	161.01	342.22	90.38	2,089.65	-3,307.36	3,194.51	2,867.28	327.23	9.762		
12,700.00	7,230.13	19,118.26	7,251.53	163.82	342.22	90.38	2,089.65	-3,307.36	3,272.84	2,951.12	321.71	10.173		
12,800.00	7,229.82	19,118.26	7,251.53	166.62	342.22	90.38	2,089.65	-3,307.36	3,352.32	3,035.96	316.36	10.596		
12,900.00	7,229.51	19,118.26	7,251.53	169.43	342.22	90.38	2,089.65	-3,307.36	3,432.88	3,121.71	311.18	11.032		
13,000.00	7,229.20	19,118.26	7,251.53	172.23	342.22	90.38	2,089.65	-3,307.36	3,514.44	3,208.29	306.15	11.479		
13,100.00	7,228.88	19,118.26	7,251.53	175.04	342.22	90.38	2,089.65	-3,307.36	3,596.93	3,295.64	301.29	11.939		
13,200.00	7,228.57	19,118.26	7,251.53	177.85	342.22	90.38	2,089.65	-3,307.36	3,680.28	3,383.70	296.58	12.409		
13,300.00	7,228.26	19,118.26	7,251.53	180.66	342.22	90.38	2,089.65	-3,307.36	3,764.45	3,472.42	292.03	12.890		
13,400.00	7,227.95	19,118.26	7,251.53	183.48	342.22	90.38	2,089.65	-3,307.36	3,849.38	3,561.74	287.64	13.383		
13,500.00	7,227.64	19,118.26	7,251.53	186.29	342.22	90.38	2,089.65	-3,307.36	3,935.01	3,651.62	283.39	13.886		
13,600.00	7,227.33	19,118.26	7,251.53	189.11	342.22	90.38	2,089.65	-3,307.36	4,021.31	3,742.02	279.29	14.399		
13,700.00	7,227.01	19,118.26	7,251.53	191.92	342.22	90.38	2,089.65	-3,307.36	4,108.22	3,832.90	275.32	14.922		
13,800.00	7,226.70	19,118.26	7,251.53	194.74	342.22	90.38	2,089.65	-3,307.36	4,195.73	3,924.23	271.49	15.454		
13,900.00	7,226.39	19,118.26	7,251.53	197.56	342.22	90.38	2,089.65	-3,307.36	4,283.77	4,015.98	267.80	15.996		
14,000.00	7,226.08	19,118.26	7,251.53	200.38	342.22	90.38	2,089.65	-3,307.36	4,372.34	4,108.11	264.23	16.548		
14,100.00	7,225.77	19,118.26	7,251.53	203.21	342.22	90.38	2,089.65	-3,307.36	4,461.38	4,200.60	260.78	17.108		
14,200.00	7,225.45	19,118.26	7,251.53	206.03	342.22	90.38	2,089.65	-3,307.36	4,550.88	4,293.44	257.45	17.677		
14,300.00	7,225.14	19,118.26	7,251.53	208.85	342.22	90.38	2,089.65	-3,307.36	4,640.81	4,386.58	254.23	18.255		
14,400.00	7,224.83	19,118.26	7,251.53	211.68	342.22	90.38	2,089.65	-3,307.36	4,731.15	4,480.03	251.12	18.840		
14,500.00	7,224.52	19,118.26	7,251.53	214.50	342.22	90.38	2,089.65	-3,307.36	4,821.86	4,573.75	248.11	19.434		
14,600.00	7,224.21	19,118.26	7,251.53	217.33	342.22	90.38	2,089.65	-3,307.36	4,912.94	4,667.73	245.21	20.036		
14,700.00	7,223.89	19,118.26	7,251.53	220.16	342.22	90.38	2,089.65	-3,307.36	5,004.35	4,761.96	242.40	20.645		
14,800.00	7,223.58	19,118.26	7,251.53	222.98	342.22	90.38	2,089.65	-3,307.36	5,096.09	4,856.41	239.68	21.262		
14,900.00	7,223.27	19,118.26	7,251.53	225.81	342.22	90.38	2,089.65	-3,307.36	5,188.14	4,951.08	237.05	21.886		
14,987.41	7,223.00	19,118.26	7,251.53	228.28	342.22	90.38	2,089.65	-3,307.36	5,268.83	5,034.00	234.83	22.437		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	15,714.43	7,135.45	3.28	247.98	-0.07	1,923.43	-2.28	7,390.14					
100.00	100.00	15,714.67	7,135.45	3.28	247.98	-0.08	1,923.42	-2.52	7,293.63	7,177.96	115.67	63.056		
200.00	200.00	15,714.91	7,135.45	3.34	247.99	-0.08	1,923.42	-2.76	7,197.22	7,081.17	116.05	62.020		
300.00	300.00	15,715.16	7,135.45	3.44	248.00	-0.09	1,923.42	-3.01	7,100.91	6,984.46	116.44	60.981		
400.00	400.00	15,715.40	7,135.45	3.60	248.00	-0.10	1,923.42	-3.25	7,004.70	6,887.83	116.86	59.939		
500.00	500.00	15,715.65	7,135.45	3.81	248.01	-0.10	1,923.41	-3.50	6,908.60	6,791.29	117.31	58.893		
600.00	600.00	15,715.89	7,135.45	4.05	248.02	-0.11	1,923.41	-3.74	6,812.61	6,694.83	117.77	57.845		
700.00	699.98	15,717.57	7,135.45	4.32	248.07	62.97	1,923.39	-5.42	6,716.49	6,598.23	118.27	56.790		
800.00	799.94	15,720.32	7,135.46	4.61	248.14	62.88	1,923.37	-8.17	6,620.32	6,501.54	118.78	55.735		
900.00	899.89	15,723.06	7,135.47	4.92	248.22	62.80	1,923.34	-10.91	6,524.27	6,404.95	119.32	54.678		
1,000.00	999.85	15,725.81	7,135.47	5.25	248.30	62.71	1,923.31	-13.66	6,428.33	6,308.44	119.89	53.618		
1,100.00	1,099.80	15,728.55	7,135.48	5.60	248.38	62.63	1,923.28	-16.40	6,332.52	6,212.03	120.49	52.557		
1,200.00	1,199.76	15,731.29	7,135.49	5.96	248.45	62.54	1,923.25	-19.14	6,236.84	6,115.72	121.12	51.494		
1,300.00	1,299.72	15,734.04	7,135.49	6.33	248.53	62.46	1,923.22	-21.89	6,141.29	6,019.51	121.78	50.430		
1,400.00	1,399.67	15,736.78	7,135.50	6.71	248.61	62.37	1,923.20	-24.63	6,045.89	5,923.41	122.48	49.364		
1,500.00	1,499.63	15,739.53	7,135.51	7.10	248.69	62.28	1,923.17	-27.37	5,950.64	5,827.43	123.21	48.297		
1,600.00	1,599.58	15,742.27	7,135.51	7.49	248.76	62.20	1,923.14	-30.12	5,855.54	5,731.56	123.98	47.230		
1,700.00	1,699.54	15,745.01	7,135.52	7.88	248.84	62.11	1,923.11	-32.86	5,760.61	5,635.82	124.79	46.161		
1,800.00	1,799.50	15,747.76	7,135.53	8.28	248.92	62.03	1,923.08	-35.61	5,665.85	5,540.20	125.65	45.093		
1,900.00	1,899.45	15,750.50	7,135.53	8.69	249.00	61.94	1,923.06	-38.35	5,571.27	5,444.72	126.55	44.024		
2,000.00	1,999.41	15,753.25	7,135.54	9.10	249.07	61.85	1,923.03	-41.09	5,476.89	5,349.39	127.50	42.956		
2,100.00	2,099.36	15,755.99	7,135.55	9.51	249.15	61.77	1,923.00	-43.84	5,382.70	5,254.21	128.50	41.889		
2,200.00	2,199.32	15,758.73	7,135.55	9.92	249.23	61.68	1,922.97	-46.58	5,288.73	5,159.18	129.55	40.823		
2,300.00	2,299.28	15,761.48	7,135.56	10.34	249.31	61.60	1,922.94	-49.33	5,194.99	5,064.32	130.66	39.759		
2,400.00	2,399.23	15,764.22	7,135.57	10.75	249.38	61.51	1,922.92	-52.07	5,101.47	4,969.64	131.83	38.698		
2,500.00	2,499.19	15,766.97	7,135.57	11.17	249.46	61.42	1,922.89	-54.81	5,008.21	4,875.15	133.06	37.639		
2,600.00	2,599.14	15,769.71	7,135.58	11.60	249.54	61.34	1,922.86	-57.56	4,915.21	4,780.86	134.35	36.584		
2,700.00	2,699.10	15,772.46	7,135.59	12.02	249.62	61.25	1,922.83	-60.30	4,822.49	4,686.78	135.72	35.534		
2,800.00	2,799.06	15,775.20	7,135.59	12.44	249.69	61.17	1,922.80	-63.05	4,730.06	4,592.92	137.15	34.489		
2,900.00	2,899.01	15,777.94	7,135.60	12.87	249.77	61.08	1,922.77	-65.79	4,637.95	4,499.30	138.66	33.449		
3,000.00	2,998.97	15,780.69	7,135.61	13.29	249.85	60.99	1,922.75	-68.53	4,546.17	4,405.93	140.24	32.417		
3,100.00	3,098.92	15,783.43	7,135.61	13.72	249.93	60.91	1,922.72	-71.28	4,454.74	4,312.83	141.91	31.392		
3,200.00	3,198.88	15,786.18	7,135.62	14.14	250.00	60.82	1,922.69	-74.02	4,363.69	4,220.03	143.66	30.375		
3,300.00	3,298.84	15,788.92	7,135.63	14.57	250.08	60.74	1,922.66	-76.77	4,273.03	4,127.53	145.50	29.368		
3,400.00	3,398.79	15,808.40	7,135.63	15.00	250.63	60.65	1,922.63	-79.51	4,182.80	4,035.11	147.69	28.322		
3,500.00	3,498.75	15,805.66	7,135.64	15.43	250.55	60.56	1,922.61	-82.25	4,093.02	3,943.38	149.64	27.353		
3,600.00	3,598.70	15,802.91	7,135.65	15.86	250.48	60.48	1,922.58	-85.00	4,003.72	3,852.03	151.69	26.394		
3,700.00	3,698.66	15,800.17	7,135.65	16.29	250.40	60.39	1,922.55	-87.74	3,914.93	3,761.09	153.84	25.448		
3,800.00	3,798.62	15,802.64	7,135.66	16.72	250.47	60.31	1,922.52	-90.49	3,826.70	3,670.51	156.19	24.500		
3,900.00	3,898.57	15,805.38	7,135.67	17.15	250.55	60.22	1,922.49	-93.23	3,739.06	3,580.41	158.66	23.567		
4,000.00	3,998.53	15,808.13	7,135.67	17.59	250.62	60.13	1,922.47	-95.97	3,652.06	3,490.81	161.25	22.649		
4,100.00	4,098.48	15,810.87	7,135.68	18.02	250.70	60.05	1,922.44	-98.72	3,565.73	3,401.76	163.96	21.747		
4,200.00	4,198.44	15,813.62	7,135.69	18.45	250.78	59.96	1,922.41	-101.46	3,480.13	3,313.32	166.81	20.863		
4,300.00	4,298.40	15,816.36	7,135.70	18.88	250.86	59.88	1,922.38	-104.21	3,395.32	3,225.52	169.80	19.996		
4,400.00	4,398.35	15,819.11	7,135.70	19.32	250.93	59.79	1,922.35	-106.95	3,311.35	3,138.42	172.93	19.149		
4,500.00	4,498.31	15,821.85	7,135.71	19.75	251.01	59.70	1,922.32	-109.69	3,228.29	3,052.08	176.21	18.321		
4,600.00	4,598.26	15,824.59	7,135.72	20.19	251.09	59.62	1,922.30	-112.44	3,146.22	2,966.58	179.64	17.514		
4,700.00	4,698.22	15,827.34	7,135.72	20.62	251.17	59.53	1,922.27	-115.18	3,065.21	2,881.97	183.24	16.728		
4,800.00	4,798.18	15,830.08	7,135.73	21.05	251.24	59.44	1,922.24	-117.93	2,985.35	2,798.36	186.99	15.965		
4,900.00	4,898.13	15,832.83	7,135.74	21.49	251.32	59.36	1,922.21	-120.67	2,906.73	2,715.82	190.91	15.225		
5,000.00	4,998.09	15,835.57	7,135.74	21.92	251.40	59.27	1,922.18	-123.41	2,829.46	2,634.46	195.00	14.510		
5,100.00	5,098.04	15,838.31	7,135.75	22.36	251.48	59.18	1,922.16	-126.16	2,753.65	2,554.39	199.26	13.819		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	15,841.06	7,135.76	22.79	251.55	59.10	1,922.13	-128.90	2,679.43	2,475.74	203.69	13.154		
5,300.00	5,297.96	15,843.80	7,135.76	23.23	251.63	59.01	1,922.10	-131.65	2,606.93	2,398.64	208.28	12.516		
5,400.00	5,397.91	15,846.55	7,135.77	23.67	251.71	58.93	1,922.07	-134.39	2,536.29	2,323.26	213.03	11.906		
5,500.00	5,497.87	15,849.29	7,135.78	24.10	251.79	58.84	1,922.04	-137.13	2,467.68	2,249.76	217.93	11.323		
5,600.00	5,597.82	15,852.04	7,135.78	24.54	251.86	58.75	1,922.02	-139.88	2,401.28	2,178.32	222.95	10.770		
5,700.00	5,697.78	15,854.78	7,135.79	24.97	251.94	58.67	1,921.99	-142.62	2,337.26	2,109.17	228.09	10.247		
5,800.00	5,797.74	15,857.52	7,135.80	25.41	252.02	58.58	1,921.96	-145.37	2,275.84	2,042.52	233.32	9.754		
5,900.00	5,897.69	15,860.27	7,135.80	25.85	252.10	58.49	1,921.93	-148.11	2,217.22	1,978.63	238.59	9.293		
6,000.00	5,997.65	15,863.01	7,135.81	26.28	252.17	58.41	1,921.90	-150.85	2,161.64	1,917.76	243.88	8.864		
6,100.00	6,097.60	15,865.76	7,135.82	26.72	252.25	58.32	1,921.87	-153.60	2,109.34	1,860.21	249.13	8.467		
6,200.00	6,197.56	15,868.50	7,135.82	27.16	252.33	58.24	1,921.85	-156.34	2,060.55	1,806.28	254.28	8.104		
6,300.00	6,297.52	15,871.24	7,135.83	27.59	252.41	58.15	1,921.82	-159.09	2,015.55	1,756.28	259.27	7.774		
6,400.00	6,397.47	15,873.99	7,135.84	28.03	252.48	58.06	1,921.79	-161.83	1,974.59	1,710.57	264.02	7.479		
6,500.00	6,497.43	15,876.73	7,135.84	28.47	252.56	57.98	1,921.76	-164.57	1,937.92	1,669.46	268.47	7.218		
6,600.00	6,597.38	15,879.48	7,135.85	28.90	252.64	57.89	1,921.73	-167.32	1,905.80	1,633.29	272.51	6.993		
6,700.00	6,697.08	15,886.28	7,135.87	29.34	252.83	58.31	1,921.66	-174.12	1,878.51	1,602.32	276.19	6.802		
6,800.00	6,794.63	15,907.99	7,135.92	29.79	253.45	90.14	1,921.44	-195.82	1,856.57	1,576.89	279.68	6.638		
6,900.00	6,887.62	15,944.68	7,136.01	30.24	254.48	91.61	1,921.07	-232.52	1,840.20	1,557.26	282.94	6.504		
7,000.00	6,973.77	16,004.61	7,136.13	30.70	256.18	91.74	1,920.55	-283.29	1,829.08	1,542.87	286.21	6.391		
7,100.00	7,050.94	16,059.06	7,136.29	31.20	257.72	91.08	1,919.89	-346.90	1,822.46	1,533.66	288.80	6.310		
7,200.00	7,117.24	16,133.94	7,136.47	31.77	259.83	89.98	1,919.13	-421.77	1,819.31	1,527.70	291.61	6.239		
7,300.00	7,171.03	16,218.24	7,136.68	32.46	262.22	88.74	1,918.26	-506.06	1,818.46	1,523.92	294.53	6.174		
7,308.65	7,175.05	16,225.91	7,136.70	32.53	262.43	88.64	1,918.18	-513.73	1,818.45	1,523.65	294.80	6.168		
7,400.00	7,211.00	16,309.88	7,136.90	33.29	264.81	87.64	1,917.32	-597.70	1,818.77	1,521.06	297.70	6.109		
7,500.00	7,236.16	16,406.62	7,137.14	34.29	267.55	86.87	1,916.33	-694.43	1,819.30	1,518.09	301.21	6.040		
7,600.00	7,245.89	16,506.07	7,137.38	35.43	270.36	86.58	1,915.31	-793.87	1,819.42	1,514.36	305.06	5.964		
7,700.00	7,245.73	16,606.06	7,137.62	36.72	273.19	86.59	1,914.29	-893.87	1,819.14	1,509.96	309.18	5.884		
7,800.00	7,245.42	16,706.06	7,137.87	38.18	276.02	86.61	1,913.26	-993.86	1,818.85	1,505.38	313.47	5.802		
7,900.00	7,245.10	16,806.06	7,138.11	39.80	278.85	86.63	1,912.24	-1,093.85	1,818.56	1,500.64	317.92	5.720		
8,000.00	7,244.79	16,906.06	7,138.36	41.54	281.68	86.64	1,911.21	-1,193.84	1,818.27	1,495.77	322.50	5.638		
8,100.00	7,244.48	17,006.06	7,138.60	43.41	284.52	86.66	1,910.19	-1,293.83	1,817.98	1,490.79	327.20	5.556		
8,200.00	7,244.17	17,106.06	7,138.85	45.38	287.35	86.68	1,909.16	-1,393.83	1,817.69	1,485.70	332.00	5.475		
8,300.00	7,243.86	17,206.05	7,139.09	47.44	290.18	86.70	1,908.14	-1,493.82	1,817.41	1,480.51	336.89	5.395		
8,400.00	7,243.55	17,306.05	7,139.34	49.58	293.01	86.71	1,907.12	-1,593.81	1,817.12	1,475.25	341.86	5.315		
8,500.00	7,243.23	17,406.05	7,139.58	51.78	295.85	86.73	1,906.09	-1,693.81	1,816.83	1,469.92	346.91	5.237		
8,600.00	7,242.92	17,506.05	7,139.82	54.05	298.68	86.75	1,905.07	-1,793.80	1,816.54	1,464.53	352.01	5.160		
8,700.00	7,242.61	17,606.05	7,140.07	56.37	301.52	86.76	1,904.04	-1,893.79	1,816.25	1,459.08	357.17	5.085		
8,800.00	7,242.30	17,706.04	7,140.31	58.74	304.35	86.78	1,903.02	-1,993.78	1,815.96	1,453.59	362.37	5.011		
8,900.00	7,241.99	17,806.04	7,140.56	61.16	307.19	86.80	1,901.99	-2,093.78	1,815.68	1,448.05	367.62	4.939		
9,000.00	7,241.67	17,906.04	7,140.80	63.61	310.03	86.82	1,900.97	-2,193.77	1,815.39	1,442.48	372.91	4.868		
9,100.00	7,241.36	18,006.04	7,141.05	66.09	312.86	86.83	1,899.94	-2,293.76	1,815.10	1,436.87	378.23	4.799		
9,200.00	7,241.05	18,106.04	7,141.29	68.60	315.70	86.85	1,898.92	-2,393.75	1,814.81	1,431.24	383.57	4.731		
9,300.00	7,240.74	18,206.03	7,141.53	71.13	318.54	86.87	1,897.89	-2,493.75	1,814.53	1,425.58	388.95	4.665		
9,400.00	7,240.43	18,306.03	7,141.78	73.70	321.37	86.88	1,896.87	-2,593.74	1,814.24	1,419.89	394.35	4.601		
9,500.00	7,240.11	18,406.03	7,142.02	76.28	324.21	86.90	1,895.84	-2,693.73	1,813.95	1,414.18	399.77	4.538		
9,600.00	7,239.80	18,506.03	7,142.27	78.88	327.05	86.92	1,894.82	-2,793.72	1,813.66	1,408.46	405.21	4.476		
9,700.00	7,239.49	18,606.03	7,142.51	81.50	329.89	86.93	1,893.79	-2,893.72	1,813.38	1,402.71	410.67	4.416		
9,800.00	7,239.18	18,706.03	7,142.76	84.13	332.73	86.95	1,892.77	-2,993.71	1,813.09	1,396.95	416.14	4.357		
9,900.00	7,238.87	18,806.02	7,143.00	86.78	335.57	86.97	1,891.74	-3,093.70	1,812.80	1,391.18	421.63	4.300		
10,000.00	7,238.55	18,906.02	7,143.24	89.44	338.41	86.99	1,890.72	-3,193.69	1,812.52	1,385.39	427.13	4.243		
10,100.00	7,238.24	19,006.02	7,143.49	92.11	341.25	87.00	1,889.69	-3,293.69	1,812.23	1,379.59	432.64	4.189		
10,117.50	7,238.19	19,018.34	7,143.52	92.58	341.60	87.01	1,889.57	-3,306.01	1,812.19	1,378.72	433.47	4.181 CC		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.93	19,018.34	7,143.52	94.80	341.60	87.01	1,889.57	-3,306.01	1,814.07	1,378.71	435.36	4.167	ES, SF	
10,300.00	7,237.62	19,018.34	7,143.52	97.49	341.60	87.01	1,889.57	-3,306.01	1,821.36	1,384.86	436.49	4.173		
10,400.00	7,237.31	19,018.34	7,143.52	100.19	341.60	87.01	1,889.57	-3,306.01	1,834.08	1,397.70	436.37	4.203		
10,500.00	7,236.99	19,018.34	7,143.52	102.90	341.60	87.01	1,889.57	-3,306.01	1,852.12	1,417.06	435.05	4.257		
10,600.00	7,236.68	19,018.34	7,143.52	105.62	341.60	87.01	1,889.57	-3,306.01	1,875.32	1,442.71	432.61	4.335		
10,700.00	7,236.37	19,018.34	7,143.52	108.35	341.60	87.01	1,889.57	-3,306.01	1,903.51	1,474.36	429.15	4.436		
10,800.00	7,236.06	19,018.34	7,143.52	111.08	341.60	87.01	1,889.57	-3,306.01	1,936.45	1,511.67	424.78	4.559		
10,900.00	7,235.75	19,018.34	7,143.52	113.82	341.60	87.01	1,889.57	-3,306.01	1,973.91	1,554.28	419.64	4.704		
11,000.00	7,235.44	19,018.34	7,143.52	116.56	341.60	87.01	1,889.57	-3,306.01	2,015.65	1,601.81	413.84	4.871		
11,100.00	7,235.12	19,018.34	7,143.52	119.31	341.60	87.01	1,889.57	-3,306.01	2,061.39	1,653.87	407.52	5.058		
11,200.00	7,234.81	19,018.34	7,143.52	122.07	341.60	87.01	1,889.57	-3,306.01	2,110.89	1,710.09	400.80	5.267		
11,300.00	7,234.50	19,018.34	7,143.52	124.83	341.60	87.01	1,889.57	-3,306.01	2,163.87	1,770.10	393.77	5.495		
11,400.00	7,234.19	19,018.34	7,143.52	127.59	341.60	87.01	1,889.57	-3,306.01	2,220.10	1,833.55	386.55	5.743		
11,500.00	7,233.88	19,018.34	7,143.52	130.36	341.60	87.01	1,889.57	-3,306.01	2,279.33	1,900.12	379.21	6.011		
11,600.00	7,233.56	19,018.34	7,143.52	133.13	341.60	87.01	1,889.57	-3,306.01	2,341.33	1,969.51	371.83	6.297		
11,700.00	7,233.25	19,018.34	7,143.52	135.91	341.60	87.01	1,889.57	-3,306.01	2,405.90	2,041.44	364.46	6.601		
11,800.00	7,232.94	19,018.34	7,143.52	138.68	341.60	87.01	1,889.57	-3,306.01	2,472.82	2,115.66	357.16	6.924		
11,900.00	7,232.63	19,018.34	7,143.52	141.47	341.60	87.01	1,889.57	-3,306.01	2,541.92	2,191.95	349.97	7.263		
12,000.00	7,232.32	19,018.34	7,143.52	144.25	341.60	87.01	1,889.57	-3,306.01	2,613.01	2,270.10	342.91	7.620		
12,100.00	7,232.00	19,018.34	7,143.52	147.04	341.60	87.01	1,889.57	-3,306.01	2,685.95	2,349.93	336.02	7.993		
12,200.00	7,231.69	19,018.34	7,143.52	149.83	341.60	87.01	1,889.57	-3,306.01	2,760.59	2,431.28	329.31	8.383		
12,300.00	7,231.38	19,018.34	7,143.52	152.62	341.60	87.01	1,889.57	-3,306.01	2,836.78	2,513.99	322.79	8.788		
12,400.00	7,231.07	19,018.34	7,143.52	155.42	341.60	87.01	1,889.57	-3,306.01	2,914.42	2,597.94	316.47	9.209		
12,500.00	7,230.76	19,018.34	7,143.52	158.22	341.60	87.01	1,889.57	-3,306.01	2,993.38	2,683.02	310.36	9.645		
12,600.00	7,230.44	19,018.34	7,143.52	161.01	341.60	87.01	1,889.57	-3,306.01	3,073.57	2,769.11	304.46	10.095		
12,700.00	7,230.13	19,018.34	7,143.52	163.82	341.60	87.01	1,889.57	-3,306.01	3,154.89	2,856.12	298.77	10.560		
12,800.00	7,229.82	19,018.34	7,143.52	166.62	341.60	87.01	1,889.57	-3,306.01	3,237.26	2,943.98	293.28	11.038		
12,900.00	7,229.51	19,018.34	7,143.52	169.43	341.60	87.01	1,889.57	-3,306.01	3,320.59	3,032.60	288.00	11.530		
13,000.00	7,229.20	19,018.34	7,143.52	172.23	341.60	87.01	1,889.57	-3,306.01	3,404.83	3,121.92	282.91	12.035		
13,100.00	7,228.88	19,018.34	7,143.52	175.04	341.60	87.01	1,889.57	-3,306.01	3,489.89	3,211.88	278.01	12.553		
13,200.00	7,228.57	19,018.34	7,143.52	177.85	341.60	87.01	1,889.57	-3,306.01	3,575.73	3,302.42	273.30	13.083		
13,300.00	7,228.26	19,018.34	7,143.52	180.66	341.60	87.01	1,889.57	-3,306.01	3,662.29	3,393.51	268.77	13.626		
13,400.00	7,227.95	19,018.34	7,143.52	183.48	341.60	87.01	1,889.57	-3,306.01	3,749.51	3,485.09	264.42	14.180		
13,500.00	7,227.64	19,018.34	7,143.52	186.29	341.60	87.01	1,889.57	-3,306.01	3,837.36	3,577.13	260.23	14.746		
13,600.00	7,227.33	19,018.34	7,143.52	189.11	341.60	87.01	1,889.57	-3,306.01	3,925.79	3,669.59	256.20	15.323		
13,700.00	7,227.01	19,018.34	7,143.52	191.92	341.60	87.01	1,889.57	-3,306.01	4,014.76	3,762.44	252.33	15.911		
13,800.00	7,226.70	19,018.34	7,143.52	194.74	341.60	87.01	1,889.57	-3,306.01	4,104.25	3,855.65	248.60	16.509		
13,900.00	7,226.39	19,018.34	7,143.52	197.56	341.60	87.01	1,889.57	-3,306.01	4,194.20	3,949.19	245.02	17.118		
14,000.00	7,226.08	19,018.34	7,143.52	200.38	341.60	87.01	1,889.57	-3,306.01	4,284.60	4,043.04	241.56	17.737		
14,100.00	7,225.77	19,018.34	7,143.52	203.21	341.60	87.01	1,889.57	-3,306.01	4,375.42	4,137.18	238.24	18.365		
14,200.00	7,225.45	19,018.34	7,143.52	206.03	341.60	87.01	1,889.57	-3,306.01	4,466.64	4,231.59	235.05	19.003		
14,300.00	7,225.14	19,018.34	7,143.52	208.85	341.60	87.01	1,889.57	-3,306.01	4,558.22	4,326.25	231.97	19.650		
14,400.00	7,224.83	19,018.34	7,143.52	211.68	341.60	87.01	1,889.57	-3,306.01	4,650.14	4,421.14	229.00	20.306		
14,500.00	7,224.52	19,018.34	7,143.52	214.50	341.60	87.01	1,889.57	-3,306.01	4,742.40	4,516.26	226.14	20.971		
14,600.00	7,224.21	19,018.34	7,143.52	217.33	341.60	87.01	1,889.57	-3,306.01	4,834.96	4,611.58	223.38	21.644		
14,700.00	7,223.89	19,018.34	7,143.52	220.16	341.60	87.01	1,889.57	-3,306.01	4,927.81	4,707.09	220.73	22.325		
14,800.00	7,223.58	19,018.34	7,143.52	222.98	341.60	87.01	1,889.57	-3,306.01	5,020.94	4,802.78	218.16	23.015		
14,900.00	7,223.27	19,018.34	7,143.52	225.81	341.60	87.01	1,889.57	-3,306.01	5,114.33	4,898.64	215.69	23.711		
14,987.41	7,223.00	19,018.34	7,143.52	228.28	341.60	87.01	1,889.57	-3,306.01	5,196.16	4,982.56	213.60	24.327		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1,503.65	1,551.97	3.28	8.08	-118.69	-4,115.12	-7,519.59	8,711.32					
100.00	100.00	1,584.00	1,631.02	3.28	8.51	-118.66	-4,104.24	-7,510.16	8,694.33	8,683.24	11.08	784.372		
200.00	200.00	1,584.00	1,631.02	3.34	8.51	-118.66	-4,104.24	-7,510.16	8,677.28	8,666.17	11.10	781.516		
300.00	300.00	1,677.10	1,722.68	3.44	8.99	-118.61	-4,091.40	-7,500.10	8,661.13	8,649.53	11.60	746.970		
400.00	400.00	1,728.87	1,773.64	3.60	9.26	-118.59	-4,084.09	-7,494.58	8,644.96	8,633.01	11.95	723.221		
500.00	500.00	1,787.67	1,831.59	3.81	9.57	-118.56	-4,076.29	-7,488.41	8,629.34	8,616.95	12.39	696.497		
600.00	600.00	1,885.56	1,928.13	4.05	10.07	-118.52	-4,064.00	-7,477.85	8,613.84	8,600.80	13.04	660.566		
700.00	699.98	1,940.92	1,982.74	4.32	10.36	-60.74	-4,056.93	-7,472.15	8,597.84	8,584.31	13.53	635.238		
800.00	799.94	2,259.63	2,296.74	4.61	12.05	-60.68	-4,016.53	-7,435.67	8,580.39	8,565.15	15.24	562.987		
900.00	899.89	2,483.85	2,516.94	4.92	13.30	-60.64	-3,986.83	-7,405.60	8,560.89	8,544.34	16.55	517.174		
1,000.00	999.85	2,540.11	2,572.14	5.25	13.62	-60.63	-3,979.38	-7,397.71	8,540.81	8,523.69	17.12	498.878		
1,100.00	1,099.80	2,873.88	2,898.90	5.60	15.57	-60.56	-3,931.82	-7,349.34	8,520.35	8,501.36	18.98	448.878		
1,200.00	1,199.76	2,920.16	2,944.07	5.96	15.85	-60.55	-3,924.68	-7,342.26	8,498.09	8,478.55	19.54	434.930		
1,300.00	1,299.72	2,966.58	2,989.45	6.33	16.12	-60.54	-3,917.80	-7,335.31	8,476.43	8,456.32	20.11	421.491		
1,400.00	1,399.67	1,400.00	3,123.54	6.71	7.14	-60.51	-3,898.55	-7,314.32	8,454.84	8,441.44	13.40	630.961		
1,500.00	1,499.63	3,164.90	3,183.40	7.10	17.31	-60.50	-3,890.22	-7,304.43	8,432.91	8,411.15	21.76	387.525		
1,600.00	1,599.58	3,200.00	3,217.79	7.49	17.52	-60.50	-3,885.64	-7,299.11	8,411.89	8,389.59	22.31	377.099		
1,700.00	1,699.54	3,336.24	3,351.25	7.88	18.31	-60.48	-3,867.76	-7,278.36	8,390.74	8,367.43	23.31	359.915		
1,800.00	1,799.50	3,391.00	3,404.90	8.28	18.64	-60.48	-3,860.59	-7,270.11	8,369.84	8,345.88	23.96	349.321		
1,900.00	1,899.45	3,391.00	3,404.90	8.69	18.64	-60.48	-3,860.59	-7,270.11	8,349.79	8,325.43	24.37	342.659		
2,000.00	1,999.41	3,444.18	3,457.11	9.10	18.94	-60.47	-3,853.67	-7,262.74	8,330.25	8,305.23	25.02	332.981		
2,100.00	2,099.36	3,486.00	3,498.27	9.51	19.18	-60.46	-3,848.23	-7,257.70	8,311.79	8,286.17	25.62	324.427		
2,200.00	2,199.32	2,200.00	3,575.46	9.92	12.09	-60.44	-3,837.76	-7,248.57	8,293.73	8,273.61	20.12	412.260		
2,300.00	2,299.28	3,613.96	3,624.19	10.34	19.88	-60.42	-3,830.99	-7,242.91	8,275.85	8,248.81	27.04	306.094		
2,400.00	2,399.23	3,640.20	3,650.04	10.75	20.03	-60.42	-3,827.30	-7,240.26	8,258.82	8,231.24	27.58	299.450		
2,500.00	2,499.19	4,092.01	4,093.01	11.17	22.63	-60.21	-3,754.83	-7,189.76	8,239.06	8,208.97	30.08	273.881		
2,600.00	2,599.14	2,600.00	4,216.72	11.60	13.88	-60.19	-3,737.87	-7,171.18	8,218.34	8,194.80	23.54	349.183		
2,700.00	2,699.10	4,288.70	4,286.68	12.02	23.80	-60.18	-3,728.44	-7,160.31	8,197.08	8,165.25	31.83	257.557		
2,800.00	2,799.06	4,343.00	4,338.99	12.44	24.11	-60.17	-3,721.46	-7,152.73	8,176.93	8,144.42	32.51	251.542		
2,900.00	2,899.01	4,343.00	4,338.99	12.87	24.11	-60.17	-3,721.46	-7,152.73	8,157.23	8,124.28	32.95	247.548		
3,000.00	2,998.97	3,000.00	4,429.87	13.29	16.49	-60.16	-3,709.39	-7,140.75	8,138.19	8,111.08	27.11	300.183		
3,100.00	3,098.92	4,491.29	4,484.75	13.72	24.96	-60.14	-3,701.90	-7,133.72	8,119.34	8,084.85	34.50	235.371		
3,200.00	3,198.88	4,534.00	4,526.77	14.14	25.20	-60.13	-3,696.26	-7,128.61	8,101.13	8,066.00	35.13	230.591		
3,300.00	3,298.84	4,605.50	4,597.22	14.57	25.59	-60.12	-3,687.39	-7,120.16	8,083.41	8,047.52	35.89	225.216		
3,400.00	3,398.79	4,629.00	4,620.39	15.00	25.72	-60.11	-3,684.68	-7,117.35	8,066.25	8,029.81	36.44	221.342		
3,500.00	3,498.75	4,676.87	4,667.65	15.43	25.98	-60.11	-3,679.39	-7,111.91	8,049.76	8,012.67	37.10	216.997		
3,600.00	3,598.70	4,724.00	4,714.28	15.86	26.23	-60.10	-3,674.44	-7,107.17	8,034.27	7,996.52	37.75	212.845		
3,700.00	3,698.66	4,793.72	4,783.32	16.29	26.58	-60.09	-3,667.50	-7,100.33	8,019.36	7,980.87	38.49	208.332		
3,800.00	3,798.62	4,850.25	4,839.30	16.72	26.87	-60.09	-3,662.18	-7,094.55	8,004.52	7,965.34	39.18	204.293		
3,900.00	3,898.57	4,886.65	4,875.38	17.15	27.05	-60.09	-3,658.88	-7,091.11	7,990.44	7,950.65	39.78	200.854		
4,000.00	3,998.53	4,915.00	4,903.51	17.59	27.19	-60.08	-3,656.38	-7,088.61	7,977.14	7,936.79	40.35	197.712		
4,100.00	4,098.48	4,974.75	4,962.84	18.02	27.48	-60.08	-3,651.24	-7,083.74	7,964.48	7,923.44	41.05	194.041		
4,200.00	4,198.44	5,023.71	5,011.49	18.45	27.71	-60.07	-3,647.13	-7,080.08	7,952.47	7,910.77	41.70	190.721		
4,300.00	4,298.40	5,104.00	5,091.34	18.88	28.09	-60.06	-3,640.57	-7,074.75	7,941.21	7,898.73	42.48	186.920		
4,400.00	4,398.35	5,104.00	5,091.34	19.32	28.09	-60.06	-3,640.57	-7,074.75	7,930.37	7,887.45	42.92	184.771		
4,500.00	4,498.31	5,156.73	5,143.82	19.75	28.32	-60.06	-3,636.58	-7,071.69	7,920.33	7,876.75	43.58	181.744		
4,600.00	4,598.26	5,195.48	5,182.43	20.19	28.49	-60.06	-3,633.97	-7,069.67	7,911.08	7,866.91	44.18	179.075		
4,700.00	4,698.22	5,234.28	5,221.12	20.62	28.66	-60.06	-3,631.62	-7,067.84	7,902.60	7,857.83	44.77	176.500		
4,800.00	4,798.18	5,294.00	5,280.71	21.05	28.92	-60.05	-3,628.53	-7,065.41	7,894.96	7,849.50	45.46	173.664		
4,900.00	4,898.13	5,294.00	5,280.71	21.49	28.92	-60.05	-3,628.53	-7,065.41	7,888.00	7,842.12	45.88	171.925		
5,000.00	4,998.09	5,382.23	5,368.80	21.92	29.27	-60.06	-3,624.71	-7,062.37	7,881.48	7,834.80	46.68	168.835		
5,100.00	5,098.04	5,442.56	5,429.06	22.36	29.51	-60.06	-3,622.44	-7,060.54	7,875.55	7,828.19	47.36	166.291		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,502.92	5,489.37	22.79	29.75	-60.06	-3,620.43	-7,058.91	7,870.12	7,822.08	48.04	163.831		
5,300.00	5,297.96	5,579.00	5,565.40	23.23	30.05	-60.07	-3,618.28	-7,057.13	7,865.21	7,816.43	48.78	161.224		
5,400.00	5,397.91	5,624.37	5,610.75	23.67	30.22	-60.08	-3,617.18	-7,056.23	7,860.75	7,811.36	49.39	159.155		
5,500.00	5,497.87	5,685.69	5,672.04	24.10	30.45	-60.08	-3,615.87	-7,055.22	7,856.81	7,806.74	50.06	156.932		
5,600.00	5,597.82	5,747.02	5,733.36	24.54	30.67	-60.09	-3,614.77	-7,054.43	7,853.36	7,802.62	50.74	154.782		
5,700.00	5,697.78	5,808.37	5,794.70	24.97	30.90	-60.10	-3,613.88	-7,053.88	7,850.40	7,798.99	51.41	152.701		
5,800.00	5,797.74	5,864.00	5,850.32	25.41	31.11	-60.10	-3,613.25	-7,053.58	7,847.93	7,795.88	52.06	150.760		
5,900.00	5,897.69	5,945.62	5,931.94	25.85	31.39	-60.11	-3,612.48	-7,053.42	7,845.85	7,793.04	52.81	148.574		
6,000.00	5,997.65	6,020.27	6,006.59	26.28	31.65	-60.12	-3,611.80	-7,053.55	7,844.10	7,790.57	53.53	146.541		
6,100.00	6,097.60	6,094.93	6,081.25	26.72	31.91	-60.13	-3,611.17	-7,053.93	7,842.67	7,788.42	54.25	144.569		
6,200.00	6,197.56	6,179.50	6,165.81	27.16	32.21	-60.14	-3,610.48	-7,054.64	7,841.54	7,786.53	55.01	142.543		
6,300.00	6,297.52	6,293.89	6,280.19	27.59	32.61	-60.15	-3,609.43	-7,055.61	7,840.38	7,784.47	55.91	140.241		
6,400.00	6,397.47	6,408.28	6,394.56	28.03	33.01	-60.16	-3,608.17	-7,056.45	7,839.03	7,782.23	56.80	138.010		
6,500.00	6,497.43	6,503.42	6,489.70	28.47	33.35	-60.17	-3,606.99	-7,057.13	7,837.59	7,779.98	57.61	136.036		
6,600.00	6,597.38	6,592.11	6,578.38	28.90	33.67	-60.18	-3,605.82	-7,057.92	7,836.28	7,777.88	58.40	134.180		
6,700.00	6,697.08	6,680.63	6,666.88	29.34	33.99	-34.53	-3,604.61	-7,058.89	7,831.53	7,772.34	59.19	132.320		
6,800.00	6,794.63	6,756.06	6,742.30	29.79	34.25	-31.89	-3,603.56	-7,059.86	7,813.74	7,753.83	59.91	130.433		
6,900.00	6,887.62	6,817.90	6,804.12	30.24	34.47	-32.37	-3,602.80	-7,060.88	7,783.01	7,722.46	60.55	128.547		
7,000.00	6,973.77	6,875.56	6,861.77	30.70	34.67	-34.23	-3,602.21	-7,062.03	7,740.11	7,678.96	61.14	126.589		
7,100.00	7,050.94	6,927.70	6,913.89	31.20	34.85	-37.38	-3,601.77	-7,063.23	7,686.07	7,624.38	61.69	124.590		
7,200.00	7,117.24	6,973.05	6,959.23	31.77	35.01	-42.07	-3,601.45	-7,064.40	7,622.19	7,560.01	62.19	122.566		
7,300.00	7,171.03	7,010.86	6,997.03	32.46	35.15	-48.77	-3,601.24	-7,065.47	7,550.03	7,487.38	62.64	120.522		
7,400.00	7,211.00	7,061.30	7,047.44	33.29	35.32	-58.29	-3,600.87	-7,066.98	7,471.26	7,408.09	63.17	118.280		
7,500.00	7,236.16	7,094.66	7,080.78	34.29	35.44	-70.83	-3,600.50	-7,068.02	7,387.83	7,324.20	63.63	116.107		
7,600.00	7,245.89	7,109.97	7,096.09	35.43	35.49	-85.78	-3,600.29	-7,068.51	7,301.86	7,237.82	64.04	114.014		
7,700.00	7,245.73	7,113.61	7,099.72	36.72	35.51	-88.01	-3,600.24	-7,068.63	7,215.46	7,151.00	64.46	111.944		
7,800.00	7,245.42	7,117.09	7,103.20	38.18	35.52	-88.07	-3,600.19	-7,068.74	7,129.40	7,064.46	64.95	109.775		
7,900.00	7,245.10	7,120.59	7,106.69	39.80	35.53	-88.12	-3,600.14	-7,068.86	7,043.71	6,978.20	65.51	107.513		
8,000.00	7,244.79	7,124.11	7,110.21	41.54	35.54	-88.18	-3,600.08	-7,068.97	6,958.40	6,892.24	66.17	105.165		
8,100.00	7,244.48	7,127.66	7,113.76	43.41	35.56	-88.23	-3,600.03	-7,069.09	6,873.49	6,806.59	66.90	102.741		
8,200.00	7,244.17	7,131.23	7,117.33	45.38	35.57	-88.29	-3,599.97	-7,069.20	6,788.99	6,721.27	67.72	100.251		
8,300.00	7,243.86	7,134.82	7,120.92	47.44	35.58	-88.35	-3,599.91	-7,069.32	6,704.91	6,636.28	68.62	97.704		
8,400.00	7,243.55	7,138.45	7,124.54	49.58	35.59	-88.40	-3,599.85	-7,069.44	6,621.27	6,551.65	69.61	95.114		
8,500.00	7,243.23	7,142.09	7,128.18	51.78	35.61	-88.46	-3,599.79	-7,069.56	6,538.08	6,467.39	70.69	92.489		
8,600.00	7,242.92	7,145.76	7,131.85	54.05	35.62	-88.52	-3,599.72	-7,069.68	6,455.38	6,383.53	71.85	89.842		
8,700.00	7,242.61	7,149.46	7,135.54	56.37	35.63	-88.58	-3,599.66	-7,069.80	6,373.17	6,300.07	73.10	87.183		
8,800.00	7,242.30	7,153.18	7,139.26	58.74	35.65	-88.63	-3,599.59	-7,069.93	6,291.47	6,217.03	74.44	84.523		
8,900.00	7,241.99	7,156.93	7,143.01	61.16	35.66	-88.69	-3,599.52	-7,070.05	6,210.31	6,134.45	75.86	81.870		
9,000.00	7,241.67	7,160.70	7,146.78	63.61	35.67	-88.75	-3,599.45	-7,070.18	6,129.70	6,052.33	77.36	79.235		
9,100.00	7,241.36	7,164.50	7,150.58	66.09	35.69	-88.81	-3,599.38	-7,070.31	6,049.66	5,970.71	78.95	76.625		
9,200.00	7,241.05	7,168.33	7,154.40	68.60	35.70	-88.87	-3,599.31	-7,070.44	5,970.23	5,889.60	80.63	74.047		
9,300.00	7,240.74	7,172.18	7,158.25	71.13	35.71	-88.93	-3,599.23	-7,070.57	5,891.42	5,809.03	82.39	71.507		
9,400.00	7,240.43	7,176.06	7,162.13	73.70	35.73	-88.99	-3,599.15	-7,070.70	5,813.26	5,729.03	84.23	69.013		
9,500.00	7,240.11	7,179.97	7,166.04	76.28	35.74	-89.05	-3,599.07	-7,070.83	5,735.78	5,649.62	86.16	66.568		
9,600.00	7,239.80	7,183.91	7,169.97	78.88	35.75	-89.12	-3,598.99	-7,070.97	5,659.01	5,570.83	88.18	64.176		
9,700.00	7,239.49	7,187.88	7,173.93	81.50	35.77	-89.18	-3,598.91	-7,071.10	5,582.96	5,492.68	90.28	61.842		
9,800.00	7,239.18	7,191.87	7,177.92	84.13	35.78	-89.24	-3,598.82	-7,071.24	5,507.68	5,415.22	92.46	59.567		
9,900.00	7,238.87	7,195.89	7,181.94	86.78	35.80	-89.30	-3,598.73	-7,071.38	5,433.19	5,338.47	94.73	57.355		
10,000.00	7,238.55	7,199.95	7,185.99	89.44	35.81	-89.37	-3,598.64	-7,071.52	5,359.54	5,262.46	97.08	55.207		
10,100.00	7,238.24	7,204.03	7,190.07	92.11	35.83	-89.43	-3,598.55	-7,071.66	5,286.74	5,187.23	99.52	53.124		
10,200.00	7,237.93	7,208.14	7,194.18	94.80	35.84	-89.50	-3,598.45	-7,071.81	5,214.85	5,112.81	102.04	51.107		
10,300.00	7,237.62	7,212.28	7,198.32	97.49	35.85	-89.56	-3,598.36	-7,071.95	5,143.89	5,039.25	104.64	49.157		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,216.45	7,202.48	100.19	35.87	-89.63	-3,598.26	-7,072.10	5,073.91	4,966.58	107.33	47.274		
10,500.00	7,236.99	7,220.65	7,206.68	102.90	35.88	-89.69	-3,598.16	-7,072.24	5,004.94	4,894.84	110.10	45.457		
10,600.00	7,236.68	7,224.89	7,210.91	105.62	35.90	-89.76	-3,598.05	-7,072.39	4,937.03	4,824.08	112.96	43.706		
10,700.00	7,236.37	7,229.15	7,215.18	108.35	35.91	-89.83	-3,597.95	-7,072.55	4,870.23	4,754.33	115.90	42.022		
10,800.00	7,236.06	7,233.45	7,219.47	111.08	35.93	-89.89	-3,597.84	-7,072.70	4,804.58	4,685.66	118.92	40.402		
10,900.00	7,235.75	7,237.78	7,223.79	113.82	35.94	-89.96	-3,597.73	-7,072.85	4,740.13	4,618.10	122.02	38.846		
11,000.00	7,235.44	7,242.14	7,228.15	116.56	35.96	-90.03	-3,597.61	-7,073.01	4,676.92	4,551.71	125.21	37.354		
11,100.00	7,235.12	7,246.54	7,232.54	119.31	35.97	-90.10	-3,597.49	-7,073.17	4,615.01	4,486.54	128.47	35.923		
11,200.00	7,234.81	7,250.97	7,236.97	122.07	35.99	-90.17	-3,597.37	-7,073.33	4,554.45	4,422.64	131.81	34.553		
11,300.00	7,234.50	7,255.43	7,241.42	124.83	36.01	-90.24	-3,597.25	-7,073.49	4,495.30	4,360.07	135.22	33.243		
11,400.00	7,234.19	7,259.93	7,245.92	127.59	36.02	-90.31	-3,597.13	-7,073.65	4,437.61	4,298.89	138.71	31.991		
11,500.00	7,233.88	7,264.46	7,250.44	130.36	36.04	-90.38	-3,597.00	-7,073.82	4,381.43	4,239.16	142.27	30.796		
11,600.00	7,233.56	7,269.02	7,255.00	133.13	36.05	-90.45	-3,596.87	-7,073.99	4,326.84	4,180.94	145.90	29.657		
11,700.00	7,233.25	7,273.62	7,259.60	135.91	36.07	-90.52	-3,596.74	-7,074.16	4,273.89	4,124.30	149.59	28.571		
11,800.00	7,232.94	7,278.26	7,264.23	138.68	36.09	-90.60	-3,596.60	-7,074.33	4,222.63	4,069.30	153.33	27.539		
11,900.00	7,232.63	7,282.93	7,268.90	141.47	36.10	-90.67	-3,596.46	-7,074.50	4,173.15	4,016.01	157.13	26.558		
12,000.00	7,232.32	7,287.64	7,273.60	144.25	36.12	-90.74	-3,596.32	-7,074.67	4,125.48	3,964.50	160.98	25.627		
12,100.00	7,232.00	7,292.39	7,278.34	147.04	36.14	-90.82	-3,596.17	-7,074.85	4,079.71	3,914.84	164.87	24.744		
12,200.00	7,231.69	7,297.17	7,283.12	149.83	36.15	-90.89	-3,596.02	-7,075.03	4,035.90	3,867.09	168.80	23.909		
12,300.00	7,231.38	7,301.99	7,287.93	152.62	36.17	-90.97	-3,595.87	-7,075.21	3,994.10	3,821.34	172.76	23.120		
12,400.00	7,231.07	7,306.85	7,292.79	155.42	36.19	-91.04	-3,595.71	-7,075.39	3,954.38	3,777.65	176.73	22.375		
12,500.00	7,230.76	7,311.75	7,297.68	158.22	36.20	-91.12	-3,595.55	-7,075.58	3,916.82	3,736.10	180.72	21.674		
12,600.00	7,230.44	7,316.68	7,302.61	161.01	36.22	-91.20	-3,595.39	-7,075.77	3,881.46	3,696.75	184.71	21.014		
12,700.00	7,230.13	7,321.66	7,307.58	163.82	36.24	-91.28	-3,595.22	-7,075.96	3,848.37	3,659.68	188.69	20.396		
12,800.00	7,229.82	7,326.68	7,312.59	166.62	36.26	-91.36	-3,595.05	-7,076.15	3,817.61	3,624.96	192.65	19.816		
12,900.00	7,229.51	7,331.74	7,317.64	169.43	36.28	-91.44	-3,594.88	-7,076.34	3,789.24	3,592.65	196.58	19.275		
13,000.00	7,229.20	7,336.84	7,322.73	172.23	36.29	-91.52	-3,594.70	-7,076.54	3,763.30	3,562.82	200.48	18.771		
13,100.00	7,228.88	7,341.98	7,327.87	175.04	36.31	-91.60	-3,594.52	-7,076.74	3,739.86	3,535.54	204.32	18.303		
13,200.00	7,228.57	7,347.16	7,333.04	177.85	36.33	-91.68	-3,594.33	-7,076.94	3,718.95	3,510.85	208.11	17.870		
13,300.00	7,228.26	7,352.38	7,338.26	180.66	36.35	-91.76	-3,594.14	-7,077.14	3,700.63	3,488.81	211.82	17.471		
13,400.00	7,227.95	7,357.61	7,343.49	183.48	36.37	-91.84	-3,593.95	-7,077.34	3,685.11	3,469.78	215.54	17.113		
13,500.00	7,227.64	7,362.84	7,348.72	186.29	36.39	-91.92	-3,593.76	-7,077.54	3,670.00	3,453.23	219.26	16.778		
13,600.00	7,227.33	7,368.07	7,353.95	189.11	36.41	-92.00	-3,593.57	-7,077.74	3,655.49	3,437.72	223.00	16.474		
13,700.00	7,227.01	7,373.30	7,359.18	191.92	36.43	-92.08	-3,593.38	-7,077.94	3,641.43	3,422.85	226.75	16.199		
13,800.00	7,226.70	7,378.53	7,364.41	194.74	36.45	-92.16	-3,593.19	-7,078.14	3,627.67	3,408.57	230.50	15.953		
13,900.00	7,226.39	7,383.76	7,369.64	197.56	36.47	-92.24	-3,593.00	-7,078.34	3,614.00	3,394.88	234.25	15.734		
13,929.27	7,226.30	7,383.68	7,369.59	198.39	36.29	-91.47	-3,594.99	-7,076.36	3,646.93	3,414.28	232.65	15.675 CC		
14,000.00	7,226.08	7,388.91	7,374.82	201.20	36.31	-91.55	-3,594.80	-7,076.56	3,632.67	3,400.02	236.40	15.422 ES		
14,100.00	7,225.77	7,394.14	7,380.05	204.01	36.33	-91.63	-3,594.61	-7,076.76	3,618.41	3,385.76	240.15	15.176		
14,200.00	7,225.45	7,399.37	7,385.28	206.83	36.35	-91.71	-3,594.42	-7,076.96	3,604.15	3,371.50	243.90	14.954		
14,300.00	7,225.14	7,404.60	7,390.51	209.64	36.37	-91.79	-3,594.23	-7,077.16	3,589.89	3,357.24	247.65	14.744		
14,400.00	7,224.83	7,409.83	7,395.74	212.46	36.39	-91.87	-3,594.04	-7,077.36	3,575.63	3,342.98	251.40	14.554		
14,500.00	7,224.52	7,415.06	7,400.97	215.27	36.41	-91.95	-3,593.85	-7,077.56	3,561.37	3,328.72	255.15	14.374		
14,600.00	7,224.21	7,420.29	7,406.20	218.08	36.43	-92.03	-3,593.66	-7,077.76	3,547.11	3,314.46	258.90	14.204		
14,700.00	7,223.90	7,425.52	7,411.43	220.89	36.45	-92.11	-3,593.47	-7,077.96	3,532.85	3,300.20	262.65	14.044		
14,800.00	7,223.59	7,430.75	7,416.66	223.70	36.47	-92.19	-3,593.28	-7,078.16	3,518.59	3,285.94	266.40	13.894		
14,900.00	7,223.28	7,435.98	7,421.89	226.51	36.49	-92.27	-3,593.09	-7,078.36	3,504.33	3,271.68	270.15	13.754		
14,987.41	7,223.00	7,441.21	7,427.12	229.32	36.51	-92.35	-3,592.90	-7,078.56	3,490.07	3,257.42	273.90	13.624		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	68.00	3.28	3.28	-119.13	-4,270.64	-7,663.19	8,773.11					
100.00	100.00	32.00	100.00	3.28	3.33	-119.13	-4,270.64	-7,663.19	8,772.85	8,766.23	6.61	1,326.819		
200.00	200.00	132.00	200.00	3.34	4.35	-119.13	-4,270.64	-7,663.19	8,772.85	8,765.16	7.69	1,140.733		
300.00	300.00	232.00	300.00	3.44	7.15	-119.13	-4,270.64	-7,663.19	8,772.85	8,762.25	10.60	828.001		
400.00	400.00	332.00	400.00	3.60	10.38	-119.13	-4,270.64	-7,663.19	8,772.85	8,758.87	13.98	627.529		
500.00	500.00	432.00	500.00	3.81	13.73	-119.13	-4,270.64	-7,663.19	8,772.85	8,755.31	17.54	500.188		
600.00	600.00	532.00	600.00	4.05	17.14	-119.13	-4,270.64	-7,663.19	8,772.85	8,751.66	21.19	414.016		
700.00	699.98	631.98	699.98	4.32	20.58	-61.15	-4,270.64	-7,663.19	8,772.02	8,747.13	24.89	352.367		
800.00	799.94	731.94	799.94	4.61	24.03	-61.17	-4,270.64	-7,663.19	8,770.59	8,741.95	28.64	306.262		
900.00	899.89	831.89	899.89	4.92	27.49	-61.19	-4,270.64	-7,663.19	8,769.16	8,736.75	32.41	270.552		
1,000.00	999.85	931.85	999.85	5.25	30.96	-61.20	-4,270.64	-7,663.19	8,767.73	8,731.52	36.21	242.129		
1,100.00	1,099.80	1,031.80	1,099.80	5.60	34.43	-61.22	-4,270.64	-7,663.19	8,766.30	8,726.27	40.03	218.998		
1,200.00	1,199.76	1,131.76	1,199.76	5.96	37.91	-61.24	-4,270.64	-7,663.19	8,764.87	8,721.01	43.86	199.825		
1,300.00	1,299.72	1,231.72	1,299.72	6.33	41.38	-61.25	-4,270.64	-7,663.19	8,763.44	8,715.73	47.71	183.686		
1,400.00	1,399.67	1,331.67	1,399.67	6.71	44.86	-61.27	-4,270.64	-7,663.19	8,762.02	8,710.45	51.57	169.921		
1,500.00	1,499.63	1,431.63	1,499.63	7.10	48.34	-61.29	-4,270.64	-7,663.19	8,760.59	8,705.16	55.43	158.047		
1,600.00	1,599.58	1,531.58	1,599.58	7.49	51.83	-61.30	-4,270.64	-7,663.19	8,759.16	8,699.86	59.30	147.703		
1,700.00	1,699.54	1,631.54	1,699.54	7.88	55.31	-61.32	-4,270.64	-7,663.19	8,757.74	8,694.56	63.18	138.614		
1,800.00	1,799.50	1,731.50	1,799.50	8.28	58.79	-61.34	-4,270.64	-7,663.19	8,756.32	8,689.25	67.06	130.566		
1,900.00	1,899.45	1,831.45	1,899.45	8.69	62.28	-61.36	-4,270.64	-7,663.19	8,754.89	8,683.94	70.95	123.392		
2,000.00	1,999.41	1,931.41	1,999.41	9.10	65.76	-61.37	-4,270.64	-7,663.19	8,753.47	8,678.63	74.84	116.957		
2,100.00	2,099.36	2,031.36	2,099.36	9.51	69.25	-61.39	-4,270.64	-7,663.19	8,752.05	8,673.31	78.74	111.153		
2,200.00	2,199.32	2,131.32	2,199.32	9.92	72.73	-61.41	-4,270.64	-7,663.19	8,750.63	8,667.99	82.64	105.893		
2,300.00	2,299.28	2,231.28	2,299.28	10.34	76.22	-61.42	-4,270.64	-7,663.19	8,749.21	8,662.67	86.54	101.104		
2,400.00	2,399.23	2,331.23	2,399.23	10.75	79.71	-61.44	-4,270.64	-7,663.19	8,747.79	8,657.35	90.44	96.725		
2,500.00	2,499.19	2,431.19	2,499.19	11.17	83.19	-61.46	-4,270.64	-7,663.19	8,746.37	8,652.03	94.34	92.707		
2,600.00	2,599.14	2,531.14	2,599.14	11.60	86.68	-61.47	-4,270.64	-7,663.19	8,744.95	8,646.70	98.25	89.006		
2,700.00	2,699.10	2,631.10	2,699.10	12.02	90.17	-61.49	-4,270.64	-7,663.19	8,743.54	8,641.38	102.16	85.588		
2,800.00	2,799.06	2,731.06	2,799.06	12.44	93.65	-61.51	-4,270.64	-7,663.19	8,742.12	8,636.05	106.07	82.420		
2,900.00	2,899.01	2,831.01	2,899.01	12.87	97.14	-61.53	-4,270.64	-7,663.19	8,740.70	8,630.72	109.98	79.476		
3,000.00	2,998.97	2,930.97	2,998.97	13.29	100.63	-61.54	-4,270.64	-7,663.19	8,739.29	8,625.40	113.89	76.734		
3,100.00	3,098.92	3,030.92	3,098.92	13.72	104.12	-61.56	-4,270.64	-7,663.19	8,737.88	8,620.07	117.80	74.173		
3,200.00	3,198.88	3,130.88	3,198.88	14.14	107.60	-61.58	-4,270.64	-7,663.19	8,736.46	8,614.74	121.72	71.777		
3,300.00	3,298.84	3,230.84	3,298.84	14.57	111.09	-61.59	-4,270.64	-7,663.19	8,735.05	8,609.42	125.63	69.529		
3,400.00	3,398.79	3,330.79	3,398.79	15.00	114.58	-61.61	-4,270.64	-7,663.19	8,733.64	8,604.09	129.55	67.416		
3,500.00	3,498.75	3,430.75	3,498.75	15.43	118.07	-61.63	-4,270.64	-7,663.19	8,732.23	8,598.76	133.46	65.428		
3,600.00	3,598.70	3,530.70	3,598.70	15.86	121.56	-61.65	-4,270.64	-7,663.19	8,730.82	8,593.44	137.38	63.552		
3,700.00	3,698.66	3,630.66	3,698.66	16.29	125.04	-61.66	-4,270.64	-7,663.19	8,729.41	8,588.11	141.30	61.780		
3,800.00	3,798.62	3,730.62	3,798.62	16.72	128.53	-61.68	-4,270.64	-7,663.19	8,728.00	8,582.78	145.22	60.103		
3,900.00	3,898.57	3,830.57	3,898.57	17.15	132.02	-61.70	-4,270.64	-7,663.19	8,726.59	8,577.46	149.13	58.515		
4,000.00	3,998.53	3,930.53	3,998.53	17.59	135.51	-61.71	-4,270.64	-7,663.19	8,725.19	8,572.13	153.05	57.007		
4,100.00	4,098.48	4,030.48	4,098.48	18.02	139.00	-61.73	-4,270.64	-7,663.19	8,723.78	8,566.81	156.97	55.575		
4,200.00	4,198.44	4,130.44	4,198.44	18.45	142.49	-61.75	-4,270.64	-7,663.19	8,722.37	8,561.48	160.89	54.212		
4,300.00	4,298.40	4,230.40	4,298.40	18.88	145.97	-61.77	-4,270.64	-7,663.19	8,720.97	8,556.16	164.81	52.914		
4,400.00	4,398.35	4,330.35	4,398.35	19.32	149.46	-61.78	-4,270.64	-7,663.19	8,719.57	8,550.83	168.73	51.676		
4,500.00	4,498.31	4,430.31	4,498.31	19.75	152.95	-61.80	-4,270.64	-7,663.19	8,718.16	8,545.51	172.66	50.495		
4,600.00	4,598.26	4,530.26	4,598.26	20.19	156.44	-61.82	-4,270.64	-7,663.19	8,716.76	8,540.18	176.58	49.365		
4,700.00	4,698.22	4,630.22	4,698.22	20.62	159.93	-61.83	-4,270.64	-7,663.19	8,715.36	8,534.86	180.50	48.285		
4,800.00	4,798.18	4,730.18	4,798.18	21.05	163.42	-61.85	-4,270.64	-7,663.19	8,713.96	8,529.54	184.42	47.251		
4,900.00	4,898.13	4,830.13	4,898.13	21.49	166.91	-61.87	-4,270.64	-7,663.19	8,712.56	8,524.22	188.34	46.259		
5,000.00	4,998.09	4,930.09	4,998.09	21.92	170.40	-61.89	-4,270.64	-7,663.19	8,711.16	8,518.90	192.26	45.308		
5,100.00	5,098.04	5,030.04	5,098.04	22.36	173.88	-61.90	-4,270.64	-7,663.19	8,709.76	8,513.57	196.19	44.395		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,130.00	5,198.00	22.79	177.37	-61.92	-4,270.64	-7,663.19	8,708.36	8,508.25	200.11	43.518		
5,300.00	5,297.96	5,229.96	5,297.96	23.23	180.86	-61.94	-4,270.64	-7,663.19	8,706.97	8,502.93	204.03	42.674		
5,400.00	5,397.91	5,329.91	5,397.91	23.67	184.35	-61.95	-4,270.64	-7,663.19	8,705.57	8,497.62	207.96	41.862		
5,500.00	5,497.87	5,429.87	5,497.87	24.10	187.84	-61.97	-4,270.64	-7,663.19	8,704.18	8,492.30	211.88	41.081		
5,600.00	5,597.82	5,529.82	5,597.82	24.54	191.33	-61.99	-4,270.64	-7,663.19	8,702.78	8,486.98	215.80	40.327		
5,700.00	5,697.78	5,629.78	5,697.78	24.97	194.82	-62.01	-4,270.64	-7,663.19	8,701.39	8,481.66	219.73	39.601		
5,800.00	5,797.74	5,729.74	5,797.74	25.41	198.31	-62.02	-4,270.64	-7,663.19	8,700.00	8,476.35	223.65	38.900		
5,900.00	5,897.69	5,829.69	5,897.69	25.85	201.80	-62.04	-4,270.64	-7,663.19	8,698.60	8,471.03	227.58	38.223		
6,000.00	5,997.65	5,929.65	5,997.65	26.28	205.29	-62.06	-4,270.64	-7,663.19	8,697.21	8,465.71	231.50	37.569		
6,100.00	6,097.60	6,029.60	6,097.60	26.72	208.77	-62.08	-4,270.64	-7,663.19	8,695.82	8,460.40	235.42	36.937		
6,200.00	6,197.56	6,129.56	6,197.56	27.16	212.26	-62.09	-4,270.64	-7,663.19	8,694.43	8,455.08	239.35	36.325		
6,300.00	6,297.52	6,229.52	6,297.52	27.59	215.75	-62.11	-4,270.64	-7,663.19	8,693.04	8,449.77	243.27	35.734		
6,400.00	6,397.47	6,329.47	6,397.47	28.03	219.24	-62.13	-4,270.64	-7,663.19	8,691.66	8,444.46	247.20	35.161		
6,500.00	6,497.43	6,429.43	6,497.43	28.47	222.73	-62.14	-4,270.64	-7,663.19	8,690.27	8,439.15	251.12	34.606		
6,600.00	6,597.38	6,529.38	6,597.38	28.90	226.22	-62.16	-4,270.64	-7,663.19	8,688.88	8,433.84	255.05	34.068		
6,700.00	6,697.08	6,629.08	6,697.08	29.34	229.70	-36.54	-4,270.64	-7,663.19	8,683.97	8,425.01	258.96	33.533		
6,800.00	6,794.63	6,726.63	6,794.63	29.79	233.10	-33.99	-4,270.64	-7,663.19	8,666.11	8,403.31	262.80	32.976		
6,900.00	6,887.62	6,819.62	6,887.62	30.24	236.35	-34.61	-4,270.64	-7,663.19	8,635.23	8,368.76	266.47	32.407		
7,000.00	6,973.77	6,905.77	6,973.77	30.70	239.36	-36.71	-4,270.64	-7,663.19	8,592.14	8,322.27	269.86	31.839		
7,100.00	7,050.94	6,982.94	7,050.94	31.20	242.05	-40.16	-4,270.64	-7,663.19	8,537.96	8,265.03	272.93	31.283		
7,200.00	7,117.24	7,049.24	7,117.24	31.77	244.37	-45.24	-4,270.64	-7,663.19	8,474.10	8,198.52	275.59	30.749		
7,300.00	7,171.03	7,103.03	7,171.03	32.46	246.24	-52.35	-4,270.64	-7,663.19	8,402.21	8,124.41	277.80	30.245		
7,400.00	7,211.00	7,143.00	7,211.00	33.29	247.64	-61.97	-4,270.64	-7,663.19	8,324.13	8,044.58	279.55	29.777		
7,500.00	7,236.16	7,168.16	7,236.16	34.29	248.52	-74.20	-4,270.64	-7,663.19	8,241.83	7,961.04	280.79	29.352		
7,600.00	7,245.89	7,177.89	7,245.89	35.43	248.86	-88.26	-4,270.64	-7,663.19	8,157.38	7,875.85	281.53	28.975		
7,700.00	7,245.73	7,177.73	7,245.73	36.72	248.85	-90.28	-4,270.64	-7,663.19	8,072.71	7,790.73	281.98	28.629		
7,800.00	7,245.42	7,177.42	7,245.42	38.18	248.84	-90.28	-4,270.64	-7,663.19	7,988.39	7,705.89	282.50	28.277		
7,900.00	7,245.10	7,177.10	7,245.10	39.80	248.83	-90.27	-4,270.64	-7,663.19	7,904.43	7,621.32	283.11	27.920		
8,000.00	7,244.79	7,176.79	7,244.79	41.54	248.82	-90.27	-4,270.64	-7,663.19	7,820.85	7,537.05	283.80	27.557		
8,100.00	7,244.48	7,176.48	7,244.48	43.41	248.81	-90.27	-4,270.64	-7,663.19	7,737.66	7,453.08	284.58	27.189		
8,200.00	7,244.17	7,176.17	7,244.17	45.38	248.80	-90.26	-4,270.64	-7,663.19	7,654.88	7,369.43	285.45	26.817		
8,300.00	7,243.86	7,175.86	7,243.86	47.44	248.79	-90.26	-4,270.64	-7,663.19	7,572.51	7,286.11	286.40	26.440		
8,400.00	7,243.55	7,175.55	7,243.55	49.58	248.77	-90.25	-4,270.64	-7,663.19	7,490.56	7,203.13	287.43	26.060		
8,500.00	7,243.23	7,175.23	7,243.23	51.78	248.76	-90.25	-4,270.64	-7,663.19	7,409.06	7,120.51	288.55	25.676		
8,600.00	7,242.92	7,174.92	7,242.92	54.05	248.75	-90.25	-4,270.64	-7,663.19	7,328.02	7,038.27	289.76	25.290		
8,700.00	7,242.61	7,174.61	7,242.61	56.37	248.74	-90.24	-4,270.64	-7,663.19	7,247.46	6,956.41	291.04	24.902		
8,800.00	7,242.30	7,174.30	7,242.30	58.74	248.73	-90.24	-4,270.64	-7,663.19	7,167.38	6,874.97	292.41	24.511		
8,900.00	7,241.99	7,173.99	7,241.99	61.16	248.72	-90.23	-4,270.64	-7,663.19	7,087.81	6,793.95	293.86	24.120		
9,000.00	7,241.67	7,173.67	7,241.67	63.61	248.71	-90.23	-4,270.64	-7,663.19	7,008.76	6,713.38	295.38	23.728		
9,100.00	7,241.36	7,173.36	7,241.36	66.09	248.70	-90.22	-4,270.64	-7,663.19	6,930.25	6,633.27	296.99	23.335		
9,200.00	7,241.05	7,173.05	7,241.05	68.60	248.69	-90.22	-4,270.64	-7,663.19	6,852.31	6,553.64	298.67	22.943		
9,300.00	7,240.74	7,172.74	7,240.74	71.13	248.68	-90.22	-4,270.64	-7,663.19	6,774.94	6,474.51	300.43	22.551		
9,400.00	7,240.43	7,172.43	7,240.43	73.70	248.67	-90.21	-4,270.64	-7,663.19	6,698.17	6,395.91	302.26	22.160		
9,500.00	7,240.11	7,172.11	7,240.11	76.28	248.66	-90.21	-4,270.64	-7,663.19	6,622.03	6,317.85	304.17	21.771		
9,600.00	7,239.80	7,171.80	7,239.80	78.88	248.64	-90.20	-4,270.64	-7,663.19	6,546.52	6,240.37	306.15	21.383		
9,700.00	7,239.49	7,171.49	7,239.49	81.50	248.63	-90.20	-4,270.64	-7,663.19	6,471.68	6,163.47	308.21	20.998		
9,800.00	7,239.18	7,171.18	7,239.18	84.13	248.62	-90.20	-4,270.64	-7,663.19	6,397.52	6,087.19	310.34	20.615		
9,900.00	7,238.87	7,170.87	7,238.87	86.78	248.61	-90.19	-4,270.64	-7,663.19	6,324.08	6,011.55	312.54	20.235		
10,000.00	7,238.55	7,170.55	7,238.55	89.44	248.60	-90.19	-4,270.64	-7,663.19	6,251.38	5,936.57	314.81	19.858		
10,100.00	7,238.24	7,170.24	7,238.24	92.11	248.59	-90.18	-4,270.64	-7,663.19	6,179.43	5,862.28	317.15	19.484		
10,200.00	7,237.93	7,169.93	7,237.93	94.80	248.58	-90.18	-4,270.64	-7,663.19	6,108.28	5,788.72	319.56	19.114		
10,300.00	7,237.62	7,169.62	7,237.62	97.49	248.57	-90.17	-4,270.64	-7,663.19	6,037.95	5,715.90	322.05	18.749		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,169.31	7,237.31	100.19	248.56	-90.17	-4,270.64	-7,663.19	5,968.46	5,643.86	324.60	18.387		
10,500.00	7,236.99	7,168.99	7,236.99	102.90	248.55	-90.17	-4,270.64	-7,663.19	5,899.85	5,572.62	327.22	18.030		
10,600.00	7,236.68	7,168.68	7,236.68	105.62	248.54	-90.16	-4,270.64	-7,663.19	5,832.14	5,502.23	329.91	17.678		
10,700.00	7,236.37	7,168.37	7,236.37	108.35	248.52	-90.16	-4,270.64	-7,663.19	5,765.38	5,432.71	332.67	17.331		
10,800.00	7,236.06	7,168.06	7,236.06	111.08	248.51	-90.15	-4,270.64	-7,663.19	5,699.58	5,364.09	335.50	16.988		
10,900.00	7,235.75	7,167.75	7,235.75	113.82	248.50	-90.15	-4,270.64	-7,663.19	5,634.80	5,296.41	338.39	16.652		
11,000.00	7,235.44	7,167.44	7,235.44	116.56	248.49	-90.15	-4,270.64	-7,663.19	5,571.06	5,229.71	341.35	16.321		
11,100.00	7,235.12	7,167.12	7,235.12	119.31	248.48	-90.14	-4,270.64	-7,663.19	5,508.39	5,164.02	344.37	15.995		
11,200.00	7,234.81	7,166.81	7,234.81	122.07	248.47	-90.14	-4,270.64	-7,663.19	5,446.84	5,099.38	347.46	15.676		
11,300.00	7,234.50	7,166.50	7,234.50	124.83	248.46	-90.13	-4,270.64	-7,663.19	5,386.44	5,035.83	350.61	15.363		
11,400.00	7,234.19	7,166.19	7,234.19	127.59	248.45	-90.13	-4,270.64	-7,663.19	5,327.23	4,973.42	353.82	15.056		
11,500.00	7,233.88	7,165.88	7,233.88	130.36	248.44	-90.13	-4,270.64	-7,663.19	5,269.26	4,912.17	357.09	14.756		
11,600.00	7,233.56	7,165.56	7,233.56	133.13	248.43	-90.12	-4,270.64	-7,663.19	5,212.56	4,852.15	360.41	14.463		
11,700.00	7,233.25	7,165.25	7,233.25	135.91	248.42	-90.12	-4,270.64	-7,663.19	5,157.18	4,793.38	363.80	14.176		
11,800.00	7,232.94	7,164.94	7,232.94	138.68	248.40	-90.11	-4,270.64	-7,663.19	5,103.16	4,735.93	367.23	13.896		
11,900.00	7,232.63	7,164.63	7,232.63	141.47	248.39	-90.11	-4,270.64	-7,663.19	5,050.53	4,679.82	370.71	13.624		
12,000.00	7,232.32	7,164.32	7,232.32	144.25	248.38	-90.10	-4,270.64	-7,663.19	4,999.36	4,625.11	374.24	13.359		
12,100.00	7,232.00	7,164.00	7,232.00	147.04	248.37	-90.10	-4,270.64	-7,663.19	4,949.67	4,571.86	377.82	13.101		
12,200.00	7,231.69	7,163.69	7,231.69	149.83	248.36	-90.10	-4,270.64	-7,663.19	4,901.53	4,520.09	381.43	12.850		
12,300.00	7,231.38	7,163.38	7,231.38	152.62	248.35	-90.09	-4,270.64	-7,663.19	4,854.96	4,469.88	385.08	12.608		
12,400.00	7,231.07	7,163.07	7,231.07	155.42	248.34	-90.09	-4,270.64	-7,663.19	4,810.03	4,421.26	388.76	12.373		
12,500.00	7,230.76	7,162.76	7,230.76	158.22	248.33	-90.08	-4,270.64	-7,663.19	4,766.76	4,374.29	392.47	12.145		
12,600.00	7,230.44	7,162.44	7,230.44	161.01	248.32	-90.08	-4,270.64	-7,663.19	4,725.22	4,329.02	396.20	11.926		
12,700.00	7,230.13	7,162.13	7,230.13	163.82	248.31	-90.08	-4,270.64	-7,663.19	4,685.45	4,285.50	399.95	11.715		
12,800.00	7,229.82	7,161.82	7,229.82	166.62	248.30	-90.07	-4,270.64	-7,663.19	4,647.48	4,243.78	403.71	11.512		
12,900.00	7,229.51	7,161.51	7,229.51	169.43	248.28	-90.07	-4,270.64	-7,663.19	4,611.38	4,203.91	407.47	11.317		
13,000.00	7,229.20	7,161.20	7,229.20	172.23	248.27	-90.06	-4,270.64	-7,663.19	4,577.17	4,165.94	411.23	11.130		
13,100.00	7,228.88	7,160.88	7,228.88	175.04	248.26	-90.06	-4,270.64	-7,663.19	4,544.91	4,129.93	414.98	10.952		
13,200.00	7,228.57	7,160.57	7,228.57	177.85	248.25	-90.05	-4,270.64	-7,663.19	4,514.63	4,095.91	418.72	10.782		
13,300.00	7,228.26	7,160.26	7,228.26	180.66	248.24	-90.05	-4,270.64	-7,663.19	4,486.38	4,063.94	422.43	10.620		
13,400.00	7,227.95	7,159.95	7,227.95	183.48	248.23	-90.05	-4,270.64	-7,663.19	4,460.19	4,034.07	426.12	10.467		
13,500.00	7,227.64	7,159.64	7,227.64	186.29	248.22	-90.04	-4,270.64	-7,663.19	4,436.10	4,006.33	429.77	10.322		
13,600.00	7,227.33	7,159.33	7,227.33	189.11	248.21	-90.04	-4,270.64	-7,663.19	4,414.14	3,980.77	433.37	10.186		
13,700.00	7,227.01	7,159.01	7,227.01	191.92	248.20	-90.03	-4,270.64	-7,663.19	4,394.35	3,957.43	436.92	10.058		
13,800.00	7,226.70	7,158.70	7,226.70	194.74	248.19	-90.03	-4,270.64	-7,663.19	4,376.76	3,936.34	440.41	9.938		
13,900.00	7,226.39	7,158.39	7,226.39	197.56	248.18	-90.03	-4,270.64	-7,663.19	4,361.39	3,917.55	443.84	9.826		
14,000.00	7,226.08	7,158.08	7,226.08	200.38	248.17	-90.02	-4,270.64	-7,663.19	4,348.26	3,901.07	447.19	9.723		
14,100.00	7,225.77	7,157.77	7,225.77	203.21	248.15	-90.02	-4,270.64	-7,663.19	4,337.40	3,886.94	450.46	9.629		
14,200.00	7,225.45	7,157.45	7,225.45	206.03	248.14	-90.01	-4,270.64	-7,663.19	4,328.83	3,875.18	453.65	9.542		
14,300.00	7,225.14	7,157.14	7,225.14	208.85	248.13	-90.01	-4,270.64	-7,663.19	4,322.55	3,865.81	456.74	9.464		
14,400.00	7,224.83	7,156.83	7,224.83	211.68	248.12	-90.01	-4,270.64	-7,663.19	4,318.58	3,858.85	459.73	9.394		
14,500.00	7,224.52	7,156.52	7,224.52	214.50	248.11	-90.00	-4,270.64	-7,663.19	4,316.92	3,854.31	462.61	9.332		
14,521.56	7,224.45	7,156.45	7,224.45	215.11	248.11	-90.00	-4,270.64	-7,663.19	4,316.87	3,853.65	463.22	9.319 CC		
14,600.00	7,224.21	7,156.21	7,224.21	217.33	248.10	-90.00	-4,270.64	-7,663.19	4,317.58	3,852.20	465.38	9.277 ES		
14,700.00	7,223.89	7,155.89	7,223.89	220.16	248.09	-89.99	-4,270.64	-7,663.19	4,320.56	3,852.51	468.04	9.231		
14,800.00	7,223.58	7,155.58	7,223.58	222.98	248.08	-89.99	-4,270.64	-7,663.19	4,325.84	3,855.26	470.58	9.193		
14,900.00	7,223.27	7,155.27	7,223.27	225.81	248.07	-89.98	-4,270.64	-7,663.19	4,333.43	3,860.42	473.00	9.162		
14,987.41	7,223.00	7,155.00	7,223.00	228.28	248.06	-89.98	-4,270.64	-7,663.19	4,341.93	3,866.92	475.01	9.141 SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	0.00	53.00	3.28	3.28	-108.24	-2,953.24	-8,963.50	9,437.63					
100.00	100.00	47.00	100.00	3.28	3.38	-108.24	-2,953.24	-8,963.50	9,437.48	9,430.82	6.67	1,415.814		
200.00	200.00	147.00	200.00	3.34	4.71	-108.24	-2,953.24	-8,963.50	9,437.48	9,429.43	8.05	1,172.155		
300.00	300.00	247.00	300.00	3.44	7.62	-108.24	-2,953.24	-8,963.50	9,437.48	9,426.42	11.06	852.966		
400.00	400.00	347.00	400.00	3.60	10.87	-108.24	-2,953.24	-8,963.50	9,437.48	9,423.00	14.48	651.847		
500.00	500.00	447.00	500.00	3.81	14.24	-108.24	-2,953.24	-8,963.50	9,437.48	9,419.43	18.05	522.906		
600.00	600.00	547.00	600.00	4.05	17.66	-108.24	-2,953.24	-8,963.50	9,437.48	9,415.78	21.70	434.829		
700.00	699.98	646.98	699.98	4.32	21.10	-50.26	-2,953.24	-8,963.50	9,436.39	9,410.98	25.41	371.339		
800.00	799.94	746.94	799.94	4.61	24.55	-50.27	-2,953.24	-8,963.50	9,434.49	9,405.34	29.16	323.583		
900.00	899.89	846.89	899.89	4.92	28.01	-50.28	-2,953.24	-8,963.50	9,432.60	9,399.66	32.93	286.428		
1,000.00	999.85	946.85	999.85	5.25	31.48	-50.30	-2,953.24	-8,963.50	9,430.70	9,393.97	36.73	256.749		
1,100.00	1,099.80	1,046.80	1,099.80	5.60	34.95	-50.31	-2,953.24	-8,963.50	9,428.80	9,388.25	40.55	232.524		
1,200.00	1,199.76	1,146.76	1,199.76	5.96	38.43	-50.33	-2,953.24	-8,963.50	9,426.91	9,382.53	44.38	212.396		
1,300.00	1,299.72	1,246.72	1,299.72	6.33	41.91	-50.34	-2,953.24	-8,963.50	9,425.02	9,376.79	48.23	195.419		
1,400.00	1,399.67	1,346.67	1,399.67	6.71	45.39	-50.35	-2,953.24	-8,963.50	9,423.12	9,371.03	52.09	180.913		
1,500.00	1,499.63	1,446.63	1,499.63	7.10	48.87	-50.37	-2,953.24	-8,963.50	9,421.23	9,365.28	55.95	168.382		
1,600.00	1,599.58	1,546.58	1,599.58	7.49	52.35	-50.38	-2,953.24	-8,963.50	9,419.34	9,359.51	59.82	157.452		
1,700.00	1,699.54	1,646.54	1,699.54	7.88	55.83	-50.39	-2,953.24	-8,963.50	9,417.44	9,353.74	63.70	147.836		
1,800.00	1,799.50	1,746.50	1,799.50	8.28	59.32	-50.41	-2,953.24	-8,963.50	9,415.55	9,347.97	67.59	139.314		
1,900.00	1,899.45	1,846.45	1,899.45	8.69	62.80	-50.42	-2,953.24	-8,963.50	9,413.66	9,342.19	71.47	131.709		
2,000.00	1,999.41	1,946.41	1,999.41	9.10	66.28	-50.44	-2,953.24	-8,963.50	9,411.77	9,336.40	75.36	124.883		
2,100.00	2,099.36	2,046.36	2,099.36	9.51	69.77	-50.45	-2,953.24	-8,963.50	9,409.88	9,330.62	79.26	118.722		
2,200.00	2,199.32	2,146.32	2,199.32	9.92	73.26	-50.46	-2,953.24	-8,963.50	9,407.99	9,324.83	83.16	113.135		
2,300.00	2,299.28	2,246.28	2,299.28	10.34	76.74	-50.48	-2,953.24	-8,963.50	9,406.10	9,319.04	87.06	108.044		
2,400.00	2,399.23	2,346.23	2,399.23	10.75	80.23	-50.49	-2,953.24	-8,963.50	9,404.21	9,313.25	90.96	103.388		
2,500.00	2,499.19	2,446.19	2,499.19	11.17	83.72	-50.51	-2,953.24	-8,963.50	9,402.33	9,307.46	94.86	99.113		
2,600.00	2,599.14	2,546.14	2,599.14	11.60	87.20	-50.52	-2,953.24	-8,963.50	9,400.44	9,301.67	98.77	95.174		
2,700.00	2,699.10	2,646.10	2,699.10	12.02	90.69	-50.53	-2,953.24	-8,963.50	9,398.55	9,295.87	102.68	91.533		
2,800.00	2,799.06	2,746.06	2,799.06	12.44	94.18	-50.55	-2,953.24	-8,963.50	9,396.67	9,290.08	106.59	88.158		
2,900.00	2,899.01	2,846.01	2,899.01	12.87	97.66	-50.56	-2,953.24	-8,963.50	9,394.78	9,284.28	110.50	85.021		
3,000.00	2,998.97	2,945.97	2,998.97	13.29	101.15	-50.58	-2,953.24	-8,963.50	9,392.89	9,278.48	114.41	82.098		
3,100.00	3,098.92	3,045.92	3,098.92	13.72	104.64	-50.59	-2,953.24	-8,963.50	9,391.01	9,272.69	118.32	79.367		
3,200.00	3,198.88	3,145.88	3,198.88	14.14	108.13	-50.60	-2,953.24	-8,963.50	9,389.13	9,266.89	122.24	76.811		
3,300.00	3,298.84	3,245.84	3,298.84	14.57	111.62	-50.62	-2,953.24	-8,963.50	9,387.24	9,261.09	126.15	74.412		
3,400.00	3,398.79	3,345.79	3,398.79	15.00	115.10	-50.63	-2,953.24	-8,963.50	9,385.36	9,255.29	130.07	72.158		
3,500.00	3,498.75	3,445.75	3,498.75	15.43	118.59	-50.65	-2,953.24	-8,963.50	9,383.48	9,249.50	133.98	70.035		
3,600.00	3,598.70	3,545.70	3,598.70	15.86	122.08	-50.66	-2,953.24	-8,963.50	9,381.60	9,243.70	137.90	68.032		
3,700.00	3,698.66	3,645.66	3,698.66	16.29	125.57	-50.67	-2,953.24	-8,963.50	9,379.72	9,237.90	141.82	66.139		
3,800.00	3,798.62	3,745.62	3,798.62	16.72	129.06	-50.69	-2,953.24	-8,963.50	9,377.84	9,232.10	145.74	64.348		
3,900.00	3,898.57	3,845.57	3,898.57	17.15	132.54	-50.70	-2,953.24	-8,963.50	9,375.96	9,226.30	149.65	62.651		
4,000.00	3,998.53	3,945.53	3,998.53	17.59	136.03	-50.72	-2,953.24	-8,963.50	9,374.08	9,220.50	153.57	61.040		
4,100.00	4,098.48	4,045.48	4,098.48	18.02	139.52	-50.73	-2,953.24	-8,963.50	9,372.20	9,214.71	157.49	59.509		
4,200.00	4,198.44	4,145.44	4,198.44	18.45	143.01	-50.74	-2,953.24	-8,963.50	9,370.32	9,208.91	161.41	58.052		
4,300.00	4,298.40	4,245.40	4,298.40	18.88	146.50	-50.76	-2,953.24	-8,963.50	9,368.44	9,203.11	165.33	56.664		
4,400.00	4,398.35	4,345.35	4,398.35	19.32	149.99	-50.77	-2,953.24	-8,963.50	9,366.56	9,197.31	169.25	55.341		
4,500.00	4,498.31	4,445.31	4,498.31	19.75	153.48	-50.79	-2,953.24	-8,963.50	9,364.69	9,191.51	173.17	54.077		
4,600.00	4,598.26	4,545.26	4,598.26	20.19	156.96	-50.80	-2,953.24	-8,963.50	9,362.81	9,185.72	177.09	52.869		
4,700.00	4,698.22	4,645.22	4,698.22	20.62	160.45	-50.81	-2,953.24	-8,963.50	9,360.94	9,179.92	181.02	51.713		
4,800.00	4,798.18	4,745.18	4,798.18	21.05	163.94	-50.83	-2,953.24	-8,963.50	9,359.06	9,174.12	184.94	50.606		
4,900.00	4,898.13	4,845.13	4,898.13	21.49	167.43	-50.84	-2,953.24	-8,963.50	9,357.19	9,168.33	188.86	49.546		
5,000.00	4,998.09	4,945.09	4,998.09	21.92	170.92	-50.86	-2,953.24	-8,963.50	9,355.31	9,162.53	192.78	48.528		
5,100.00	5,098.04	5,045.04	5,098.04	22.36	174.41	-50.87	-2,953.24	-8,963.50	9,353.44	9,156.74	196.70	47.551		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,145.00	5,198.00	22.79	177.90	-50.88	-2,953.24	-8,963.50	9,351.57	9,150.94	200.63	46.612		
5,300.00	5,297.96	5,244.96	5,297.96	23.23	181.39	-50.90	-2,953.24	-8,963.50	9,349.70	9,145.15	204.55	45.708		
5,400.00	5,397.91	5,344.91	5,397.91	23.67	184.87	-50.91	-2,953.24	-8,963.50	9,347.82	9,139.35	208.47	44.839		
5,500.00	5,497.87	5,444.87	5,497.87	24.10	188.36	-50.93	-2,953.24	-8,963.50	9,345.95	9,133.56	212.40	44.002		
5,600.00	5,597.82	5,544.82	5,597.82	24.54	191.85	-50.94	-2,953.24	-8,963.50	9,344.08	9,127.76	216.32	43.196		
5,700.00	5,697.78	5,644.78	5,697.78	24.97	195.34	-50.96	-2,953.24	-8,963.50	9,342.21	9,121.97	220.24	42.418		
5,800.00	5,797.74	5,744.74	5,797.74	25.41	198.83	-50.97	-2,953.24	-8,963.50	9,340.34	9,116.18	224.17	41.667		
5,900.00	5,897.69	5,844.69	5,897.69	25.85	202.32	-50.98	-2,953.24	-8,963.50	9,338.48	9,110.38	228.09	40.942		
6,000.00	5,997.65	5,944.65	5,997.65	26.28	205.81	-51.00	-2,953.24	-8,963.50	9,336.61	9,104.59	232.02	40.241		
6,100.00	6,097.60	6,044.60	6,097.60	26.72	209.30	-51.01	-2,953.24	-8,963.50	9,334.74	9,098.80	235.94	39.564		
6,200.00	6,197.56	6,144.56	6,197.56	27.16	212.79	-51.03	-2,953.24	-8,963.50	9,332.87	9,093.01	239.86	38.909		
6,300.00	6,297.52	6,244.52	6,297.52	27.59	216.28	-51.04	-2,953.24	-8,963.50	9,331.01	9,087.22	243.79	38.275		
6,400.00	6,397.47	6,344.47	6,397.47	28.03	219.76	-51.05	-2,953.24	-8,963.50	9,329.14	9,081.43	247.71	37.661		
6,500.00	6,497.43	6,444.43	6,497.43	28.47	223.25	-51.07	-2,953.24	-8,963.50	9,327.28	9,075.64	251.64	37.066		
6,600.00	6,597.38	6,544.38	6,597.38	28.90	226.74	-51.08	-2,953.24	-8,963.50	9,325.41	9,069.85	255.56	36.490		
6,700.00	6,697.08	6,644.08	6,697.08	29.34	230.22	-25.40	-2,953.24	-8,963.50	9,319.70	9,060.22	259.48	35.917		
6,800.00	6,794.63	6,741.63	6,794.63	29.79	233.63	-22.59	-2,953.24	-8,963.50	9,299.86	9,036.54	263.32	35.318		
6,900.00	6,887.62	6,834.62	6,887.62	30.24	236.87	-22.75	-2,953.24	-8,963.50	9,265.80	8,998.82	266.97	34.707		
7,000.00	6,973.77	6,920.77	6,973.77	30.70	239.88	-24.17	-2,953.24	-8,963.50	9,218.38	8,948.02	270.36	34.097		
7,100.00	7,050.94	7,002.06	7,050.94	31.20	242.72	-26.78	-2,953.24	-8,963.50	9,158.80	8,885.26	273.54	33.483		
7,200.00	7,117.24	7,064.24	7,117.24	31.77	244.89	-30.95	-2,953.24	-8,963.50	9,088.55	8,812.54	276.01	32.929		
7,300.00	7,171.03	7,118.03	7,171.03	32.46	246.77	-37.50	-2,953.24	-8,963.50	9,009.38	8,731.24	278.14	32.391		
7,400.00	7,211.00	7,158.00	7,211.00	33.29	248.16	-47.89	-2,953.24	-8,963.50	8,923.28	8,643.51	279.77	31.896		
7,500.00	7,236.16	7,183.16	7,236.16	34.29	249.04	-64.24	-2,953.24	-8,963.50	8,832.38	8,551.53	280.85	31.449		
7,600.00	7,245.89	7,207.12	7,245.89	35.43	249.88	-87.02	-2,953.24	-8,963.50	8,738.95	8,457.07	281.88	31.003		
7,700.00	7,245.73	7,207.27	7,245.73	36.72	249.88	-90.48	-2,953.24	-8,963.50	8,645.05	8,362.96	282.09	30.647		
7,800.00	7,245.42	7,207.58	7,245.42	38.18	249.89	-90.48	-2,953.24	-8,963.50	8,551.29	8,268.95	282.34	30.287		
7,900.00	7,245.10	7,207.90	7,245.10	39.80	249.90	-90.47	-2,953.24	-8,963.50	8,457.67	8,175.04	282.64	29.924		
8,000.00	7,244.79	7,208.21	7,244.79	41.54	249.92	-90.47	-2,953.24	-8,963.50	8,364.20	8,081.23	282.97	29.558		
8,100.00	7,244.48	7,208.52	7,244.48	43.41	249.93	-90.46	-2,953.24	-8,963.50	8,270.89	7,987.54	283.35	29.189		
8,200.00	7,244.17	7,208.83	7,244.17	45.38	249.94	-90.46	-2,953.24	-8,963.50	8,177.73	7,893.95	283.78	28.818		
8,300.00	7,243.86	7,209.14	7,243.86	47.44	249.95	-90.45	-2,953.24	-8,963.50	8,084.73	7,800.49	284.24	28.443		
8,400.00	7,243.55	7,209.46	7,243.55	49.58	249.96	-90.44	-2,953.24	-8,963.50	7,991.91	7,707.15	284.76	28.065		
8,500.00	7,243.23	7,209.77	7,243.23	51.78	249.97	-90.44	-2,953.24	-8,963.50	7,899.26	7,613.93	285.32	27.685		
8,600.00	7,242.92	7,189.92	7,242.92	54.05	249.28	-90.43	-2,953.24	-8,963.50	7,806.79	7,521.55	285.23	27.370		
8,700.00	7,242.61	7,189.61	7,242.61	56.37	249.27	-90.43	-2,953.24	-8,963.50	7,714.50	7,428.63	285.88	26.985		
8,800.00	7,242.30	7,189.30	7,242.30	58.74	249.25	-90.42	-2,953.24	-8,963.50	7,622.42	7,335.85	286.57	26.599		
8,900.00	7,241.99	7,188.99	7,241.99	61.16	249.24	-90.41	-2,953.24	-8,963.50	7,530.53	7,243.21	287.32	26.210		
9,000.00	7,241.67	7,188.67	7,241.67	63.61	249.23	-90.41	-2,953.24	-8,963.50	7,438.86	7,150.74	288.12	25.819		
9,100.00	7,241.36	7,188.36	7,241.36	66.09	249.22	-90.40	-2,953.24	-8,963.50	7,347.40	7,058.43	288.97	25.426		
9,200.00	7,241.05	7,188.05	7,241.05	68.60	249.21	-90.40	-2,953.24	-8,963.50	7,256.16	6,966.28	289.88	25.032		
9,300.00	7,240.74	7,187.74	7,240.74	71.13	249.20	-90.39	-2,953.24	-8,963.50	7,165.16	6,874.32	290.84	24.636		
9,400.00	7,240.43	7,187.43	7,240.43	73.70	249.19	-90.38	-2,953.24	-8,963.50	7,074.41	6,782.54	291.87	24.239		
9,500.00	7,240.11	7,187.11	7,240.11	76.28	249.18	-90.38	-2,953.24	-8,963.50	6,983.90	6,690.96	292.95	23.840		
9,600.00	7,239.80	7,186.80	7,239.80	78.88	249.17	-90.37	-2,953.24	-8,963.50	6,893.66	6,599.58	294.08	23.441		
9,700.00	7,239.49	7,186.49	7,239.49	81.50	249.16	-90.37	-2,953.24	-8,963.50	6,803.69	6,508.41	295.28	23.041		
9,800.00	7,239.18	7,186.18	7,239.18	84.13	249.15	-90.36	-2,953.24	-8,963.50	6,714.01	6,417.47	296.54	22.641		
9,900.00	7,238.87	7,185.87	7,238.87	86.78	249.14	-90.35	-2,953.24	-8,963.50	6,624.62	6,326.76	297.86	22.241		
10,000.00	7,238.55	7,185.55	7,238.55	89.44	249.12	-90.35	-2,953.24	-8,963.50	6,535.54	6,236.30	299.24	21.841		
10,100.00	7,238.24	7,185.24	7,238.24	92.11	249.11	-90.34	-2,953.24	-8,963.50	6,446.77	6,146.09	300.68	21.441		
10,200.00	7,237.93	7,184.93	7,237.93	94.80	249.10	-90.34	-2,953.24	-8,963.50	6,358.35	6,056.16	302.19	21.041		
10,300.00	7,237.62	7,184.62	7,237.62	97.49	249.09	-90.33	-2,953.24	-8,963.50	6,270.26	5,966.50	303.76	20.642		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,184.31	7,237.31	100.19	249.08	-90.32	-2,953.24	-8,963.50	6,182.55	5,877.14	305.40	20.244		
10,500.00	7,236.99	7,183.99	7,236.99	102.90	249.07	-90.32	-2,953.24	-8,963.50	6,095.21	5,788.10	307.11	19.847		
10,600.00	7,236.68	7,183.68	7,236.68	105.62	249.06	-90.31	-2,953.24	-8,963.50	6,008.26	5,699.37	308.89	19.451		
10,700.00	7,236.37	7,183.37	7,236.37	108.35	249.05	-90.31	-2,953.24	-8,963.50	5,921.73	5,610.99	310.74	19.057		
10,800.00	7,236.06	7,183.06	7,236.06	111.08	249.04	-90.30	-2,953.24	-8,963.50	5,835.63	5,522.97	312.66	18.665		
10,900.00	7,235.75	7,182.75	7,235.75	113.82	249.03	-90.29	-2,953.24	-8,963.50	5,749.97	5,435.32	314.65	18.274		
11,000.00	7,235.44	7,182.44	7,235.44	116.56	249.02	-90.29	-2,953.24	-8,963.50	5,664.79	5,348.07	316.72	17.886		
11,100.00	7,235.12	7,182.12	7,235.12	119.31	249.00	-90.28	-2,953.24	-8,963.50	5,580.10	5,261.24	318.86	17.500		
11,200.00	7,234.81	7,181.81	7,234.81	122.07	248.99	-90.28	-2,953.24	-8,963.50	5,495.92	5,174.84	321.09	17.117		
11,300.00	7,234.50	7,181.50	7,234.50	124.83	248.98	-90.27	-2,953.24	-8,963.50	5,412.29	5,088.89	323.39	16.736		
11,400.00	7,234.19	7,181.19	7,234.19	127.59	248.97	-90.26	-2,953.24	-8,963.50	5,329.21	5,003.43	325.78	16.358		
11,500.00	7,233.88	7,180.88	7,233.88	130.36	248.96	-90.26	-2,953.24	-8,963.50	5,246.73	4,918.48	328.25	15.984		
11,600.00	7,233.56	7,180.56	7,233.56	133.13	248.95	-90.25	-2,953.24	-8,963.50	5,164.86	4,834.06	330.81	15.613		
11,700.00	7,233.25	7,180.25	7,233.25	135.91	248.94	-90.25	-2,953.24	-8,963.50	5,083.65	4,750.20	333.45	15.246		
11,800.00	7,232.94	7,179.94	7,232.94	138.68	248.93	-90.24	-2,953.24	-8,963.50	5,003.11	4,666.93	336.18	14.882		
11,900.00	7,232.63	7,179.63	7,232.63	141.47	248.92	-90.23	-2,953.24	-8,963.50	4,923.29	4,584.28	339.01	14.523		
12,000.00	7,232.32	7,179.32	7,232.32	144.25	248.91	-90.23	-2,953.24	-8,963.50	4,844.22	4,502.29	341.93	14.167		
12,100.00	7,232.00	7,179.00	7,232.00	147.04	248.90	-90.22	-2,953.24	-8,963.50	4,765.93	4,420.99	344.95	13.816		
12,200.00	7,231.69	7,178.69	7,231.69	149.83	248.88	-90.22	-2,953.24	-8,963.50	4,688.47	4,340.42	348.06	13.470		
12,300.00	7,231.38	7,178.38	7,231.38	152.62	248.87	-90.21	-2,953.24	-8,963.50	4,611.88	4,260.61	351.27	13.129		
12,400.00	7,231.07	7,178.07	7,231.07	155.42	248.86	-90.20	-2,953.24	-8,963.50	4,536.20	4,181.62	354.58	12.793		
12,500.00	7,230.76	7,177.76	7,230.76	158.22	248.85	-90.20	-2,953.24	-8,963.50	4,461.47	4,103.48	358.00	12.462		
12,600.00	7,230.44	7,177.44	7,230.44	161.01	248.84	-90.19	-2,953.24	-8,963.50	4,387.76	4,026.25	361.51	12.137		
12,700.00	7,230.13	7,177.13	7,230.13	163.82	248.83	-90.19	-2,953.24	-8,963.50	4,315.10	3,949.97	365.13	11.818		
12,800.00	7,229.82	7,176.82	7,229.82	166.62	248.82	-90.18	-2,953.24	-8,963.50	4,243.55	3,874.69	368.86	11.505		
12,900.00	7,229.51	7,176.51	7,229.51	169.43	248.81	-90.17	-2,953.24	-8,963.50	4,173.18	3,800.49	372.69	11.197		
13,000.00	7,229.20	7,176.20	7,229.20	172.23	248.80	-90.17	-2,953.24	-8,963.50	4,104.03	3,727.41	376.62	10.897		
13,100.00	7,228.88	7,175.88	7,228.88	175.04	248.79	-90.16	-2,953.24	-8,963.50	4,036.17	3,655.51	380.66	10.603		
13,200.00	7,228.57	7,175.57	7,228.57	177.85	248.78	-90.16	-2,953.24	-8,963.50	3,969.68	3,584.88	384.80	10.316		
13,300.00	7,228.26	7,175.26	7,228.26	180.66	248.76	-90.15	-2,953.24	-8,963.50	3,904.62	3,515.57	389.04	10.036		
13,400.00	7,227.95	7,174.95	7,227.95	183.48	248.75	-90.14	-2,953.24	-8,963.50	3,841.05	3,447.67	393.38	9.764		
13,500.00	7,227.64	7,174.64	7,227.64	186.29	248.74	-90.14	-2,953.24	-8,963.50	3,779.07	3,381.25	397.82	9.500		
13,600.00	7,227.33	7,174.33	7,227.33	189.11	248.73	-90.13	-2,953.24	-8,963.50	3,718.74	3,316.40	402.34	9.243		
13,700.00	7,227.01	7,174.01	7,227.01	191.92	248.72	-90.13	-2,953.24	-8,963.50	3,660.14	3,253.20	406.94	8.994		
13,800.00	7,226.70	7,173.70	7,226.70	194.74	248.71	-90.12	-2,953.24	-8,963.50	3,603.37	3,191.75	411.63	8.754		
13,900.00	7,226.39	7,173.39	7,226.39	197.56	248.70	-90.11	-2,953.24	-8,963.50	3,548.52	3,132.14	416.38	8.522		
14,000.00	7,226.08	7,173.08	7,226.08	200.38	248.69	-90.11	-2,953.24	-8,963.50	3,495.66	3,074.47	421.19	8.299		
14,100.00	7,225.77	7,172.77	7,225.77	203.21	248.68	-90.10	-2,953.24	-8,963.50	3,444.89	3,018.84	426.05	8.086		
14,200.00	7,225.45	7,172.45	7,225.45	206.03	248.67	-90.10	-2,953.24	-8,963.50	3,396.31	2,965.36	430.95	7.881		
14,300.00	7,225.14	7,172.14	7,225.14	208.85	248.66	-90.09	-2,953.24	-8,963.50	3,350.01	2,914.14	435.87	7.686		
14,400.00	7,224.83	7,171.83	7,224.83	211.68	248.65	-90.08	-2,953.24	-8,963.50	3,306.09	2,865.29	440.80	7.500		
14,500.00	7,224.52	7,171.52	7,224.52	214.50	248.63	-90.08	-2,953.24	-8,963.50	3,264.64	2,818.92	445.72	7.324		
14,600.00	7,224.21	7,171.21	7,224.21	217.33	248.62	-90.07	-2,953.24	-8,963.50	3,225.76	2,775.15	450.61	7.159		
14,700.00	7,223.89	7,170.89	7,223.89	220.16	248.61	-90.07	-2,953.24	-8,963.50	3,189.55	2,734.08	455.46	7.003		
14,800.00	7,223.58	7,170.58	7,223.58	222.98	248.60	-90.06	-2,953.24	-8,963.50	3,156.08	2,695.84	460.25	6.857		
14,900.00	7,223.27	7,170.27	7,223.27	225.81	248.59	-90.05	-2,953.24	-8,963.50	3,125.46	2,660.52	464.94	6.722		
14,987.41	7,223.00	7,170.00	7,223.00	228.28	248.58	-90.05	-2,953.24	-8,963.50	3,101.09	2,632.13	468.96	6.613 CC, ES, SF		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	36.00	3.28	3.28	-107.98	-2,920.09	-8,995.76	9,457.90					
100.00	100.00	28.60	64.60	3.28	3.28	-107.98	-2,920.15	-8,995.80	9,457.95	9,451.39	6.57	1,440.600		
200.00	200.00	73.29	109.29	3.34	3.28	-107.99	-2,920.48	-8,996.00	9,458.62	9,452.00	6.62	1,428.666		
300.00	300.00	121.00	156.99	3.44	3.29	-107.99	-2,921.17	-8,996.42	9,459.87	9,453.14	6.73	1,404.765		
400.00	400.00	163.31	199.29	3.60	3.31	-107.99	-2,921.90	-8,997.00	9,461.70	9,454.79	6.91	1,368.889		
500.00	500.00	208.00	243.97	3.81	3.34	-107.99	-2,922.62	-8,997.90	9,464.11	9,456.97	7.15	1,324.374		
600.00	600.00	208.00	243.97	4.05	3.34	-107.99	-2,922.62	-8,997.90	9,467.35	9,459.96	7.39	1,281.231		
700.00	699.98	256.48	292.41	4.32	3.39	-49.96	-2,923.22	-8,999.48	9,470.02	9,462.32	7.70	1,229.433		
800.00	799.94	300.00	335.88	4.61	3.44	-49.96	-2,923.52	-9,001.69	9,472.90	9,464.86	8.05	1,177.134		
900.00	899.89	300.00	335.88	4.92	3.44	-49.96	-2,923.52	-9,001.69	9,476.42	9,468.06	8.36	1,132.952		
1,000.00	999.85	300.00	335.88	5.25	3.44	-49.96	-2,923.52	-9,001.69	9,481.00	9,472.30	8.70	1,089.819		
1,100.00	1,099.80	355.44	391.18	5.60	3.52	-49.96	-2,923.43	-9,005.57	9,485.98	9,476.86	9.13	1,039.522		
1,200.00	1,199.76	391.00	426.60	5.96	3.59	-49.96	-2,923.05	-9,008.70	9,491.96	9,482.42	9.54	994.677		
1,300.00	1,299.72	391.00	426.60	6.33	3.59	-49.96	-2,923.05	-9,008.70	9,498.73	9,488.82	9.91	958.172		
1,400.00	1,399.67	432.47	467.85	6.71	3.67	-49.95	-2,922.25	-9,012.96	9,506.20	9,495.83	10.37	917.029		
1,500.00	1,499.63	481.00	516.00	7.10	3.78	-49.94	-2,920.83	-9,018.78	9,514.59	9,503.74	10.85	877.124		
1,600.00	1,599.58	481.00	516.00	7.49	3.78	-49.94	-2,920.83	-9,018.78	9,523.55	9,512.31	11.24	847.538		
1,700.00	1,699.54	512.56	547.25	7.88	3.86	-49.93	-2,919.66	-9,023.02	9,533.36	9,521.66	11.70	814.769		
1,800.00	1,799.50	540.40	574.78	8.28	3.93	-49.92	-2,918.53	-9,027.03	9,543.93	9,531.77	12.16	784.691		
1,900.00	1,899.45	572.00	605.97	8.69	4.02	-49.91	-2,917.13	-9,031.88	9,555.24	9,542.60	12.64	755.995		
2,000.00	1,999.41	572.00	605.97	9.10	4.02	-49.91	-2,917.13	-9,031.88	9,567.40	9,554.36	13.04	733.720		
2,100.00	2,099.36	572.00	605.97	9.51	4.02	-49.91	-2,917.13	-9,031.88	9,580.59	9,567.15	13.44	712.780		
2,200.00	2,199.32	636.39	669.34	9.92	4.24	-49.88	-2,914.03	-9,042.87	9,593.85	9,579.83	14.02	684.173		
2,300.00	2,299.28	693.00	724.80	10.34	4.44	-49.85	-2,911.13	-9,053.84	9,608.58	9,593.98	14.60	658.339		
2,400.00	2,399.23	693.00	724.80	10.75	4.44	-49.85	-2,911.13	-9,053.84	9,623.59	9,608.59	15.00	641.684		
2,500.00	2,499.19	693.00	724.80	11.17	4.44	-49.85	-2,911.13	-9,053.84	9,639.61	9,624.21	15.40	625.982		
2,600.00	2,599.14	729.82	760.76	11.60	4.59	-49.83	-2,909.30	-9,061.56	9,656.36	9,640.44	15.92	606.512		
2,700.00	2,699.10	761.00	791.15	12.02	4.72	-49.81	-2,907.90	-9,068.37	9,673.91	9,657.48	16.43	588.897		
2,800.00	2,799.06	790.35	819.71	12.44	4.86	-49.80	-2,906.52	-9,075.01	9,692.14	9,675.20	16.94	572.224		
2,900.00	2,899.01	828.99	857.20	12.87	5.04	-49.77	-2,904.34	-9,084.08	9,710.99	9,693.51	17.48	555.610		
3,000.00	2,998.97	855.00	882.38	13.29	5.16	-49.75	-2,902.62	-9,090.39	9,730.47	9,712.50	17.97	541.527		
3,100.00	3,098.92	855.00	882.38	13.72	5.16	-49.75	-2,902.62	-9,090.39	9,750.84	9,732.48	18.36	531.022		
3,200.00	3,198.88	909.54	934.97	14.14	5.46	-49.71	-2,898.76	-9,104.30	9,771.57	9,752.59	18.98	514.956		
3,300.00	3,298.84	949.00	972.84	14.57	5.67	-49.68	-2,895.87	-9,114.99	9,793.30	9,773.76	19.54	501.234		
3,400.00	3,398.79	966.56	989.65	15.00	5.78	-49.67	-2,894.53	-9,119.89	9,815.64	9,795.64	20.01	490.659		
3,500.00	3,498.75	1,023.97	1,044.48	15.43	6.13	-49.62	-2,889.60	-9,136.21	9,838.53	9,817.87	20.66	476.264		
3,600.00	3,598.70	1,044.00	1,063.55	15.86	6.25	-49.60	-2,887.67	-9,142.01	9,861.93	9,840.79	21.14	466.574		
3,700.00	3,698.66	1,085.91	1,103.34	16.29	6.54	-49.56	-2,883.46	-9,154.48	9,885.92	9,864.19	21.73	454.968		
3,800.00	3,798.62	1,139.00	1,153.47	16.72	6.90	-49.50	-2,877.93	-9,171.03	9,910.82	9,888.44	22.38	442.780		
3,900.00	3,898.57	1,139.00	1,153.47	17.15	6.90	-49.50	-2,877.93	-9,171.03	9,936.13	9,913.37	22.76	436.594		
4,000.00	3,998.53	1,139.00	1,153.47	17.59	6.90	-49.50	-2,877.93	-9,171.03	9,962.37	9,939.24	23.13	430.709		
4,100.00	4,098.48	1,190.81	1,202.08	18.02	7.29	-49.45	-2,872.10	-9,188.01	9,989.08	9,965.29	23.79	419.893		
8,200.00	7,244.17	3,982.00	3,740.58	45.38	36.07	-36.41	-2,537.31	-10,297.56	9,940.56	9,883.18	57.38	173.236		
8,300.00	7,243.86	7,303.27	6,924.05	47.44	57.62	-83.02	-2,348.43	-11,006.58	9,844.73	9,770.60	74.13	132.800		
8,400.00	7,243.55	7,304.30	6,925.07	49.58	57.63	-83.05	-2,348.46	-11,006.61	9,747.74	9,673.31	74.43	130.970		
8,500.00	7,243.23	7,305.33	6,926.10	51.78	57.63	-83.07	-2,348.49	-11,006.64	9,650.82	9,576.07	74.75	129.113		
8,600.00	7,242.92	7,306.38	6,927.15	54.05	57.63	-83.09	-2,348.51	-11,006.67	9,553.95	9,478.86	75.09	127.233		
8,700.00	7,242.61	7,307.43	6,928.20	56.37	57.63	-83.12	-2,348.54	-11,006.70	9,457.16	9,381.70	75.46	125.328		
8,800.00	7,242.30	7,308.50	6,929.27	58.74	57.64	-83.15	-2,348.57	-11,006.72	9,360.43	9,284.57	75.85	123.401		
8,900.00	7,241.99	7,309.58	6,930.34	61.16	57.64	-83.17	-2,348.60	-11,006.75	9,263.76	9,187.49	76.28	121.451		
9,000.00	7,241.67	7,310.66	6,931.43	63.61	57.64	-83.20	-2,348.63	-11,006.78	9,167.17	9,090.45	76.72	119.482		
9,100.00	7,241.36	7,311.76	6,932.53	66.09	57.65	-83.22	-2,348.66	-11,006.81	9,070.66	8,993.46	77.20	117.493		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
9,200.00	7,241.05	7,312.87	6,933.63	68.60	57.65	-83.25	-2,348.69	-11,006.84	8,974.22	8,896.51	77.71	115.487		
9,300.00	7,240.74	7,313.99	6,934.75	71.13	57.65	-83.28	-2,348.72	-11,006.88	8,877.86	8,799.61	78.24	113.464		
9,400.00	7,240.43	7,315.12	6,935.88	73.70	57.65	-83.30	-2,348.75	-11,006.91	8,781.58	8,702.77	78.81	111.426		
9,500.00	7,240.11	7,316.27	6,937.03	76.28	57.66	-83.33	-2,348.79	-11,006.94	8,685.38	8,605.97	79.41	109.376		
9,600.00	7,239.80	7,317.42	6,938.18	78.88	57.66	-83.36	-2,348.82	-11,006.97	8,589.27	8,509.23	80.04	107.314		
9,700.00	7,239.49	7,318.59	6,939.35	81.50	57.66	-83.39	-2,348.85	-11,007.01	8,493.25	8,412.55	80.70	105.242		
9,800.00	7,239.18	7,319.77	6,940.53	84.13	57.66	-83.41	-2,348.88	-11,007.04	8,397.32	8,315.92	81.40	103.162		
9,900.00	7,238.87	7,320.96	6,941.72	86.78	57.67	-83.44	-2,348.92	-11,007.07	8,301.49	8,219.36	82.13	101.076		
10,000.00	7,238.55	7,322.16	6,942.92	89.44	57.67	-83.47	-2,348.95	-11,007.11	8,205.75	8,122.86	82.90	98.985		
10,100.00	7,238.24	7,323.38	6,944.13	92.11	57.67	-83.50	-2,348.99	-11,007.14	8,110.12	8,026.42	83.70	96.892		
10,200.00	7,237.93	7,324.61	6,945.36	94.80	57.68	-83.53	-2,349.02	-11,007.18	8,014.60	7,930.05	84.54	94.798		
10,300.00	7,237.62	7,325.85	6,946.61	97.49	57.68	-83.56	-2,349.06	-11,007.22	7,919.18	7,833.76	85.42	92.705		
10,400.00	7,237.31	7,327.11	6,947.86	100.19	57.68	-83.59	-2,349.10	-11,007.25	7,823.88	7,737.54	86.34	90.616		
10,500.00	7,236.99	7,328.38	6,949.13	102.90	57.69	-83.62	-2,349.13	-11,007.29	7,728.70	7,641.40	87.30	88.530		
10,600.00	7,236.68	7,329.66	6,950.41	105.62	57.69	-83.65	-2,349.17	-11,007.33	7,633.64	7,545.34	88.30	86.452		
10,700.00	7,236.37	7,330.96	6,951.71	108.35	57.69	-83.68	-2,349.21	-11,007.37	7,538.71	7,449.37	89.34	84.381		
10,800.00	7,236.06	7,332.27	6,953.02	111.08	57.69	-83.71	-2,349.25	-11,007.41	7,443.91	7,353.48	90.43	82.320		
10,900.00	7,235.75	7,333.60	6,954.34	113.82	57.70	-83.75	-2,349.29	-11,007.45	7,349.25	7,257.69	91.56	80.271		
11,000.00	7,235.44	7,334.94	6,955.68	116.56	57.70	-83.78	-2,349.33	-11,007.49	7,254.73	7,162.00	92.73	78.235		
11,100.00	7,235.12	7,336.30	6,957.04	119.31	57.70	-83.81	-2,349.37	-11,007.53	7,160.36	7,066.40	93.95	76.214		
11,200.00	7,234.81	7,337.67	6,958.41	122.07	57.71	-83.84	-2,349.41	-11,007.57	7,066.14	6,970.92	95.22	74.208		
11,300.00	7,234.50	7,339.05	6,959.80	124.83	57.71	-83.88	-2,349.45	-11,007.61	6,972.08	6,875.54	96.54	72.220		
11,400.00	7,234.19	7,340.46	6,961.20	127.59	57.71	-83.91	-2,349.49	-11,007.65	6,878.19	6,780.28	97.91	70.252		
11,500.00	7,233.88	7,341.88	6,962.61	130.36	57.72	-83.94	-2,349.54	-11,007.70	6,784.48	6,685.15	99.33	68.303		
11,600.00	7,233.56	7,343.31	6,964.05	133.13	57.72	-83.98	-2,349.58	-11,007.74	6,690.94	6,590.14	100.80	66.376		
11,700.00	7,233.25	7,344.76	6,965.50	135.91	57.72	-84.01	-2,349.63	-11,007.79	6,597.60	6,495.26	102.33	64.471		
11,800.00	7,232.94	7,346.23	6,966.97	138.68	57.73	-84.05	-2,349.67	-11,007.83	6,504.45	6,400.53	103.92	62.590		
11,900.00	7,232.63	7,347.72	6,968.45	141.47	57.73	-84.08	-2,349.72	-11,007.88	6,411.51	6,305.94	105.57	60.734		
12,000.00	7,232.32	7,349.22	6,969.95	144.25	57.74	-84.12	-2,349.77	-11,007.93	6,318.78	6,211.51	107.27	58.904		
12,100.00	7,232.00	7,350.74	6,971.47	147.04	57.74	-84.16	-2,349.82	-11,007.98	6,226.28	6,117.24	109.04	57.100		
12,200.00	7,231.69	7,386.00	7,006.69	149.83	57.82	-85.00	-2,351.00	-11,009.18	6,134.19	6,023.24	110.95	55.290		
12,300.00	7,231.38	7,386.00	7,006.69	152.62	57.82	-85.00	-2,351.00	-11,009.18	6,042.15	5,929.31	112.84	53.545		
12,400.00	7,231.07	7,386.00	7,006.69	155.42	57.82	-85.00	-2,351.00	-11,009.18	5,950.37	5,835.56	114.81	51.829		
12,500.00	7,230.76	7,386.00	7,006.69	158.22	57.82	-85.00	-2,351.00	-11,009.18	5,858.86	5,742.01	116.85	50.142		
12,600.00	7,230.44	7,386.00	7,006.69	161.01	57.82	-85.00	-2,351.00	-11,009.18	5,767.63	5,648.67	118.96	48.485		
12,700.00	7,230.13	7,386.00	7,006.69	163.82	57.82	-85.00	-2,351.00	-11,009.18	5,676.69	5,555.55	121.14	46.859		
12,800.00	7,229.82	7,386.00	7,006.69	166.62	57.82	-85.00	-2,351.00	-11,009.18	5,586.07	5,462.66	123.41	45.264		
12,900.00	7,229.51	7,386.00	7,006.69	169.43	57.82	-85.00	-2,351.00	-11,009.18	5,495.77	5,370.01	125.76	43.701		
13,000.00	7,229.20	7,386.00	7,006.69	172.23	57.82	-85.00	-2,351.00	-11,009.18	5,405.81	5,277.62	128.19	42.170		
13,100.00	7,228.88	7,386.00	7,006.69	175.04	57.82	-85.00	-2,351.00	-11,009.18	5,316.22	5,185.50	130.71	40.671		
13,200.00	7,228.57	7,386.00	7,006.69	177.85	57.82	-85.00	-2,351.00	-11,009.18	5,226.99	5,093.67	133.32	39.205		
13,300.00	7,228.26	7,386.00	7,006.69	180.66	57.82	-85.00	-2,351.00	-11,009.18	5,138.17	5,002.14	136.03	37.772		
13,400.00	7,227.95	7,386.00	7,006.69	183.48	57.82	-85.00	-2,351.00	-11,009.18	5,049.76	4,910.93	138.84	36.372		
13,500.00	7,227.64	7,386.00	7,006.69	186.29	57.82	-85.00	-2,351.00	-11,009.18	4,961.80	4,820.06	141.74	35.006		
13,600.00	7,227.33	7,386.00	7,006.69	189.11	57.82	-85.00	-2,351.00	-11,009.18	4,874.30	4,729.54	144.75	33.673		
13,700.00	7,227.01	7,386.00	7,006.69	191.92	57.82	-85.00	-2,351.00	-11,009.18	4,787.28	4,639.41	147.88	32.374		
13,800.00	7,226.70	7,386.00	7,006.69	194.74	57.82	-85.00	-2,351.00	-11,009.18	4,700.79	4,549.68	151.11	31.108		
13,900.00	7,226.39	7,386.00	7,006.69	197.56	57.82	-85.00	-2,351.00	-11,009.18	4,614.84	4,460.38	154.46	29.877		
14,000.00	7,226.08	7,386.00	7,006.69	200.38	57.82	-85.00	-2,351.00	-11,009.18	4,529.47	4,371.53	157.94	28.679		
14,100.00	7,225.77	7,386.00	7,006.69	203.21	57.82	-85.00	-2,351.00	-11,009.18	4,444.70	4,283.16	161.54	27.515		
14,200.00	7,225.45	7,386.00	7,006.69	206.03	57.82	-85.00	-2,351.00	-11,009.18	4,360.59	4,195.32	165.27	26.385		
14,300.00	7,225.14	7,390.53	7,011.21	208.85	57.84	-85.11	-2,351.16	-11,009.34	4,277.15	4,108.00	169.15	25.286		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 121-MWD												<b>Offset Well Error:</b>	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	
14,400.00	7,224.83	7,393.22	7,013.90	211.68	57.84	-85.18	-2,351.26	-11,009.44	4,194.44	4,021.27	173.17	24.222	
14,500.00	7,224.52	7,395.93	7,016.61	214.50	57.85	-85.24	-2,351.35	-11,009.54	4,112.49	3,935.16	177.32	23.192	
14,600.00	7,224.21	7,398.69	7,019.36	217.33	57.86	-85.31	-2,351.45	-11,009.64	4,031.35	3,849.72	181.63	22.195	
14,700.00	7,223.89	7,401.48	7,022.15	220.16	57.87	-85.37	-2,351.55	-11,009.74	3,951.08	3,764.99	186.09	21.232	
14,800.00	7,223.58	7,404.31	7,024.98	222.98	57.87	-85.44	-2,351.65	-11,009.85	3,871.72	3,681.01	190.71	20.302	
14,900.00	7,223.27	7,407.18	7,027.84	225.81	57.88	-85.51	-2,351.75	-11,009.96	3,793.34	3,597.85	195.49	19.404	
14,987.41	7,223.00	7,409.72	7,030.37	228.28	57.89	-85.57	-2,351.84	-11,010.05	3,725.67	3,525.87	199.80	18.647	CC, ES, SF



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	36.00	3.28	3.28	-107.99	-2,910.99	-8,963.21	9,424.13					
100.00	100.00	0.00	36.00	3.28	3.28	-107.99	-2,910.99	-8,963.21	9,424.28	9,417.72	6.56	1,435.558		
200.00	200.00	56.79	92.79	3.34	3.28	-107.99	-2,911.35	-8,963.43	9,425.00	9,418.38	6.62	1,423.786		
300.00	300.00	577.00	612.23	3.44	3.96	-107.91	-2,896.78	-8,962.30	9,424.00	9,416.58	7.42	1,270.853		
400.00	400.00	604.01	639.04	3.60	4.03	-107.89	-2,893.50	-8,962.57	9,421.10	9,413.46	7.64	1,233.161		
500.00	500.00	638.10	672.83	3.81	4.12	-107.87	-2,889.09	-8,963.21	9,418.91	9,410.98	7.93	1,187.285		
600.00	600.00	687.22	721.45	4.05	4.27	-107.82	-2,882.24	-8,964.69	9,417.42	9,409.10	8.32	1,132.356		
700.00	699.98	887.11	918.51	4.32	4.98	-49.67	-2,849.47	-8,971.52	9,414.59	9,405.29	9.30	1,012.313		
800.00	799.94	998.76	1,027.89	4.61	5.46	-49.55	-2,827.50	-8,975.69	9,410.24	9,400.17	10.07	934.668		
900.00	899.89	1,105.64	1,131.80	4.92	5.98	-49.41	-2,803.02	-8,980.75	9,405.90	9,395.00	10.90	863.257		
1,000.00	999.85	1,185.53	1,208.88	5.25	6.40	-49.30	-2,782.51	-8,985.20	9,401.58	9,389.93	11.65	806.838		
1,100.00	1,099.80	1,264.80	1,284.82	5.60	6.86	-49.17	-2,760.37	-8,990.42	9,397.58	9,385.12	12.46	754.485		
1,200.00	1,199.76	1,356.93	1,372.21	5.96	7.44	-49.00	-2,732.08	-8,997.34	9,393.72	9,380.32	13.39	701.378		
1,300.00	1,299.72	1,417.00	1,428.69	6.33	7.85	-48.89	-2,712.23	-9,002.34	9,390.08	9,375.91	14.16	663.009		
1,400.00	1,399.67	1,462.05	1,470.82	6.71	8.17	-48.79	-2,696.81	-9,006.46	9,386.99	9,372.13	14.86	631.635		
1,500.00	1,499.63	1,512.00	1,517.35	7.10	8.53	-48.69	-2,679.39	-9,011.58	9,384.67	9,369.06	15.61	601.363		
1,600.00	1,599.58	1,551.35	1,553.90	7.49	8.83	-48.61	-2,665.44	-9,015.89	9,382.94	9,366.65	16.29	575.860		
1,700.00	1,699.54	1,607.00	1,605.40	7.88	9.25	-48.48	-2,645.35	-9,022.20	9,381.67	9,364.56	17.11	548.180		
1,800.00	1,799.50	1,668.22	1,661.81	8.28	9.74	-48.35	-2,622.69	-9,029.54	9,380.87	9,362.87	18.01	521.007		
1,897.48	1,896.94	1,717.58	1,707.03	8.68	10.15	-48.23	-2,603.97	-9,035.84	9,380.65	9,361.85	18.80	498.895		
1,900.00	1,899.45	1,718.84	1,708.19	8.69	10.16	-48.23	-2,603.48	-9,036.01	9,380.65	9,361.83	18.82	498.341		
2,000.00	1,999.41	1,768.95	1,753.86	9.10	10.58	-48.11	-2,584.01	-9,042.77	9,381.00	9,361.35	19.66	477.278		
2,100.00	2,099.36	1,913.42	1,884.45	9.51	11.87	-47.75	-2,525.63	-9,062.94	9,381.62	9,360.27	21.35	439.379		
2,200.00	2,199.32	1,989.00	1,952.35	9.92	12.57	-47.56	-2,494.13	-9,073.47	9,382.04	9,359.58	22.46	417.699		
2,300.00	2,299.28	2,042.00	1,999.85	10.34	13.07	-47.42	-2,471.88	-9,081.05	9,382.91	9,359.54	23.37	401.441		
2,400.00	2,399.23	2,104.55	2,055.88	10.75	13.66	-47.26	-2,445.67	-9,090.32	9,384.40	9,360.02	24.38	384.909		
2,500.00	2,499.19	2,221.74	2,160.70	11.17	14.79	-46.95	-2,396.15	-9,107.48	9,385.84	9,359.91	25.93	361.968		
2,600.00	2,599.14	2,274.00	2,207.37	11.60	15.30	-46.82	-2,373.95	-9,115.23	9,387.66	9,360.81	26.85	349.576		
2,700.00	2,699.10	2,338.13	2,264.64	12.02	15.94	-46.65	-2,346.79	-9,124.95	9,389.97	9,362.07	27.90	336.555		
2,800.00	2,799.06	2,369.00	2,292.24	12.44	16.24	-46.57	-2,333.79	-9,129.71	9,392.88	9,364.27	28.62	328.228		
2,900.00	2,899.01	2,425.90	2,343.13	12.87	16.80	-46.42	-2,310.00	-9,138.74	9,396.38	9,366.79	29.59	317.526		
3,000.00	2,998.97	2,468.15	2,380.94	13.29	17.22	-46.31	-2,292.47	-9,145.71	9,400.60	9,370.17	30.42	309.006		
3,100.00	3,098.92	2,569.10	2,471.33	13.72	18.22	-46.05	-2,250.77	-9,162.49	9,405.17	9,373.33	31.84	295.388		
3,200.00	3,198.88	2,626.75	2,523.06	14.14	18.79	-45.90	-2,227.22	-9,172.11	9,410.06	9,377.24	32.82	286.708		
3,300.00	3,298.84	2,870.46	2,740.79	14.57	21.26	-45.27	-2,125.12	-9,211.52	9,414.44	9,378.73	35.71	263.642		
3,400.00	3,398.79	2,937.00	2,799.61	15.00	21.95	-45.09	-2,095.90	-9,222.18	9,418.55	9,381.73	36.82	255.809		
3,500.00	3,498.75	2,998.15	2,853.95	15.43	22.58	-44.93	-2,069.66	-9,232.02	9,423.11	9,385.26	37.86	248.915		
3,600.00	3,598.70	3,213.34	3,046.58	15.86	24.77	-44.37	-1,979.41	-9,264.46	9,426.88	9,386.41	40.46	232.964		
3,700.00	3,698.66	3,262.20	3,090.08	16.29	25.27	-44.25	-1,958.40	-9,271.80	9,430.90	9,389.52	41.38	227.927		
3,800.00	3,798.62	3,316.00	3,138.23	16.72	25.82	-44.11	-1,935.85	-9,280.06	9,435.55	9,393.21	42.34	222.860		
3,900.00	3,898.57	3,443.02	3,252.40	17.15	27.10	-43.79	-1,883.54	-9,299.10	9,440.15	9,396.12	44.03	214.414		
4,000.00	3,998.53	3,503.00	3,306.45	17.59	27.70	-43.64	-1,859.17	-9,308.16	9,445.15	9,400.12	45.04	209.726		
4,100.00	4,098.48	3,560.84	3,358.55	18.02	28.28	-43.49	-1,835.71	-9,317.09	9,450.64	9,404.62	46.02	205.350		
4,200.00	4,198.44	3,683.02	3,468.42	18.45	29.51	-43.19	-1,785.73	-9,336.06	9,456.39	9,408.73	47.66	198.408		
4,300.00	4,298.40	3,770.12	3,546.92	18.88	30.38	-42.97	-1,750.38	-9,349.29	9,462.04	9,413.10	48.94	193.346		
4,400.00	4,398.35	4,400.00	3,645.35	19.32	36.71	-42.70	-1,706.08	-9,365.75	9,467.74	9,412.14	55.60	170.276		
4,500.00	4,498.31	3,932.09	3,692.56	19.75	32.03	-42.56	-1,683.92	-9,373.86	9,473.74	9,422.35	51.39	184.352		
4,600.00	4,598.26	3,976.00	3,731.52	20.19	32.49	-42.45	-1,664.93	-9,380.93	9,480.39	9,428.15	52.25	181.460		
4,700.00	4,698.22	4,017.41	3,768.00	20.62	32.94	-42.34	-1,646.60	-9,387.86	9,487.69	9,434.60	53.09	178.701		
4,800.00	4,798.18	4,071.00	3,814.84	21.05	33.53	-42.19	-1,622.31	-9,397.19	9,495.65	9,441.58	54.07	175.614		
4,900.00	4,898.13	4,114.73	3,852.79	21.49	34.03	-42.06	-1,602.04	-9,405.05	9,504.19	9,449.23	54.96	172.939		
5,000.00	4,998.09	4,165.00	3,896.12	21.92	34.60	-41.92	-1,578.29	-9,414.25	9,513.26	9,457.34	55.91	170.140		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,098.04	4,209.48	3,934.29	22.36	35.12	-41.79	-1,557.03	-9,422.61	9,522.94	9,466.12	56.81	167.618		
5,200.00	5,198.00	4,260.00	3,977.55	22.79	35.71	-41.64	-1,532.86	-9,432.41	9,533.32	9,475.53	57.78	164.992		
5,300.00	5,297.96	4,631.88	4,306.71	23.23	39.69	-40.66	-1,372.74	-9,496.96	9,542.19	9,480.02	62.17	153.479		
5,400.00	5,397.91	4,762.60	4,426.17	23.67	40.95	-40.36	-1,323.52	-9,516.79	9,550.12	9,486.30	63.82	149.650		
5,500.00	5,497.87	5,510.59	5,134.53	24.10	46.80	-39.05	-1,100.78	-9,597.86	9,555.39	9,485.33	70.06	136.392		
5,600.00	5,597.82	5,919.02	5,536.82	24.54	48.85	-38.69	-1,034.28	-9,615.85	9,556.25	9,483.76	72.49	131.832		
5,700.00	5,697.78	5,988.95	5,606.45	24.97	49.11	-38.66	-1,027.94	-9,617.18	9,554.76	9,481.57	73.19	130.555		
5,800.00	5,797.74	6,094.97	5,712.20	25.41	49.46	-38.63	-1,020.63	-9,619.05	9,553.41	9,479.43	73.97	129.151		
5,900.00	5,897.69	6,206.76	5,823.81	25.85	49.81	-38.60	-1,014.50	-9,620.64	9,551.87	9,477.12	74.75	127.787		
6,000.00	5,997.65	6,000.00	5,946.77	26.28	49.22	-38.58	-1,009.18	-9,622.04	9,550.18	9,475.59	74.58	128.048		
6,100.00	6,097.60	6,440.35	6,057.19	26.72	50.48	-38.57	-1,005.11	-9,622.92	9,548.21	9,471.93	76.29	125.164		
6,200.00	6,197.56	6,514.00	6,130.81	27.16	50.68	-38.56	-1,002.93	-9,623.58	9,546.45	9,469.53	76.92	124.105		
6,300.00	6,297.52	6,587.32	6,204.10	27.59	50.88	-38.56	-1,001.16	-9,624.41	9,544.97	9,467.41	77.56	123.069		
6,400.00	6,397.47	6,670.55	6,287.31	28.03	51.09	-38.56	-999.61	-9,625.51	9,543.75	9,465.53	78.21	122.023		
6,500.00	6,497.43	6,769.24	6,385.99	28.47	51.34	-38.56	-998.24	-9,626.82	9,542.59	9,463.69	78.90	120.948		
6,600.00	6,597.38	6,866.85	6,483.58	28.90	51.58	-38.57	-997.32	-9,628.08	9,541.44	9,461.87	79.58	119.901		
6,700.00	6,697.08	6,963.05	6,579.77	29.34	51.82	-12.77	-996.65	-9,629.33	9,536.30	9,456.05	80.25	118.831		
6,800.00	6,794.63	7,059.13	6,675.84	29.79	52.05	-9.53	-996.17	-9,630.59	9,516.33	9,435.41	80.92	117.600		
6,900.00	6,887.62	7,152.60	6,769.30	30.24	52.28	-8.90	-995.72	-9,631.82	9,481.39	9,399.83	81.56	116.244		
7,000.00	6,973.77	7,239.40	6,856.09	30.70	52.50	-9.08	-995.31	-9,632.96	9,432.35	9,350.19	82.16	114.808		
7,100.00	7,050.94	7,317.40	6,934.08	31.20	52.69	-9.86	-994.94	-9,633.98	9,370.40	9,287.72	82.68	113.327		
7,200.00	7,117.24	7,384.67	7,001.35	31.77	52.86	-11.35	-994.61	-9,634.86	9,297.08	9,213.95	83.13	111.838		
7,300.00	7,171.03	7,457.98	7,074.65	32.46	53.05	-14.09	-994.27	-9,635.75	9,214.15	9,130.62	83.53	110.310		
7,400.00	7,211.00	7,513.68	7,130.35	33.29	53.19	-19.48	-994.02	-9,636.32	9,123.63	9,039.81	83.83	108.840		
7,500.00	7,236.16	7,548.97	7,165.64	34.29	53.28	-32.65	-993.86	-9,636.64	9,027.83	8,943.82	84.02	107.450		
7,600.00	7,245.89	7,563.21	7,179.87	35.43	53.31	-77.16	-993.79	-9,636.76	8,929.16	8,845.04	84.12	106.151		
7,700.00	7,245.73	7,564.07	7,180.73	36.72	53.32	-87.90	-993.79	-9,636.76	8,829.83	8,745.66	84.16	104.911		
7,800.00	7,245.42	7,564.71	7,181.38	38.18	53.32	-87.93	-993.79	-9,636.77	8,730.51	8,646.30	84.22	103.667		
7,900.00	7,245.10	7,565.35	7,182.02	39.80	53.32	-87.97	-993.79	-9,636.77	8,631.21	8,546.94	84.27	102.418		
8,000.00	7,244.79	7,565.98	7,182.65	41.54	53.32	-88.00	-993.78	-9,636.78	8,531.93	8,447.59	84.34	101.163		
8,100.00	7,244.48	7,566.61	7,183.28	43.41	53.32	-88.04	-993.78	-9,636.78	8,432.66	8,348.25	84.41	99.902		
8,200.00	7,244.17	7,567.24	7,183.90	45.38	53.32	-88.07	-993.78	-9,636.79	8,333.42	8,248.93	84.49	98.635		
8,300.00	7,243.86	7,567.85	7,184.52	47.44	53.33	-88.11	-993.77	-9,636.79	8,234.18	8,149.61	84.57	97.362		
8,400.00	7,243.55	7,568.47	7,185.14	49.58	53.33	-88.14	-993.77	-9,636.80	8,134.97	8,050.31	84.67	96.083		
8,500.00	7,243.23	7,569.08	7,185.75	51.78	53.33	-88.18	-993.77	-9,636.80	8,035.78	7,951.01	84.77	94.798		
8,600.00	7,242.92	7,569.68	7,186.35	54.05	53.33	-88.21	-993.77	-9,636.81	7,936.61	7,851.73	84.88	93.507		
8,700.00	7,242.61	7,570.28	7,186.95	56.37	53.33	-88.24	-993.76	-9,636.81	7,837.46	7,752.46	85.00	92.209		
8,800.00	7,242.30	7,570.88	7,187.55	58.74	53.33	-88.28	-993.76	-9,636.82	7,738.33	7,653.20	85.12	90.906		
8,900.00	7,241.99	7,571.47	7,188.14	61.16	53.33	-88.31	-993.76	-9,636.82	7,639.22	7,553.96	85.26	89.596		
9,000.00	7,241.67	7,572.06	7,188.73	63.61	53.34	-88.34	-993.76	-9,636.83	7,540.14	7,454.73	85.41	88.280		
9,100.00	7,241.36	7,572.64	7,189.31	66.09	53.34	-88.38	-993.75	-9,636.83	7,441.08	7,355.51	85.57	86.958		
9,200.00	7,241.05	7,573.22	7,189.89	68.60	53.34	-88.41	-993.75	-9,636.84	7,342.05	7,256.30	85.74	85.629		
9,300.00	7,240.74	7,573.79	7,190.46	71.13	53.34	-88.44	-993.75	-9,636.84	7,243.04	7,157.11	85.93	84.294		
9,400.00	7,240.43	7,574.36	7,191.03	73.70	53.34	-88.47	-993.75	-9,636.84	7,144.06	7,057.94	86.12	82.953		
9,500.00	7,240.11	7,574.93	7,191.60	76.28	53.34	-88.50	-993.74	-9,636.85	7,045.11	6,958.78	86.33	81.606		
9,600.00	7,239.80	7,575.49	7,192.16	78.88	53.34	-88.53	-993.74	-9,636.85	6,946.19	6,859.64	86.55	80.252		
9,700.00	7,239.49	7,576.05	7,192.71	81.50	53.35	-88.57	-993.74	-9,636.86	6,847.30	6,760.51	86.79	78.892		
9,800.00	7,239.18	7,576.60	7,193.27	84.13	53.35	-88.60	-993.74	-9,636.86	6,748.44	6,661.40	87.05	77.526		
9,900.00	7,238.87	7,577.15	7,193.82	86.78	53.35	-88.63	-993.73	-9,636.87	6,649.62	6,562.30	87.32	76.154		
10,000.00	7,238.55	7,577.70	7,194.36	89.44	53.35	-88.66	-993.73	-9,636.87	6,550.84	6,463.23	87.61	74.776		
10,100.00	7,238.24	7,578.24	7,194.90	92.11	53.35	-88.69	-993.73	-9,636.87	6,452.09	6,364.18	87.91	73.392		
10,200.00	7,237.93	7,578.77	7,195.44	94.80	53.35	-88.72	-993.73	-9,636.88	6,353.38	6,265.14	88.24	72.003		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	7,579.31	7,195.97	97.49	53.35	-88.75	-993.72	-9,636.88	6,254.71	6,166.12	88.58	70.608		
10,400.00	7,237.31	7,579.84	7,196.50	100.19	53.36	-88.78	-993.72	-9,636.89	6,156.08	6,067.13	88.95	69.207		
10,500.00	7,236.99	7,580.36	7,197.03	102.90	53.36	-88.81	-993.72	-9,636.89	6,057.50	5,968.16	89.34	67.801		
10,600.00	7,236.68	7,580.89	7,197.55	105.62	53.36	-88.84	-993.72	-9,636.89	5,958.97	5,869.21	89.76	66.391		
10,700.00	7,236.37	7,581.40	7,198.07	108.35	53.36	-88.87	-993.71	-9,636.90	5,860.48	5,770.29	90.20	64.976		
10,800.00	7,236.06	7,581.92	7,198.59	111.08	53.36	-88.89	-993.71	-9,636.90	5,762.05	5,671.39	90.66	63.556		
10,900.00	7,235.75	7,582.43	7,199.10	113.82	53.36	-88.92	-993.71	-9,636.91	5,663.68	5,572.52	91.16	62.132		
11,000.00	7,235.44	7,582.94	7,199.60	116.56	53.36	-88.95	-993.71	-9,636.91	5,565.36	5,473.68	91.68	60.705		
11,100.00	7,235.12	7,583.44	7,200.11	119.31	53.37	-88.98	-993.71	-9,636.91	5,467.10	5,374.86	92.23	59.274		
11,200.00	7,234.81	7,583.94	7,200.61	122.07	53.37	-89.01	-993.70	-9,636.92	5,368.90	5,276.08	92.82	57.840		
11,300.00	7,234.50	7,584.44	7,201.11	124.83	53.37	-89.03	-993.70	-9,636.92	5,270.78	5,177.33	93.45	56.404		
11,400.00	7,234.19	7,584.93	7,201.60	127.59	53.37	-89.06	-993.70	-9,636.92	5,172.72	5,078.62	94.11	54.966		
11,500.00	7,233.88	7,585.42	7,202.09	130.36	53.37	-89.09	-993.70	-9,636.93	5,074.75	4,979.94	94.81	53.526		
11,600.00	7,233.56	7,585.91	7,202.58	133.13	53.37	-89.12	-993.70	-9,636.93	4,976.85	4,881.30	95.55	52.086		
11,700.00	7,233.25	7,586.40	7,203.06	135.91	53.37	-89.14	-993.69	-9,636.93	4,879.04	4,782.70	96.34	50.646		
11,800.00	7,232.94	7,586.88	7,203.54	138.68	53.37	-89.17	-993.69	-9,636.94	4,781.31	4,684.14	97.17	49.205		
11,900.00	7,232.63	7,587.35	7,204.02	141.47	53.38	-89.20	-993.69	-9,636.94	4,683.69	4,585.63	98.05	47.767		
12,000.00	7,232.32	7,587.83	7,204.49	144.25	53.38	-89.22	-993.69	-9,636.94	4,586.16	4,487.17	98.99	46.330		
12,100.00	7,232.00	7,588.30	7,204.96	147.04	53.38	-89.25	-993.68	-9,636.95	4,488.75	4,388.77	99.98	44.895		
12,200.00	7,231.69	7,588.77	7,205.43	149.83	53.38	-89.28	-993.68	-9,636.95	4,391.45	4,290.41	101.03	43.465		
12,300.00	7,231.38	7,589.23	7,205.89	152.62	53.38	-89.30	-993.68	-9,636.95	4,294.27	4,192.12	102.15	42.039		
12,400.00	7,231.07	7,589.69	7,206.36	155.42	53.38	-89.33	-993.68	-9,636.96	4,197.23	4,093.90	103.33	40.618		
12,500.00	7,230.76	7,590.15	7,206.81	158.22	53.38	-89.35	-993.68	-9,636.96	4,100.33	3,995.74	104.59	39.203		
12,600.00	7,230.44	7,590.60	7,207.27	161.01	53.38	-89.38	-993.67	-9,636.96	4,003.58	3,897.66	105.93	37.796		
12,700.00	7,230.13	7,591.06	7,207.72	163.82	53.38	-89.40	-993.67	-9,636.97	3,907.00	3,799.66	107.34	36.398		
12,800.00	7,229.82	7,591.51	7,208.17	166.62	53.39	-89.43	-993.67	-9,636.97	3,810.59	3,701.75	108.85	35.009		
12,900.00	7,229.51	7,591.95	7,208.62	169.43	53.39	-89.45	-993.67	-9,636.97	3,714.37	3,603.93	110.45	33.631		
13,000.00	7,229.20	7,592.40	7,209.06	172.23	53.39	-89.48	-993.67	-9,636.98	3,618.36	3,506.22	112.15	32.265		
13,100.00	7,228.88	7,592.84	7,209.50	175.04	53.39	-89.50	-993.67	-9,636.98	3,522.57	3,408.61	113.96	30.912		
13,200.00	7,228.57	7,593.27	7,209.94	177.85	53.39	-89.53	-993.66	-9,636.98	3,427.02	3,311.14	115.88	29.573		
13,300.00	7,228.26	7,593.71	7,210.37	180.66	53.39	-89.55	-993.66	-9,636.99	3,331.73	3,213.80	117.94	28.250		
13,400.00	7,227.95	7,594.14	7,210.81	183.48	53.39	-89.58	-993.66	-9,636.99	3,236.73	3,116.60	120.12	26.945		
13,500.00	7,227.64	7,594.57	7,211.24	186.29	53.39	-89.60	-993.66	-9,636.99	3,142.03	3,019.57	122.46	25.658		
13,600.00	7,227.33	7,595.00	7,211.66	189.11	53.39	-89.62	-993.66	-9,637.00	3,047.67	2,922.72	124.95	24.391		
13,700.00	7,227.01	7,595.42	7,212.09	191.92	53.40	-89.65	-993.65	-9,637.00	2,953.69	2,826.07	127.62	23.145		
13,800.00	7,226.70	7,595.84	7,212.51	194.74	53.40	-89.67	-993.65	-9,637.00	2,860.11	2,729.65	130.47	21.922		
13,900.00	7,226.39	7,596.26	7,212.93	197.56	53.40	-89.70	-993.65	-9,637.00	2,766.98	2,633.47	133.52	20.724		
14,000.00	7,226.08	7,596.68	7,213.34	200.38	53.40	-89.72	-993.65	-9,637.01	2,674.35	2,537.57	136.79	19.551		
14,100.00	7,225.77	7,597.09	7,213.75	203.21	53.40	-89.74	-993.65	-9,637.01	2,582.27	2,441.98	140.29	18.407		
14,200.00	7,225.45	7,597.50	7,214.16	206.03	53.40	-89.76	-993.64	-9,637.01	2,490.80	2,346.75	144.05	17.291		
14,300.00	7,225.14	7,597.91	7,214.57	208.85	53.40	-89.79	-993.64	-9,637.02	2,400.01	2,251.91	148.10	16.206		
14,400.00	7,224.83	7,598.31	7,214.98	211.68	53.40	-89.81	-993.64	-9,637.02	2,309.98	2,157.53	152.44	15.153		
14,500.00	7,224.52	7,598.72	7,215.38	214.50	53.40	-89.83	-993.64	-9,637.02	2,220.80	2,063.68	157.12	14.134		
14,600.00	7,224.21	7,599.12	7,215.78	217.33	53.40	-89.86	-993.64	-9,637.02	2,132.59	1,970.42	162.16	13.151		
14,700.00	7,223.89	7,599.51	7,216.18	220.16	53.41	-89.88	-993.64	-9,637.03	2,045.45	1,877.86	167.59	12.205		
14,800.00	7,223.58	7,599.91	7,216.57	222.98	53.41	-89.90	-993.63	-9,637.03	1,959.55	1,786.11	173.44	11.298		
14,900.00	7,223.27	7,600.30	7,216.97	225.81	53.41	-89.92	-993.63	-9,637.03	1,875.04	1,695.30	179.74	10.432		
14,987.41	7,223.00	7,600.64	7,217.31	228.28	53.41	-89.94	-993.63	-9,637.04	1,802.48	1,616.83	185.65	9.709 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	2,233.63	2,165.23	3.28	15.63	-105.02	-2,346.85	-8,747.61	9,312.17				
100.00	100.00	2,269.62	2,198.18	3.28	15.95	-104.94	-2,333.03	-8,743.27	9,289.25	9,271.10	18.15	511.665	
200.00	200.00	2,311.30	2,236.41	3.34	16.32	-104.85	-2,317.13	-8,738.48	9,267.00	9,248.48	18.52	500.435	
300.00	300.00	2,521.88	2,429.40	3.44	18.20	-104.40	-2,236.67	-8,713.53	9,244.60	9,224.30	20.30	455.297	
400.00	400.00	2,563.76	2,467.55	3.60	18.59	-104.30	-2,220.12	-8,708.58	9,221.88	9,201.09	20.78	443.735	
500.00	500.00	2,626.01	2,524.16	3.81	19.16	-104.16	-2,195.19	-8,701.65	9,199.72	9,178.24	21.48	428.291	
600.00	600.00	600.00	2,634.67	4.05	3.81	-103.88	-2,146.33	-8,688.04	9,177.62	9,170.08	7.54	1,216.612	
700.00	699.98	2,916.48	2,787.52	4.32	21.87	-45.78	-2,077.37	-8,667.96	9,153.44	9,129.02	24.42	374.854	
800.00	799.94	2,971.50	2,837.50	4.61	22.39	-45.66	-2,055.35	-8,661.33	9,128.87	9,103.71	25.16	362.857	
900.00	899.89	3,046.90	2,906.47	4.92	23.08	-45.50	-2,026.33	-8,652.07	9,104.67	9,078.59	26.08	349.149	
1,000.00	999.85	3,136.50	2,988.75	5.25	23.89	-45.32	-1,992.66	-8,640.90	9,080.67	9,053.55	27.13	334.765	
1,100.00	1,099.80	3,237.84	3,081.55	5.60	24.81	-45.10	-1,953.89	-8,628.45	9,056.75	9,028.46	28.29	320.086	
1,200.00	1,199.76	3,288.06	3,127.63	5.96	25.26	-45.00	-1,934.92	-8,622.26	9,033.06	9,004.01	29.06	310.876	
1,300.00	1,299.72	3,346.00	3,181.19	6.33	25.77	-44.88	-1,913.97	-8,615.20	9,009.99	8,980.09	29.89	301.425	
1,400.00	1,399.67	3,372.17	3,205.50	6.71	26.00	-44.83	-1,904.78	-8,612.09	8,987.48	8,957.00	30.48	294.878	
1,500.00	1,499.63	3,409.08	3,239.84	7.10	26.31	-44.76	-1,891.95	-8,607.85	8,965.66	8,934.51	31.16	287.751	
1,600.00	1,599.58	3,473.65	3,300.11	7.49	26.85	-44.64	-1,869.90	-8,600.76	8,944.50	8,912.45	32.05	279.076	
1,700.00	1,699.54	3,568.64	3,389.05	7.88	27.64	-44.46	-1,838.33	-8,589.88	8,923.28	8,890.11	33.17	269.033	
1,800.00	1,799.50	3,887.11	3,687.01	8.28	30.30	-43.89	-1,733.63	-8,549.17	8,900.72	8,864.80	35.91	247.853	
1,900.00	1,899.45	3,958.36	3,753.00	8.69	30.92	-43.75	-1,708.50	-8,539.68	8,877.46	8,840.57	36.89	240.664	
2,000.00	1,999.41	4,015.00	3,805.31	9.10	31.42	-43.63	-1,687.95	-8,532.66	8,854.80	8,817.03	37.77	234.460	
2,100.00	2,099.36	4,075.57	3,861.16	9.51	31.96	-43.50	-1,665.60	-8,525.48	8,832.61	8,793.91	38.69	228.276	
2,200.00	2,199.32	4,147.87	3,927.73	9.92	32.60	-43.35	-1,638.70	-8,517.08	8,810.69	8,770.97	39.72	221.833	
2,300.00	2,299.28	4,623.73	4,361.28	10.34	37.05	-42.26	-1,452.87	-8,456.22	8,788.81	8,744.73	44.08	199.385	
2,400.00	2,399.23	4,679.00	4,410.34	10.75	37.61	-42.11	-1,428.64	-8,448.44	8,763.34	8,718.29	45.05	194.529	
2,500.00	2,499.19	4,730.71	4,456.42	11.17	38.13	-41.98	-1,406.28	-8,441.28	8,738.40	8,692.42	45.98	190.038	
2,600.00	2,599.14	4,774.00	4,495.17	11.60	38.57	-41.87	-1,387.87	-8,435.56	8,714.22	8,667.37	46.84	186.023	
2,700.00	2,699.10	4,801.24	4,519.68	12.02	38.83	-41.80	-1,376.50	-8,432.07	8,690.73	8,643.17	47.56	182.737	
2,800.00	2,799.06	4,835.91	4,551.05	12.44	39.16	-41.71	-1,362.37	-8,427.75	8,667.99	8,619.65	48.34	179.324	
2,900.00	2,899.01	4,873.40	4,585.18	12.87	39.52	-41.62	-1,347.55	-8,423.21	8,645.97	8,596.83	49.14	175.950	
3,000.00	2,998.97	4,951.14	4,656.42	13.29	40.23	-41.45	-1,317.89	-8,413.83	8,624.43	8,574.18	50.26	171.610	
3,100.00	3,098.92	3,100.00	4,755.58	13.72	23.33	-41.20	-1,276.95	-8,400.61	8,602.93	8,567.79	35.14	244.804	
3,200.00	3,198.88	5,106.86	4,799.21	14.14	41.65	-41.09	-1,258.70	-8,394.90	8,581.74	8,529.24	52.50	163.469	
3,300.00	3,298.84	5,152.00	4,840.75	14.57	42.06	-40.98	-1,241.85	-8,389.70	8,561.24	8,507.88	53.36	160.456	
3,400.00	3,398.79	5,188.67	4,874.65	15.00	42.38	-40.90	-1,228.47	-8,385.62	8,541.40	8,487.27	54.13	157.786	
3,500.00	3,498.75	5,247.00	4,928.86	15.43	42.89	-40.78	-1,207.86	-8,379.42	8,522.30	8,467.22	55.08	154.726	
3,600.00	3,598.70	5,247.00	4,928.86	15.86	42.89	-40.78	-1,207.86	-8,379.42	8,503.87	8,448.30	55.57	153.034	
3,700.00	3,698.66	5,310.35	4,988.15	16.29	43.41	-40.65	-1,186.46	-8,373.07	8,486.03	8,429.50	56.53	150.114	
3,800.00	3,798.62	5,342.00	5,017.93	16.72	43.68	-40.58	-1,176.18	-8,370.05	8,468.97	8,411.72	57.25	147.919	
3,900.00	3,898.57	5,376.77	5,050.82	17.15	43.94	-40.52	-1,165.32	-8,366.90	8,452.68	8,394.70	57.98	145.788	
4,000.00	3,998.53	5,405.54	5,078.17	17.59	44.16	-40.47	-1,156.77	-8,364.47	8,437.23	8,378.57	58.66	143.831	
4,100.00	4,098.48	5,437.00	5,108.25	18.02	44.40	-40.41	-1,147.87	-8,361.98	8,422.61	8,363.25	59.36	141.894	
4,200.00	4,198.44	5,469.31	5,139.28	18.45	44.62	-40.36	-1,139.19	-8,359.60	8,408.80	8,348.76	60.04	140.057	
4,300.00	4,298.40	5,531.00	5,198.87	18.88	45.04	-40.27	-1,123.78	-8,355.44	8,395.85	8,334.95	60.90	137.855	
4,400.00	4,398.35	5,557.10	5,224.19	19.32	45.20	-40.23	-1,117.69	-8,353.78	8,383.42	8,321.90	61.53	136.260	
4,500.00	4,498.31	5,626.00	5,291.24	19.75	45.63	-40.14	-1,102.50	-8,349.24	8,371.39	8,308.99	62.40	134.162	
4,600.00	4,598.26	5,689.32	5,353.17	20.19	45.99	-40.07	-1,089.98	-8,345.08	8,359.77	8,296.57	63.20	132.274	
4,700.00	4,698.22	5,785.70	5,447.94	20.62	46.51	-39.97	-1,073.60	-8,338.88	8,348.67	8,284.53	64.15	130.148	
4,800.00	4,798.18	5,814.00	5,475.81	21.05	46.66	-39.95	-1,069.09	-8,336.94	8,337.71	8,272.97	64.75	128.773	
4,900.00	4,898.13	5,869.46	5,530.55	21.49	46.93	-39.90	-1,060.95	-8,333.43	8,327.31	8,261.86	65.46	127.222	
5,000.00	4,998.09	5,909.00	5,569.71	21.92	47.12	-39.87	-1,055.87	-8,331.33	8,317.88	8,251.79	66.09	125.860	
5,100.00	5,098.04	5,960.31	5,620.60	22.36	47.34	-39.84	-1,049.82	-8,328.86	8,309.12	8,242.37	66.75	124.477	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	6,026.25	5,686.07	22.79	47.62	-39.80	-1,042.57	-8,325.79	8,300.73	8,233.26	67.47	123.028		
5,300.00	5,297.96	6,097.00	5,756.41	23.23	47.92	-39.77	-1,035.57	-8,322.80	8,292.87	8,224.67	68.20	121.601		
5,400.00	5,397.91	6,130.25	5,789.50	23.67	48.04	-39.75	-1,032.53	-8,321.55	8,285.52	8,216.75	68.77	120.489		
5,500.00	5,497.87	6,192.00	5,850.98	24.10	48.28	-39.73	-1,027.14	-8,319.62	8,278.87	8,209.43	69.44	119.221		
5,600.00	5,597.82	6,235.86	5,894.67	24.54	48.45	-39.71	-1,023.37	-8,318.48	8,272.76	8,202.71	70.05	118.105		
5,700.00	5,697.78	6,304.16	5,962.68	24.97	48.71	-39.68	-1,017.33	-8,316.97	8,267.08	8,196.34	70.74	116.860		
5,800.00	5,797.74	6,381.00	6,039.25	25.41	49.00	-39.64	-1,011.04	-8,315.47	8,261.76	8,190.29	71.47	115.596		
5,900.00	5,897.69	6,453.40	6,111.44	25.85	49.25	-39.62	-1,005.81	-8,314.18	8,256.74	8,184.58	72.17	114.412		
6,000.00	5,997.65	6,531.70	6,189.58	26.28	49.52	-39.60	-1,000.79	-8,312.91	8,252.00	8,179.13	72.87	113.236		
6,100.00	6,097.60	6,596.01	6,253.77	26.72	49.73	-39.58	-997.17	-8,311.98	8,247.57	8,174.04	73.52	112.177		
6,200.00	6,197.56	6,665.00	6,322.68	27.16	49.95	-39.57	-993.80	-8,311.40	8,243.73	8,169.55	74.18	111.132		
6,300.00	6,297.52	6,714.61	6,372.25	27.59	50.10	-39.56	-991.69	-8,311.18	8,240.34	8,165.58	74.76	110.225		
6,400.00	6,397.47	6,806.71	6,464.29	28.03	50.37	-39.55	-988.49	-8,310.85	8,237.24	8,161.76	75.47	109.140		
6,500.00	6,497.43	6,910.22	6,567.76	28.47	50.66	-39.54	-985.76	-8,310.33	8,234.10	8,157.88	76.22	108.038		
6,600.00	6,597.38	7,008.89	6,666.40	28.90	50.94	-39.54	-983.43	-8,309.79	8,230.96	8,154.03	76.94	106.984		
6,700.00	6,697.08	7,105.86	6,763.35	29.34	51.21	-13.76	-981.36	-8,309.26	8,223.83	8,146.18	77.65	105.910		
6,800.00	6,794.63	7,199.91	6,857.39	29.79	51.47	-10.57	-979.70	-8,308.73	8,201.94	8,123.60	78.34	104.692		
6,900.00	6,887.62	7,288.66	6,946.12	30.24	51.71	-10.04	-978.42	-8,308.24	8,165.25	8,086.26	78.99	103.367		
7,000.00	6,973.77	7,370.37	7,027.82	30.70	51.93	-10.37	-977.46	-8,307.80	8,114.65	8,035.07	79.58	101.967		
7,100.00	7,050.94	7,451.90	7,109.36	31.20	52.15	-11.38	-976.67	-8,307.36	8,051.37	7,971.26	80.12	100.492		
7,200.00	7,117.24	7,538.84	7,196.29	31.77	52.38	-13.30	-975.85	-8,306.72	7,976.83	7,896.21	80.62	98.947		
7,300.00	7,171.03	7,608.67	7,266.10	32.46	52.57	-16.75	-975.17	-8,306.04	7,892.87	7,811.87	81.00	97.438		
7,400.00	7,211.00	7,633.01	7,290.45	33.29	52.64	-23.35	-974.87	-8,305.84	7,801.77	7,720.57	81.20	96.075		
7,500.00	7,236.16	7,654.25	7,311.68	34.29	52.70	-39.41	-974.60	-8,305.67	7,705.74	7,624.39	81.34	94.730		
7,600.00	7,245.89	7,664.08	7,319.35	35.43	52.72	-86.09	-974.49	-8,305.61	7,607.13	7,525.72	81.41	93.442		
7,700.00	7,245.73	7,665.03	7,318.40	36.72	52.73	-95.39	-974.51	-8,305.61	7,508.04	7,426.61	81.43	92.197		
7,800.00	7,245.42	7,666.14	7,317.30	38.18	52.73	-95.33	-974.52	-8,305.62	7,408.98	7,327.52	81.47	90.946		
7,900.00	7,245.10	7,667.24	7,316.19	39.80	52.73	-95.27	-974.54	-8,305.63	7,309.95	7,228.44	81.50	89.688		
8,000.00	7,244.79	7,658.28	7,315.72	41.54	52.71	-95.24	-974.54	-8,305.63	7,210.94	7,129.42	81.52	88.454		
8,100.00	7,244.48	7,657.30	7,314.73	43.41	52.71	-95.19	-974.56	-8,305.64	7,111.96	7,030.39	81.57	87.188		
8,200.00	7,244.17	7,656.31	7,313.74	45.38	52.70	-95.13	-974.57	-8,305.65	7,013.01	6,931.38	81.63	85.914		
8,300.00	7,243.86	7,655.31	7,312.74	47.44	52.70	-95.07	-974.58	-8,305.66	6,914.09	6,832.39	81.70	84.633		
8,400.00	7,243.55	7,654.31	7,311.74	49.58	52.70	-95.02	-974.60	-8,305.67	6,815.20	6,733.42	81.77	83.344		
8,500.00	7,243.23	7,653.31	7,310.74	51.78	52.69	-94.96	-974.61	-8,305.67	6,716.34	6,634.48	81.86	82.047		
8,600.00	7,242.92	7,652.30	7,309.73	54.05	52.69	-94.91	-974.62	-8,305.68	6,617.52	6,535.56	81.96	80.742		
8,700.00	7,242.61	7,651.28	7,308.72	56.37	52.69	-94.85	-974.64	-8,305.69	6,518.73	6,436.66	82.07	79.429		
8,800.00	7,242.30	7,650.26	7,307.70	58.74	52.69	-94.79	-974.65	-8,305.70	6,419.98	6,337.79	82.19	78.108		
8,900.00	7,241.99	7,649.24	7,306.68	61.16	52.68	-94.73	-974.66	-8,305.71	6,321.27	6,238.94	82.33	76.779		
9,000.00	7,241.67	7,648.21	7,305.65	63.61	52.68	-94.68	-974.68	-8,305.72	6,222.60	6,140.12	82.48	75.442		
9,100.00	7,241.36	7,647.18	7,304.62	66.09	52.68	-94.62	-974.69	-8,305.72	6,123.97	6,041.32	82.65	74.096		
9,200.00	7,241.05	7,646.14	7,303.58	68.60	52.67	-94.56	-974.70	-8,305.73	6,025.39	5,942.56	82.83	72.742		
9,300.00	7,240.74	7,645.10	7,302.54	71.13	52.67	-94.50	-974.72	-8,305.74	5,926.85	5,843.82	83.03	71.379		
9,400.00	7,240.43	7,644.06	7,301.49	73.70	52.67	-94.44	-974.73	-8,305.75	5,828.37	5,745.12	83.25	70.008		
9,500.00	7,240.11	7,643.01	7,300.44	76.28	52.67	-94.38	-974.74	-8,305.76	5,729.94	5,646.44	83.49	68.628		
9,600.00	7,239.80	7,641.95	7,299.38	78.88	52.66	-94.33	-974.76	-8,305.77	5,631.56	5,547.81	83.75	67.240		
9,700.00	7,239.49	7,640.89	7,298.32	81.50	52.66	-94.27	-974.77	-8,305.78	5,533.24	5,449.20	84.04	65.844		
9,800.00	7,239.18	7,639.82	7,297.26	84.13	52.66	-94.21	-974.78	-8,305.79	5,434.98	5,350.64	84.34	64.439		
9,900.00	7,238.87	7,638.75	7,296.19	86.78	52.65	-94.15	-974.80	-8,305.79	5,336.79	5,252.11	84.67	63.027		
10,000.00	7,238.55	7,637.68	7,295.11	89.44	52.65	-94.09	-974.81	-8,305.80	5,238.66	5,153.63	85.03	61.607		
10,100.00	7,238.24	7,636.59	7,294.03	92.11	52.65	-94.02	-974.82	-8,305.81	5,140.61	5,055.18	85.42	60.179		
10,200.00	7,237.93	7,635.51	7,292.94	94.80	52.65	-93.96	-974.84	-8,305.82	5,042.63	4,956.79	85.84	58.744		
10,300.00	7,237.62	7,634.42	7,291.85	97.49	52.64	-93.90	-974.85	-8,305.83	4,944.73	4,858.44	86.29	57.302		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,633.32	7,290.76	100.19	52.64	-93.84	-974.86	-8,305.84	4,846.92	4,760.14	86.78	55.853		
10,500.00	7,236.99	7,632.22	7,289.66	102.90	52.64	-93.78	-974.88	-8,305.85	4,749.20	4,661.90	87.30	54.399		
10,600.00	7,236.68	7,631.11	7,288.55	105.62	52.63	-93.72	-974.89	-8,305.86	4,651.57	4,563.71	87.87	52.938		
10,700.00	7,236.37	7,630.00	7,287.44	108.35	52.63	-93.65	-974.90	-8,305.87	4,554.05	4,465.58	88.47	51.473		
10,800.00	7,236.06	7,628.89	7,286.32	111.08	52.63	-93.59	-974.92	-8,305.88	4,456.64	4,367.51	89.13	50.004		
10,900.00	7,235.75	7,627.76	7,285.20	113.82	52.62	-93.53	-974.93	-8,305.89	4,359.35	4,269.52	89.83	48.530		
11,000.00	7,235.44	7,626.64	7,284.07	116.56	52.62	-93.47	-974.95	-8,305.90	4,262.18	4,171.60	90.58	47.054		
11,100.00	7,235.12	7,625.50	7,282.94	119.31	52.62	-93.40	-974.96	-8,305.91	4,165.14	4,073.75	91.39	45.576		
11,200.00	7,234.81	7,624.37	7,281.80	122.07	52.61	-93.34	-974.97	-8,305.92	4,068.25	3,975.99	92.26	44.097		
11,300.00	7,234.50	7,623.22	7,280.66	124.83	52.61	-93.27	-974.99	-8,305.93	3,971.51	3,878.32	93.19	42.619		
11,400.00	7,234.19	7,622.07	7,279.51	127.59	52.61	-93.21	-975.00	-8,305.94	3,874.93	3,780.75	94.19	41.141		
11,500.00	7,233.88	7,620.92	7,278.35	130.36	52.61	-93.14	-975.01	-8,305.95	3,778.54	3,683.28	95.26	39.666		
11,600.00	7,233.56	7,619.76	7,277.19	133.13	52.60	-93.08	-975.03	-8,305.96	3,682.33	3,585.92	96.41	38.194		
11,700.00	7,233.25	7,618.59	7,276.03	135.91	52.60	-93.01	-975.04	-8,305.97	3,586.34	3,488.69	97.65	36.727		
11,800.00	7,232.94	7,617.42	7,274.86	138.68	52.60	-92.95	-975.05	-8,305.98	3,490.56	3,391.59	98.97	35.267		
11,900.00	7,232.63	7,616.24	7,273.68	141.47	52.59	-92.88	-975.07	-8,305.99	3,395.03	3,294.63	100.40	33.815		
12,000.00	7,232.32	7,615.06	7,272.50	144.25	52.59	-92.81	-975.08	-8,306.00	3,299.77	3,197.84	101.93	32.373		
12,100.00	7,232.00	7,613.87	7,271.31	147.04	52.59	-92.75	-975.09	-8,306.01	3,204.79	3,101.22	103.57	30.942		
12,200.00	7,231.69	7,612.68	7,270.11	149.83	52.58	-92.68	-975.11	-8,306.02	3,110.13	3,004.79	105.34	29.524		
12,300.00	7,231.38	7,611.47	7,268.91	152.62	52.58	-92.61	-975.12	-8,306.03	3,015.81	2,908.57	107.24	28.122		
12,400.00	7,231.07	7,610.27	7,267.71	155.42	52.58	-92.54	-975.13	-8,306.05	2,921.87	2,812.58	109.29	26.736		
12,500.00	7,230.76	7,609.06	7,266.49	158.22	52.57	-92.48	-975.15	-8,306.06	2,828.34	2,716.85	111.49	25.369		
12,600.00	7,230.44	7,607.84	7,265.28	161.01	52.57	-92.41	-975.16	-8,306.07	2,735.27	2,621.41	113.86	24.023		
12,700.00	7,230.13	7,606.61	7,264.05	163.82	52.57	-92.34	-975.18	-8,306.08	2,642.71	2,526.29	116.42	22.701		
12,800.00	7,229.82	7,605.38	7,262.82	166.62	52.56	-92.27	-975.19	-8,306.09	2,550.71	2,431.53	119.17	21.403		
12,900.00	7,229.51	7,604.15	7,261.58	169.43	52.56	-92.20	-975.20	-8,306.10	2,459.33	2,337.18	122.15	20.133		
13,000.00	7,229.20	7,602.90	7,260.34	172.23	52.56	-92.13	-975.22	-8,306.11	2,368.65	2,243.28	125.37	18.893		
13,100.00	7,228.88	7,601.65	7,259.09	175.04	52.55	-92.06	-975.23	-8,306.12	2,278.75	2,149.90	128.85	17.685		
13,200.00	7,228.57	7,601.81	7,259.24	177.85	52.55	-92.07	-975.24	-8,306.11	2,189.71	2,057.09	132.62	16.511		
13,300.00	7,228.26	7,600.34	7,257.78	180.66	52.55	-91.99	-975.25	-8,306.13	2,101.67	1,964.97	136.70	15.375		
13,400.00	7,227.95	7,598.88	7,256.32	183.48	52.54	-91.90	-975.27	-8,306.14	2,014.75	1,873.63	141.11	14.277		
13,500.00	7,227.64	7,597.44	7,254.88	186.29	52.54	-91.82	-975.28	-8,306.16	1,929.09	1,783.19	145.90	13.222		
13,600.00	7,227.33	7,596.00	7,253.44	189.11	52.54	-91.74	-975.30	-8,306.17	1,844.87	1,693.78	151.09	12.210		
13,700.00	7,227.01	7,594.57	7,252.01	191.92	52.53	-91.66	-975.31	-8,306.19	1,762.31	1,605.59	156.71	11.245		
13,800.00	7,226.70	7,593.15	7,250.59	194.74	52.53	-91.58	-975.32	-8,306.20	1,681.63	1,518.83	162.80	10.329		
13,900.00	7,226.39	7,591.74	7,249.18	197.56	52.52	-91.50	-975.34	-8,306.22	1,603.14	1,433.76	169.38	9.465		
14,000.00	7,226.08	7,590.34	7,247.78	200.38	52.52	-91.42	-975.35	-8,306.23	1,527.16	1,350.68	176.48	8.654		
14,100.00	7,225.77	7,588.95	7,246.39	203.21	52.52	-91.34	-975.36	-8,306.24	1,454.09	1,269.98	184.10	7.898		
14,200.00	7,225.45	7,587.56	7,245.00	206.03	52.51	-91.27	-975.38	-8,306.26	1,384.38	1,192.13	192.25	7.201		
14,300.00	7,225.14	7,586.19	7,243.63	208.85	52.51	-91.19	-975.39	-8,306.27	1,318.58	1,117.69	200.89	6.564		
14,400.00	7,224.83	7,584.83	7,242.27	211.68	52.51	-91.11	-975.41	-8,306.29	1,257.30	1,047.34	209.96	5.988		
14,500.00	7,224.52	7,583.49	7,240.93	214.50	52.50	-91.04	-975.42	-8,306.30	1,201.23	981.88	219.35	5.476		
14,600.00	7,224.21	7,582.14	7,239.58	217.33	52.50	-90.96	-975.43	-8,306.31	1,151.12	922.24	228.88	5.029		
14,700.00	7,223.89	7,580.78	7,238.22	220.16	52.49	-90.88	-975.45	-8,306.33	1,107.80	869.47	238.33	4.648		
14,800.00	7,223.58	7,579.43	7,236.88	222.98	52.49	-90.81	-975.46	-8,306.34	1,072.08	824.69	247.38	4.334		
14,900.00	7,223.27	7,578.11	7,235.55	225.81	52.49	-90.73	-975.47	-8,306.35	1,044.74	789.06	255.67	4.086		
14,987.41	7,223.00	7,576.96	7,234.40	228.28	52.48	-90.67	-975.48	-8,306.36	1,028.23	766.25	261.98	3.925 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	36.00	3.28	3.28	-108.29	-2,976.91	-9,004.40	9,483.81					
100.00	100.00	37.10	73.10	3.28	3.28	-108.29	-2,976.83	-9,004.49	9,483.83	9,477.26	6.57	1,444.468		
200.00	200.00	95.06	131.06	3.34	3.29	-108.29	-2,976.39	-9,004.94	9,484.33	9,477.71	6.62	1,432.045		
300.00	300.00	168.00	203.98	3.44	3.30	-108.28	-2,975.27	-9,006.08	9,485.30	9,478.56	6.74	1,406.724		
400.00	400.00	168.00	203.98	3.60	3.30	-108.28	-2,975.27	-9,006.08	9,486.84	9,479.94	6.90	1,374.410		
500.00	500.00	212.87	248.82	3.81	3.33	-108.27	-2,974.40	-9,007.30	9,489.02	9,481.89	7.13	1,330.309		
600.00	600.00	259.00	294.90	4.05	3.37	-108.27	-2,973.53	-9,009.21	9,492.15	9,484.73	7.41	1,280.478		
700.00	699.98	259.00	294.90	4.32	3.37	-50.23	-2,973.53	-9,009.21	9,494.80	9,487.11	7.68	1,235.769		
800.00	799.94	292.81	328.66	4.61	3.40	-50.23	-2,972.98	-9,010.99	9,497.48	9,489.46	8.01	1,185.221		
900.00	899.89	350.00	385.74	4.92	3.48	-50.23	-2,972.51	-9,014.60	9,501.08	9,492.68	8.40	1,130.785		
1,000.00	999.85	350.00	385.74	5.25	3.48	-50.23	-2,972.51	-9,014.60	9,505.13	9,496.39	8.74	1,087.913		
1,100.00	1,099.80	410.07	445.65	5.60	3.58	-50.23	-2,972.34	-9,018.89	9,509.92	9,500.74	9.18	1,036.000		
1,200.00	1,199.76	487.63	522.99	5.96	3.74	-50.22	-2,972.18	-9,024.70	9,515.06	9,505.37	9.69	982.399		
1,300.00	1,299.72	532.00	567.24	6.33	3.84	-50.22	-2,972.03	-9,028.08	9,520.45	9,510.30	10.15	937.943		
1,400.00	1,399.67	587.52	622.57	6.71	3.98	-50.22	-2,971.99	-9,032.57	9,526.33	9,515.67	10.66	893.823		
1,500.00	1,499.63	644.00	678.83	7.10	4.14	-50.22	-2,972.32	-9,037.62	9,532.98	9,521.80	11.18	852.303		
1,600.00	1,599.58	674.17	708.86	7.49	4.23	-50.22	-2,972.61	-9,040.46	9,540.15	9,528.50	11.65	818.558		
1,700.00	1,699.54	764.92	799.19	7.88	4.51	-50.23	-2,973.70	-9,049.17	9,547.73	9,535.43	12.31	775.742		
1,800.00	1,799.50	871.90	905.68	8.28	4.88	-50.23	-2,974.98	-9,059.25	9,555.17	9,542.13	13.04	732.898		
1,900.00	1,899.45	1,900.00	1,100.54	8.69	9.11	-50.22	-2,975.45	-9,077.52	9,562.30	9,544.88	17.42	549.004		
2,000.00	1,999.41	1,129.77	1,162.46	9.10	5.85	-50.22	-2,975.39	-9,082.98	9,568.80	9,554.07	14.73	649.417		
2,100.00	2,099.36	1,155.93	1,188.49	9.51	5.95	-50.22	-2,975.28	-9,085.52	9,576.04	9,560.81	15.24	628.538		
2,200.00	2,199.32	1,190.00	1,222.36	9.92	6.09	-50.22	-2,975.08	-9,089.18	9,584.06	9,568.29	15.77	607.807		
2,300.00	2,299.28	1,190.00	1,222.36	10.34	6.09	-50.22	-2,975.08	-9,089.18	9,592.88	9,576.71	16.17	593.106		
2,400.00	2,399.23	1,245.35	1,277.32	10.75	6.33	-50.21	-2,974.70	-9,095.77	9,602.25	9,585.46	16.79	571.784		
2,500.00	2,499.19	1,285.00	1,316.63	11.17	6.50	-50.20	-2,974.45	-9,100.91	9,612.41	9,595.05	17.35	553.875		
2,600.00	2,599.14	1,285.00	1,316.63	11.60	6.50	-50.20	-2,974.45	-9,100.91	9,623.34	9,605.58	17.76	541.850		
2,700.00	2,699.10	1,344.74	1,375.79	12.02	6.77	-50.20	-2,974.48	-9,109.15	9,634.75	9,616.34	18.40	523.507		
2,800.00	2,799.06	1,379.00	1,409.70	12.44	6.92	-50.19	-2,974.85	-9,114.11	9,646.94	9,627.99	18.95	509.139		
2,900.00	2,899.01	1,416.46	1,446.72	12.87	7.10	-50.19	-2,975.28	-9,119.78	9,659.78	9,640.28	19.51	495.233		
3,000.00	2,998.97	1,475.00	1,504.49	13.29	7.38	-50.18	-2,975.51	-9,129.26	9,673.31	9,653.15	20.15	479.996		
3,100.00	3,098.92	1,475.00	1,504.49	13.72	7.38	-50.18	-2,975.51	-9,129.26	9,687.39	9,666.83	20.55	471.330		
3,200.00	3,198.88	1,530.25	1,558.91	14.14	7.65	-50.17	-2,975.61	-9,138.79	9,702.06	9,680.87	21.19	457.858		
3,300.00	3,298.84	1,570.00	1,598.02	14.57	7.85	-50.17	-2,975.87	-9,145.91	9,717.41	9,695.65	21.76	446.558		
3,400.00	3,398.79	1,614.09	1,641.34	15.00	8.08	-50.16	-2,976.21	-9,154.06	9,733.33	9,710.98	22.35	435.465		
3,500.00	3,498.75	1,665.00	1,691.32	15.43	8.34	-50.15	-2,976.52	-9,163.78	9,749.78	9,726.81	22.97	424.394		
3,600.00	3,598.70	1,665.00	1,691.32	15.86	8.34	-50.15	-2,976.52	-9,163.78	9,766.95	9,743.59	23.37	418.015		
3,700.00	3,698.66	1,724.43	1,749.53	16.29	8.66	-50.14	-2,976.80	-9,175.74	9,784.54	9,760.51	24.03	407.222		
3,800.00	3,798.62	1,759.00	1,783.31	16.72	8.85	-50.13	-2,976.91	-9,183.08	9,802.94	9,778.36	24.58	398.893		
3,900.00	3,898.57	1,759.00	1,783.31	17.15	8.85	-50.13	-2,976.91	-9,183.08	9,822.13	9,797.17	24.96	393.516		
4,000.00	3,998.53	1,818.79	1,841.63	17.59	9.19	-50.12	-2,977.62	-9,196.24	9,841.73	9,816.11	25.62	384.073		
4,100.00	4,098.48	1,853.00	1,874.94	18.02	9.39	-50.11	-2,978.50	-9,203.96	9,862.12	9,835.96	26.17	376.881		
4,200.00	4,198.44	1,906.22	1,926.71	18.45	9.70	-50.10	-2,980.12	-9,216.20	9,883.06	9,856.26	26.80	368.749		
4,300.00	4,298.40	1,966.02	1,984.82	18.88	10.06	-50.10	-2,981.92	-9,230.20	9,904.39	9,876.92	27.47	360.578		
4,400.00	4,398.35	2,030.58	2,047.50	19.32	10.45	-50.09	-2,983.84	-9,245.55	9,926.06	9,897.90	28.16	352.491		
4,500.00	4,498.31	2,042.00	2,058.58	19.75	10.52	-50.09	-2,984.17	-9,248.29	9,948.27	9,919.69	28.59	347.997		
4,600.00	4,598.26	2,042.00	2,058.58	20.19	10.52	-50.09	-2,984.17	-9,248.29	9,971.43	9,942.48	28.95	344.385		
4,700.00	4,698.22	2,042.00	2,058.58	20.62	10.52	-50.09	-2,984.17	-9,248.29	9,995.53	9,966.22	29.32	340.942		
7,600.00	7,245.89	7,107.91	6,992.59	35.43	40.99	-81.90	-3,017.87	-10,250.77	9,978.51	9,913.89	64.62	154.418		
7,700.00	7,245.73	7,109.02	6,993.70	36.72	41.00	-85.82	-3,017.90	-10,250.78	9,883.36	9,818.55	64.81	152.501		
7,800.00	7,245.42	7,110.01	6,994.69	38.18	41.00	-85.83	-3,017.94	-10,250.80	9,788.29	9,723.27	65.03	150.529		
7,900.00	7,245.10	7,111.00	6,995.68	39.80	41.00	-85.85	-3,017.97	-10,250.81	9,693.33	9,628.05	65.28	148.498		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
8,000.00	7,244.79	7,111.99	6,996.66	41.54	41.00	-85.87	-3,018.01	-10,250.83	9,598.47	9,532.91	65.56	146.411		
8,100.00	7,244.48	7,112.97	6,997.65	43.41	41.01	-85.89	-3,018.04	-10,250.85	9,503.71	9,437.84	65.88	144.268		
8,200.00	7,244.17	7,113.95	6,998.63	45.38	41.01	-85.91	-3,018.07	-10,250.86	9,409.07	9,342.84	66.23	142.072		
8,300.00	7,243.86	7,114.93	6,999.61	47.44	41.01	-85.93	-3,018.11	-10,250.88	9,314.53	9,247.91	66.62	139.825		
8,400.00	7,243.55	7,115.91	7,000.59	49.58	41.02	-85.95	-3,018.14	-10,250.89	9,220.11	9,153.07	67.04	137.530		
8,500.00	7,243.23	7,116.89	7,001.56	51.78	41.02	-85.96	-3,018.18	-10,250.91	9,125.81	9,058.30	67.50	135.189		
8,600.00	7,242.92	7,117.87	7,002.54	54.05	41.02	-85.98	-3,018.21	-10,250.92	9,031.63	8,963.62	68.01	132.805		
8,700.00	7,242.61	7,118.84	7,003.51	56.37	41.03	-86.00	-3,018.25	-10,250.94	8,937.57	8,869.03	68.55	130.383		
8,800.00	7,242.30	7,119.81	7,004.49	58.74	41.03	-86.02	-3,018.28	-10,250.95	8,843.65	8,774.52	69.13	127.925		
8,900.00	7,241.99	7,120.79	7,005.46	61.16	41.03	-86.04	-3,018.32	-10,250.97	8,749.86	8,680.11	69.76	125.436		
9,000.00	7,241.67	7,121.75	7,006.42	63.61	41.04	-86.05	-3,018.35	-10,250.98	8,656.21	8,585.79	70.42	122.919		
9,100.00	7,241.36	7,122.72	7,007.39	66.09	41.04	-86.07	-3,018.38	-10,251.00	8,562.71	8,491.58	71.13	120.379		
9,200.00	7,241.05	7,123.69	7,008.36	68.60	41.04	-86.09	-3,018.42	-10,251.01	8,469.35	8,397.47	71.88	117.819		
9,300.00	7,240.74	7,124.65	7,009.32	71.13	41.05	-86.11	-3,018.45	-10,251.02	8,376.15	8,303.47	72.68	115.245		
9,400.00	7,240.43	7,125.62	7,010.28	73.70	41.05	-86.13	-3,018.49	-10,251.04	8,283.10	8,209.58	73.52	112.659		
9,500.00	7,240.11	7,126.58	7,011.24	76.28	41.05	-86.15	-3,018.52	-10,251.05	8,190.22	8,115.81	74.41	110.067		
9,600.00	7,239.80	7,127.54	7,012.20	78.88	41.06	-86.16	-3,018.56	-10,251.07	8,097.51	8,022.16	75.35	107.472		
9,700.00	7,239.49	7,128.50	7,013.16	81.50	41.06	-86.18	-3,018.59	-10,251.08	8,004.97	7,928.64	76.33	104.878		
9,800.00	7,239.18	7,129.45	7,014.12	84.13	41.06	-86.20	-3,018.63	-10,251.10	7,912.61	7,835.26	77.35	102.290		
9,900.00	7,238.87	7,130.41	7,015.07	86.78	41.07	-86.22	-3,018.66	-10,251.11	7,820.44	7,742.01	78.43	99.710		
10,000.00	7,238.55	7,131.36	7,016.02	89.44	41.07	-86.24	-3,018.70	-10,251.13	7,728.47	7,648.91	79.56	97.142		
10,100.00	7,238.24	7,132.31	7,016.98	92.11	41.07	-86.25	-3,018.73	-10,251.14	7,636.70	7,555.96	80.73	94.591		
10,200.00	7,237.93	7,133.26	7,017.92	94.80	41.08	-86.27	-3,018.77	-10,251.16	7,545.14	7,463.17	81.96	92.058		
10,300.00	7,237.62	7,134.21	7,018.87	97.49	41.08	-86.29	-3,018.80	-10,251.17	7,453.79	7,370.55	83.24	89.547		
10,400.00	7,237.31	7,135.16	7,019.82	100.19	41.08	-86.31	-3,018.84	-10,251.19	7,362.67	7,278.10	84.57	87.061		
10,500.00	7,236.99	7,136.11	7,020.76	102.90	41.08	-86.32	-3,018.88	-10,251.20	7,271.78	7,185.83	85.95	84.602		
10,600.00	7,236.68	7,137.05	7,021.71	105.62	41.09	-86.34	-3,018.91	-10,251.21	7,181.13	7,093.74	87.39	82.173		
10,700.00	7,236.37	7,137.99	7,022.65	108.35	41.09	-86.36	-3,018.95	-10,251.23	7,090.74	7,001.85	88.88	79.776		
10,800.00	7,236.06	7,138.93	7,023.59	111.08	41.09	-86.38	-3,018.98	-10,251.24	7,000.60	6,910.17	90.43	77.412		
10,900.00	7,235.75	7,139.87	7,024.53	113.82	41.10	-86.39	-3,019.02	-10,251.26	6,910.74	6,818.70	92.04	75.085		
11,000.00	7,235.44	7,140.81	7,025.47	116.56	41.10	-86.41	-3,019.05	-10,251.27	6,821.16	6,727.46	93.70	72.795		
11,100.00	7,235.12	7,141.75	7,026.40	119.31	41.10	-86.43	-3,019.09	-10,251.29	6,731.87	6,636.44	95.43	70.543		
11,200.00	7,234.81	7,142.68	7,027.34	122.07	41.11	-86.45	-3,019.13	-10,251.30	6,642.89	6,545.68	97.22	68.332		
11,300.00	7,234.50	7,143.62	7,028.27	124.83	41.11	-86.47	-3,019.16	-10,251.31	6,554.23	6,455.16	99.06	66.162		
11,400.00	7,234.19	7,144.55	7,029.20	127.59	41.11	-86.48	-3,019.20	-10,251.33	6,465.89	6,364.92	100.98	64.034		
11,500.00	7,233.88	7,145.48	7,030.13	130.36	41.12	-86.50	-3,019.23	-10,251.34	6,377.90	6,274.95	102.95	61.949		
11,600.00	7,233.56	7,146.41	7,031.06	133.13	41.12	-86.52	-3,019.27	-10,251.36	6,290.27	6,185.27	105.00	59.908		
11,700.00	7,233.25	7,147.34	7,031.99	135.91	41.12	-86.53	-3,019.31	-10,251.37	6,203.01	6,095.90	107.11	57.911		
11,800.00	7,232.94	7,148.26	7,032.91	138.68	41.13	-86.55	-3,019.34	-10,251.38	6,116.15	6,006.85	109.30	55.959		
11,900.00	7,232.63	7,149.19	7,033.83	141.47	41.13	-86.57	-3,019.38	-10,251.40	6,029.68	5,918.13	111.55	54.052		
12,000.00	7,232.32	7,150.11	7,034.76	144.25	41.13	-86.59	-3,019.41	-10,251.41	5,943.65	5,829.77	113.88	52.191		
12,100.00	7,232.00	7,151.03	7,035.68	147.04	41.13	-86.60	-3,019.45	-10,251.42	5,858.06	5,741.77	116.29	50.375		
12,200.00	7,231.69	7,151.95	7,036.60	149.83	41.14	-86.62	-3,019.49	-10,251.44	5,772.93	5,654.15	118.77	48.605		
12,300.00	7,231.38	7,152.87	7,037.51	152.62	41.14	-86.64	-3,019.52	-10,251.45	5,688.28	5,566.94	121.34	46.880		
12,400.00	7,231.07	7,153.79	7,038.43	155.42	41.14	-86.66	-3,019.56	-10,251.47	5,604.14	5,480.16	123.98	45.201		
12,500.00	7,230.76	7,154.70	7,039.34	158.22	41.15	-86.67	-3,019.60	-10,251.48	5,520.53	5,393.82	126.71	43.567		
12,600.00	7,230.44	7,155.62	7,040.26	161.01	41.15	-86.69	-3,019.63	-10,251.49	5,437.47	5,307.94	129.53	41.978		
12,700.00	7,230.13	7,156.53	7,041.17	163.82	41.15	-86.71	-3,019.67	-10,251.51	5,354.99	5,222.56	132.44	40.434		
12,800.00	7,229.82	7,157.44	7,042.08	166.62	41.16	-86.72	-3,019.70	-10,251.52	5,273.12	5,137.69	135.43	38.935		
12,900.00	7,229.51	7,158.35	7,042.99	169.43	41.16	-86.74	-3,019.74	-10,251.53	5,191.88	5,053.36	138.52	37.480		
13,000.00	7,229.20	7,159.26	7,043.90	172.23	41.16	-86.76	-3,019.78	-10,251.55	5,111.31	4,969.60	141.71	36.069		
13,100.00	7,228.88	7,160.16	7,044.80	175.04	41.16	-86.78	-3,019.81	-10,251.56	5,031.43	4,886.44	144.99	34.702		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b> HARVESTERS STATE 7-15 PAD - FRITZLER 34-17(PR_150CC) - OH - OH												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 168-MWD												<b>Offset Well Error:</b>	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	
13,200.00	7,228.57	7,161.07	7,045.71	177.85	41.17	-86.79	-3,019.85	-10,251.57	4,952.29	4,803.92	148.37	33.377	
13,300.00	7,228.26	7,161.97	7,046.61	180.66	41.17	-86.81	-3,019.89	-10,251.59	4,873.91	4,722.05	151.86	32.096	
13,400.00	7,227.95	7,162.88	7,047.51	183.48	41.17	-86.83	-3,019.92	-10,251.60	4,796.33	4,640.89	155.44	30.856	
13,500.00	7,227.64	7,163.78	7,048.41	186.29	41.18	-86.84	-3,019.96	-10,251.62	4,719.60	4,560.47	159.14	29.657	
13,600.00	7,227.33	7,164.68	7,049.31	189.11	41.18	-86.86	-3,020.00	-10,251.63	4,643.76	4,480.82	162.94	28.500	
13,700.00	7,227.01	7,165.58	7,050.21	191.92	41.18	-86.88	-3,020.04	-10,251.64	4,568.84	4,401.99	166.85	27.383	
13,800.00	7,226.70	7,166.47	7,051.10	194.74	41.19	-86.89	-3,020.07	-10,251.66	4,494.90	4,324.03	170.87	26.307	
13,900.00	7,226.39	7,167.37	7,052.00	197.56	41.19	-86.91	-3,020.11	-10,251.67	4,421.98	4,246.99	175.00	25.269	
14,000.00	7,226.08	7,168.26	7,052.89	200.38	41.19	-86.93	-3,020.15	-10,251.68	4,350.15	4,170.91	179.24	24.270	
14,100.00	7,225.77	7,169.15	7,053.78	203.21	41.19	-86.94	-3,020.18	-10,251.69	4,279.44	4,095.85	183.59	23.310	
14,200.00	7,225.45	7,170.04	7,054.67	206.03	41.20	-86.96	-3,020.22	-10,251.71	4,209.92	4,021.86	188.06	22.386	
14,300.00	7,225.14	7,170.93	7,055.56	208.85	41.20	-86.98	-3,020.26	-10,251.72	4,141.64	3,949.01	192.63	21.500	
14,400.00	7,224.83	7,171.82	7,056.45	211.68	41.20	-86.99	-3,020.30	-10,251.73	4,074.68	3,877.37	197.32	20.651	
14,500.00	7,224.52	7,172.71	7,057.33	214.50	41.21	-87.01	-3,020.33	-10,251.75	4,009.09	3,806.99	202.11	19.837	
14,600.00	7,224.21	7,173.59	7,058.22	217.33	41.21	-87.03	-3,020.37	-10,251.76	3,944.95	3,737.95	207.00	19.058	
14,700.00	7,223.89	7,174.48	7,059.10	220.16	41.21	-87.04	-3,020.41	-10,251.77	3,882.33	3,670.33	212.00	18.313	
14,800.00	7,223.58	7,175.36	7,059.98	222.98	41.21	-87.06	-3,020.44	-10,251.79	3,821.29	3,604.21	217.08	17.603	
14,900.00	7,223.27	7,176.24	7,060.86	225.81	41.22	-87.08	-3,020.48	-10,251.80	3,761.92	3,539.66	222.26	16.926	
14,987.41	7,223.00	7,177.01	7,061.63	228.28	41.22	-87.09	-3,020.51	-10,251.81	3,711.46	3,484.60	226.85	16.361	CC, ES, SF



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	36.00	3.28	3.28	-108.01	-2,909.17	-8,948.47	9,409.55					
100.00	100.00	37.10	73.10	3.28	3.28	-108.01	-2,909.09	-8,948.55	9,409.57	9,403.01	6.57	1,433.175		
200.00	200.00	95.06	131.06	3.34	3.29	-108.01	-2,908.66	-8,949.00	9,410.08	9,403.46	6.62	1,420.944		
300.00	300.00	467.32	503.15	3.44	3.72	-107.95	-2,899.06	-8,947.94	9,408.05	9,400.88	7.17	1,311.695		
400.00	400.00	734.22	769.86	3.60	4.40	-107.91	-2,890.55	-8,942.46	9,405.30	9,397.29	8.01	1,173.635		
500.00	500.00	794.61	830.18	3.81	4.59	-107.90	-2,888.03	-8,940.84	9,401.51	9,393.11	8.40	1,119.865		
600.00	600.00	850.00	885.47	4.05	4.76	-107.89	-2,884.96	-8,940.00	9,398.30	9,389.50	8.81	1,067.114		
700.00	699.98	888.18	923.57	4.32	4.89	-49.92	-2,882.43	-8,939.78	9,394.54	9,385.34	9.20	1,021.205		
800.00	799.94	945.00	980.22	4.61	5.08	-49.90	-2,878.06	-8,939.96	9,390.52	9,380.84	9.68	969.965		
900.00	899.89	1,018.12	1,052.99	4.92	5.34	-49.87	-2,870.97	-8,940.94	9,386.89	9,376.64	10.25	915.382		
1,000.00	999.85	1,167.12	1,200.70	5.25	5.92	-49.77	-2,851.78	-8,944.08	9,383.00	9,371.84	11.16	840.731		
1,100.00	1,099.80	1,585.25	1,611.10	5.60	7.85	-49.36	-2,772.88	-8,952.16	9,376.85	9,363.42	13.43	698.170		
1,200.00	1,199.76	2,014.01	2,024.43	5.96	10.35	-48.74	-2,659.21	-8,954.63	9,366.56	9,350.33	16.23	577.061		
1,300.00	1,299.72	2,053.97	2,062.72	6.33	10.60	-48.68	-2,647.76	-8,954.64	9,356.13	9,339.29	16.85	555.359		
1,400.00	1,399.67	2,081.00	2,088.61	6.71	10.77	-48.64	-2,640.00	-8,954.79	9,346.37	9,328.98	17.39	537.366		
1,500.00	1,499.63	2,141.65	2,146.62	7.10	11.17	-48.54	-2,622.34	-8,955.58	9,337.16	9,318.99	18.17	514.004		
1,600.00	1,599.58	2,320.92	2,317.37	7.49	12.37	-48.23	-2,567.82	-8,958.88	9,328.28	9,308.55	19.74	472.658		
1,700.00	1,699.54	2,436.28	2,427.10	7.88	13.17	-48.04	-2,532.23	-8,960.11	9,318.45	9,297.53	20.91	445.598		
1,800.00	1,799.50	2,569.02	2,553.48	8.28	14.09	-47.81	-2,491.65	-8,961.18	9,308.57	9,286.35	22.22	418.997		
1,900.00	1,899.45	2,661.50	2,641.52	8.69	14.74	-47.65	-2,463.37	-8,961.80	9,298.62	9,275.36	23.26	399.788		
2,000.00	1,999.41	2,800.42	2,772.92	9.10	15.76	-47.40	-2,418.28	-8,962.77	9,288.18	9,263.52	24.66	376.670		
2,100.00	2,099.36	2,861.68	2,830.84	9.51	16.21	-47.29	-2,398.35	-8,963.29	9,278.05	9,252.53	25.51	363.665		
2,200.00	2,199.32	2,913.48	2,880.20	9.92	16.57	-47.20	-2,382.66	-8,963.63	9,268.42	9,242.13	26.29	352.490		
2,300.00	2,299.28	2,975.06	2,939.24	10.34	17.01	-47.10	-2,365.16	-8,963.99	9,259.30	9,232.16	27.14	341.185		
2,400.00	2,399.23	3,148.18	3,105.04	10.75	18.21	-46.82	-2,315.36	-8,964.94	9,250.25	9,221.51	28.73	321.927		
2,500.00	2,499.19	3,259.90	3,212.37	11.17	18.98	-46.65	-2,284.35	-8,964.68	9,240.72	9,210.81	29.91	308.986		
2,600.00	2,599.14	3,350.00	3,298.85	11.60	19.60	-46.51	-2,259.09	-8,964.13	9,230.82	9,199.88	30.94	298.327		
2,700.00	2,699.10	3,409.00	3,355.40	12.02	20.02	-46.42	-2,242.26	-8,964.24	9,221.54	9,189.76	31.78	290.208		
2,800.00	2,799.06	3,481.89	3,425.28	12.44	20.52	-46.30	-2,221.55	-8,964.61	9,212.67	9,179.96	32.71	281.683		
2,900.00	2,899.01	3,566.54	3,506.51	12.87	21.12	-46.17	-2,197.71	-8,964.97	9,203.89	9,170.17	33.72	272.962		
3,000.00	2,998.97	3,643.48	3,580.17	13.29	21.66	-46.04	-2,175.49	-8,965.59	9,195.37	9,160.69	34.69	265.101		
3,100.00	3,098.92	3,733.96	3,666.64	13.72	22.31	-45.89	-2,148.90	-8,966.63	9,187.11	9,151.35	35.76	256.904		
3,200.00	3,198.88	3,841.58	3,768.85	14.14	23.11	-45.70	-2,115.25	-8,968.29	9,178.83	9,141.85	36.98	248.209		
3,300.00	3,298.84	3,949.40	3,871.00	14.57	23.93	-45.50	-2,080.77	-8,970.04	9,170.55	9,132.34	38.22	239.959		
3,400.00	3,398.79	4,027.53	3,945.04	15.00	24.52	-45.35	-2,055.86	-8,971.25	9,162.33	9,123.09	39.24	233.517		
3,500.00	3,498.75	4,071.00	3,986.31	15.43	24.84	-45.27	-2,042.22	-8,971.97	9,154.52	9,114.52	40.00	228.860		
3,600.00	3,598.70	4,134.47	4,046.70	15.86	25.31	-45.16	-2,022.72	-8,973.24	9,147.21	9,106.30	40.90	223.627		
3,700.00	3,698.66	3,700.00	4,444.71	16.29	21.90	-44.39	-1,889.66	-8,977.31	9,139.37	9,101.44	37.94	240.912		
3,800.00	3,798.62	4,608.09	4,495.39	16.72	28.92	-44.29	-1,871.39	-8,977.07	9,129.27	9,083.97	45.30	201.547		
3,900.00	3,898.57	4,639.00	4,524.56	17.15	29.16	-44.23	-1,861.16	-8,977.06	9,119.85	9,073.87	45.99	198.316		
4,000.00	3,998.53	4,700.69	4,583.03	17.59	29.63	-44.11	-1,841.49	-8,977.19	9,110.99	9,064.10	46.89	194.302		
4,100.00	4,098.48	4,736.00	4,616.68	18.02	29.89	-44.05	-1,830.78	-8,977.33	9,102.76	9,055.16	47.60	191.223		
4,200.00	4,198.44	4,799.85	4,677.72	18.45	30.36	-43.94	-1,812.06	-8,977.77	9,095.06	9,046.56	48.50	187.512		
4,300.00	4,298.40	4,858.62	4,734.07	18.88	30.77	-43.85	-1,795.40	-8,978.38	9,087.92	9,038.56	49.36	184.121		
4,400.00	4,398.35	4,925.00	4,798.17	19.32	31.23	-43.75	-1,778.18	-8,978.92	9,081.16	9,030.91	50.25	180.713		
4,500.00	4,498.31	4,992.32	4,863.52	19.75	31.66	-43.66	-1,762.00	-8,979.41	9,074.78	9,023.65	51.12	177.502		
4,600.00	4,598.26	5,056.80	4,926.26	20.19	32.07	-43.57	-1,747.13	-8,980.01	9,068.81	9,016.84	51.97	174.496		
4,700.00	4,698.22	5,123.10	4,990.95	20.62	32.48	-43.49	-1,732.63	-8,980.69	9,063.24	9,010.42	52.82	171.588		
4,800.00	4,798.18	5,193.66	5,060.08	21.05	32.89	-43.41	-1,718.51	-8,981.38	9,058.03	9,004.36	53.67	168.767		
4,900.00	4,898.13	5,263.00	5,128.32	21.49	33.27	-43.34	-1,706.23	-8,981.95	9,053.16	8,998.67	54.49	166.141		
5,000.00	4,998.09	5,332.15	5,196.63	21.92	33.64	-43.28	-1,695.56	-8,982.43	9,048.63	8,993.34	55.29	163.654		
5,100.00	5,098.04	5,398.00	5,261.82	22.36	33.97	-43.23	-1,686.27	-8,982.92	9,044.45	8,988.39	56.06	161.336		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,465.02	5,328.35	22.79	34.28	-43.19	-1,678.13	-8,983.41	9,040.64	8,983.84	56.81	159.148		
5,300.00	5,297.96	5,530.51	5,393.53	23.23	34.56	-43.16	-1,671.81	-8,983.83	9,037.23	8,979.70	57.53	157.086		
5,400.00	5,397.91	5,632.06	5,494.73	23.67	34.98	-43.12	-1,663.39	-8,984.55	9,034.17	8,975.78	58.39	154.728		
5,500.00	5,497.87	5,801.43	5,663.75	24.10	35.64	-43.07	-1,652.66	-8,983.78	9,030.19	8,970.71	59.47	151.838		
5,600.00	5,597.82	5,848.21	5,710.47	24.54	35.81	-43.07	-1,650.53	-8,983.46	9,026.48	8,966.40	60.08	150.245		
5,700.00	5,697.78	5,896.75	5,758.97	24.97	35.98	-43.06	-1,648.61	-8,983.36	9,023.35	8,962.67	60.69	148.691		
5,800.00	5,797.74	5,947.10	5,809.30	25.41	36.15	-43.06	-1,647.02	-8,983.47	9,020.78	8,959.49	61.29	147.176		
5,900.00	5,897.69	6,017.07	5,879.25	25.85	36.38	-43.06	-1,645.36	-8,983.86	9,018.69	8,956.73	61.96	145.555		
6,000.00	5,997.65	6,113.03	5,975.18	26.28	36.70	-43.06	-1,643.30	-8,984.53	9,016.79	8,954.08	62.71	143.776		
6,100.00	6,097.60	6,225.49	6,087.62	26.72	37.07	-43.06	-1,641.10	-8,985.16	9,014.80	8,951.28	63.52	141.914		
6,200.00	6,197.56	6,302.75	6,164.87	27.16	37.33	-43.06	-1,639.59	-8,985.65	9,012.88	8,948.66	64.22	140.352		
6,300.00	6,297.52	6,379.00	6,241.09	27.59	37.58	-43.05	-1,637.97	-8,986.34	9,011.19	8,946.29	64.91	138.835		
6,400.00	6,397.47	6,462.19	6,324.26	28.03	37.86	-43.05	-1,636.18	-8,987.28	9,009.73	8,944.11	65.62	137.297		
6,500.00	6,497.43	6,545.49	6,407.54	28.47	38.14	-43.05	-1,634.48	-8,988.40	9,008.48	8,942.14	66.34	135.794		
6,600.00	6,597.38	6,655.99	6,518.00	28.90	38.51	-43.05	-1,632.32	-8,989.88	9,007.25	8,940.10	67.15	134.132		
6,700.00	6,697.08	6,746.29	6,608.27	29.34	38.82	-17.28	-1,630.60	-8,991.03	9,001.98	8,934.09	67.89	132.587		
6,800.00	6,794.63	6,824.15	6,686.11	29.79	39.08	-14.18	-1,629.17	-8,992.18	8,982.24	8,913.65	68.59	130.958		
6,900.00	6,887.62	6,911.26	6,773.20	30.24	39.38	-13.83	-1,627.52	-8,993.63	8,947.85	8,878.56	69.30	129.119		
7,000.00	6,973.77	6,999.30	6,861.20	30.70	39.69	-14.46	-1,625.49	-8,995.17	8,899.52	8,829.54	69.98	127.172		
7,100.00	7,050.94	7,089.81	6,951.67	31.20	40.01	-15.94	-1,623.21	-8,996.74	8,838.37	8,767.74	70.63	125.136		
7,200.00	7,117.24	7,169.23	7,031.06	31.77	40.29	-18.54	-1,621.28	-8,997.97	8,765.89	8,694.70	71.19	123.137		
7,300.00	7,171.03	7,215.32	7,077.13	32.46	40.45	-22.91	-1,620.24	-8,998.67	8,683.98	8,612.41	71.57	121.338		
7,400.00	7,211.00	7,250.26	7,112.06	33.29	40.57	-30.86	-1,619.52	-8,999.21	8,594.70	8,522.84	71.86	119.606		
7,500.00	7,236.16	7,272.82	7,134.61	34.29	40.65	-47.12	-1,619.09	-8,999.57	8,500.23	8,428.17	72.06	117.963		
7,600.00	7,245.89	7,282.39	7,144.18	35.43	40.68	-81.15	-1,618.91	-8,999.73	8,402.89	8,330.71	72.18	116.418		
7,700.00	7,245.73	7,283.62	7,145.41	36.72	40.69	-87.41	-1,618.89	-8,999.75	8,304.88	8,232.62	72.26	114.933		
7,800.00	7,245.42	7,284.72	7,146.51	38.18	40.69	-87.45	-1,618.87	-8,999.76	8,206.91	8,134.56	72.35	113.433		
7,900.00	7,245.10	7,285.82	7,147.61	39.80	40.70	-87.48	-1,618.85	-8,999.78	8,108.99	8,036.53	72.46	111.914		
8,000.00	7,244.79	7,286.93	7,148.71	41.54	40.70	-87.52	-1,618.83	-8,999.80	8,011.13	7,938.55	72.58	110.376		
8,100.00	7,244.48	7,288.03	7,149.82	43.41	40.70	-87.56	-1,618.81	-8,999.82	7,913.31	7,840.59	72.72	108.819		
8,200.00	7,244.17	7,289.14	7,150.93	45.38	40.71	-87.60	-1,618.79	-8,999.83	7,815.56	7,742.68	72.88	107.243		
8,300.00	7,243.86	7,290.25	7,152.04	47.44	40.71	-87.64	-1,618.77	-8,999.85	7,717.86	7,644.81	73.05	105.648		
8,400.00	7,243.55	7,291.36	7,153.15	49.58	40.72	-87.67	-1,618.75	-8,999.87	7,620.22	7,546.97	73.25	104.034		
8,500.00	7,243.23	7,292.48	7,154.27	51.78	40.72	-87.71	-1,618.73	-8,999.89	7,522.64	7,449.18	73.46	102.401		
8,600.00	7,242.92	7,293.60	7,155.38	54.05	40.72	-87.75	-1,618.71	-8,999.91	7,425.13	7,351.43	73.70	100.749		
8,700.00	7,242.61	7,294.72	7,156.50	56.37	40.73	-87.79	-1,618.69	-8,999.93	7,327.68	7,253.72	73.96	99.079		
8,800.00	7,242.30	7,295.84	7,157.63	58.74	40.73	-87.83	-1,618.67	-8,999.94	7,230.30	7,156.06	74.24	97.391		
8,900.00	7,241.99	7,296.97	7,158.75	61.16	40.73	-87.87	-1,618.65	-8,999.96	7,133.00	7,058.45	74.55	95.684		
9,000.00	7,241.67	7,298.09	7,159.88	63.61	40.74	-87.91	-1,618.63	-8,999.98	7,035.76	6,960.89	74.88	93.961		
9,100.00	7,241.36	7,299.23	7,161.01	66.09	40.74	-87.95	-1,618.61	-9,000.00	6,938.61	6,863.37	75.24	92.220		
9,200.00	7,241.05	7,300.36	7,162.14	68.60	40.75	-87.99	-1,618.59	-9,000.02	6,841.54	6,765.92	75.63	90.464		
9,300.00	7,240.74	7,301.49	7,163.28	71.13	40.75	-88.02	-1,618.57	-9,000.04	6,744.56	6,668.51	76.04	88.692		
9,400.00	7,240.43	7,302.63	7,164.41	73.70	40.75	-88.06	-1,618.55	-9,000.06	6,647.66	6,571.17	76.49	86.906		
9,500.00	7,240.11	7,303.77	7,165.55	76.28	40.76	-88.10	-1,618.53	-9,000.07	6,550.86	6,473.89	76.97	85.106		
9,600.00	7,239.80	7,304.91	7,166.70	78.88	40.76	-88.14	-1,618.51	-9,000.09	6,454.16	6,376.67	77.49	83.294		
9,700.00	7,239.49	7,306.06	7,167.84	81.50	40.77	-88.18	-1,618.49	-9,000.11	6,357.55	6,279.52	78.04	81.470		
9,800.00	7,239.18	7,307.21	7,168.99	84.13	40.77	-88.22	-1,618.47	-9,000.13	6,261.06	6,182.44	78.62	79.636		
9,900.00	7,238.87	7,308.36	7,170.14	86.78	40.77	-88.26	-1,618.45	-9,000.15	6,164.67	6,085.43	79.24	77.793		
10,000.00	7,238.55	7,309.51	7,171.29	89.44	40.78	-88.30	-1,618.43	-9,000.17	6,068.40	5,988.50	79.91	75.943		
10,100.00	7,238.24	7,310.67	7,172.45	92.11	40.78	-88.34	-1,618.41	-9,000.19	5,972.26	5,891.65	80.61	74.086		
10,200.00	7,237.93	7,311.82	7,173.60	94.80	40.79	-88.38	-1,618.39	-9,000.21	5,876.24	5,794.88	81.36	72.225		
10,300.00	7,237.62	7,312.98	7,174.76	97.49	40.79	-88.42	-1,618.37	-9,000.23	5,780.36	5,698.20	82.15	70.361		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,314.15	7,175.93	100.19	40.79	-88.46	-1,618.35	-9,000.25	5,684.62	5,601.62	82.99	68.495		
10,500.00	7,236.99	7,315.31	7,177.09	102.90	40.80	-88.50	-1,618.33	-9,000.27	5,589.02	5,505.14	83.88	66.630		
10,600.00	7,236.68	7,316.48	7,178.26	105.62	40.80	-88.54	-1,618.31	-9,000.28	5,493.59	5,408.77	84.82	64.766		
10,700.00	7,236.37	7,317.65	7,179.43	108.35	40.81	-88.58	-1,618.29	-9,000.30	5,398.32	5,312.50	85.82	62.906		
10,800.00	7,236.06	7,318.83	7,180.60	111.08	40.81	-88.62	-1,618.27	-9,000.32	5,303.22	5,216.35	86.86	61.052		
10,900.00	7,235.75	7,320.00	7,181.78	113.82	40.82	-88.66	-1,618.25	-9,000.34	5,208.31	5,120.33	87.97	59.205		
11,000.00	7,235.44	7,321.18	7,182.96	116.56	40.82	-88.71	-1,618.23	-9,000.36	5,113.58	5,024.45	89.14	57.366		
11,100.00	7,235.12	7,322.36	7,184.14	119.31	40.82	-88.75	-1,618.21	-9,000.38	5,019.07	4,928.70	90.37	55.539		
11,200.00	7,234.81	7,323.55	7,185.32	122.07	40.83	-88.79	-1,618.19	-9,000.40	4,924.77	4,833.10	91.67	53.724		
11,300.00	7,234.50	7,324.73	7,186.51	124.83	40.83	-88.83	-1,618.17	-9,000.42	4,830.70	4,737.66	93.04	51.923		
11,400.00	7,234.19	7,325.92	7,187.70	127.59	40.84	-88.87	-1,618.15	-9,000.44	4,736.87	4,642.40	94.48	50.139		
11,500.00	7,233.88	7,327.11	7,188.89	130.36	40.84	-88.91	-1,618.13	-9,000.46	4,643.30	4,547.31	95.99	48.372		
11,600.00	7,233.56	7,328.31	7,190.08	133.13	40.84	-88.95	-1,618.11	-9,000.48	4,550.00	4,452.42	97.59	46.625		
11,700.00	7,233.25	7,329.50	7,191.28	135.91	40.85	-88.99	-1,618.09	-9,000.50	4,457.00	4,357.73	99.27	44.899		
11,800.00	7,232.94	7,330.70	7,192.48	138.68	40.85	-89.03	-1,618.08	-9,000.52	4,364.30	4,263.26	101.03	43.196		
11,900.00	7,232.63	7,331.91	7,193.68	141.47	40.86	-89.08	-1,618.06	-9,000.54	4,271.93	4,169.04	102.89	41.518		
12,000.00	7,232.32	7,333.11	7,194.89	144.25	40.86	-89.12	-1,618.04	-9,000.56	4,179.91	4,075.06	104.85	39.865		
12,100.00	7,232.00	7,334.32	7,196.09	147.04	40.87	-89.16	-1,618.02	-9,000.58	4,088.27	3,981.36	106.91	38.240		
12,200.00	7,231.69	7,335.53	7,197.30	149.83	40.87	-89.20	-1,618.00	-9,000.60	3,997.02	3,887.95	109.08	36.644		
12,300.00	7,231.38	7,336.74	7,198.52	152.62	40.87	-89.24	-1,617.98	-9,000.62	3,906.21	3,794.85	111.35	35.079		
12,400.00	7,231.07	7,337.96	7,199.73	155.42	40.88	-89.29	-1,617.96	-9,000.64	3,815.85	3,702.10	113.75	33.545		
12,500.00	7,230.76	7,339.18	7,200.95	158.22	40.88	-89.33	-1,617.94	-9,000.67	3,725.99	3,609.71	116.28	32.044		
12,600.00	7,230.44	7,340.40	7,202.17	161.01	40.89	-89.37	-1,617.92	-9,000.69	3,636.65	3,517.72	118.93	30.577		
12,700.00	7,230.13	7,341.63	7,203.40	163.82	40.89	-89.41	-1,617.90	-9,000.71	3,547.89	3,426.16	121.73	29.146		
12,800.00	7,229.82	7,342.85	7,204.63	166.62	40.89	-89.46	-1,617.88	-9,000.73	3,459.73	3,335.06	124.67	27.751		
12,900.00	7,229.51	7,344.08	7,205.86	169.43	40.90	-89.50	-1,617.86	-9,000.75	3,372.24	3,244.47	127.77	26.393		
13,000.00	7,229.20	7,345.32	7,207.09	172.23	40.90	-89.54	-1,617.84	-9,000.77	3,285.46	3,154.43	131.03	25.074		
13,100.00	7,228.88	7,346.55	7,208.32	175.04	40.91	-89.58	-1,617.83	-9,000.79	3,199.45	3,064.99	134.46	23.794		
13,200.00	7,228.57	7,347.79	7,209.56	177.85	40.91	-89.63	-1,617.81	-9,000.81	3,114.28	2,976.20	138.08	22.555		
13,300.00	7,228.26	7,349.03	7,210.80	180.66	40.92	-89.67	-1,617.79	-9,000.83	3,030.01	2,888.13	141.88	21.356		
13,400.00	7,227.95	7,350.28	7,212.05	183.48	40.92	-89.71	-1,617.77	-9,000.85	2,946.72	2,800.84	145.88	20.199		
13,500.00	7,227.64	7,351.52	7,213.29	186.29	40.93	-89.76	-1,617.75	-9,000.87	2,864.51	2,714.41	150.09	19.085		
13,600.00	7,227.33	7,352.77	7,214.54	189.11	40.93	-89.80	-1,617.73	-9,000.90	2,783.46	2,628.93	154.52	18.013		
13,700.00	7,227.01	7,354.03	7,215.80	191.92	40.93	-89.84	-1,617.71	-9,000.92	2,703.67	2,544.50	159.18	16.985		
13,800.00	7,226.70	7,355.28	7,217.05	194.74	40.94	-89.89	-1,617.69	-9,000.94	2,625.27	2,461.21	164.07	16.001		
13,900.00	7,226.39	7,356.54	7,218.31	197.56	40.94	-89.93	-1,617.67	-9,000.96	2,548.39	2,379.19	169.19	15.062		
14,000.00	7,226.08	7,357.90	7,219.66	200.38	40.95	-89.98	-1,617.65	-9,000.98	2,473.15	2,298.59	174.57	14.167		
14,100.00	7,225.77	7,359.30	7,221.07	203.21	40.95	-90.03	-1,617.63	-9,001.01	2,399.73	2,219.54	180.19	13.318		
14,200.00	7,225.45	7,360.70	7,222.46	206.03	40.96	-90.07	-1,617.61	-9,001.03	2,328.28	2,142.23	186.05	12.514		
14,300.00	7,225.14	7,362.09	7,223.85	208.85	40.96	-90.12	-1,617.59	-9,001.05	2,259.00	2,066.84	192.16	11.756		
14,400.00	7,224.83	7,363.47	7,225.24	211.68	40.97	-90.17	-1,617.57	-9,001.08	2,192.10	1,993.60	198.50	11.044		
14,500.00	7,224.52	7,364.85	7,226.62	214.50	40.97	-90.22	-1,617.55	-9,001.10	2,127.79	1,922.74	205.05	10.377		
14,600.00	7,224.21	7,366.22	7,227.99	217.33	40.98	-90.26	-1,617.53	-9,001.13	2,066.32	1,854.53	211.79	9.757		
14,700.00	7,223.89	7,367.59	7,229.35	220.16	40.98	-90.31	-1,617.51	-9,001.15	2,007.94	1,789.27	218.68	9.182		
14,800.00	7,223.58	7,368.95	7,230.71	222.98	40.99	-90.36	-1,617.49	-9,001.17	1,952.95	1,727.27	225.68	8.654		
14,900.00	7,223.27	7,370.30	7,232.06	225.81	40.99	-90.41	-1,617.47	-9,001.19	1,901.63	1,668.89	232.74	8.171		
14,987.41	7,223.00	7,371.48	7,233.24	228.28	40.99	-90.45	-1,617.45	-9,001.21	1,860.01	1,621.11	238.90	7.786 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	0.00	36.00	3.28	3.28	-107.99	-2,914.99	-8,979.35	9,440.72					
100.00	100.00	185.11	221.08	3.28	3.33	-107.97	-2,912.05	-8,979.00	9,440.19	9,433.57	6.62	1,426.478		
200.00	200.00	309.96	345.89	3.34	3.47	-107.95	-2,909.11	-8,978.03	9,438.70	9,431.90	6.81	1,386.051		
300.00	300.00	417.12	453.00	3.44	3.65	-107.94	-2,905.83	-8,977.35	9,437.17	9,430.07	7.10	1,329.216		
400.00	400.00	499.62	535.44	3.60	3.83	-107.92	-2,902.76	-8,976.96	9,435.58	9,428.14	7.43	1,269.497		
500.00	500.00	542.00	577.78	3.81	3.93	-107.91	-2,900.93	-8,976.96	9,434.36	9,426.63	7.73	1,219.768		
600.00	600.00	593.11	628.84	4.05	4.06	-107.89	-2,898.63	-8,977.30	9,433.70	9,425.60	8.10	1,164.107		
700.00	699.98	648.00	683.67	4.32	4.21	-49.90	-2,896.20	-8,978.18	9,432.67	9,424.15	8.52	1,107.117		
800.00	799.94	668.76	704.40	4.61	4.26	-49.89	-2,895.31	-8,978.65	9,431.40	9,422.53	8.87	1,063.285		
900.00	899.89	723.26	758.85	4.92	4.42	-49.89	-2,893.20	-8,980.11	9,430.80	9,421.46	9.34	1,009.620		
1,000.00	999.85	790.00	825.51	5.25	4.62	-49.88	-2,890.76	-8,981.98	9,430.48	9,420.60	9.88	954.973		
1,034.12	1,033.96	814.81	850.29	5.37	4.70	-49.87	-2,889.82	-8,982.74	9,430.44	9,420.37	10.07	936.483		
1,100.00	1,099.80	842.70	878.14	5.60	4.79	-49.87	-2,888.63	-8,983.76	9,430.60	9,420.21	10.39	907.716		
1,200.00	1,199.76	884.00	919.35	5.96	4.93	-49.86	-2,886.60	-8,985.56	9,431.34	9,420.46	10.88	866.579		
1,300.00	1,299.72	884.00	919.35	6.33	4.93	-49.86	-2,886.60	-8,985.56	9,432.93	9,421.68	11.25	838.288		
1,400.00	1,399.67	939.72	974.90	6.71	5.12	-49.84	-2,883.65	-8,988.69	9,434.98	9,423.17	11.82	798.348		
1,500.00	1,499.63	979.00	1,014.03	7.10	5.25	-49.83	-2,881.57	-8,991.44	9,437.99	9,425.65	12.34	764.963		
1,600.00	1,599.58	1,008.64	1,043.53	7.49	5.36	-49.82	-2,879.91	-8,993.76	9,441.66	9,428.83	12.83	735.755		
1,700.00	1,699.54	1,074.00	1,108.50	7.88	5.60	-49.80	-2,875.53	-8,999.42	9,445.91	9,432.45	13.46	701.541		
1,800.00	1,799.50	1,142.57	1,176.52	8.28	5.87	-49.76	-2,869.83	-9,005.95	9,450.52	9,436.39	14.13	669.028		
1,900.00	1,899.45	1,195.18	1,228.60	8.69	6.08	-49.73	-2,864.65	-9,011.31	9,455.39	9,440.66	14.74	641.642		
2,000.00	1,999.41	1,232.53	1,265.48	9.10	6.24	-49.70	-2,860.60	-9,015.50	9,460.90	9,445.61	15.29	618.671		
2,100.00	2,099.36	1,263.00	1,295.53	9.51	6.37	-49.68	-2,857.08	-9,019.17	9,467.09	9,451.26	15.82	598.310		
2,200.00	2,199.32	1,302.64	1,334.52	9.92	6.55	-49.65	-2,852.16	-9,024.33	9,473.95	9,457.54	16.40	577.612		
2,300.00	2,299.28	1,358.00	1,388.78	10.34	6.80	-49.60	-2,844.59	-9,032.30	9,481.59	9,464.53	17.05	555.946		
2,400.00	2,399.23	1,392.17	1,422.20	10.75	6.97	-49.56	-2,839.68	-9,037.50	9,489.74	9,472.12	17.62	538.589		
2,500.00	2,499.19	1,496.83	1,524.59	11.17	7.48	-49.46	-2,824.90	-9,053.32	9,498.11	9,479.59	18.52	512.732		
2,600.00	2,599.14	1,571.98	1,598.27	11.60	7.86	-49.40	-2,815.07	-9,064.41	9,506.51	9,487.21	19.30	492.651		
2,700.00	2,699.10	1,617.58	1,642.94	12.02	8.09	-49.35	-2,809.16	-9,071.37	9,515.40	9,495.47	19.93	477.500		
2,800.00	2,799.06	1,691.24	1,715.06	12.44	8.47	-49.29	-2,799.65	-9,082.99	9,524.80	9,504.10	20.70	460.100		
2,900.00	2,899.01	1,857.87	1,878.38	12.87	9.35	-49.14	-2,778.53	-9,108.39	9,533.71	9,511.75	21.96	434.141		
3,000.00	2,998.97	1,898.70	1,918.34	13.29	9.57	-49.11	-2,773.09	-9,114.72	9,542.80	9,520.22	22.58	422.621		
3,100.00	3,098.92	2,022.00	2,039.10	13.72	10.25	-49.00	-2,757.28	-9,133.96	9,552.16	9,528.53	23.64	404.145		
3,200.00	3,198.88	2,089.56	2,105.36	14.14	10.62	-48.94	-2,749.01	-9,144.22	9,561.35	9,536.96	24.40	391.887		
3,300.00	3,298.84	2,355.71	2,365.66	14.57	12.13	-48.69	-2,711.08	-9,184.51	9,569.77	9,543.51	26.26	364.373		
3,400.00	3,398.79	2,401.00	2,410.05	15.00	12.38	-48.65	-2,704.99	-9,191.11	9,577.94	9,551.02	26.92	355.739		
3,500.00	3,498.75	2,453.46	2,461.51	15.43	12.68	-48.60	-2,698.37	-9,198.91	9,586.65	9,559.04	27.62	347.119		
3,600.00	3,598.70	2,518.94	2,525.65	15.86	13.06	-48.55	-2,689.80	-9,208.85	9,595.67	9,567.28	28.39	338.051		
3,700.00	3,698.66	2,568.37	2,574.00	16.29	13.34	-48.50	-2,683.12	-9,216.67	9,605.16	9,576.09	29.07	330.446		
3,800.00	3,798.62	2,675.17	2,678.35	16.72	13.97	-48.40	-2,668.35	-9,234.01	9,615.01	9,584.94	30.08	319.676		
3,900.00	3,898.57	2,751.49	2,752.93	17.15	14.42	-48.33	-2,657.87	-9,246.31	9,624.81	9,593.89	30.92	311.321		
4,000.00	3,998.53	4,000.00	2,876.48	17.59	21.77	-48.22	-2,641.47	-9,266.32	9,634.53	9,596.37	38.16	252.457		
4,100.00	4,098.48	2,919.36	2,917.34	18.02	15.40	-48.18	-2,636.68	-9,272.77	9,644.44	9,611.78	32.66	295.268		
4,200.00	4,198.44	2,969.00	2,966.02	18.45	15.68	-48.15	-2,631.31	-9,280.88	9,655.12	9,621.79	33.34	289.613		
4,300.00	4,298.40	3,013.65	3,009.76	18.88	15.95	-48.11	-2,626.47	-9,288.43	9,666.34	9,632.35	33.99	284.416		
4,400.00	4,398.35	3,223.86	3,216.03	19.32	17.15	-47.95	-2,603.89	-9,321.92	9,676.45	9,640.90	35.55	272.228		
4,500.00	4,498.31	3,418.47	3,407.75	19.75	18.22	-47.84	-2,587.00	-9,350.75	9,686.60	9,649.63	36.98	261.976		
4,600.00	4,598.26	3,729.00	3,714.36	20.19	19.88	-47.65	-2,558.60	-9,390.70	9,694.06	9,655.06	39.00	248.557		
4,700.00	4,698.22	3,766.78	3,751.61	20.62	20.09	-47.62	-2,554.54	-9,395.49	9,701.49	9,661.88	39.62	244.881		
4,800.00	4,798.18	3,824.00	3,807.87	21.05	20.41	-47.58	-2,547.76	-9,403.46	9,709.67	9,669.34	40.34	240.711		
4,900.00	4,898.13	3,824.00	3,807.87	21.49	20.41	-47.58	-2,547.76	-9,403.46	9,718.39	9,677.65	40.74	238.534		
5,000.00	4,998.09	3,878.21	3,861.02	21.92	20.74	-47.53	-2,540.91	-9,411.65	9,727.76	9,686.31	41.45	234.663		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,100.00	5,098.04	3,916.00	3,898.01	22.36	20.96	-47.50	-2,536.03	-9,417.65	9,737.77	9,695.70	42.07	231.465		
5,200.00	5,198.00	5,200.00	4,042.83	22.79	28.55	-47.38	-2,517.39	-9,441.36	9,748.06	9,698.55	49.50	196.920		
5,300.00	5,297.96	4,201.00	4,177.33	23.23	22.64	-47.27	-2,500.99	-9,462.05	9,757.50	9,713.00	44.50	219.268		
5,400.00	5,397.91	4,321.53	4,295.34	23.67	23.36	-47.16	-2,484.92	-9,480.58	9,766.98	9,721.38	45.60	214.176		
5,500.00	5,497.87	4,437.35	4,408.34	24.10	24.08	-47.05	-2,467.03	-9,498.56	9,776.08	9,729.38	46.70	209.334		
5,600.00	5,597.82	4,506.06	4,475.14	24.54	24.51	-46.97	-2,455.30	-9,509.58	9,785.35	9,737.82	47.53	205.898		
5,700.00	5,697.78	4,558.76	4,526.29	24.97	24.85	-46.92	-2,446.08	-9,518.31	9,795.05	9,746.80	48.25	202.987		
5,800.00	5,797.74	4,722.44	4,685.73	25.41	25.88	-46.75	-2,420.01	-9,544.46	9,804.51	9,754.86	49.65	197.453		
5,900.00	5,897.69	4,908.53	4,867.82	25.85	27.00	-46.58	-2,393.75	-9,572.46	9,813.77	9,762.62	51.15	191.862		
6,000.00	5,997.65	5,788.68	5,741.52	26.28	31.22	-46.23	-2,330.46	-9,645.98	9,816.25	9,760.52	55.73	176.145		
6,100.00	6,097.60	6,074.57	6,027.34	26.72	32.28	-46.24	-2,327.98	-9,651.41	9,815.76	9,758.54	57.22	171.551		
6,200.00	6,197.56	6,200.00	6,270.43	27.16	32.74	-46.26	-2,325.65	-9,651.49	9,813.24	9,755.15	58.09	168.933		
6,300.00	6,297.52	6,433.68	6,386.42	27.59	33.57	-46.26	-2,324.16	-9,650.67	9,810.16	9,750.76	59.40	165.168		
6,400.00	6,397.47	6,478.71	6,431.43	28.03	33.74	-46.27	-2,323.44	-9,650.56	9,807.48	9,747.46	60.02	163.407		
6,500.00	6,497.43	6,566.00	6,518.71	28.47	34.06	-46.27	-2,321.88	-9,651.14	9,805.56	9,744.77	60.79	161.299		
6,600.00	6,597.38	6,566.00	6,518.71	28.90	34.06	-46.27	-2,321.88	-9,651.14	9,803.80	9,742.55	61.25	160.058		
6,700.00	6,697.08	6,625.36	6,578.06	29.34	34.29	-20.52	-2,320.84	-9,652.00	9,798.80	9,736.87	61.93	158.223		
6,800.00	6,794.63	6,680.25	6,632.93	29.79	34.50	-17.50	-2,320.01	-9,653.02	9,779.72	9,717.14	62.59	156.256		
6,900.00	6,887.62	6,755.00	6,707.65	30.24	34.79	-17.31	-2,319.11	-9,654.76	9,746.46	9,683.16	63.30	153.969		
7,000.00	6,973.77	6,790.43	6,743.07	30.70	34.92	-18.17	-2,318.75	-9,655.70	9,699.62	9,635.78	63.83	151.954		
7,100.00	7,050.94	6,848.74	6,801.35	31.20	35.15	-19.98	-2,318.20	-9,657.34	9,640.32	9,575.91	64.41	149.675		
7,200.00	7,117.24	6,899.44	6,852.03	31.77	35.35	-23.02	-2,317.76	-9,658.85	9,569.93	9,505.03	64.91	147.439		
7,300.00	7,171.03	6,944.00	6,896.57	32.46	35.52	-28.01	-2,317.41	-9,660.26	9,490.13	9,424.80	65.34	145.253		
7,400.00	7,211.00	6,944.00	6,896.57	33.29	35.52	-36.27	-2,317.41	-9,660.26	9,402.91	9,337.36	65.55	143.447		
7,500.00	7,236.16	6,982.76	6,935.31	34.29	35.68	-51.74	-2,317.09	-9,661.58	9,310.22	9,244.35	65.87	141.337		
7,600.00	7,245.89	6,990.44	6,942.97	35.43	35.71	-78.65	-2,317.01	-9,661.86	9,214.46	9,148.42	66.05	139.515		
7,700.00	7,245.73	6,992.47	6,945.00	36.72	35.72	-83.36	-2,317.00	-9,661.93	9,117.85	9,051.66	66.19	137.749		
7,800.00	7,245.42	6,994.43	6,946.97	38.18	35.73	-83.41	-2,316.98	-9,662.01	9,021.31	8,954.95	66.36	135.949		
7,900.00	7,245.10	6,996.42	6,948.95	39.80	35.74	-83.46	-2,316.96	-9,662.08	8,924.84	8,858.29	66.55	134.111		
8,000.00	7,244.79	6,998.42	6,950.95	41.54	35.74	-83.50	-2,316.94	-9,662.16	8,828.45	8,761.68	66.76	132.236		
8,100.00	7,244.48	7,000.45	6,952.98	43.41	35.75	-83.55	-2,316.92	-9,662.23	8,732.14	8,665.13	67.00	130.324		
8,200.00	7,244.17	7,002.50	6,955.03	45.38	35.76	-83.60	-2,316.90	-9,662.31	8,635.91	8,568.64	67.27	128.376		
8,300.00	7,243.86	7,004.58	6,957.11	47.44	35.77	-83.65	-2,316.88	-9,662.39	8,539.77	8,472.20	67.57	126.392		
8,400.00	7,243.55	7,006.68	6,959.20	49.58	35.78	-83.70	-2,316.85	-9,662.47	8,443.71	8,375.82	67.89	124.374		
8,500.00	7,243.23	7,008.80	6,961.32	51.78	35.79	-83.75	-2,316.83	-9,662.55	8,347.75	8,279.51	68.24	122.323		
8,600.00	7,242.92	7,010.95	6,963.47	54.05	35.80	-83.81	-2,316.81	-9,662.63	8,251.89	8,183.26	68.63	120.240		
8,700.00	7,242.61	7,013.12	6,965.64	56.37	35.80	-83.86	-2,316.79	-9,662.71	8,156.12	8,087.07	69.05	118.126		
8,800.00	7,242.30	7,015.31	6,967.83	58.74	35.81	-83.91	-2,316.77	-9,662.80	8,060.45	7,990.96	69.50	115.984		
8,900.00	7,241.99	7,017.53	6,970.05	61.16	35.82	-83.96	-2,316.74	-9,662.89	7,964.89	7,894.91	69.98	113.816		
9,000.00	7,241.67	7,019.78	6,972.30	63.61	35.83	-84.02	-2,316.72	-9,662.98	7,869.44	7,798.94	70.50	111.622		
9,100.00	7,241.36	7,022.05	6,974.57	66.09	35.84	-84.07	-2,316.69	-9,663.06	7,774.10	7,703.05	71.06	109.407		
9,200.00	7,241.05	7,024.35	6,976.87	68.60	35.85	-84.13	-2,316.67	-9,663.16	7,678.88	7,607.23	71.65	107.171		
9,300.00	7,240.74	7,026.68	6,979.19	71.13	35.86	-84.19	-2,316.64	-9,663.25	7,583.78	7,511.50	72.28	104.918		
9,400.00	7,240.43	7,029.04	6,981.54	73.70	35.87	-84.24	-2,316.62	-9,663.34	7,488.81	7,415.86	72.95	102.651		
9,500.00	7,240.11	7,031.42	6,983.93	76.28	35.88	-84.30	-2,316.59	-9,663.44	7,393.97	7,320.30	73.67	100.370		
9,600.00	7,239.80	7,033.83	6,986.34	78.88	35.89	-84.36	-2,316.56	-9,663.54	7,299.27	7,224.85	74.42	98.081		
9,700.00	7,239.49	7,036.28	6,988.78	81.50	35.90	-84.42	-2,316.54	-9,663.64	7,204.71	7,129.49	75.22	95.784		
9,800.00	7,239.18	7,038.75	6,991.25	84.13	35.91	-84.48	-2,316.51	-9,663.74	7,110.29	7,034.23	76.06	93.483		
9,900.00	7,238.87	7,041.25	6,993.75	86.78	35.92	-84.54	-2,316.48	-9,663.84	7,016.03	6,939.08	76.95	91.182		
10,000.00	7,238.55	7,043.78	6,996.28	89.44	35.93	-84.60	-2,316.45	-9,663.95	6,921.93	6,844.05	77.88	88.881		
10,100.00	7,238.24	7,046.35	6,998.84	92.11	35.94	-84.66	-2,316.42	-9,664.05	6,827.99	6,749.13	78.86	86.585		
10,200.00	7,237.93	7,048.94	7,001.43	94.80	35.95	-84.72	-2,316.39	-9,664.16	6,734.23	6,654.34	79.89	84.296		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	7,051.57	7,004.06	97.49	35.96	-84.79	-2,316.36	-9,664.27	6,640.65	6,559.68	80.97	82.017		
10,400.00	7,237.31	7,054.24	7,006.72	100.19	35.97	-84.85	-2,316.32	-9,664.39	6,547.26	6,465.16	82.10	79.749		
10,500.00	7,236.99	7,056.93	7,009.41	102.90	35.98	-84.92	-2,316.29	-9,664.50	6,454.06	6,370.78	83.28	77.497		
10,600.00	7,236.68	7,059.67	7,012.14	105.62	35.99	-84.98	-2,316.26	-9,664.62	6,361.07	6,276.55	84.52	75.261		
10,700.00	7,236.37	7,062.43	7,014.91	108.35	36.00	-85.05	-2,316.22	-9,664.74	6,268.29	6,182.47	85.81	73.045		
10,800.00	7,236.06	7,065.24	7,017.71	111.08	36.02	-85.12	-2,316.19	-9,664.86	6,175.73	6,088.57	87.17	70.851		
10,900.00	7,235.75	7,068.08	7,020.55	113.82	36.03	-85.19	-2,316.15	-9,664.99	6,083.41	5,994.84	88.58	68.680		
11,000.00	7,235.44	7,070.95	7,023.42	116.56	36.04	-85.25	-2,316.11	-9,665.11	5,991.34	5,901.29	90.05	66.535		
11,100.00	7,235.12	7,073.87	7,026.33	119.31	36.05	-85.33	-2,316.08	-9,665.24	5,899.52	5,807.93	91.58	64.418		
11,200.00	7,234.81	7,076.82	7,029.28	122.07	36.06	-85.40	-2,316.04	-9,665.37	5,807.96	5,714.78	93.18	62.330		
11,300.00	7,234.50	7,079.82	7,032.27	124.83	36.07	-85.47	-2,316.00	-9,665.51	5,716.69	5,621.85	94.85	60.273		
11,400.00	7,234.19	7,082.85	7,035.31	127.59	36.09	-85.54	-2,315.96	-9,665.65	5,625.72	5,529.13	96.58	58.248		
11,500.00	7,233.88	7,085.93	7,038.38	130.36	36.10	-85.62	-2,315.92	-9,665.79	5,535.05	5,436.66	98.39	56.257		
11,600.00	7,233.56	7,089.05	7,041.49	133.13	36.11	-85.69	-2,315.87	-9,665.93	5,444.70	5,344.44	100.27	54.302		
11,700.00	7,233.25	7,092.21	7,044.65	135.91	36.12	-85.77	-2,315.83	-9,666.07	5,354.70	5,252.48	102.22	52.383		
11,800.00	7,232.94	7,095.42	7,047.85	138.68	36.14	-85.85	-2,315.79	-9,666.22	5,265.06	5,160.80	104.26	50.501		
11,900.00	7,232.63	7,098.67	7,051.10	141.47	36.15	-85.93	-2,315.74	-9,666.37	5,175.79	5,069.42	106.37	48.657		
12,000.00	7,232.32	7,101.96	7,054.39	144.25	36.16	-86.01	-2,315.69	-9,666.53	5,086.92	4,978.35	108.57	46.853		
12,100.00	7,232.00	7,105.31	7,057.73	147.04	36.18	-86.09	-2,315.65	-9,666.69	4,998.47	4,887.61	110.86	45.088		
12,200.00	7,231.69	7,108.70	7,061.12	149.83	36.19	-86.17	-2,315.60	-9,666.85	4,910.45	4,797.21	113.24	43.364		
12,300.00	7,231.38	7,112.14	7,064.56	152.62	36.20	-86.25	-2,315.55	-9,667.01	4,822.90	4,707.19	115.71	41.681		
12,400.00	7,231.07	7,115.63	7,068.04	155.42	36.22	-86.34	-2,315.50	-9,667.18	4,735.84	4,617.57	118.28	40.040		
12,500.00	7,230.76	7,119.17	7,071.58	158.22	36.23	-86.42	-2,315.44	-9,667.35	4,649.30	4,528.36	120.95	38.441		
12,600.00	7,230.44	7,122.76	7,075.17	161.01	36.25	-86.51	-2,315.39	-9,667.53	4,563.31	4,439.59	123.72	36.884		
12,700.00	7,230.13	7,126.41	7,078.81	163.82	36.26	-86.60	-2,315.33	-9,667.71	4,477.89	4,351.29	126.60	35.370		
12,800.00	7,229.82	7,133.00	7,085.39	166.62	36.29	-86.76	-2,315.23	-9,668.03	4,393.08	4,263.48	129.60	33.897		
12,900.00	7,229.51	7,134.28	7,086.67	169.43	36.29	-86.79	-2,315.21	-9,668.10	4,308.92	4,176.22	132.70	32.471		
13,000.00	7,229.20	7,139.78	7,092.16	172.23	36.32	-86.92	-2,315.13	-9,668.37	4,225.45	4,089.52	135.94	31.084		
13,100.00	7,228.88	7,145.21	7,097.59	175.04	36.34	-87.06	-2,315.05	-9,668.64	4,142.70	4,003.41	139.29	29.741		
13,200.00	7,228.57	7,150.58	7,102.95	177.85	36.36	-87.19	-2,314.96	-9,668.91	4,060.73	3,917.95	142.78	28.441		
13,300.00	7,228.26	7,155.89	7,108.25	180.66	36.38	-87.32	-2,314.88	-9,669.17	3,979.57	3,833.18	146.39	27.184		
13,400.00	7,227.95	7,161.12	7,113.48	183.48	36.40	-87.44	-2,314.80	-9,669.42	3,899.28	3,749.13	150.14	25.970		
13,500.00	7,227.64	7,166.30	7,118.65	186.29	36.43	-87.57	-2,314.73	-9,669.67	3,819.91	3,665.88	154.03	24.799		
13,600.00	7,227.33	7,171.42	7,123.76	189.11	36.45	-87.69	-2,314.65	-9,669.92	3,741.53	3,583.46	158.07	23.670		
13,700.00	7,227.01	7,176.47	7,128.80	191.92	36.47	-87.82	-2,314.57	-9,670.16	3,664.20	3,501.95	162.25	22.584		
13,800.00	7,226.70	7,181.46	7,133.79	194.74	36.49	-87.94	-2,314.50	-9,670.40	3,587.97	3,421.40	166.57	21.540		
13,900.00	7,226.39	7,186.40	7,138.72	197.56	36.51	-88.06	-2,314.43	-9,670.63	3,512.94	3,341.89	171.05	20.537		
14,000.00	7,226.08	7,191.28	7,143.59	200.38	36.53	-88.18	-2,314.35	-9,670.86	3,439.17	3,263.49	175.68	19.576		
14,100.00	7,225.77	7,196.10	7,148.41	203.21	36.55	-88.29	-2,314.28	-9,671.08	3,366.75	3,186.28	180.47	18.656		
14,200.00	7,225.45	7,200.87	7,153.17	206.03	36.57	-88.41	-2,314.21	-9,671.31	3,295.76	3,110.36	185.40	17.776		
14,300.00	7,225.14	7,205.58	7,157.88	208.85	36.59	-88.53	-2,314.15	-9,671.52	3,226.31	3,035.82	190.49	16.937		
14,400.00	7,224.83	7,210.24	7,162.53	211.68	36.61	-88.64	-2,314.08	-9,671.74	3,158.49	2,962.76	195.72	16.137		
14,500.00	7,224.52	7,214.84	7,167.13	214.50	36.63	-88.75	-2,314.01	-9,671.95	3,092.40	2,891.30	201.10	15.377		
14,600.00	7,224.21	7,219.40	7,171.68	217.33	36.64	-88.86	-2,313.95	-9,672.16	3,028.18	2,821.56	206.62	14.656		
14,700.00	7,223.89	7,223.90	7,176.18	220.16	36.66	-88.97	-2,313.88	-9,672.36	2,965.93	2,753.67	212.26	13.973		
14,800.00	7,223.58	7,228.35	7,180.63	222.98	36.68	-89.08	-2,313.82	-9,672.56	2,905.78	2,687.76	218.01	13.328		
14,900.00	7,223.27	7,232.76	7,185.02	225.81	36.70	-89.19	-2,313.76	-9,672.76	2,847.86	2,623.99	223.87	12.721		
14,987.41	7,223.00	7,236.57	7,188.83	228.28	36.71	-89.28	-2,313.70	-9,672.93	2,799.18	2,570.12	229.06	12.221	CC, ES, SF	

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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-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	36.00	3.28	3.28	-108.31	-2,973.27	-8,987.71	9,466.82					
100.00	100.00	43.19	79.19	3.28	3.28	-108.30	-2,973.16	-8,987.80	9,466.82	9,460.25	6.57	1,441.868		
200.00	200.00	113.78	149.78	3.34	3.29	-108.30	-2,972.52	-8,988.30	9,467.20	9,460.57	6.63	1,427.928		
300.00	300.00	171.00	206.98	3.44	3.33	-108.29	-2,971.57	-8,989.00	9,467.89	9,461.12	6.77	1,398.578		
400.00	400.00	209.88	245.84	3.60	3.36	-108.29	-2,970.88	-8,989.71	9,469.15	9,462.19	6.96	1,360.269		
500.00	500.00	263.00	298.94	3.81	3.41	-108.28	-2,970.19	-8,991.19	9,471.21	9,463.99	7.22	1,311.454		
600.00	600.00	263.00	298.94	4.05	3.41	-108.28	-2,970.19	-8,991.19	9,473.86	9,466.40	7.47	1,268.999		
700.00	699.98	263.00	298.94	4.32	3.41	-50.25	-2,970.19	-8,991.19	9,476.48	9,468.74	7.74	1,224.811		
800.00	799.94	305.14	341.04	4.61	3.47	-50.25	-2,970.08	-8,992.93	9,478.83	9,470.74	8.09	1,172.275		
900.00	899.89	354.00	389.82	4.92	3.55	-50.25	-2,970.75	-8,995.79	9,482.48	9,474.00	8.48	1,118.806		
1,000.00	999.85	354.00	389.82	5.25	3.55	-50.25	-2,970.75	-8,995.79	9,486.49	9,477.68	8.81	1,076.639		
1,100.00	1,099.80	354.00	389.82	5.60	3.55	-50.25	-2,970.75	-8,995.79	9,491.55	9,482.39	9.16	1,035.995		
1,200.00	1,199.76	354.00	389.82	5.96	3.55	-50.25	-2,970.75	-8,995.79	9,497.67	9,488.14	9.52	997.190		
1,300.00	1,299.72	410.49	446.11	6.33	3.65	-50.26	-2,972.74	-8,999.93	9,504.14	9,494.15	9.99	951.303		
1,400.00	1,399.67	445.00	480.46	6.71	3.73	-50.27	-2,974.66	-9,002.77	9,511.65	9,501.22	10.43	911.540		
1,500.00	1,499.63	1,500.00	559.71	7.10	8.10	-50.31	-2,980.52	-9,009.10	9,519.62	9,506.04	13.58	701.063		
1,600.00	1,599.58	612.03	646.44	7.49	4.15	-50.35	-2,988.13	-9,015.59	9,527.58	9,515.98	11.60	821.673		
1,700.00	1,699.54	726.00	759.52	7.88	4.51	-50.42	-2,999.85	-9,023.69	9,535.73	9,523.42	12.31	774.531		
1,800.00	1,799.50	1,339.77	1,370.73	8.28	6.84	-50.66	-3,039.11	-9,059.23	9,543.26	9,528.37	14.88	641.172		
1,900.00	1,899.45	1,383.00	1,413.90	8.69	7.01	-50.66	-3,039.92	-9,061.37	9,546.39	9,530.94	15.45	617.825		
2,000.00	1,999.41	1,383.00	1,413.90	9.10	7.01	-50.66	-3,039.92	-9,061.37	9,550.12	9,534.26	15.86	602.244		
2,100.00	2,099.36	1,383.00	1,413.90	9.51	7.01	-50.66	-3,039.92	-9,061.37	9,554.89	9,538.63	16.26	587.459		
2,200.00	2,199.32	1,383.00	1,413.90	9.92	7.01	-50.66	-3,039.92	-9,061.37	9,560.71	9,544.04	16.67	573.431		
2,300.00	2,299.28	1,383.00	1,413.90	10.34	7.01	-50.66	-3,039.92	-9,061.37	9,567.58	9,550.49	17.08	560.125		
2,400.00	2,399.23	1,445.00	1,475.62	10.75	7.27	-50.67	-3,041.64	-9,066.89	9,575.07	9,557.34	17.73	539.994		
2,500.00	2,499.19	1,445.00	1,475.62	11.17	7.27	-50.67	-3,041.64	-9,066.89	9,583.37	9,565.23	18.14	528.303		
2,600.00	2,599.14	1,445.00	1,475.62	11.60	7.27	-50.67	-3,041.64	-9,066.89	9,592.69	9,574.15	18.55	517.204		
2,700.00	2,699.10	1,445.00	1,475.62	12.02	7.27	-50.67	-3,041.64	-9,066.89	9,603.06	9,584.10	18.95	506.665		
2,800.00	2,799.06	1,520.64	1,550.64	12.44	7.61	-50.68	-3,045.04	-9,075.93	9,613.98	9,594.31	19.67	488.797		
2,900.00	2,899.01	1,569.00	1,598.58	12.87	7.83	-50.69	-3,047.74	-9,081.71	9,625.30	9,605.03	20.27	474.764		
3,000.00	2,998.97	1,603.65	1,632.89	13.29	7.99	-50.70	-3,050.10	-9,085.93	9,637.25	9,616.42	20.83	462.748		
3,100.00	3,098.92	1,631.75	1,660.68	13.72	8.13	-50.72	-3,052.40	-9,089.46	9,649.93	9,628.58	21.35	451.993		
3,200.00	3,198.88	1,665.00	1,693.49	14.14	8.29	-50.73	-3,055.58	-9,093.75	9,663.34	9,641.45	21.90	441.349		
3,300.00	3,298.84	1,665.00	1,693.49	14.57	8.29	-50.73	-3,055.58	-9,093.75	9,677.58	9,655.28	22.29	434.097		
3,400.00	3,398.79	1,699.82	1,727.77	15.00	8.47	-50.75	-3,059.36	-9,098.52	9,692.50	9,669.65	22.85	424.226		
3,500.00	3,498.75	3,500.00	1,765.74	15.43	18.40	-50.77	-3,064.07	-9,104.38	9,708.50	9,677.15	31.35	309.661		
3,600.00	3,598.70	1,893.62	1,918.05	15.86	9.48	-50.85	-3,083.01	-9,126.64	9,724.26	9,699.73	24.53	396.372		
3,700.00	3,698.66	3,700.00	2,031.09	16.29	19.55	-50.92	-3,098.08	-9,142.57	9,739.86	9,706.60	33.26	292.883		
3,800.00	3,798.62	2,086.90	2,107.88	16.72	10.52	-50.97	-3,108.07	-9,152.98	9,754.94	9,728.70	26.24	371.744		
3,900.00	3,898.57	2,136.00	2,156.05	17.15	10.79	-51.00	-3,114.28	-9,160.18	9,770.91	9,744.04	26.87	363.637		
4,000.00	3,998.53	2,142.41	2,162.33	17.59	10.82	-51.00	-3,115.09	-9,161.16	9,787.40	9,760.11	27.29	358.632		
4,100.00	4,098.48	4,100.00	2,299.86	18.02	22.15	-51.08	-3,133.50	-9,182.38	9,804.26	9,767.38	36.88	265.821		
4,200.00	4,198.44	2,419.00	2,433.42	18.45	12.38	-51.16	-3,151.95	-9,201.81	9,820.37	9,790.94	29.44	333.599		
4,300.00	4,298.40	2,458.07	2,471.68	18.88	12.61	-51.19	-3,157.54	-9,207.37	9,836.81	9,806.79	30.02	327.631		
4,400.00	4,398.35	2,517.00	2,529.27	19.32	12.95	-51.23	-3,166.51	-9,216.06	9,853.93	9,823.22	30.71	320.865		
4,500.00	4,498.31	2,547.91	2,559.44	19.75	13.14	-51.25	-3,171.39	-9,220.72	9,871.50	9,840.25	31.25	315.846		
4,600.00	4,598.26	2,607.00	2,617.09	20.19	13.49	-51.30	-3,180.71	-9,229.73	9,889.46	9,857.51	31.94	309.596		
4,700.00	4,698.22	4,700.00	3,418.31	20.62	25.03	-51.83	-3,293.79	-9,332.16	9,904.84	9,862.23	42.61	232.460		
4,800.00	4,798.18	3,509.89	3,504.01	21.05	18.61	-51.89	-3,305.05	-9,339.75	9,915.77	9,878.43	37.34	265.527		
4,900.00	4,898.13	3,550.00	3,543.56	21.49	18.83	-51.91	-3,310.62	-9,343.42	9,927.33	9,889.38	37.95	261.593		
5,000.00	4,998.09	3,581.27	3,574.37	21.92	19.00	-51.94	-3,315.02	-9,346.46	9,939.52	9,901.01	38.51	258.103		
5,100.00	5,098.04	3,617.14	3,609.69	22.36	19.20	-51.96	-3,319.99	-9,350.21	9,952.36	9,913.26	39.09	254.591		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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-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	5,198.00	3,644.00	3,636.14	22.79	19.35	-51.98	-3,323.66	-9,353.19	9,965.83	9,926.21	39.62	251.506		
5,300.00	5,297.96	3,644.00	3,636.14	23.23	19.35	-51.98	-3,323.66	-9,353.19	9,980.19	9,940.18	40.01	249.413		
5,400.00	5,397.91	3,692.47	3,683.76	23.67	19.63	-52.01	-3,330.50	-9,359.05	9,994.99	9,954.34	40.66	245.832		
7,100.00	7,050.94	7,126.18	7,084.93	31.20	36.08	-29.42	-3,564.50	-9,618.80	9,986.83	9,923.80	63.03	158.444		
7,200.00	7,117.24	7,173.35	7,132.09	31.77	36.24	-33.79	-3,563.77	-9,618.96	9,917.37	9,853.86	63.51	156.147		
7,300.00	7,171.03	7,229.00	7,187.74	32.46	36.43	-40.60	-3,563.02	-9,619.24	9,839.27	9,775.28	63.98	153.781		
7,400.00	7,211.00	7,241.53	7,200.27	33.29	36.47	-50.83	-3,562.85	-9,619.32	9,754.33	9,690.06	64.28	151.752		
7,500.00	7,236.16	7,261.45	7,220.18	34.29	36.54	-66.35	-3,562.55	-9,619.47	9,664.71	9,600.13	64.57	149.667		
7,600.00	7,245.89	7,269.63	7,228.36	35.43	36.57	-87.04	-3,562.42	-9,619.54	9,572.56	9,507.74	64.82	147.683		
7,700.00	7,245.73	7,270.20	7,228.93	36.72	36.57	-90.17	-3,562.41	-9,619.55	9,479.95	9,414.90	65.05	145.738		
7,800.00	7,245.42	7,270.64	7,229.37	38.18	36.58	-90.18	-3,562.40	-9,619.55	9,387.49	9,322.17	65.32	143.713		
7,900.00	7,245.10	7,271.10	7,229.83	39.80	36.58	-90.18	-3,562.39	-9,619.56	9,295.19	9,229.55	65.64	141.609		
8,000.00	7,244.79	7,271.56	7,230.29	41.54	36.58	-90.19	-3,562.39	-9,619.56	9,203.04	9,137.04	66.01	139.428		
8,100.00	7,244.48	7,272.02	7,230.75	43.41	36.58	-90.20	-3,562.38	-9,619.56	9,111.07	9,044.65	66.42	137.174		
8,200.00	7,244.17	7,272.49	7,231.22	45.38	36.58	-90.20	-3,562.37	-9,619.57	9,019.26	8,952.38	66.88	134.852		
8,300.00	7,243.86	7,272.96	7,231.69	47.44	36.58	-90.21	-3,562.36	-9,619.57	8,927.63	8,860.23	67.40	132.465		
8,400.00	7,243.55	7,273.44	7,232.17	49.58	36.59	-90.22	-3,562.35	-9,619.58	8,836.18	8,768.22	67.96	130.020		
8,500.00	7,243.23	7,273.93	7,232.66	51.78	36.59	-90.23	-3,562.35	-9,619.58	8,744.92	8,676.34	68.58	127.521		
8,600.00	7,242.92	7,274.42	7,233.15	54.05	36.59	-90.24	-3,562.34	-9,619.59	8,653.85	8,584.61	69.24	124.975		
8,700.00	7,242.61	7,274.92	7,233.65	56.37	36.59	-90.24	-3,562.33	-9,619.59	8,562.98	8,493.02	69.97	122.388		
8,800.00	7,242.30	7,275.42	7,234.15	58.74	36.59	-90.25	-3,562.32	-9,619.59	8,472.32	8,401.58	70.74	119.767		
8,900.00	7,241.99	7,275.93	7,234.66	61.16	36.59	-90.26	-3,562.31	-9,619.60	8,381.87	8,310.30	71.57	117.116		
9,000.00	7,241.67	7,276.45	7,235.18	63.61	36.60	-90.27	-3,562.30	-9,619.60	8,291.63	8,219.18	72.45	114.444		
9,100.00	7,241.36	7,276.97	7,235.70	66.09	36.60	-90.28	-3,562.29	-9,619.61	8,201.63	8,128.24	73.39	111.756		
9,200.00	7,241.05	7,277.50	7,236.23	68.60	36.60	-90.28	-3,562.28	-9,619.61	8,111.86	8,037.48	74.38	109.059		
9,300.00	7,240.74	7,278.04	7,236.77	71.13	36.60	-90.29	-3,562.27	-9,619.62	8,022.33	7,946.90	75.43	106.358		
9,400.00	7,240.43	7,278.58	7,237.31	73.70	36.60	-90.30	-3,562.26	-9,619.62	7,933.05	7,856.52	76.53	103.659		
9,500.00	7,240.11	7,279.13	7,237.86	76.28	36.61	-90.31	-3,562.25	-9,619.63	7,844.02	7,766.34	77.69	100.968		
9,600.00	7,239.80	7,279.69	7,238.42	78.88	36.61	-90.32	-3,562.24	-9,619.64	7,755.27	7,676.37	78.90	98.289		
9,700.00	7,239.49	7,280.25	7,238.98	81.50	36.61	-90.33	-3,562.23	-9,619.64	7,666.79	7,586.62	80.17	95.628		
9,800.00	7,239.18	7,280.83	7,239.55	84.13	36.61	-90.34	-3,562.22	-9,619.65	7,578.60	7,497.10	81.50	92.988		
9,900.00	7,238.87	7,281.40	7,240.13	86.78	36.61	-90.35	-3,562.21	-9,619.65	7,490.71	7,407.83	82.89	90.374		
10,000.00	7,238.55	7,281.99	7,240.72	89.44	36.62	-90.36	-3,562.20	-9,619.66	7,403.12	7,318.80	84.33	87.790		
10,100.00	7,238.24	7,282.59	7,241.31	92.11	36.62	-90.37	-3,562.19	-9,619.66	7,315.86	7,230.03	85.83	85.239		
10,200.00	7,237.93	7,283.19	7,241.92	94.80	36.62	-90.38	-3,562.18	-9,619.67	7,228.92	7,141.53	87.39	82.724		
10,300.00	7,237.62	7,283.80	7,242.53	97.49	36.62	-90.39	-3,562.17	-9,619.68	7,142.32	7,053.32	89.00	80.247		
10,400.00	7,237.31	7,284.42	7,243.15	100.19	36.62	-90.40	-3,562.16	-9,619.68	7,056.08	6,965.40	90.68	77.811		
10,500.00	7,236.99	7,285.05	7,243.77	102.90	36.63	-90.41	-3,562.15	-9,619.69	6,970.21	6,877.79	92.42	75.419		
10,600.00	7,236.68	7,285.68	7,244.41	105.62	36.63	-90.42	-3,562.14	-9,619.69	6,884.71	6,790.49	94.22	73.071		
10,700.00	7,236.37	7,286.33	7,245.05	108.35	36.63	-90.43	-3,562.12	-9,619.70	6,799.61	6,703.53	96.08	70.770		
10,800.00	7,236.06	7,286.98	7,245.71	111.08	36.63	-90.44	-3,562.11	-9,619.71	6,714.93	6,616.92	98.00	68.516		
10,900.00	7,235.75	7,287.64	7,246.37	113.82	36.64	-90.45	-3,562.10	-9,619.71	6,630.67	6,530.67	99.99	66.311		
11,000.00	7,235.44	7,288.32	7,247.04	116.56	36.64	-90.46	-3,562.09	-9,619.72	6,546.85	6,444.80	102.05	64.156		
11,100.00	7,235.12	7,289.00	7,247.72	119.31	36.64	-90.47	-3,562.08	-9,619.73	6,463.49	6,359.33	104.16	62.051		
11,200.00	7,234.81	7,289.69	7,248.42	122.07	36.64	-90.48	-3,562.06	-9,619.74	6,380.61	6,274.26	106.35	59.996		
11,300.00	7,234.50	7,290.39	7,249.12	124.83	36.65	-90.49	-3,562.05	-9,619.74	6,298.23	6,189.63	108.60	57.993		
11,400.00	7,234.19	7,291.10	7,249.83	127.59	36.65	-90.50	-3,562.04	-9,619.75	6,216.37	6,105.44	110.93	56.041		
11,500.00	7,233.88	7,291.83	7,250.55	130.36	36.65	-90.51	-3,562.02	-9,619.76	6,135.04	6,021.72	113.32	54.140		
11,600.00	7,233.56	7,292.56	7,251.28	133.13	36.65	-90.52	-3,562.01	-9,619.77	6,054.27	5,938.49	115.78	52.290		
11,700.00	7,233.25	7,293.30	7,252.03	135.91	36.66	-90.54	-3,561.99	-9,619.77	5,974.09	5,855.77	118.32	50.491		
11,800.00	7,232.94	7,294.06	7,252.78	138.68	36.66	-90.55	-3,561.98	-9,619.78	5,894.50	5,773.57	120.93	48.743		
11,900.00	7,232.63	7,294.82	7,253.55	141.47	36.66	-90.56	-3,561.96	-9,619.79	5,815.55	5,691.94	123.62	47.045		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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-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		
12,000.00	7,232.32	7,295.60	7,254.33	144.25	36.66	-90.57	-3,561.95	-9,619.80	5,737.26	5,610.88	126.38	45.397		
12,100.00	7,232.00	7,296.39	7,255.12	147.04	36.67	-90.59	-3,561.93	-9,619.81	5,659.65	5,530.43	129.22	43.799		
12,200.00	7,231.69	7,297.19	7,255.92	149.83	36.67	-90.60	-3,561.92	-9,619.82	5,582.75	5,450.61	132.14	42.250		
12,300.00	7,231.38	7,298.01	7,256.73	152.62	36.67	-90.61	-3,561.90	-9,619.82	5,506.60	5,371.46	135.14	40.749		
12,400.00	7,231.07	7,298.84	7,257.56	155.42	36.68	-90.62	-3,561.89	-9,619.83	5,431.21	5,293.00	138.21	39.295		
12,500.00	7,230.76	7,299.68	7,258.40	158.22	36.68	-90.64	-3,561.87	-9,619.84	5,356.64	5,215.26	141.38	37.889		
12,600.00	7,230.44	7,300.53	7,259.25	161.01	36.68	-90.65	-3,561.85	-9,619.85	5,282.90	5,138.28	144.62	36.529		
12,700.00	7,230.13	7,301.40	7,260.12	163.82	36.68	-90.67	-3,561.84	-9,619.86	5,210.04	5,062.09	147.95	35.215		
12,800.00	7,229.82	7,302.28	7,261.00	166.62	36.69	-90.68	-3,561.82	-9,619.87	5,138.09	4,986.73	151.36	33.946		
12,900.00	7,229.51	7,303.18	7,261.90	169.43	36.69	-90.69	-3,561.80	-9,619.88	5,067.10	4,912.24	154.86	32.721		
13,000.00	7,229.20	7,304.09	7,262.81	172.23	36.69	-90.71	-3,561.78	-9,619.89	4,997.09	4,838.66	158.44	31.540		
13,100.00	7,228.88	7,305.01	7,263.73	175.04	36.70	-90.72	-3,561.76	-9,619.90	4,928.12	4,766.02	162.10	30.401		
13,200.00	7,228.57	7,305.95	7,264.68	177.85	36.70	-90.74	-3,561.74	-9,619.91	4,860.23	4,694.38	165.86	29.304		
13,300.00	7,228.26	7,306.91	7,265.63	180.66	36.70	-90.75	-3,561.72	-9,619.93	4,793.47	4,623.78	169.69	28.248		
13,400.00	7,227.95	7,307.88	7,266.61	183.48	36.71	-90.77	-3,561.70	-9,619.94	4,727.88	4,554.27	173.61	27.233		
13,500.00	7,227.64	7,308.87	7,267.60	186.29	36.71	-90.79	-3,561.68	-9,619.95	4,663.50	4,485.89	177.61	26.257		
13,600.00	7,227.33	7,309.88	7,268.60	189.11	36.71	-90.80	-3,561.66	-9,619.96	4,600.41	4,418.71	181.69	25.319		
13,700.00	7,227.01	7,310.91	7,269.63	191.92	36.72	-90.82	-3,561.64	-9,619.97	4,538.63	4,352.78	185.86	24.420		
13,800.00	7,226.70	7,311.95	7,270.67	194.74	36.72	-90.83	-3,561.62	-9,619.99	4,478.24	4,288.15	190.09	23.558		
13,900.00	7,226.39	7,313.01	7,271.73	197.56	36.73	-90.85	-3,561.60	-9,620.00	4,419.29	4,224.89	194.40	22.733		
14,000.00	7,226.08	7,314.09	7,272.81	200.38	36.73	-90.87	-3,561.57	-9,620.01	4,361.83	4,163.05	198.78	21.943		
14,100.00	7,225.77	7,315.19	7,273.91	203.21	36.73	-90.89	-3,561.55	-9,620.03	4,305.93	4,102.70	203.23	21.188		
14,200.00	7,225.45	7,316.31	7,275.03	206.03	36.74	-90.90	-3,561.53	-9,620.04	4,251.64	4,043.91	207.73	20.467		
14,300.00	7,225.14	7,317.45	7,276.17	208.85	36.74	-90.92	-3,561.50	-9,620.05	4,199.04	3,986.75	212.29	19.780		
14,400.00	7,224.83	7,318.62	7,277.34	211.68	36.75	-90.94	-3,561.48	-9,620.07	4,148.18	3,931.28	216.90	19.125		
14,500.00	7,224.52	7,319.80	7,278.52	214.50	36.75	-90.96	-3,561.45	-9,620.08	4,099.12	3,877.58	221.54	18.503		
14,600.00	7,224.21	7,321.01	7,279.72	217.33	36.75	-90.98	-3,561.43	-9,620.10	4,051.95	3,825.72	226.22	17.911		
14,700.00	7,223.89	7,322.24	7,280.95	220.16	36.76	-91.00	-3,561.40	-9,620.11	4,006.71	3,775.78	230.93	17.351		
14,800.00	7,223.58	7,323.49	7,282.21	222.98	36.76	-91.02	-3,561.37	-9,620.13	3,963.48	3,727.83	235.64	16.820		
14,900.00	7,223.27	7,324.77	7,283.48	225.81	36.77	-91.04	-3,561.34	-9,620.15	3,922.32	3,681.95	240.36	16.318		
14,987.41	7,223.00	7,325.90	7,284.62	228.28	36.77	-91.06	-3,561.32	-9,620.16	3,888.09	3,643.61	244.48	15.903 CC, ES, SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	926.09	952.97	3.28	5.51	-109.03	-3,050.52	-8,845.45	9,405.10					
100.00	100.00	992.66	1,017.82	3.28	5.86	-109.11	-3,061.26	-8,834.95	9,395.22	9,386.10	9.11	1,030.862		
200.00	200.00	1,043.41	1,067.22	3.34	6.13	-109.18	-3,069.77	-8,826.99	9,385.69	9,376.28	9.41	996.927		
300.00	300.00	1,098.00	1,120.48	3.44	6.43	-109.24	-3,078.56	-8,818.88	9,376.75	9,366.95	9.80	957.070		
400.00	400.00	1,127.10	1,148.94	3.60	6.58	-109.28	-3,083.05	-8,814.81	9,368.40	9,358.31	10.09	928.291		
500.00	500.00	1,162.32	1,183.45	3.81	6.77	-109.32	-3,088.29	-8,810.17	9,360.75	9,350.29	10.47	894.410		
600.00	600.00	1,202.27	1,222.69	4.05	6.98	-109.36	-3,093.99	-8,805.28	9,353.80	9,342.89	10.91	857.733		
700.00	699.98	1,271.90	1,291.00	4.32	7.35	-51.54	-3,104.58	-8,796.84	9,346.24	9,334.71	11.53	810.269		
800.00	799.94	1,345.53	1,363.10	4.61	7.76	-51.64	-3,116.52	-8,787.88	9,338.23	9,326.01	12.22	764.369		
900.00	899.89	1,420.08	1,436.25	4.92	8.16	-51.74	-3,127.94	-8,779.23	9,330.50	9,317.58	12.92	721.966		
1,000.00	999.85	1,721.90	1,733.41	5.25	9.78	-52.08	-3,166.24	-8,743.00	9,321.03	9,306.20	14.83	628.495		
1,100.00	1,099.80	1,757.00	1,767.95	5.60	9.97	-52.12	-3,170.68	-8,738.63	9,311.71	9,296.35	15.36	606.193		
1,200.00	1,199.76	1,808.33	1,818.46	5.96	10.25	-52.18	-3,177.42	-8,732.49	9,303.02	9,287.03	15.99	581.662		
1,300.00	1,299.72	2,220.16	2,222.58	6.33	12.62	-52.68	-3,233.01	-8,676.55	9,293.37	9,274.74	18.64	498.683		
1,400.00	1,399.67	2,288.46	2,289.62	6.71	13.01	-52.76	-3,241.26	-8,666.43	9,281.82	9,262.43	19.38	478.816		
1,500.00	1,499.63	2,321.00	2,321.65	7.10	13.19	-52.79	-3,244.73	-8,661.86	9,270.71	9,250.77	19.95	464.743		
1,600.00	1,599.58	2,372.61	2,372.49	7.49	13.48	-52.85	-3,250.22	-8,654.94	9,260.18	9,239.56	20.61	449.228		
1,700.00	1,699.54	2,416.00	2,415.25	7.88	13.72	-52.90	-3,255.17	-8,649.44	9,250.41	9,229.17	21.24	435.478		
1,800.00	1,799.50	2,547.86	2,544.79	8.28	14.47	-53.05	-3,272.38	-8,631.86	9,240.70	9,218.32	22.37	413.029		
1,900.00	1,899.45	2,673.25	2,668.02	8.69	15.20	-53.20	-3,288.38	-8,615.12	9,230.96	9,207.48	23.48	393.125		
2,000.00	1,999.41	2,790.28	2,782.38	9.10	15.92	-53.36	-3,306.18	-8,597.77	9,220.68	9,196.10	24.58	375.115		
2,100.00	2,099.36	2,881.80	2,871.80	9.51	16.48	-53.49	-3,320.15	-8,584.20	9,210.48	9,184.94	25.54	360.653		
2,200.00	2,199.32	2,924.63	2,913.80	9.92	16.73	-53.54	-3,326.02	-8,578.22	9,200.62	9,174.42	26.20	351.149		
2,300.00	2,299.28	2,984.00	2,972.18	10.34	17.08	-53.61	-3,333.70	-8,570.64	9,191.49	9,164.54	26.96	340.975		
2,400.00	2,399.23	3,017.58	3,005.23	10.75	17.27	-53.65	-3,338.06	-8,566.55	9,182.88	9,155.31	27.57	333.067		
2,500.00	2,499.19	3,078.00	3,064.54	11.17	17.63	-53.73	-3,346.69	-8,558.99	9,174.68	9,146.34	28.34	323.765		
2,600.00	2,599.14	3,136.36	3,121.94	11.60	17.95	-53.80	-3,354.68	-8,552.08	9,166.94	9,137.85	29.08	315.183		
2,700.00	2,699.10	3,169.00	3,154.18	12.02	18.14	-53.84	-3,358.43	-8,548.67	9,159.79	9,130.10	29.69	308.497		
2,800.00	2,799.06	3,232.25	3,216.80	12.44	18.46	-53.90	-3,365.03	-8,542.69	9,153.16	9,122.72	30.44	300.694		
2,900.00	2,899.01	3,284.93	3,269.01	12.87	18.73	-53.95	-3,370.35	-8,538.15	9,147.13	9,115.99	31.14	293.776		
3,000.00	2,998.97	3,357.00	3,340.37	13.29	19.10	-54.02	-3,378.36	-8,532.00	9,141.56	9,109.63	31.93	286.268		
3,100.00	3,098.92	3,100.00	3,469.66	13.72	17.79	-54.15	-3,392.64	-8,521.23	9,136.32	9,105.27	31.05	294.199		
3,200.00	3,198.88	3,587.11	3,568.28	14.14	20.29	-54.24	-3,403.32	-8,512.38	9,130.37	9,096.40	33.97	268.774		
3,300.00	3,298.84	3,640.00	3,620.64	14.57	20.57	-54.30	-3,409.28	-8,507.95	9,124.99	9,090.31	34.68	263.151		
3,400.00	3,398.79	4,112.00	4,084.51	15.00	23.30	-54.88	-3,473.76	-8,451.24	9,115.69	9,077.93	37.76	241.390		
3,500.00	3,498.75	4,149.37	4,121.20	15.43	23.52	-54.93	-3,478.85	-8,446.30	9,106.87	9,068.45	38.42	237.052		
3,600.00	3,598.70	4,207.00	4,177.91	15.86	23.85	-55.00	-3,486.17	-8,439.16	9,098.59	9,059.40	39.18	232.207		
3,700.00	3,698.66	4,257.15	4,227.25	16.29	24.15	-55.06	-3,492.78	-8,433.11	9,090.81	9,050.90	39.91	227.771		
3,800.00	3,798.62	4,301.00	4,270.26	16.72	24.40	-55.12	-3,499.39	-8,427.69	9,083.57	9,042.97	40.61	223.704		
3,900.00	3,898.57	4,355.99	4,324.19	17.15	24.73	-55.19	-3,507.89	-8,421.12	9,076.89	9,035.52	41.37	219.429		
4,000.00	3,998.53	4,406.96	4,374.31	17.59	25.03	-55.25	-3,515.27	-8,415.57	9,070.80	9,028.70	42.10	215.456		
4,100.00	4,098.48	4,475.72	4,442.05	18.02	25.42	-55.34	-3,524.81	-8,408.55	9,065.14	9,022.22	42.92	211.187		
4,200.00	4,198.44	4,526.91	4,492.55	18.45	25.70	-55.40	-3,531.63	-8,403.65	9,059.91	9,016.27	43.64	207.592		
4,300.00	4,298.40	4,585.00	4,549.97	18.88	26.01	-55.46	-3,538.89	-8,398.72	9,055.30	9,010.91	44.39	203.974		
4,400.00	4,398.35	4,614.60	4,579.28	19.32	26.16	-55.49	-3,542.37	-8,396.49	9,051.27	9,006.29	44.98	201.229		
4,500.00	4,498.31	4,654.40	4,618.75	19.75	26.36	-55.53	-3,546.74	-8,393.88	9,047.92	9,002.31	45.62	198.351		
4,600.00	4,598.26	4,680.00	4,644.17	20.19	26.49	-55.55	-3,549.37	-8,392.42	9,045.28	8,999.10	46.18	195.883		
4,700.00	4,698.22	4,736.19	4,700.03	20.62	26.75	-55.60	-3,554.84	-8,389.75	9,043.22	8,996.35	46.88	192.921		
4,800.00	4,798.18	4,936.62	4,899.70	21.05	27.64	-55.74	-3,570.14	-8,381.60	9,040.79	8,992.57	48.23	187.468		
4,900.00	4,898.13	4,993.26	4,956.19	21.49	27.89	-55.77	-3,573.59	-8,379.54	9,038.23	8,989.33	48.90	184.816		
5,000.00	4,998.09	5,059.00	5,021.81	21.92	28.16	-55.81	-3,577.24	-8,377.69	9,036.19	8,986.57	49.62	182.120		
5,100.00	5,098.04	5,181.88	5,144.63	22.36	28.61	-55.85	-3,579.69	-8,376.07	9,034.12	8,983.61	50.51	178.869		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,249.00	5,211.75	22.79	28.83	-55.86	-3,579.63	-8,375.85	9,032.11	8,980.95	51.17	176.529		
5,300.00	5,297.96	5,312.76	5,275.51	23.23	29.04	-55.87	-3,579.68	-8,375.86	9,030.49	8,978.68	51.81	174.307		
5,400.00	5,397.91	5,390.30	5,353.05	23.67	29.30	-55.88	-3,579.99	-8,376.07	9,029.24	8,976.74	52.50	171.985		
5,500.00	5,497.87	5,481.39	5,444.14	24.10	29.60	-55.90	-3,580.47	-8,376.40	9,028.12	8,974.88	53.24	169.569		
5,600.00	5,597.82	5,572.49	5,535.23	24.54	29.90	-55.91	-3,581.04	-8,376.80	9,027.10	8,973.12	53.98	167.220		
5,700.00	5,697.78	5,675.32	5,638.06	24.97	30.24	-55.93	-3,581.72	-8,377.29	9,026.15	8,971.39	54.76	164.822		
5,800.00	5,797.74	5,792.13	5,754.87	25.41	30.62	-55.95	-3,582.20	-8,377.81	9,025.06	8,969.47	55.59	162.356		
5,900.00	5,897.69	5,908.95	5,871.69	25.85	31.00	-55.97	-3,582.32	-8,378.24	9,023.78	8,967.36	56.41	159.957		
6,000.00	5,997.65	6,009.26	5,972.00	26.28	31.34	-55.99	-3,582.51	-8,378.48	9,022.41	8,965.21	57.20	157.731		
6,100.00	6,097.60	6,110.22	6,072.95	26.72	31.69	-56.01	-3,583.16	-8,378.50	9,021.03	8,963.04	57.99	155.559		
6,200.00	6,197.56	6,223.10	6,185.83	27.16	32.10	-56.03	-3,584.38	-8,378.26	9,019.62	8,960.78	58.84	153.299		
6,300.00	6,297.52	6,373.97	6,336.68	27.59	32.67	-56.07	-3,586.23	-8,377.18	9,017.81	8,957.95	59.86	150.658		
6,400.00	6,397.47	6,524.78	6,487.46	28.03	33.24	-56.11	-3,588.14	-8,375.14	9,015.44	8,954.56	60.87	148.098		
6,500.00	6,497.43	6,569.28	6,531.95	28.47	33.43	-56.12	-3,589.00	-8,374.66	9,013.31	8,951.81	61.49	146.570		
6,600.00	6,597.38	6,642.08	6,604.73	28.90	33.72	-56.14	-3,590.53	-8,373.79	9,011.42	8,949.20	62.22	144.830		
6,700.00	6,697.08	6,714.65	6,677.28	29.34	34.00	-30.50	-3,592.37	-8,373.01	9,006.12	8,943.17	62.95	143.077		
6,800.00	6,794.63	6,803.07	6,765.65	29.79	34.35	-27.82	-3,594.92	-8,372.19	8,987.41	8,923.68	63.73	141.014		
6,900.00	6,887.62	6,908.11	6,870.66	30.24	34.77	-28.25	-3,597.54	-8,371.30	8,954.90	8,890.33	64.57	138.676		
7,000.00	6,973.77	7,005.38	6,967.91	30.70	35.15	-30.06	-3,599.46	-8,370.56	8,909.37	8,844.02	65.36	136.321		
7,100.00	7,050.94	7,111.07	7,073.58	31.20	35.57	-33.25	-3,601.17	-8,369.70	8,851.97	8,785.83	66.14	133.840		
7,200.00	7,117.24	7,208.30	7,170.79	31.77	35.96	-38.20	-3,602.71	-8,368.52	8,784.07	8,717.22	66.85	131.393		
7,300.00	7,171.03	7,285.96	7,248.43	32.46	36.27	-45.56	-3,603.94	-8,367.31	8,707.50	8,640.04	67.46	129.070		
7,400.00	7,211.00	7,342.32	7,304.77	33.29	36.50	-56.30	-3,604.82	-8,366.27	8,624.32	8,556.35	67.97	126.880		
7,500.00	7,236.16	7,376.29	7,338.73	34.29	36.63	-71.20	-3,605.35	-8,365.59	8,536.70	8,468.31	68.39	124.825		
7,600.00	7,245.89	7,387.40	7,349.84	35.43	36.68	-89.36	-3,605.53	-8,365.35	8,446.86	8,378.14	68.72	122.910		
7,700.00	7,245.73	7,384.12	7,346.56	36.72	36.66	-91.95	-3,605.47	-8,365.42	8,356.79	8,287.75	69.03	121.057		
7,800.00	7,245.42	7,380.65	7,343.10	38.18	36.65	-91.90	-3,605.42	-8,365.50	8,266.93	8,197.54	69.40	119.123		
7,900.00	7,245.10	7,377.23	7,339.67	39.80	36.64	-91.84	-3,605.37	-8,365.57	8,177.32	8,107.49	69.82	117.112		
8,000.00	7,244.79	7,373.84	7,336.28	41.54	36.62	-91.79	-3,605.31	-8,365.64	8,087.94	8,017.63	70.31	115.027		
8,100.00	7,244.48	7,370.49	7,332.93	43.41	36.61	-91.74	-3,605.26	-8,365.71	7,998.82	7,927.95	70.87	112.873		
8,200.00	7,244.17	7,367.18	7,329.62	45.38	36.60	-91.69	-3,605.21	-8,365.78	7,909.95	7,838.47	71.48	110.657		
8,300.00	7,243.86	7,363.90	7,326.35	47.44	36.58	-91.64	-3,605.16	-8,365.84	7,821.36	7,749.19	72.16	108.383		
8,400.00	7,243.55	7,360.66	7,323.11	49.58	36.57	-91.58	-3,605.11	-8,365.91	7,733.04	7,660.12	72.91	106.059		
8,500.00	7,243.23	7,357.46	7,319.91	51.78	36.56	-91.53	-3,605.06	-8,365.97	7,645.00	7,571.28	73.73	103.692		
8,600.00	7,242.92	7,354.29	7,316.75	54.05	36.55	-91.48	-3,605.01	-8,366.04	7,557.27	7,482.66	74.61	101.289		
8,700.00	7,242.61	7,351.16	7,313.62	56.37	36.53	-91.44	-3,604.96	-8,366.10	7,469.84	7,394.28	75.56	98.858		
8,800.00	7,242.30	7,348.07	7,310.52	58.74	36.52	-91.39	-3,604.91	-8,366.16	7,382.73	7,306.15	76.58	96.406		
8,900.00	7,241.99	7,345.00	7,307.46	61.16	36.51	-91.34	-3,604.86	-8,366.22	7,295.95	7,218.28	77.67	93.940		
9,000.00	7,241.67	7,341.97	7,304.43	63.61	36.50	-91.29	-3,604.82	-8,366.28	7,209.51	7,130.69	78.82	91.466		
9,100.00	7,241.36	7,338.98	7,301.43	66.09	36.48	-91.24	-3,604.77	-8,366.34	7,123.42	7,043.38	80.05	88.993		
9,200.00	7,241.05	7,336.01	7,298.47	68.60	36.47	-91.20	-3,604.72	-8,366.40	7,037.70	6,956.37	81.34	86.525		
9,300.00	7,240.74	7,333.08	7,295.54	71.13	36.46	-91.15	-3,604.68	-8,366.45	6,952.36	6,869.67	82.70	84.069		
9,400.00	7,240.43	7,330.17	7,292.63	73.70	36.45	-91.11	-3,604.63	-8,366.51	6,867.42	6,783.29	84.13	81.631		
9,500.00	7,240.11	7,327.30	7,289.76	76.28	36.44	-91.06	-3,604.59	-8,366.56	6,782.89	6,697.26	85.63	79.215		
9,600.00	7,239.80	7,324.46	7,286.92	78.88	36.43	-91.02	-3,604.54	-8,366.62	6,698.78	6,611.58	87.19	76.826		
9,700.00	7,239.49	7,321.65	7,284.11	81.50	36.41	-90.97	-3,604.50	-8,366.67	6,615.11	6,526.28	88.83	74.469		
9,800.00	7,239.18	7,318.87	7,281.33	84.13	36.40	-90.93	-3,604.45	-8,366.72	6,531.90	6,441.36	90.54	72.146		
9,900.00	7,238.87	7,316.11	7,278.58	86.78	36.39	-90.88	-3,604.41	-8,366.77	6,449.17	6,356.86	92.31	69.862		
10,000.00	7,238.55	7,313.39	7,275.85	89.44	36.38	-90.84	-3,604.37	-8,366.82	6,366.93	6,272.77	94.16	67.618		
10,100.00	7,238.24	7,310.69	7,273.15	92.11	36.37	-90.80	-3,604.33	-8,366.87	6,285.21	6,189.13	96.08	65.419		
10,200.00	7,237.93	7,308.02	7,270.48	94.80	36.36	-90.76	-3,604.28	-8,366.92	6,204.02	6,105.95	98.06	63.264		
10,300.00	7,237.62	7,305.38	7,267.84	97.49	36.35	-90.72	-3,604.24	-8,366.97	6,123.38	6,023.26	100.12	61.158		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,302.76	7,265.23	100.19	36.34	-90.68	-3,604.20	-8,367.01	6,043.33	5,941.07	102.26	59.100		
10,500.00	7,236.99	7,300.17	7,262.64	102.90	36.33	-90.63	-3,604.16	-8,367.06	5,963.87	5,859.41	104.46	57.092		
10,600.00	7,236.68	7,297.60	7,260.07	105.62	36.32	-90.59	-3,604.12	-8,367.11	5,885.04	5,778.30	106.74	55.135		
10,700.00	7,236.37	7,295.07	7,257.53	108.35	36.31	-90.55	-3,604.08	-8,367.15	5,806.86	5,697.77	109.09	53.230		
10,800.00	7,236.06	7,292.55	7,255.02	111.08	36.30	-90.51	-3,604.04	-8,367.19	5,729.36	5,617.85	111.52	51.377		
10,900.00	7,235.75	7,290.06	7,252.53	113.82	36.29	-90.48	-3,604.00	-8,367.24	5,652.57	5,538.55	114.02	49.577		
11,000.00	7,235.44	7,287.60	7,250.07	116.56	36.28	-90.44	-3,603.96	-8,367.28	5,576.51	5,459.92	116.59	47.829		
11,100.00	7,235.12	7,285.16	7,247.63	119.31	36.27	-90.40	-3,603.92	-8,367.32	5,501.21	5,381.97	119.25	46.133		
11,200.00	7,234.81	7,282.74	7,245.21	122.07	36.26	-90.36	-3,603.89	-8,367.36	5,426.72	5,304.74	121.98	44.490		
11,300.00	7,234.50	7,280.35	7,242.82	124.83	36.25	-90.32	-3,603.85	-8,367.40	5,353.05	5,228.27	124.78	42.899		
11,400.00	7,234.19	7,277.97	7,240.45	127.59	36.24	-90.29	-3,603.81	-8,367.44	5,280.25	5,152.58	127.67	41.359		
11,500.00	7,233.88	7,275.63	7,238.10	130.36	36.23	-90.25	-3,603.77	-8,367.48	5,208.35	5,077.72	130.63	39.871		
11,600.00	7,233.56	7,273.30	7,235.78	133.13	36.22	-90.21	-3,603.74	-8,367.52	5,137.39	5,003.72	133.67	38.433		
11,700.00	7,233.25	7,271.00	7,233.47	135.91	36.21	-90.18	-3,603.70	-8,367.56	5,067.41	4,930.62	136.79	37.046		
11,800.00	7,232.94	7,268.71	7,231.19	138.68	36.20	-90.14	-3,603.67	-8,367.60	4,998.44	4,858.46	139.98	35.707		
11,900.00	7,232.63	7,266.45	7,228.93	141.47	36.19	-90.10	-3,603.63	-8,367.64	4,930.55	4,787.29	143.26	34.417		
12,000.00	7,232.32	7,264.21	7,226.69	144.25	36.19	-90.07	-3,603.60	-8,367.67	4,863.75	4,717.15	146.61	33.175		
12,100.00	7,232.00	7,261.99	7,224.47	147.04	36.18	-90.03	-3,603.56	-8,367.71	4,798.12	4,648.08	150.03	31.980		
12,200.00	7,231.69	7,259.80	7,222.28	149.83	36.17	-90.00	-3,603.53	-8,367.74	4,733.68	4,580.15	153.53	30.831		
12,300.00	7,231.38	7,257.62	7,220.10	152.62	36.16	-89.97	-3,603.49	-8,367.78	4,670.50	4,513.39	157.11	29.728		
12,400.00	7,231.07	7,255.46	7,217.94	155.42	36.15	-89.93	-3,603.46	-8,367.81	4,608.61	4,447.86	160.75	28.669		
12,500.00	7,230.76	7,253.32	7,215.80	158.22	36.14	-89.90	-3,603.42	-8,367.85	4,548.09	4,383.62	164.47	27.653		
12,600.00	7,230.44	7,251.20	7,213.68	161.01	36.13	-89.87	-3,603.39	-8,367.88	4,488.97	4,320.72	168.25	26.681		
12,700.00	7,230.13	7,249.10	7,211.58	163.82	36.13	-89.83	-3,603.36	-8,367.92	4,431.32	4,259.23	172.09	25.750		
12,800.00	7,229.82	7,247.02	7,209.50	166.62	36.12	-89.80	-3,603.32	-8,367.95	4,375.20	4,199.21	175.99	24.860		
12,900.00	7,229.51	7,244.96	7,207.44	169.43	36.11	-89.77	-3,603.29	-8,367.98	4,320.67	4,140.71	179.95	24.010		
13,000.00	7,229.20	7,242.91	7,205.40	172.23	36.10	-89.73	-3,603.26	-8,368.01	4,267.77	4,083.81	183.96	23.200		
13,100.00	7,228.88	7,240.89	7,203.37	175.04	36.09	-89.70	-3,603.23	-8,368.04	4,216.59	4,028.58	188.01	22.427		
13,200.00	7,228.57	7,238.88	7,201.36	177.85	36.08	-89.67	-3,603.20	-8,368.07	4,167.18	3,975.07	192.10	21.692		
13,300.00	7,228.26	7,236.89	7,199.37	180.66	36.08	-89.64	-3,603.16	-8,368.10	4,119.60	3,923.37	196.23	20.994		
13,400.00	7,227.95	7,234.92	7,197.40	183.48	36.07	-89.61	-3,603.13	-8,368.13	4,073.92	3,873.54	200.37	20.332		
13,500.00	7,227.64	7,232.96	7,195.45	186.29	36.06	-89.58	-3,603.10	-8,368.16	4,030.20	3,825.66	204.54	19.704		
13,600.00	7,227.33	7,231.02	7,193.51	189.11	36.05	-89.55	-3,603.07	-8,368.19	3,988.51	3,779.80	208.71	19.110		
13,700.00	7,227.01	7,229.10	7,191.59	191.92	36.05	-89.52	-3,603.04	-8,368.22	3,948.91	3,736.03	212.88	18.550		
13,800.00	7,226.70	7,227.19	7,189.68	194.74	36.04	-89.49	-3,603.01	-8,368.25	3,911.47	3,694.43	217.04	18.022		
13,900.00	7,226.39	7,225.30	7,187.79	197.56	36.03	-89.46	-3,602.98	-8,368.28	3,876.24	3,655.07	221.17	17.526		
14,000.00	7,226.08	7,223.43	7,185.92	200.38	36.02	-89.43	-3,602.95	-8,368.31	3,843.30	3,618.02	225.27	17.060		
14,100.00	7,225.77	7,221.57	7,184.06	203.21	36.02	-89.40	-3,602.92	-8,368.33	3,812.69	3,583.36	229.33	16.625		
14,200.00	7,225.45	7,219.73	7,182.22	206.03	36.01	-89.37	-3,602.89	-8,368.36	3,784.48	3,551.14	233.34	16.219		
14,300.00	7,225.14	7,217.91	7,180.40	208.85	36.00	-89.34	-3,602.86	-8,368.39	3,758.71	3,521.44	237.27	15.842		
14,400.00	7,224.83	7,216.10	7,178.59	211.68	35.99	-89.31	-3,602.84	-8,368.41	3,735.45	3,494.32	241.12	15.492		
14,500.00	7,224.52	7,214.30	7,176.79	214.50	35.99	-89.28	-3,602.81	-8,368.44	3,714.73	3,469.84	244.89	15.169		
14,600.00	7,224.21	7,212.52	7,175.01	217.33	35.98	-89.26	-3,602.78	-8,368.46	3,696.60	3,448.05	248.54	14.873		
14,700.00	7,223.89	7,210.75	7,173.24	220.16	35.97	-89.23	-3,602.75	-8,368.49	3,681.09	3,429.01	252.09	14.602		
14,800.00	7,223.58	7,209.00	7,171.49	222.98	35.97	-89.20	-3,602.72	-8,368.51	3,668.25	3,412.75	255.50	14.357		
14,900.00	7,223.27	7,207.27	7,169.76	225.81	35.96	-89.17	-3,602.70	-8,368.54	3,658.10	3,399.32	258.78	14.136		
14,987.41	7,223.00	7,205.76	7,168.25	228.28	35.95	-89.15	-3,602.67	-8,368.56	3,651.45	3,389.92	261.53	13.962 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	
0.00	0.00	0.00	65.00	3.28	3.28	-134.44	-3,306.20	-3,371.48	4,722.51				
100.00	100.00	35.00	100.00	3.28	3.34	-134.44	-3,306.20	-3,371.48	4,722.06	4,715.44	6.62	713.180	
200.00	200.00	135.00	200.00	3.34	4.42	-134.44	-3,306.20	-3,371.48	4,722.06	4,714.30	7.76	608.505	
300.00	300.00	235.00	300.00	3.44	7.24	-134.44	-3,306.20	-3,371.48	4,722.06	4,711.37	10.69	441.792	
400.00	400.00	335.00	400.00	3.60	10.48	-134.44	-3,306.20	-3,371.48	4,722.06	4,707.98	14.08	335.388	
500.00	500.00	435.00	500.00	3.81	13.83	-134.44	-3,306.20	-3,371.48	4,722.06	4,704.42	17.64	267.678	
600.00	600.00	535.00	600.00	4.05	17.25	-134.44	-3,306.20	-3,371.48	4,722.06	4,700.77	21.29	221.772	
700.00	699.98	634.98	699.98	4.32	20.68	-76.47	-3,306.20	-3,371.48	4,721.66	4,696.66	25.00	188.882	
800.00	799.94	734.94	799.94	4.61	24.14	-76.50	-3,306.20	-3,371.48	4,720.97	4,692.22	28.74	164.256	
900.00	899.89	834.89	899.89	4.92	27.60	-76.54	-3,306.20	-3,371.48	4,720.27	4,687.76	32.52	145.165	
1,000.00	999.85	934.85	999.85	5.25	31.06	-76.57	-3,306.20	-3,371.48	4,719.58	4,683.27	36.32	129.959	
1,100.00	1,099.80	1,034.80	1,099.80	5.60	34.54	-76.61	-3,306.20	-3,371.48	4,718.90	4,678.76	40.13	117.577	
1,200.00	1,199.76	1,134.76	1,199.76	5.96	38.01	-76.64	-3,306.20	-3,371.48	4,718.21	4,674.24	43.97	107.308	
1,300.00	1,299.72	1,234.72	1,299.72	6.33	41.49	-76.68	-3,306.20	-3,371.48	4,717.52	4,669.71	47.82	98.662	
1,400.00	1,399.67	1,334.67	1,399.67	6.71	44.97	-76.71	-3,306.20	-3,371.48	4,716.84	4,665.17	51.67	91.284	
1,500.00	1,499.63	1,434.63	1,499.63	7.10	48.45	-76.75	-3,306.20	-3,371.48	4,716.16	4,660.62	55.54	84.918	
1,600.00	1,599.58	1,534.58	1,599.58	7.49	51.93	-76.78	-3,306.20	-3,371.48	4,715.48	4,656.07	59.41	79.372	
1,700.00	1,699.54	1,634.54	1,699.54	7.88	55.41	-76.82	-3,306.20	-3,371.48	4,714.80	4,651.51	63.29	74.497	
1,800.00	1,799.50	1,734.50	1,799.50	8.28	58.90	-76.85	-3,306.20	-3,371.48	4,714.13	4,646.95	67.17	70.179	
1,900.00	1,899.45	1,834.45	1,899.45	8.69	62.38	-76.89	-3,306.20	-3,371.48	4,713.45	4,642.39	71.06	66.330	
2,000.00	1,999.41	1,934.41	1,999.41	9.10	65.87	-76.92	-3,306.20	-3,371.48	4,712.78	4,637.83	74.95	62.877	
2,100.00	2,099.36	2,034.36	2,099.36	9.51	69.35	-76.96	-3,306.20	-3,371.48	4,712.11	4,633.26	78.85	59.762	
2,200.00	2,199.32	2,134.32	2,199.32	9.92	72.84	-76.99	-3,306.20	-3,371.48	4,711.44	4,628.69	82.75	56.938	
2,300.00	2,299.28	2,234.28	2,299.28	10.34	76.32	-77.03	-3,306.20	-3,371.48	4,710.77	4,624.12	86.65	54.367	
2,400.00	2,399.23	2,334.23	2,399.23	10.75	79.81	-77.06	-3,306.20	-3,371.48	4,710.11	4,619.56	90.55	52.017	
2,500.00	2,499.19	2,434.19	2,499.19	11.17	83.30	-77.10	-3,306.20	-3,371.48	4,709.44	4,614.99	94.46	49.859	
2,600.00	2,599.14	2,534.14	2,599.14	11.60	86.78	-77.13	-3,306.20	-3,371.48	4,708.78	4,610.42	98.36	47.872	
2,700.00	2,699.10	2,634.10	2,699.10	12.02	90.27	-77.17	-3,306.20	-3,371.48	4,708.12	4,605.85	102.27	46.036	
2,800.00	2,799.06	2,734.06	2,799.06	12.44	93.76	-77.20	-3,306.20	-3,371.48	4,707.46	4,601.28	106.18	44.335	
2,900.00	2,899.01	2,834.01	2,899.01	12.87	97.25	-77.24	-3,306.20	-3,371.48	4,706.81	4,596.71	110.09	42.754	
3,000.00	2,998.97	2,933.97	2,998.97	13.29	100.73	-77.27	-3,306.20	-3,371.48	4,706.15	4,592.15	114.00	41.281	
3,100.00	3,098.92	3,033.92	3,098.92	13.72	104.22	-77.31	-3,306.20	-3,371.48	4,705.50	4,587.58	117.92	39.905	
3,200.00	3,198.88	3,133.88	3,198.88	14.14	107.71	-77.34	-3,306.20	-3,371.48	4,704.85	4,583.02	121.83	38.618	
3,300.00	3,298.84	3,233.84	3,298.84	14.57	111.20	-77.38	-3,306.20	-3,371.48	4,704.20	4,578.45	125.75	37.410	
3,400.00	3,398.79	3,333.79	3,398.79	15.00	114.68	-77.41	-3,306.20	-3,371.48	4,703.55	4,573.89	129.66	36.276	
3,500.00	3,498.75	3,433.75	3,498.75	15.43	118.17	-77.45	-3,306.20	-3,371.48	4,702.90	4,569.33	133.58	35.207	
3,600.00	3,598.70	3,533.70	3,598.70	15.86	121.66	-77.48	-3,306.20	-3,371.48	4,702.26	4,564.76	137.50	34.199	
3,700.00	3,698.66	3,633.66	3,698.66	16.29	125.15	-77.52	-3,306.20	-3,371.48	4,701.62	4,560.20	141.41	33.247	
3,800.00	3,798.62	3,733.62	3,798.62	16.72	128.64	-77.56	-3,306.20	-3,371.48	4,700.98	4,555.65	145.33	32.347	
3,900.00	3,898.57	3,833.57	3,898.57	17.15	132.13	-77.59	-3,306.20	-3,371.48	4,700.34	4,551.09	149.25	31.493	
4,000.00	3,998.53	3,933.53	3,998.53	17.59	135.61	-77.63	-3,306.20	-3,371.48	4,699.70	4,546.53	153.17	30.683	
4,100.00	4,098.48	4,033.48	4,098.48	18.02	139.10	-77.66	-3,306.20	-3,371.48	4,699.07	4,541.98	157.09	29.913	
4,200.00	4,198.44	4,133.44	4,198.44	18.45	142.59	-77.70	-3,306.20	-3,371.48	4,698.43	4,537.42	161.01	29.181	
4,300.00	4,298.40	4,233.40	4,298.40	18.88	146.08	-77.73	-3,306.20	-3,371.48	4,697.80	4,532.87	164.93	28.483	
4,400.00	4,398.35	4,333.35	4,398.35	19.32	149.57	-77.77	-3,306.20	-3,371.48	4,697.17	4,528.32	168.85	27.818	
4,500.00	4,498.31	4,433.31	4,498.31	19.75	153.06	-77.80	-3,306.20	-3,371.48	4,696.54	4,523.77	172.77	27.183	
4,600.00	4,598.26	4,533.26	4,598.26	20.19	156.55	-77.84	-3,306.20	-3,371.48	4,695.92	4,519.22	176.69	26.576	
4,700.00	4,698.22	4,633.22	4,698.22	20.62	160.03	-77.87	-3,306.20	-3,371.48	4,695.29	4,514.68	180.62	25.996	
4,800.00	4,798.18	4,733.18	4,798.18	21.05	163.52	-77.91	-3,306.20	-3,371.48	4,694.67	4,510.13	184.54	25.440	
4,900.00	4,898.13	4,833.13	4,898.13	21.49	167.01	-77.94	-3,306.20	-3,371.48	4,694.05	4,505.59	188.46	24.907	
5,000.00	4,998.09	4,933.09	4,998.09	21.92	170.50	-77.98	-3,306.20	-3,371.48	4,693.43	4,501.05	192.38	24.396	
5,100.00	5,098.04	5,033.04	5,098.04	22.36	173.99	-78.01	-3,306.20	-3,371.48	4,692.81	4,496.51	196.31	23.905	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,133.00	5,198.00	22.79	177.48	-78.05	-3,306.20	-3,371.48	4,692.20	4,491.97	200.23	23.434		
5,300.00	5,297.96	5,232.96	5,297.96	23.23	180.97	-78.09	-3,306.20	-3,371.48	4,691.58	4,487.43	204.15	22.981		
5,400.00	5,397.91	5,332.91	5,397.91	23.67	184.46	-78.12	-3,306.20	-3,371.48	4,690.97	4,482.89	208.08	22.544		
5,500.00	5,497.87	5,432.87	5,497.87	24.10	187.94	-78.16	-3,306.20	-3,371.48	4,690.36	4,478.36	212.00	22.124		
5,600.00	5,597.82	5,532.82	5,597.82	24.54	191.43	-78.19	-3,306.20	-3,371.48	4,689.75	4,473.83	215.93	21.719		
5,700.00	5,697.78	5,632.78	5,697.78	24.97	194.92	-78.23	-3,306.20	-3,371.48	4,689.15	4,469.30	219.85	21.329		
5,800.00	5,797.74	5,732.74	5,797.74	25.41	198.41	-78.26	-3,306.20	-3,371.48	4,688.54	4,464.77	223.77	20.952		
5,900.00	5,897.69	5,832.69	5,897.69	25.85	201.90	-78.30	-3,306.20	-3,371.48	4,687.94	4,460.24	227.70	20.588		
6,000.00	5,997.65	5,932.65	5,997.65	26.28	205.39	-78.33	-3,306.20	-3,371.48	4,687.34	4,455.72	231.62	20.237		
6,100.00	6,097.60	6,032.60	6,097.60	26.72	208.88	-78.37	-3,306.20	-3,371.48	4,686.74	4,451.19	235.55	19.897		
6,200.00	6,197.56	6,132.56	6,197.56	27.16	212.37	-78.41	-3,306.20	-3,371.48	4,686.14	4,446.67	239.47	19.569		
6,300.00	6,297.52	6,232.52	6,297.52	27.59	215.86	-78.44	-3,306.20	-3,371.48	4,685.55	4,442.15	243.40	19.251		
6,400.00	6,397.47	6,332.47	6,397.47	28.03	219.35	-78.48	-3,306.20	-3,371.48	4,684.95	4,437.63	247.32	18.943		
6,500.00	6,497.43	6,432.43	6,497.43	28.47	222.84	-78.51	-3,306.20	-3,371.48	4,684.36	4,433.11	251.25	18.644		
6,600.00	6,597.38	6,532.38	6,597.38	28.90	226.32	-78.55	-3,306.20	-3,371.48	4,683.77	4,428.60	255.17	18.355		
6,700.00	6,697.08	6,632.08	6,697.08	29.34	229.80	-52.98	-3,306.20	-3,371.48	4,680.37	4,421.28	259.09	18.065		
6,800.00	6,794.63	6,729.63	6,794.63	29.79	233.21	-50.63	-3,306.20	-3,371.48	4,666.65	4,403.72	262.93	17.748		
6,900.00	6,887.62	6,822.62	6,887.62	30.24	236.46	-51.59	-3,306.20	-3,371.48	4,642.64	4,376.03	266.61	17.414		
7,000.00	6,973.77	6,908.77	6,973.77	30.70	239.46	-54.04	-3,306.20	-3,371.48	4,609.12	4,339.09	270.03	17.069		
7,100.00	7,050.94	6,985.94	7,050.94	31.20	242.16	-57.70	-3,306.20	-3,371.48	4,567.17	4,294.02	273.15	16.720		
7,200.00	7,117.24	7,052.24	7,117.24	31.77	244.47	-62.49	-3,306.20	-3,371.48	4,518.09	4,242.18	275.91	16.375		
7,300.00	7,171.03	7,106.03	7,171.03	32.46	246.35	-68.30	-3,306.20	-3,371.48	4,463.41	4,185.12	278.29	16.039		
7,400.00	7,211.00	7,146.00	7,211.00	33.29	247.74	-74.93	-3,306.20	-3,371.48	4,404.75	4,124.49	280.27	15.716		
7,500.00	7,236.16	7,171.16	7,236.16	34.29	248.62	-82.03	-3,306.20	-3,371.48	4,343.84	4,062.00	281.84	15.412		
7,600.00	7,245.89	7,180.89	7,245.89	35.43	248.96	-89.16	-3,306.20	-3,371.48	4,282.37	3,999.37	283.00	15.132		
7,700.00	7,245.73	7,180.73	7,245.73	36.72	248.96	-90.13	-3,306.20	-3,371.48	4,221.87	3,937.92	283.95	14.868		
7,800.00	7,245.42	7,180.42	7,245.42	38.18	248.94	-90.13	-3,306.20	-3,371.48	4,162.89	3,877.82	285.07	14.603		
7,900.00	7,245.10	7,180.10	7,245.10	39.80	248.93	-90.12	-3,306.20	-3,371.48	4,105.50	3,819.15	286.36	14.337		
8,000.00	7,244.79	7,179.79	7,244.79	41.54	248.92	-90.12	-3,306.20	-3,371.48	4,049.77	3,761.96	287.81	14.071		
8,100.00	7,244.48	7,179.48	7,244.48	43.41	248.91	-90.11	-3,306.20	-3,371.48	3,995.77	3,706.34	289.42	13.806		
8,200.00	7,244.17	7,179.17	7,244.17	45.38	248.90	-90.11	-3,306.20	-3,371.48	3,943.56	3,652.37	291.19	13.543		
8,300.00	7,243.86	7,178.86	7,243.86	47.44	248.89	-90.10	-3,306.20	-3,371.48	3,893.22	3,600.12	293.09	13.283		
8,400.00	7,243.55	7,178.55	7,243.55	49.58	248.88	-90.10	-3,306.20	-3,371.48	3,844.82	3,549.68	295.14	13.027		
8,500.00	7,243.23	7,178.23	7,243.23	51.78	248.87	-90.09	-3,306.20	-3,371.48	3,798.43	3,501.13	297.31	12.776		
8,600.00	7,242.92	7,177.92	7,242.92	54.05	248.86	-90.09	-3,306.20	-3,371.48	3,754.14	3,454.55	299.59	12.531		
8,700.00	7,242.61	7,177.61	7,242.61	56.37	248.85	-90.08	-3,306.20	-3,371.48	3,712.02	3,410.03	301.99	12.292		
8,800.00	7,242.30	7,177.30	7,242.30	58.74	248.84	-90.08	-3,306.20	-3,371.48	3,672.14	3,367.66	304.48	12.061		
8,900.00	7,241.99	7,176.99	7,241.99	61.16	248.83	-90.07	-3,306.20	-3,371.48	3,634.57	3,327.51	307.05	11.837		
9,000.00	7,241.67	7,176.67	7,241.67	63.61	248.81	-90.06	-3,306.20	-3,371.48	3,599.38	3,289.68	309.70	11.622		
9,100.00	7,241.36	7,176.36	7,241.36	66.09	248.80	-90.06	-3,306.20	-3,371.48	3,566.66	3,254.24	312.42	11.416		
9,200.00	7,241.05	7,176.05	7,241.05	68.60	248.79	-90.05	-3,306.20	-3,371.48	3,536.46	3,221.27	315.19	11.220		
9,300.00	7,240.74	7,175.74	7,240.74	71.13	248.78	-90.05	-3,306.20	-3,371.48	3,508.85	3,190.84	318.01	11.034		
9,400.00	7,240.43	7,175.43	7,240.43	73.70	248.77	-90.04	-3,306.20	-3,371.48	3,483.89	3,163.04	320.85	10.858		
9,500.00	7,240.11	7,175.11	7,240.11	76.28	248.76	-90.04	-3,306.20	-3,371.48	3,461.65	3,137.93	323.72	10.693		
9,600.00	7,239.80	7,174.80	7,239.80	78.88	248.75	-90.03	-3,306.20	-3,371.48	3,442.16	3,115.56	326.60	10.539		
9,700.00	7,239.49	7,174.49	7,239.49	81.50	248.74	-90.03	-3,306.20	-3,371.48	3,425.49	3,096.01	329.48	10.397		
9,800.00	7,239.18	7,174.18	7,239.18	84.13	248.73	-90.02	-3,306.20	-3,371.48	3,411.67	3,079.32	332.35	10.265		
9,900.00	7,238.87	7,173.87	7,238.87	86.78	248.72	-90.02	-3,306.20	-3,371.48	3,400.73	3,065.54	335.19	10.146		
10,000.00	7,238.55	7,173.55	7,238.55	89.44	248.71	-90.01	-3,306.20	-3,371.48	3,392.71	3,054.71	338.00	10.038		
10,100.00	7,238.24	7,173.24	7,238.24	92.11	248.69	-90.01	-3,306.20	-3,371.48	3,387.62	3,046.85	340.77	9.941		
10,200.00	7,237.93	7,172.93	7,237.93	94.80	248.68	-90.00	-3,306.20	-3,371.48	3,385.47	3,041.99	343.48	9.856		
10,222.56	7,237.86	7,172.86	7,237.86	95.40	248.68	-90.00	-3,306.20	-3,371.48	3,385.40	3,041.31	344.08	9.839 CC		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	7,172.62	7,237.62	97.49	248.67	-90.00	-3,306.20	-3,371.48	3,386.28	3,040.15	346.13	9.783 ES	
10,400.00	7,237.31	7,172.31	7,237.31	100.19	248.66	-89.99	-3,306.20	-3,371.48	3,390.04	3,041.33	348.71	9.722	
10,500.00	7,236.99	7,171.99	7,236.99	102.90	248.65	-89.99	-3,306.20	-3,371.48	3,396.75	3,045.53	351.21	9.671	
10,600.00	7,236.68	7,171.68	7,236.68	105.62	248.64	-89.98	-3,306.20	-3,371.48	3,406.37	3,052.74	353.63	9.633	
10,700.00	7,236.37	7,171.37	7,236.37	108.35	248.63	-89.97	-3,306.20	-3,371.48	3,418.90	3,062.94	355.96	9.605	
10,800.00	7,236.06	7,171.06	7,236.06	111.08	248.62	-89.97	-3,306.20	-3,371.48	3,434.29	3,076.10	358.19	9.588	
10,900.00	7,235.75	7,170.75	7,235.75	113.82	248.61	-89.96	-3,306.20	-3,371.48	3,452.51	3,092.19	360.32	9.582 SF	
11,000.00	7,235.44	7,170.44	7,235.44	116.56	248.60	-89.96	-3,306.20	-3,371.48	3,473.52	3,111.17	362.35	9.586	
11,100.00	7,235.12	7,170.12	7,235.12	119.31	248.59	-89.95	-3,306.20	-3,371.48	3,497.26	3,132.98	364.27	9.601	
11,200.00	7,234.81	7,169.81	7,234.81	122.07	248.57	-89.95	-3,306.20	-3,371.48	3,523.68	3,157.58	366.09	9.625	
11,300.00	7,234.50	7,169.50	7,234.50	124.83	248.56	-89.94	-3,306.20	-3,371.48	3,552.71	3,184.91	367.80	9.659	
11,400.00	7,234.19	7,169.19	7,234.19	127.59	248.55	-89.94	-3,306.20	-3,371.48	3,584.31	3,214.90	369.41	9.703	
11,500.00	7,233.88	7,168.88	7,233.88	130.36	248.54	-89.93	-3,306.20	-3,371.48	3,618.39	3,247.48	370.91	9.755	
11,600.00	7,233.56	7,168.56	7,233.56	133.13	248.53	-89.93	-3,306.20	-3,371.48	3,654.89	3,282.58	372.31	9.817	
11,700.00	7,233.25	7,168.25	7,233.25	135.91	248.52	-89.92	-3,306.20	-3,371.48	3,693.74	3,320.13	373.61	9.887	
11,800.00	7,232.94	7,167.94	7,232.94	138.68	248.51	-89.92	-3,306.20	-3,371.48	3,734.86	3,360.05	374.82	9.965	
11,900.00	7,232.63	7,167.63	7,232.63	141.47	248.50	-89.91	-3,306.20	-3,371.48	3,778.19	3,402.26	375.92	10.050	
12,000.00	7,232.32	7,167.32	7,232.32	144.25	248.49	-89.91	-3,306.20	-3,371.48	3,823.63	3,446.69	376.94	10.144	
12,100.00	7,232.00	7,167.00	7,232.00	147.04	248.48	-89.90	-3,306.20	-3,371.48	3,871.13	3,493.26	377.87	10.245	
12,200.00	7,231.69	7,166.69	7,231.69	149.83	248.47	-89.90	-3,306.20	-3,371.48	3,920.61	3,541.89	378.71	10.352	
12,300.00	7,231.38	7,166.38	7,231.38	152.62	248.45	-89.89	-3,306.20	-3,371.48	3,971.98	3,592.50	379.48	10.467	
12,400.00	7,231.07	7,166.07	7,231.07	155.42	248.44	-89.89	-3,306.20	-3,371.48	4,025.19	3,645.01	380.17	10.588	
12,500.00	7,230.76	7,165.76	7,230.76	158.22	248.43	-89.88	-3,306.20	-3,371.48	4,080.15	3,699.35	380.79	10.715	
12,600.00	7,230.44	7,165.44	7,230.44	161.01	248.42	-89.87	-3,306.20	-3,371.48	4,136.80	3,755.45	381.35	10.848	
12,700.00	7,230.13	7,165.13	7,230.13	163.82	248.41	-89.87	-3,306.20	-3,371.48	4,195.06	3,813.23	381.84	10.986	
12,800.00	7,229.82	7,164.82	7,229.82	166.62	248.40	-89.86	-3,306.20	-3,371.48	4,254.89	3,872.61	382.27	11.131	
12,900.00	7,229.51	7,164.51	7,229.51	169.43	248.39	-89.86	-3,306.20	-3,371.48	4,316.19	3,933.55	382.65	11.280	
13,000.00	7,229.20	7,164.20	7,229.20	172.23	248.38	-89.85	-3,306.20	-3,371.48	4,378.93	3,995.95	382.97	11.434	
13,100.00	7,228.88	7,163.88	7,228.88	175.04	248.37	-89.85	-3,306.20	-3,371.48	4,443.03	4,059.78	383.25	11.593	
13,200.00	7,228.57	7,163.57	7,228.57	177.85	248.36	-89.84	-3,306.20	-3,371.48	4,508.43	4,124.95	383.49	11.756	
13,300.00	7,228.26	7,163.26	7,228.26	180.66	248.35	-89.84	-3,306.20	-3,371.48	4,575.09	4,191.41	383.68	11.924	
13,400.00	7,227.95	7,162.95	7,227.95	183.48	248.34	-89.83	-3,306.20	-3,371.48	4,642.95	4,259.11	383.84	12.096	
13,500.00	7,227.64	7,162.64	7,227.64	186.29	248.32	-89.83	-3,306.20	-3,371.48	4,711.94	4,327.99	383.96	12.272	
13,600.00	7,227.33	7,162.33	7,227.33	189.11	248.31	-89.82	-3,306.20	-3,371.48	4,782.04	4,398.00	384.04	12.452	
13,700.00	7,227.01	7,162.01	7,227.01	191.92	248.30	-89.82	-3,306.20	-3,371.48	4,853.18	4,469.08	384.10	12.635	
13,800.00	7,226.70	7,161.70	7,226.70	194.74	248.29	-89.81	-3,306.20	-3,371.48	4,925.33	4,541.19	384.14	12.822	
13,900.00	7,226.39	7,161.39	7,226.39	197.56	248.28	-89.81	-3,306.20	-3,371.48	4,998.43	4,614.29	384.14	13.012	
14,000.00	7,226.08	7,161.08	7,226.08	200.38	248.27	-89.80	-3,306.20	-3,371.48	5,072.46	4,688.33	384.13	13.205	
14,100.00	7,225.77	7,160.77	7,225.77	203.21	248.26	-89.80	-3,306.20	-3,371.48	5,147.36	4,763.27	384.09	13.401	
14,200.00	7,225.45	7,160.45	7,225.45	206.03	248.25	-89.79	-3,306.20	-3,371.48	5,223.10	4,839.07	384.03	13.601	
14,300.00	7,225.14	7,160.14	7,225.14	208.85	248.24	-89.78	-3,306.20	-3,371.48	5,299.65	4,915.69	383.96	13.803	
14,400.00	7,224.83	7,159.83	7,224.83	211.68	248.23	-89.78	-3,306.20	-3,371.48	5,376.96	4,993.09	383.87	14.007	
14,500.00	7,224.52	7,159.52	7,224.52	214.50	248.22	-89.77	-3,306.20	-3,371.48	5,455.02	5,071.25	383.77	14.214	
14,600.00	7,224.21	7,159.21	7,224.21	217.33	248.20	-89.77	-3,306.20	-3,371.48	5,533.78	5,150.12	383.66	14.424	
14,700.00	7,223.89	7,158.89	7,223.89	220.16	248.19	-89.76	-3,306.20	-3,371.48	5,613.22	5,229.68	383.53	14.636	
14,800.00	7,223.58	7,158.58	7,223.58	222.98	248.18	-89.76	-3,306.20	-3,371.48	5,693.30	5,309.91	383.39	14.850	
14,900.00	7,223.27	7,158.27	7,223.27	225.81	248.17	-89.75	-3,306.20	-3,371.48	5,774.01	5,390.76	383.25	15.066	
14,987.41	7,223.00	7,158.00	7,223.00	228.28	248.16	-89.75	-3,306.20	-3,371.48	5,845.04	5,461.93	383.11	15.257	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	11.00	3.28	3.28	27.57	937.73	489.50	1,057.86					
100.00	100.00	86.63	97.63	3.28	3.29	27.57	937.81	489.56	1,057.90	1,051.33	6.57	161.020		
200.00	200.00	186.70	197.70	3.34	3.33	27.57	937.97	489.77	1,058.14	1,051.47	6.67	158.665		
300.00	300.00	289.42	300.42	3.44	3.44	27.58	937.98	489.96	1,058.24	1,051.36	6.88	153.786		
321.28	321.28	311.35	322.35	3.47	3.47	27.58	937.96	489.98	1,058.23	1,051.29	6.94	152.482		
400.00	400.00	382.89	393.89	3.60	3.58	27.60	937.99	490.40	1,058.47	1,051.29	7.18	147.431		
500.00	500.00	485.63	496.62	3.81	3.77	27.65	938.08	491.41	1,059.00	1,051.43	7.58	139.729		
600.00	600.00	581.18	592.17	4.05	3.99	27.69	938.09	492.35	1,059.47	1,051.43	8.04	131.808		
700.00	699.98	684.67	695.64	4.32	4.26	85.85	938.05	493.89	1,060.01	1,051.43	8.58	123.614		
800.00	799.94	786.38	797.35	4.61	4.55	86.09	937.71	495.19	1,060.10	1,050.94	9.16	115.755		
900.00	899.89	883.04	894.00	4.92	4.85	86.30	937.48	496.36	1,060.27	1,050.51	9.77	108.537		
1,000.00	999.85	985.98	996.93	5.25	5.18	86.55	937.23	497.86	1,060.56	1,050.13	10.43	101.642		
1,100.00	1,099.80	1,080.69	1,091.63	5.60	5.50	86.75	937.12	498.95	1,060.85	1,049.75	11.10	95.562		
1,200.00	1,199.76	1,181.66	1,192.59	5.96	5.86	86.98	937.23	500.41	1,061.49	1,049.68	11.81	89.856		
1,300.00	1,299.72	1,289.26	1,300.18	6.33	6.25	87.23	936.84	501.91	1,061.69	1,049.12	12.57	84.467		
1,400.00	1,399.67	1,389.66	1,400.58	6.71	6.62	87.45	936.24	502.77	1,061.45	1,048.14	13.32	79.715		
1,500.00	1,499.63	1,490.25	1,501.16	7.10	6.99	87.66	935.65	503.58	1,061.22	1,047.14	14.08	75.389		
1,600.00	1,599.58	1,589.30	1,600.20	7.49	7.37	87.90	934.86	504.73	1,060.99	1,046.15	14.84	71.476		
1,700.00	1,699.54	1,687.64	1,698.54	7.88	7.75	88.12	934.32	505.72	1,060.91	1,045.29	15.62	67.926		
1,800.00	1,799.50	1,789.41	1,800.30	8.28	8.15	88.33	933.90	506.49	1,060.84	1,044.43	16.41	64.628		
1,900.00	1,899.45	1,897.86	1,908.75	8.69	8.58	88.54	933.09	506.91	1,060.32	1,043.07	17.24	61.492		
2,000.00	1,999.41	1,993.22	2,004.10	9.10	8.95	88.70	932.49	506.66	1,059.57	1,041.55	18.03	58.775		
2,100.00	2,099.36	2,096.13	2,107.01	9.51	9.36	88.86	932.02	506.33	1,058.95	1,040.11	18.85	56.187		
2,200.00	2,199.32	2,189.54	2,200.42	9.92	9.73	89.01	931.70	506.09	1,058.47	1,038.83	19.63	53.909		
2,259.37	2,258.67	2,247.29	2,258.17	10.17	9.97	89.09	931.78	505.95	1,058.43	1,038.32	20.11	52.625		
2,300.00	2,299.28	2,287.21	2,298.09	10.34	10.13	89.16	931.80	505.97	1,058.45	1,038.01	20.44	51.776		
2,400.00	2,399.23	2,385.85	2,396.73	10.75	10.53	89.33	931.87	506.20	1,058.59	1,037.33	21.26	49.794		
2,500.00	2,499.19	2,490.98	2,501.86	11.17	10.95	89.49	931.96	506.11	1,058.59	1,036.49	22.11	47.889		
2,580.23	2,579.38	2,568.28	2,579.16	11.51	11.27	89.59	932.04	505.75	1,058.45	1,035.69	22.76	46.510		
2,600.00	2,599.14	2,587.10	2,597.98	11.60	11.34	89.62	932.11	505.67	1,058.46	1,035.54	22.92	46.185		
2,700.00	2,699.10	2,686.36	2,697.23	12.02	11.75	89.75	932.56	505.26	1,058.61	1,034.86	23.75	44.581		
2,800.00	2,799.06	2,789.76	2,800.63	12.44	12.17	89.87	932.98	504.64	1,058.64	1,034.04	24.59	43.046		
2,900.00	2,899.01	2,897.26	2,908.13	12.87	12.61	90.00	932.99	503.64	1,058.14	1,032.69	25.46	41.564		
3,000.00	2,998.97	2,993.80	3,004.67	13.29	13.01	90.11	932.87	502.53	1,057.43	1,031.15	26.28	40.234		
3,100.00	3,098.92	3,100.25	3,111.10	13.72	13.45	90.19	932.96	500.75	1,056.63	1,029.48	27.15	38.922		
3,200.00	3,198.88	3,194.84	3,205.67	14.14	13.84	90.26	933.04	499.03	1,055.74	1,027.77	27.97	37.748		
3,300.00	3,298.84	3,299.66	3,310.48	14.57	14.28	90.37	932.92	497.55	1,054.91	1,026.08	28.83	36.591		
3,400.00	3,398.79	3,400.80	3,411.61	15.00	14.70	90.48	932.45	496.10	1,053.77	1,024.09	29.68	35.507		
3,500.00	3,498.75	3,498.96	3,509.75	15.43	15.11	90.58	932.07	494.64	1,052.67	1,022.15	30.52	34.495		
3,600.00	3,598.70	3,593.08	3,603.88	15.86	15.50	90.70	931.81	493.70	1,051.93	1,020.59	31.34	33.566		
3,654.91	3,653.59	3,643.22	3,654.01	16.10	15.71	90.77	931.79	493.48	1,051.80	1,020.01	31.79	33.091		
3,700.00	3,698.66	3,684.19	3,694.98	16.29	15.88	90.83	931.92	493.40	1,051.89	1,019.74	32.15	32.718		
3,800.00	3,798.62	3,784.66	3,795.45	16.72	16.30	90.97	932.46	493.31	1,052.34	1,019.34	33.00	31.889		
3,900.00	3,898.57	3,887.93	3,898.72	17.15	16.73	91.11	932.90	492.92	1,052.54	1,018.68	33.86	31.082		
4,000.00	3,998.53	3,987.59	3,998.37	17.59	17.15	91.22	933.30	492.26	1,052.58	1,017.87	34.71	30.323		
4,100.00	4,098.48	4,088.26	4,099.04	18.02	17.57	91.35	933.68	491.66	1,052.64	1,017.07	35.57	29.597		
4,200.00	4,198.44	4,190.12	4,200.89	18.45	18.00	91.48	933.86	491.13	1,052.57	1,016.15	36.43	28.897		
4,284.95	4,283.35	4,273.44	4,284.22	18.82	18.35	91.59	934.03	490.61	1,052.49	1,015.35	37.14	28.337		
4,300.00	4,298.40	4,288.13	4,298.90	18.88	18.41	91.61	934.07	490.54	1,052.50	1,015.23	37.27	28.240		
4,400.00	4,398.35	4,387.98	4,398.76	19.32	18.83	91.74	934.35	490.07	1,052.55	1,014.43	38.12	27.610		
4,500.00	4,498.31	4,485.95	4,496.73	19.75	19.24	91.87	934.66	489.68	1,052.69	1,013.72	38.97	27.015		
4,600.00	4,598.26	4,582.01	4,592.79	20.19	19.65	92.01	935.09	489.59	1,053.11	1,013.31	39.80	26.458		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
4,700.00	4,698.22	4,683.26	4,694.03	20.62	20.07	92.16	935.66	489.67	1,053.73	1,013.07	40.66	25.913		
4,800.00	4,798.18	4,778.10	4,788.87	21.05	20.47	92.30	936.23	489.81	1,054.43	1,012.93	41.50	25.411		
4,900.00	4,898.13	4,870.77	4,881.53	21.49	20.86	92.45	937.15	490.46	1,055.77	1,013.45	42.32	24.949		
5,000.00	4,998.09	4,971.88	4,982.62	21.92	21.29	92.61	938.58	491.31	1,057.55	1,014.37	43.18	24.493		
5,100.00	5,098.04	5,079.77	5,090.52	22.36	21.75	92.75	939.85	491.61	1,058.81	1,014.74	44.07	24.025		
5,200.00	5,198.00	5,188.82	5,199.56	22.79	22.21	92.91	940.29	491.52	1,059.24	1,014.27	44.97	23.556		
5,300.00	5,297.96	5,289.45	5,300.19	23.23	22.63	93.04	940.48	490.85	1,059.17	1,013.35	45.83	23.112		
5,400.00	5,397.91	5,396.85	5,407.58	23.67	23.09	93.16	940.52	489.82	1,058.81	1,012.09	46.71	22.666		
5,500.00	5,497.87	5,501.44	5,512.16	24.10	23.53	93.28	940.12	488.32	1,057.84	1,010.25	47.59	22.229		
5,600.00	5,597.82	5,596.80	5,607.51	24.54	23.93	93.37	939.83	486.86	1,056.88	1,008.45	48.43	21.823		
5,700.00	5,697.78	5,697.64	5,708.34	24.97	24.36	93.49	939.55	485.60	1,056.11	1,006.82	49.29	21.426		
5,800.00	5,797.74	5,800.75	5,811.44	25.41	24.80	93.58	939.37	483.82	1,055.14	1,004.98	50.16	21.035		
5,900.00	5,897.69	5,897.30	5,907.97	25.85	25.21	93.65	939.37	481.94	1,054.20	1,003.19	51.01	20.667		
6,000.00	5,997.65	5,996.75	6,007.40	26.28	25.63	93.73	939.50	480.15	1,053.44	1,001.58	51.87	20.311		
6,100.00	6,097.60	6,099.23	6,109.85	26.72	26.06	93.79	939.72	478.01	1,052.60	999.86	52.73	19.960		
6,200.00	6,197.56	6,203.19	6,213.79	27.16	26.50	93.86	939.63	475.74	1,051.44	997.83	53.61	19.613		
6,300.00	6,297.52	6,300.29	6,310.86	27.59	26.92	93.93	939.55	473.54	1,050.24	995.79	54.46	19.285		
6,400.00	6,397.47	6,407.80	6,418.33	28.03	27.37	93.96	939.59	470.49	1,048.82	993.47	55.35	18.950		
6,500.00	6,497.43	6,500.77	6,511.26	28.47	27.77	93.98	939.83	467.64	1,047.42	991.24	56.18	18.643		
6,600.00	6,597.38	6,604.28	6,614.70	28.90	28.21	93.96	940.56	464.01	1,046.14	989.08	57.06	18.335		
6,622.76	6,620.12	6,627.84	6,638.24	29.00	28.31	109.01	940.75	463.07	1,045.97	988.72	57.26	18.268 CC, ES		
6,700.00	6,697.08	6,707.70	6,718.04	29.34	28.65	119.87	941.28	459.80	1,046.94	989.01	57.93	18.072		
6,800.00	6,794.63	6,806.05	6,816.31	29.79	29.07	123.43	941.66	455.96	1,056.63	997.84	58.79	17.974 SF		
6,900.00	6,887.62	6,902.96	6,913.13	30.24	29.48	124.48	942.11	451.88	1,075.87	1,016.24	59.63	18.043		
7,000.00	6,973.77	6,992.34	7,002.40	30.70	29.86	124.62	942.81	447.53	1,104.95	1,044.53	60.43	18.286		
7,100.00	7,050.94	7,076.31	7,086.26	31.20	30.22	124.05	943.47	443.18	1,144.07	1,082.88	61.19	18.697		
7,200.00	7,117.24	7,154.22	7,164.04	31.77	30.56	122.63	943.97	438.77	1,193.03	1,131.11	61.92	19.267		
7,300.00	7,171.03	7,219.75	7,229.41	32.46	30.84	119.85	944.63	434.19	1,251.26	1,188.67	62.59	19.990		
7,400.00	7,211.00	7,266.13	7,275.67	33.29	31.04	114.94	945.00	430.92	1,318.20	1,255.02	63.18	20.864		
7,500.00	7,236.16	7,297.93	7,307.39	34.29	31.18	107.46	945.20	428.71	1,392.55	1,328.86	63.68	21.866		
7,600.00	7,245.89	7,314.51	7,323.93	35.43	31.25	96.88	945.31	427.56	1,472.45	1,408.36	64.09	22.976		
7,700.00	7,245.73	7,321.28	7,330.68	36.72	31.28	95.52	945.35	427.10	1,555.60	1,491.18	64.42	24.149		
7,800.00	7,245.42	7,327.89	7,337.28	38.18	31.31	95.97	945.40	426.64	1,640.61	1,575.87	64.74	25.340		
7,900.00	7,245.10	7,334.50	7,343.88	39.80	31.34	96.41	945.44	426.18	1,727.20	1,662.14	65.06	26.547		
8,000.00	7,244.79	7,341.12	7,350.47	41.54	31.37	96.86	945.48	425.72	1,815.15	1,749.78	65.37	27.767		
8,100.00	7,244.48	7,347.73	7,357.07	43.41	31.39	97.30	945.52	425.26	1,904.27	1,838.60	65.67	28.998		
8,200.00	7,244.17	7,354.34	7,363.66	45.38	31.42	97.75	945.57	424.81	1,994.39	1,928.44	65.95	30.240		
8,300.00	7,243.86	7,360.95	7,370.26	47.44	31.45	98.19	945.61	424.35	2,085.40	2,019.17	66.22	31.491		
8,400.00	7,243.55	7,367.56	7,376.86	49.58	31.48	98.63	945.65	423.89	2,177.17	2,110.69	66.48	32.749		
8,500.00	7,243.23	7,374.18	7,383.45	51.78	31.51	99.07	945.70	423.43	2,269.62	2,202.89	66.73	34.014		
8,600.00	7,242.92	7,380.79	7,390.05	54.05	31.54	99.51	945.74	422.97	2,362.67	2,295.71	66.96	35.284		
8,700.00	7,242.61	7,387.40	7,396.64	56.37	31.57	99.95	945.78	422.51	2,456.24	2,389.06	67.19	36.559		
8,800.00	7,242.30	7,394.01	7,403.24	58.74	31.60	100.38	945.82	422.06	2,550.29	2,482.89	67.40	37.838		
8,900.00	7,241.99	7,400.62	7,409.84	61.16	31.63	100.82	945.87	421.60	2,644.75	2,577.15	67.61	39.120		
9,000.00	7,241.67	7,407.23	7,416.43	63.61	31.65	101.25	945.91	421.14	2,739.60	2,671.79	67.80	40.404		
9,100.00	7,241.36	7,413.85	7,423.03	66.09	31.68	101.69	945.95	420.68	2,834.78	2,766.78	68.00	41.691		
9,200.00	7,241.05	7,420.46	7,429.62	68.60	31.71	102.12	945.99	420.22	2,930.27	2,862.09	68.18	42.979		
9,300.00	7,240.74	7,427.07	7,436.22	71.13	31.74	102.55	946.04	419.77	3,026.03	2,957.68	68.36	44.269		
9,400.00	7,240.43	7,433.68	7,442.81	73.70	31.77	102.98	946.08	419.31	3,122.05	3,053.52	68.53	45.559		
9,500.00	7,240.11	7,440.29	7,449.41	76.28	31.80	103.40	946.12	418.85	3,218.30	3,149.60	68.69	46.850		
9,600.00	7,239.80	7,446.91	7,456.01	78.88	31.83	103.83	946.16	418.39	3,314.75	3,245.89	68.86	48.140		
9,700.00	7,239.49	7,453.52	7,462.60	81.50	31.86	104.25	946.21	417.93	3,411.40	3,342.38	69.01	49.431		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
9,800.00	7,239.18	7,460.13	7,469.20	84.13	31.88	104.68	946.25	417.48	3,508.22	3,439.05	69.17	50.721		
9,900.00	7,238.87	7,443.00	7,452.11	86.78	31.81	103.58	946.14	418.66	3,605.28	3,536.08	69.20	52.097		
10,000.00	7,238.55	7,443.00	7,452.11	89.44	31.81	103.58	946.14	418.66	3,702.46	3,633.14	69.32	53.414		
10,100.00	7,238.24	7,443.00	7,452.11	92.11	31.81	103.58	946.14	418.66	3,799.78	3,730.36	69.43	54.731		
10,200.00	7,237.93	7,443.00	7,452.11	94.80	31.81	103.58	946.14	418.66	3,897.24	3,827.71	69.53	56.048		
10,300.00	7,237.62	7,443.00	7,452.11	97.49	31.81	103.58	946.14	418.66	3,994.83	3,925.19	69.64	57.366		
10,400.00	7,237.31	7,443.00	7,452.11	100.19	31.81	103.58	946.14	418.66	4,092.53	4,022.79	69.74	58.683		
10,500.00	7,236.99	7,443.00	7,452.11	102.90	31.81	103.58	946.14	418.66	4,190.34	4,120.50	69.84	60.000		
10,600.00	7,236.68	7,443.00	7,452.11	105.62	31.81	103.58	946.14	418.66	4,288.25	4,218.32	69.94	61.317		
10,700.00	7,236.37	7,443.00	7,452.11	108.35	31.81	103.58	946.14	418.66	4,386.26	4,316.23	70.03	62.634		
10,800.00	7,236.06	7,443.00	7,452.11	111.08	31.81	103.58	946.14	418.66	4,484.35	4,414.23	70.12	63.949		
10,900.00	7,235.75	7,443.00	7,452.11	113.82	31.81	103.58	946.14	418.66	4,582.53	4,512.31	70.22	65.264		
11,000.00	7,235.44	7,443.00	7,452.11	116.56	31.81	103.58	946.14	418.66	4,680.78	4,610.48	70.31	66.578		
11,100.00	7,235.12	7,443.00	7,452.11	119.31	31.81	103.58	946.14	418.66	4,779.11	4,708.71	70.39	67.890		
11,200.00	7,234.81	7,443.00	7,452.11	122.07	31.81	103.58	946.14	418.66	4,877.50	4,807.02	70.48	69.202		
11,300.00	7,234.50	7,443.00	7,452.11	124.83	31.81	103.58	946.14	418.66	4,975.96	4,905.39	70.57	70.512		
11,400.00	7,234.19	7,443.00	7,452.11	127.59	31.81	103.58	946.14	418.66	5,074.48	5,003.82	70.65	71.821		
11,500.00	7,233.88	7,443.00	7,452.11	130.36	31.81	103.58	946.14	418.66	5,173.05	5,102.31	70.74	73.129		
11,600.00	7,233.56	7,443.00	7,452.11	133.13	31.81	103.58	946.14	418.66	5,271.68	5,200.86	70.82	74.435		
11,700.00	7,233.25	7,443.00	7,452.11	135.91	31.81	103.58	946.14	418.66	5,370.36	5,299.46	70.91	75.739		
11,800.00	7,232.94	7,443.00	7,452.11	138.68	31.81	103.58	946.14	418.66	5,469.09	5,398.10	70.99	77.042		
11,900.00	7,232.63	7,443.00	7,452.11	141.47	31.81	103.58	946.14	418.66	5,567.86	5,496.79	71.07	78.343		
12,000.00	7,232.32	7,443.00	7,452.11	144.25	31.81	103.58	946.14	418.66	5,666.68	5,595.53	71.15	79.641		
12,100.00	7,232.00	7,443.00	7,452.11	147.04	31.81	103.58	946.14	418.66	5,765.53	5,694.30	71.23	80.938		
12,200.00	7,231.69	7,443.00	7,452.11	149.83	31.81	103.58	946.14	418.66	5,864.43	5,793.12	71.31	82.233		
12,300.00	7,231.38	7,443.00	7,452.11	152.62	31.81	103.58	946.14	418.66	5,963.36	5,891.97	71.40	83.526		
12,400.00	7,231.07	7,443.00	7,452.11	155.42	31.81	103.58	946.14	418.66	6,062.33	5,990.85	71.48	84.817		
12,500.00	7,230.76	7,443.00	7,452.11	158.22	31.81	103.58	946.14	418.66	6,161.33	6,089.78	71.56	86.105		
12,600.00	7,230.44	7,443.00	7,452.11	161.01	31.81	103.58	946.14	418.66	6,260.36	6,188.73	71.64	87.392		
12,700.00	7,230.13	7,443.00	7,452.11	163.82	31.81	103.58	946.14	418.66	6,359.43	6,287.71	71.72	88.675		
12,800.00	7,229.82	7,443.00	7,452.11	166.62	31.81	103.58	946.14	418.66	6,458.52	6,386.72	71.80	89.957		
12,900.00	7,229.51	7,443.00	7,452.11	169.43	31.81	103.58	946.14	418.66	6,557.64	6,485.76	71.88	91.236		
13,000.00	7,229.20	7,443.00	7,452.11	172.23	31.81	103.58	946.14	418.66	6,656.78	6,584.83	71.96	92.513		
13,100.00	7,228.88	7,443.00	7,452.11	175.04	31.81	103.58	946.14	418.66	6,755.95	6,683.92	72.04	93.787		
13,200.00	7,228.57	7,443.00	7,452.11	177.85	31.81	103.58	946.14	418.66	6,855.15	6,783.03	72.12	95.058		
13,300.00	7,228.26	7,443.00	7,452.11	180.66	31.81	103.58	946.14	418.66	6,954.37	6,882.17	72.20	96.327		
13,400.00	7,227.95	7,443.00	7,452.11	183.48	31.81	103.58	946.14	418.66	7,053.61	6,981.33	72.28	97.593		
13,500.00	7,227.64	7,443.00	7,452.11	186.29	31.81	103.58	946.14	418.66	7,152.87	7,080.51	72.36	98.856		
13,600.00	7,227.33	7,443.00	7,452.11	189.11	31.81	103.58	946.14	418.66	7,252.15	7,179.71	72.44	100.117		
13,700.00	7,227.01	7,443.00	7,452.11	191.92	31.81	103.58	946.14	418.66	7,351.45	7,278.93	72.52	101.375		
13,800.00	7,226.70	7,443.00	7,452.11	194.74	31.81	103.58	946.14	418.66	7,450.77	7,378.17	72.60	102.630		
13,900.00	7,226.39	7,443.00	7,452.11	197.56	31.81	103.58	946.14	418.66	7,550.11	7,477.43	72.68	103.882		
14,000.00	7,226.08	7,443.00	7,452.11	200.38	31.81	103.58	946.14	418.66	7,649.46	7,576.70	72.76	105.131		
14,100.00	7,225.77	7,443.00	7,452.11	203.21	31.81	103.58	946.14	418.66	7,748.83	7,675.99	72.84	106.377		
14,200.00	7,225.45	7,443.00	7,452.11	206.03	31.81	103.58	946.14	418.66	7,848.22	7,775.30	72.93	107.620		
14,300.00	7,225.14	7,443.00	7,452.11	208.85	31.81	103.58	946.14	418.66	7,947.62	7,874.62	73.01	108.860		
14,400.00	7,224.83	7,443.00	7,452.11	211.68	31.81	103.58	946.14	418.66	8,047.04	7,973.95	73.09	110.097		
14,500.00	7,224.52	7,443.00	7,452.11	214.50	31.81	103.58	946.14	418.66	8,146.47	8,073.30	73.17	111.331		
14,600.00	7,224.21	7,443.00	7,452.11	217.33	31.81	103.58	946.14	418.66	8,245.92	8,172.66	73.26	112.562		
14,700.00	7,223.89	7,443.00	7,452.11	220.16	31.81	103.58	946.14	418.66	8,345.38	8,272.04	73.34	113.790		
14,800.00	7,223.58	7,443.00	7,452.11	222.98	31.81	103.58	946.14	418.66	8,444.85	8,371.43	73.42	115.014		
14,900.00	7,223.27	7,443.00	7,452.11	225.81	31.81	103.58	946.14	418.66	8,544.33	8,470.83	73.51	116.236		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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)							
14,987.41	7,223.00	7,443.00	7,452.11	228.28	31.81	103.58	946.14	418.66	8,631.30	8,557.72	73.58	117.300						



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	21.00	3.28	3.28	102.48	-115.11	520.12	533.12					
100.00	100.00	80.03	101.02	3.28	3.28	102.42	-114.56	520.16	532.63	526.06	6.57	81.073		
200.00	200.00	182.46	203.45	3.34	3.33	102.25	-112.95	520.10	532.23	525.56	6.67	79.807		
300.00	300.00	282.99	303.97	3.44	3.43	102.13	-111.66	519.62	531.50	524.62	6.88	77.274		
400.00	400.00	380.64	401.61	3.60	3.58	102.01	-110.51	519.30	530.94	523.75	7.18	73.935		
472.13	472.13	451.16	472.13	3.75	3.71	101.92	-109.66	519.38	530.83	523.38	7.45	71.218 CC		
500.00	500.00	478.49	499.45	3.81	3.76	101.89	-109.34	519.47	530.85	523.28	7.57	70.125		
600.00	600.00	578.29	599.24	4.05	3.99	101.74	-108.02	519.91	531.01	522.97	8.04	66.068 ES		
700.00	699.98	677.38	698.32	4.32	4.25	159.61	-106.46	520.43	532.81	524.25	8.56	62.228		
800.00	799.94	777.07	798.00	4.61	4.53	159.56	-105.06	521.09	535.95	526.81	9.14	58.658		
900.00	899.89	875.87	896.78	4.92	4.83	159.48	-103.39	521.87	539.17	529.42	9.75	55.290		
1,000.00	999.85	975.87	996.77	5.25	5.16	159.42	-101.90	522.80	542.56	532.16	10.41	52.142		
1,100.00	1,099.80	1,076.35	1,097.22	5.60	5.49	159.36	-100.44	523.62	545.86	534.77	11.09	49.221		
1,200.00	1,199.76	1,176.97	1,197.83	5.96	5.85	159.30	-98.91	524.36	549.05	537.25	11.80	46.534		
1,300.00	1,299.72	1,278.69	1,299.54	6.33	6.21	159.25	-97.47	524.86	552.04	539.50	12.53	44.050		
1,400.00	1,399.67	1,377.76	1,398.60	6.71	6.58	159.19	-95.84	525.24	554.87	541.59	13.27	41.806		
1,500.00	1,499.63	1,479.48	1,500.31	7.10	6.96	159.15	-94.43	525.63	557.75	543.71	14.04	39.735		
1,600.00	1,599.58	1,580.90	1,601.72	7.49	7.34	159.14	-93.20	525.59	560.24	545.43	14.81	37.825		
1,700.00	1,699.54	1,683.04	1,703.85	7.88	7.74	159.12	-91.91	525.26	562.46	546.86	15.60	36.056		
1,800.00	1,799.50	1,781.06	1,801.86	8.28	8.12	159.15	-91.06	524.77	564.57	548.20	16.38	34.469		
1,900.00	1,899.45	1,880.76	1,901.56	8.69	8.51	159.18	-90.21	524.58	567.00	549.82	17.17	33.016		
2,000.00	1,999.41	1,982.76	2,003.55	9.10	8.92	159.20	-89.30	524.22	569.25	551.26	17.98	31.653		
2,100.00	2,099.36	2,083.49	2,104.28	9.51	9.32	159.29	-88.91	523.46	571.20	552.41	18.79	30.392		
2,200.00	2,199.32	2,182.54	2,203.33	9.92	9.72	159.41	-88.92	522.65	573.18	553.58	19.60	29.239		
2,300.00	2,299.28	2,282.00	2,302.79	10.34	10.12	159.53	-88.99	521.98	575.32	554.90	20.42	28.176		
2,400.00	2,399.23	2,383.21	2,404.00	10.75	10.53	159.69	-89.41	521.18	577.40	556.16	21.25	27.178		
2,500.00	2,499.19	2,481.49	2,502.26	11.17	10.92	159.87	-90.00	520.32	579.46	557.40	22.06	26.264		
2,600.00	2,599.14	2,580.62	2,601.40	11.60	11.33	160.07	-90.94	519.69	581.82	558.93	22.89	25.421		
2,700.00	2,699.10	2,678.08	2,698.85	12.02	11.72	160.27	-91.94	519.26	584.40	560.70	23.71	24.652		
2,800.00	2,799.06	2,778.80	2,799.56	12.44	12.13	160.47	-93.00	519.08	587.25	562.71	24.54	23.928		
2,900.00	2,899.01	2,880.46	2,901.21	12.87	12.55	160.68	-94.08	518.60	589.81	564.43	25.39	23.235		
3,000.00	2,998.97	2,980.56	3,001.31	13.29	12.96	160.85	-94.73	518.03	592.21	565.98	26.22	22.584		
3,100.00	3,098.92	3,082.26	3,103.00	13.72	13.38	161.00	-95.16	517.40	594.50	567.43	27.07	21.962		
3,200.00	3,198.88	3,182.95	3,203.69	14.14	13.80	161.13	-95.31	516.57	596.54	568.63	27.91	21.371		
3,300.00	3,298.84	3,282.85	3,303.59	14.57	14.22	161.26	-95.49	515.70	598.54	569.79	28.76	20.814		
3,400.00	3,398.79	3,379.09	3,399.83	15.00	14.62	161.37	-95.70	515.12	600.82	571.24	29.58	20.309		
3,500.00	3,498.75	3,478.64	3,499.37	15.43	15.03	161.49	-95.99	514.99	603.57	573.14	30.43	19.836		
3,600.00	3,598.70	3,579.33	3,600.07	15.86	15.45	161.63	-96.39	514.72	606.22	574.94	31.28	19.382		
3,700.00	3,698.66	3,680.03	3,700.76	16.29	15.88	161.77	-96.90	514.30	608.75	576.62	32.13	18.947		
3,800.00	3,798.62	3,780.72	3,801.45	16.72	16.30	161.93	-97.50	513.73	611.17	578.18	32.98	18.530		
3,900.00	3,898.57	3,881.42	3,902.15	17.15	16.72	162.09	-98.21	513.01	613.46	579.63	33.84	18.131		
4,000.00	3,998.53	3,982.12	4,002.84	17.59	17.14	162.27	-99.02	512.14	615.65	580.96	34.69	17.747		
4,100.00	4,098.48	4,082.82	4,103.53	18.02	17.57	162.46	-99.93	511.12	617.72	582.17	35.55	17.378		
4,200.00	4,198.44	4,183.52	4,204.21	18.45	17.99	162.66	-100.94	509.95	619.67	583.27	36.40	17.024		
4,300.00	4,298.40	4,282.32	4,303.00	18.88	18.41	162.86	-101.99	508.79	621.65	584.40	37.25	16.689		
4,400.00	4,398.35	4,380.00	4,400.68	19.32	18.82	163.05	-102.93	507.97	623.92	585.83	38.09	16.380		
4,500.00	4,498.31	4,481.51	4,502.18	19.75	19.24	163.20	-103.57	507.34	626.33	587.37	38.95	16.080		
4,600.00	4,598.26	4,582.29	4,602.96	20.19	19.67	163.31	-103.77	506.55	628.46	588.65	39.81	15.787		
4,700.00	4,698.22	4,680.91	4,701.57	20.62	20.09	163.42	-103.95	505.82	630.64	589.98	40.66	15.511		
4,800.00	4,798.18	4,778.96	4,799.62	21.05	20.50	163.53	-104.15	505.37	633.10	591.60	41.50	15.254		
4,900.00	4,898.13	4,878.52	4,899.18	21.49	20.92	163.62	-104.36	505.14	635.78	593.42	42.36	15.010		
5,000.00	4,998.09	4,980.34	5,001.00	21.92	21.35	163.69	-104.15	504.90	638.34	595.12	43.22	14.769		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,100.00	5,098.04	5,080.47	5,101.13	22.36	21.77	163.75	-103.90	504.45	640.69	596.61	44.08	14.534		
5,200.00	5,198.00	5,180.57	5,201.23	22.79	22.20	163.82	-103.73	503.99	643.05	598.11	44.94	14.309		
5,300.00	5,297.96	5,283.14	5,303.80	23.23	22.63	163.89	-103.51	503.34	645.24	599.43	45.81	14.085		
5,400.00	5,397.91	5,383.85	5,404.50	23.67	23.06	163.99	-103.46	502.32	647.09	600.42	46.67	13.865		
5,500.00	5,497.87	5,482.61	5,503.25	24.10	23.48	164.09	-103.55	501.32	649.00	601.48	47.52	13.656		
5,600.00	5,597.82	5,580.71	5,601.35	24.54	23.89	164.18	-103.58	500.61	651.17	602.79	48.37	13.461		
5,700.00	5,697.78	5,679.80	5,700.44	24.97	24.31	164.29	-103.82	500.06	653.57	604.34	49.23	13.276		
5,800.00	5,797.74	5,779.70	5,800.34	25.41	24.74	164.42	-104.37	499.49	656.03	605.94	50.09	13.098		
5,900.00	5,897.69	5,878.95	5,899.59	25.85	25.16	164.53	-104.77	499.01	658.53	607.59	50.94	12.927		
6,000.00	5,997.65	5,980.69	6,001.32	26.28	25.59	164.61	-104.79	498.60	661.01	609.20	51.81	12.758		
6,100.00	6,097.60	6,081.52	6,102.16	26.72	26.02	164.70	-104.85	497.90	663.23	610.55	52.68	12.591		
6,200.00	6,197.56	6,180.81	6,201.44	27.16	26.44	164.81	-105.09	497.15	665.44	611.91	53.53	12.430		
6,300.00	6,297.52	6,279.06	6,299.68	27.59	26.86	164.90	-105.22	496.64	667.84	613.46	54.39	12.280		
6,400.00	6,397.47	6,378.50	6,399.13	28.03	27.28	164.97	-105.23	496.36	670.44	615.20	55.24	12.136		
6,500.00	6,497.43	6,478.33	6,498.96	28.47	27.70	165.04	-105.24	496.11	673.07	616.97	56.10	11.997		
6,600.00	6,597.38	6,578.16	6,598.78	28.90	28.13	165.12	-105.25	495.88	675.72	618.76	56.96	11.862		
6,700.00	6,697.08	6,677.73	6,698.36	29.34	28.55	-168.91	-105.26	495.67	682.26	624.44	57.82	11.799 SF		
6,800.00	6,794.63	6,775.19	6,795.81	29.79	28.97	-165.27	-105.27	495.49	703.05	644.38	58.67	11.983		
6,900.00	6,887.62	6,868.10	6,888.73	30.24	29.36	-163.94	-105.27	495.33	738.25	678.77	59.48	12.412		
7,000.00	6,973.77	6,954.18	6,974.81	30.70	29.73	-162.92	-105.28	495.20	787.13	726.91	60.22	13.070		
7,100.00	7,050.94	7,031.31	7,051.94	31.20	30.06	-161.65	-105.28	495.10	848.64	787.76	60.88	13.939		
7,200.00	7,117.24	7,097.57	7,118.20	31.77	30.34	-159.65	-105.29	495.03	921.36	859.93	61.44	14.997		
7,300.00	7,171.03	7,151.35	7,171.98	32.46	30.57	-156.17	-105.29	494.97	1,003.59	941.71	61.88	16.219		
7,400.00	7,211.00	7,191.31	7,211.94	33.29	30.74	-149.44	-105.29	494.94	1,093.31	1,031.11	62.20	17.577		
7,500.00	7,236.16	7,216.49	7,237.12	34.29	30.85	-134.32	-105.29	494.91	1,188.33	1,125.93	62.40	19.043		
7,600.00	7,245.89	7,226.28	7,246.90	35.43	30.89	-96.69	-105.29	494.91	1,286.27	1,223.78	62.49	20.584		
7,700.00	7,245.73	7,226.20	7,246.83	36.72	30.89	-89.15	-105.29	494.91	1,384.97	1,322.45	62.51	22.155		
7,800.00	7,245.42	7,225.97	7,246.60	38.18	30.89	-89.09	-105.29	494.91	1,483.84	1,421.31	62.54	23.728		
7,900.00	7,245.10	7,225.74	7,246.37	39.80	30.89	-89.03	-105.29	494.91	1,582.86	1,520.30	62.56	25.301		
8,000.00	7,244.79	7,225.51	7,246.14	41.54	30.88	-88.97	-105.29	494.91	1,682.00	1,619.41	62.59	26.875		
8,100.00	7,244.48	7,225.28	7,245.91	43.41	30.88	-88.91	-105.29	494.91	1,781.23	1,718.62	62.61	28.449		
8,200.00	7,244.17	7,225.05	7,245.68	45.38	30.88	-88.84	-105.29	494.91	1,880.54	1,817.90	62.64	30.023		
8,300.00	7,243.86	7,224.82	7,245.45	47.44	30.88	-88.78	-105.29	494.91	1,979.92	1,917.26	62.66	31.596		
8,400.00	7,243.55	7,224.59	7,245.22	49.58	30.88	-88.72	-105.29	494.91	2,079.36	2,016.67	62.69	33.169		
8,500.00	7,243.23	7,224.36	7,244.99	51.78	30.88	-88.66	-105.29	494.91	2,178.85	2,116.13	62.72	34.741		
8,600.00	7,242.92	7,224.13	7,244.76	54.05	30.88	-88.60	-105.29	494.91	2,278.39	2,215.64	62.75	36.312		
8,700.00	7,242.61	7,223.90	7,244.53	56.37	30.88	-88.54	-105.29	494.91	2,377.96	2,315.19	62.77	37.881		
8,800.00	7,242.30	7,223.67	7,244.30	58.74	30.88	-88.48	-105.29	494.91	2,477.57	2,414.77	62.80	39.450		
8,900.00	7,241.99	7,223.44	7,244.07	61.16	30.88	-88.41	-105.29	494.91	2,577.21	2,514.38	62.83	41.017		
9,000.00	7,241.67	7,223.21	7,243.84	63.61	30.88	-88.35	-105.29	494.91	2,676.88	2,614.02	62.86	42.582		
9,100.00	7,241.36	7,222.98	7,243.61	66.09	30.87	-88.29	-105.29	494.91	2,776.57	2,713.67	62.90	44.146		
9,200.00	7,241.05	7,222.75	7,243.38	68.60	30.87	-88.23	-105.29	494.91	2,876.28	2,813.35	62.93	45.708		
9,300.00	7,240.74	7,222.52	7,243.15	71.13	30.87	-88.17	-105.29	494.91	2,976.01	2,913.05	62.96	47.268		
9,400.00	7,240.43	7,222.29	7,242.92	73.70	30.87	-88.11	-105.29	494.91	3,075.76	3,012.77	62.99	48.826		
9,500.00	7,240.11	7,222.07	7,242.69	76.28	30.87	-88.05	-105.29	494.91	3,175.53	3,112.50	63.03	50.383		
9,600.00	7,239.80	7,221.84	7,242.46	78.88	30.87	-87.99	-105.29	494.91	3,275.30	3,212.24	63.06	51.937		
9,700.00	7,239.49	7,221.61	7,242.24	81.50	30.87	-87.93	-105.29	494.91	3,375.10	3,312.00	63.10	53.488		
9,800.00	7,239.18	7,221.38	7,242.01	84.13	30.87	-87.86	-105.29	494.91	3,474.90	3,411.76	63.14	55.038		
9,900.00	7,238.87	7,221.15	7,241.78	86.78	30.87	-87.80	-105.29	494.91	3,574.72	3,511.54	63.17	56.585		
10,000.00	7,238.55	7,220.92	7,241.55	89.44	30.87	-87.74	-105.29	494.91	3,674.54	3,611.33	63.21	58.129		
10,100.00	7,238.24	7,220.69	7,241.32	92.11	30.86	-87.68	-105.29	494.91	3,774.37	3,711.12	63.25	59.671		
10,200.00	7,237.93	7,220.47	7,241.09	94.80	30.86	-87.62	-105.29	494.91	3,874.22	3,810.92	63.29	61.211		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,300.00	7,237.62	7,220.24	7,240.87	97.49	30.86	-87.56	-105.29	494.91	3,974.07	3,910.73	63.33	62.747		
10,400.00	7,237.31	7,220.01	7,240.64	100.19	30.86	-87.50	-105.29	494.91	4,073.93	4,010.55	63.38	64.281		
10,500.00	7,236.99	7,219.78	7,240.41	102.90	30.86	-87.44	-105.29	494.91	4,173.79	4,110.37	63.42	65.812		
10,600.00	7,236.68	7,219.55	7,240.18	105.62	30.86	-87.38	-105.29	494.91	4,273.66	4,210.20	63.46	67.340		
10,700.00	7,236.37	7,219.33	7,239.96	108.35	30.86	-87.32	-105.29	494.91	4,373.54	4,310.03	63.51	68.864		
10,800.00	7,236.06	7,219.10	7,239.73	111.08	30.86	-87.26	-105.29	494.91	4,473.42	4,409.86	63.56	70.386		
10,900.00	7,235.75	7,218.87	7,239.50	113.82	30.86	-87.20	-105.29	494.91	4,573.31	4,509.71	63.60	71.905		
11,000.00	7,235.44	7,218.64	7,239.27	116.56	30.86	-87.13	-105.29	494.91	4,673.20	4,609.55	63.65	73.420		
11,100.00	7,235.12	7,218.42	7,239.05	119.31	30.85	-87.07	-105.29	494.91	4,773.10	4,709.40	63.70	74.932		
11,200.00	7,234.81	7,218.19	7,238.82	122.07	30.85	-87.01	-105.29	494.91	4,873.00	4,809.25	63.75	76.440		
11,300.00	7,234.50	7,217.96	7,238.59	124.83	30.85	-86.95	-105.29	494.91	4,972.90	4,909.10	63.80	77.946		
11,400.00	7,234.19	7,217.74	7,238.36	127.59	30.85	-86.89	-105.29	494.91	5,072.81	5,008.96	63.85	79.447		
11,500.00	7,233.88	7,217.51	7,238.14	130.36	30.85	-86.83	-105.29	494.91	5,172.72	5,108.82	63.90	80.945		
11,600.00	7,233.56	7,217.28	7,237.91	133.13	30.85	-86.77	-105.29	494.91	5,272.64	5,208.68	63.96	82.440		
11,700.00	7,233.25	7,217.06	7,237.68	135.91	30.85	-86.71	-105.29	494.91	5,372.56	5,308.55	64.01	83.930		
11,800.00	7,232.94	7,216.83	7,237.46	138.68	30.85	-86.65	-105.29	494.91	5,472.48	5,408.41	64.07	85.417		
11,900.00	7,232.63	7,216.60	7,237.23	141.47	30.85	-86.59	-105.29	494.91	5,572.40	5,508.28	64.12	86.901		
12,000.00	7,232.32	7,216.38	7,237.00	144.25	30.85	-86.53	-105.29	494.91	5,672.33	5,608.15	64.18	88.380		
12,100.00	7,232.00	7,216.15	7,236.78	147.04	30.84	-86.47	-105.29	494.91	5,772.26	5,708.02	64.24	89.855		
12,200.00	7,231.69	7,215.92	7,236.55	149.83	30.84	-86.41	-105.29	494.91	5,872.19	5,807.89	64.30	91.327		
12,300.00	7,231.38	7,215.70	7,236.33	152.62	30.84	-86.35	-105.29	494.91	5,972.13	5,907.77	64.36	92.794		
12,400.00	7,231.07	7,215.47	7,236.10	155.42	30.84	-86.29	-105.29	494.91	6,072.06	6,007.64	64.42	94.258		
12,500.00	7,230.76	7,215.25	7,235.87	158.22	30.84	-86.23	-105.29	494.91	6,172.00	6,107.52	64.48	95.717		
12,600.00	7,230.44	7,215.02	7,235.65	161.01	30.84	-86.17	-105.29	494.91	6,271.94	6,207.40	64.54	97.172		
12,700.00	7,230.13	7,214.79	7,235.42	163.82	30.84	-86.11	-105.29	494.92	6,371.88	6,307.28	64.61	98.623		
12,800.00	7,229.82	7,214.57	7,235.20	166.62	30.84	-86.05	-105.29	494.92	6,471.83	6,407.16	64.67	100.070		
12,900.00	7,229.51	7,214.34	7,234.97	169.43	30.84	-85.99	-105.29	494.92	6,571.77	6,507.04	64.74	101.512		
13,000.00	7,229.20	7,214.12	7,234.75	172.23	30.84	-85.93	-105.29	494.92	6,671.72	6,606.92	64.81	102.950		
13,100.00	7,228.88	7,213.89	7,234.52	175.04	30.84	-85.87	-105.29	494.92	6,771.67	6,706.80	64.87	104.384		
13,200.00	7,228.57	7,213.67	7,234.29	177.85	30.83	-85.81	-105.29	494.92	6,871.62	6,806.68	64.94	105.813		
13,300.00	7,228.26	7,213.44	7,234.07	180.66	30.83	-85.75	-105.29	494.92	6,971.57	6,906.56	65.01	107.238		
13,400.00	7,227.95	7,213.22	7,233.84	183.48	30.83	-85.69	-105.29	494.92	7,071.53	7,006.45	65.08	108.658		
13,500.00	7,227.64	7,212.99	7,233.62	186.29	30.83	-85.63	-105.29	494.92	7,171.48	7,106.33	65.15	110.074		
13,600.00	7,227.33	7,212.77	7,233.39	189.11	30.83	-85.57	-105.29	494.92	7,271.44	7,206.21	65.22	111.485		
13,700.00	7,227.01	7,212.54	7,233.17	191.92	30.83	-85.51	-105.29	494.92	7,371.39	7,306.10	65.30	112.892		
13,800.00	7,226.70	7,212.32	7,232.94	194.74	30.83	-85.45	-105.29	494.92	7,471.35	7,405.98	65.37	114.294		
13,900.00	7,226.39	7,212.09	7,232.72	197.56	30.83	-85.39	-105.29	494.92	7,571.31	7,505.87	65.44	115.691		
14,000.00	7,226.08	7,211.87	7,232.50	200.38	30.83	-85.33	-105.29	494.92	7,671.27	7,605.75	65.52	117.083		
14,100.00	7,225.77	7,211.64	7,232.27	203.21	30.83	-85.27	-105.29	494.92	7,771.23	7,705.64	65.60	118.471		
14,200.00	7,225.45	7,211.42	7,232.05	206.03	30.82	-85.21	-105.29	494.92	7,871.19	7,805.52	65.67	119.854		
14,300.00	7,225.14	7,211.19	7,231.82	208.85	30.82	-85.15	-105.29	494.92	7,971.16	7,905.41	65.75	121.232		
14,400.00	7,224.83	7,210.97	7,231.60	211.68	30.82	-85.09	-105.29	494.92	8,071.12	8,005.29	65.83	122.606		
14,500.00	7,224.52	7,210.75	7,231.37	214.50	30.82	-85.03	-105.29	494.92	8,171.09	8,105.18	65.91	123.974		
14,600.00	7,224.21	7,210.52	7,231.15	217.33	30.82	-84.97	-105.29	494.92	8,271.05	8,205.06	65.99	125.338		
14,700.00	7,223.89	7,210.30	7,230.93	220.16	30.82	-84.91	-105.29	494.92	8,371.02	8,304.95	66.07	126.697		
14,800.00	7,223.58	7,210.08	7,230.70	222.98	30.82	-84.85	-105.29	494.92	8,470.99	8,404.83	66.15	128.051		
14,900.00	7,223.27	7,209.85	7,230.48	225.81	30.82	-84.80	-105.29	494.92	8,570.95	8,504.72	66.24	129.400		
14,987.41	7,223.00	7,209.66	7,230.28	228.28	30.82	-84.74	-105.29	494.92	8,658.34	8,592.03	66.31	130.575		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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							
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	1.00	3.28	3.28	9.83	1,410.60	244.47	1,431.62				
100.00	100.00	107.65	108.65	3.28	3.29	9.84	1,410.26	244.53	1,431.32	1,424.75	6.57	217.746	
200.00	200.00	213.09	214.09	3.34	3.34	9.85	1,409.35	244.62	1,430.49	1,423.81	6.67	214.314	
300.00	300.00	315.93	316.91	3.44	3.45	9.85	1,408.23	244.52	1,429.40	1,422.50	6.89	207.324	
400.00	400.00	408.96	409.95	3.60	3.60	9.85	1,407.32	244.36	1,428.41	1,421.21	7.20	198.427	
500.00	500.00	504.79	505.77	3.81	3.79	9.84	1,406.88	243.95	1,427.88	1,420.29	7.59	188.109	
600.00	600.00	611.84	612.82	4.05	4.04	9.83	1,406.27	243.58	1,427.26	1,419.18	8.08	176.543	
700.00	699.98	708.43	709.41	4.32	4.30	67.89	1,405.64	242.95	1,425.87	1,417.26	8.61	165.569	
800.00	799.94	808.11	809.07	4.61	4.59	67.96	1,405.22	241.88	1,424.15	1,414.96	9.20	154.882	
900.00	899.89	911.73	912.69	4.92	4.92	68.03	1,404.51	240.70	1,422.16	1,412.33	9.84	144.598	
1,000.00	999.85	1,000.43	1,001.38	5.25	5.21	68.08	1,404.15	239.46	1,420.43	1,409.97	10.46	135.794	
1,087.09	1,086.90	1,070.25	1,071.17	5.56	5.45	68.08	1,404.86	237.55	1,419.91	1,408.91	11.00	129.112	
1,100.00	1,099.80	1,081.06	1,081.97	5.60	5.48	68.08	1,405.06	237.15	1,419.92	1,408.84	11.08	128.154	
1,200.00	1,199.76	1,163.90	1,164.69	5.96	5.77	68.00	1,407.29	233.26	1,420.65	1,408.92	11.73	121.161	
1,300.00	1,299.72	1,241.68	1,242.22	6.33	6.05	67.86	1,410.74	228.17	1,422.79	1,410.42	12.37	115.009	
1,400.00	1,399.67	1,331.31	1,331.33	6.71	6.38	67.61	1,416.14	220.27	1,426.12	1,413.04	13.08	109.029	
1,500.00	1,499.63	1,414.89	1,414.18	7.10	6.70	67.29	1,422.19	211.01	1,430.33	1,416.55	13.79	103.756	
1,600.00	1,599.58	1,504.67	1,502.96	7.49	7.06	66.90	1,429.77	200.00	1,435.61	1,421.07	14.53	98.772	
1,700.00	1,699.54	1,602.11	1,599.23	7.88	7.47	66.47	1,438.41	187.68	1,441.33	1,426.00	15.34	93.983	
1,800.00	1,799.50	1,717.56	1,713.33	8.28	7.98	65.96	1,448.16	172.99	1,446.74	1,430.50	16.24	89.090	
1,900.00	1,899.45	1,817.92	1,812.61	8.69	8.43	65.54	1,455.84	160.48	1,451.46	1,434.38	17.09	84.948	
2,000.00	1,999.41	1,936.58	1,930.09	9.10	8.97	65.05	1,464.00	145.97	1,455.51	1,437.48	18.03	80.715	
2,100.00	2,099.36	2,036.97	2,029.58	9.51	9.43	64.67	1,470.09	134.07	1,458.88	1,439.98	18.90	77.190	
2,200.00	2,199.32	2,124.14	2,115.95	9.92	9.84	64.33	1,475.84	123.73	1,462.85	1,443.14	19.71	74.222	
2,300.00	2,299.28	2,213.73	2,204.61	10.34	10.26	63.97	1,482.54	112.80	1,467.71	1,447.17	20.54	71.470	
2,400.00	2,399.23	2,315.19	2,305.06	10.75	10.75	63.57	1,490.16	100.63	1,472.70	1,451.27	21.43	68.725	
2,500.00	2,499.19	2,405.48	2,394.44	11.17	11.18	63.23	1,497.34	90.07	1,478.21	1,455.94	22.27	66.389	
2,600.00	2,599.14	2,506.39	2,494.38	11.60	11.67	62.86	1,505.36	78.69	1,483.83	1,460.67	23.16	64.066	
2,700.00	2,699.10	2,600.69	2,587.77	12.02	12.13	62.53	1,513.21	68.16	1,489.88	1,465.85	24.02	62.019	
2,800.00	2,799.06	2,710.36	2,696.40	12.44	12.67	62.14	1,521.90	55.88	1,495.58	1,470.60	24.97	59.889	
2,900.00	2,899.01	2,809.19	2,794.25	12.87	13.15	61.78	1,529.46	44.38	1,501.05	1,475.18	25.87	58.027	
3,000.00	2,998.97	2,903.95	2,888.02	13.29	13.63	61.42	1,536.96	32.83	1,506.81	1,480.07	26.75	56.335	
3,100.00	3,098.92	3,008.06	2,990.98	13.72	14.15	61.01	1,545.38	19.96	1,512.81	1,485.13	27.68	54.651	
3,200.00	3,198.88	3,110.05	3,091.96	14.14	14.66	60.64	1,553.00	7.83	1,518.28	1,489.68	28.60	53.080	
3,300.00	3,298.84	3,206.21	3,187.14	14.57	15.15	60.28	1,560.42	-3.69	1,524.05	1,494.55	29.50	51.670	
3,400.00	3,398.79	3,331.14	3,310.80	15.00	15.78	59.82	1,569.42	-19.05	1,529.43	1,498.88	30.55	50.062	
3,500.00	3,498.75	3,435.55	3,414.32	15.43	16.30	59.46	1,575.58	-31.11	1,533.52	1,502.03	31.49	48.704	
3,600.00	3,598.70	3,533.72	3,511.78	15.86	16.78	59.16	1,581.28	-41.40	1,537.60	1,505.21	32.38	47.482	
3,700.00	3,698.66	3,613.33	3,590.83	16.29	17.17	58.94	1,586.49	-49.25	1,542.44	1,509.27	33.17	46.495	
3,800.00	3,798.62	3,701.39	3,678.20	16.72	17.60	58.69	1,593.13	-58.02	1,548.32	1,514.31	34.01	45.525	
3,900.00	3,898.57	3,805.66	3,781.65	17.15	18.12	58.41	1,601.27	-68.28	1,554.52	1,519.58	34.94	44.493	
4,000.00	3,998.53	3,887.11	3,862.46	17.59	18.52	58.19	1,607.86	-76.07	1,561.03	1,525.30	35.73	43.687	
4,100.00	4,098.48	3,982.90	3,957.42	18.02	19.00	57.95	1,616.46	-85.18	1,568.45	1,531.84	36.61	42.842	
4,200.00	4,198.44	4,075.54	4,049.16	18.45	19.47	57.68	1,624.90	-94.87	1,576.06	1,538.59	37.47	42.057	
4,300.00	4,298.40	4,168.62	4,141.26	18.88	19.94	57.40	1,633.83	-105.03	1,584.20	1,545.85	38.34	41.317	
4,400.00	4,398.35	4,267.07	4,238.46	19.32	20.60	57.03	1,645.49	-118.52	1,591.91	1,552.48	39.43	40.374	
4,500.00	4,498.31	4,409.99	4,380.46	19.75	21.16	56.72	1,654.08	-130.07	1,598.12	1,557.71	40.41	39.545	
4,600.00	4,598.26	4,538.82	4,508.40	20.19	21.79	56.39	1,662.35	-142.71	1,603.23	1,561.75	41.48	38.655	
4,700.00	4,698.22	4,670.30	4,639.27	20.62	22.42	56.11	1,667.97	-154.01	1,606.10	1,563.57	42.53	37.766	
4,800.00	4,798.18	4,787.08	4,755.57	21.05	22.96	55.86	1,671.31	-164.01	1,607.61	1,564.11	43.50	36.958	
4,900.00	4,898.13	4,897.20	4,865.39	21.49	23.46	55.68	1,673.46	-171.88	1,608.16	1,563.74	44.43	36.199	
5,000.00	4,998.09	5,002.49	4,970.53	21.92	23.91	55.58	1,675.30	-177.15	1,608.44	1,563.12	45.32	35.493	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	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	5,098.04	5,114.07	5,082.06	22.36	24.38	55.57	1,676.69	-180.16	1,608.13	1,561.91	46.22	34.795		
5,200.00	5,198.00	5,214.31	5,182.27	22.79	24.79	55.58	1,677.49	-182.56	1,607.35	1,560.27	47.07	34.146		
5,300.00	5,297.96	5,320.84	5,288.76	23.23	25.23	55.59	1,678.29	-184.76	1,606.52	1,558.57	47.95	33.505		
5,400.00	5,397.91	5,419.35	5,387.26	23.67	25.63	55.61	1,678.79	-186.76	1,605.42	1,556.63	48.80	32.900		
5,500.00	5,497.87	5,534.95	5,502.84	24.10	26.10	55.64	1,678.95	-188.80	1,603.96	1,554.27	49.70	32.274		
5,600.00	5,597.82	5,632.58	5,600.45	24.54	26.49	55.66	1,678.65	-190.42	1,602.06	1,551.52	50.54	31.699		
5,700.00	5,697.78	8,487.19	7,212.81	24.97	44.76	-100.41	64.37	-180.81	1,516.05	1,497.75	18.30	82.836		
5,800.00	5,797.74	8,484.20	7,212.84	25.41	44.72	-98.79	67.36	-180.82	1,416.09	1,397.72	18.37	77.107		
5,900.00	5,897.69	8,481.29	7,212.86	25.85	44.67	-96.98	70.28	-180.82	1,316.13	1,297.69	18.44	71.381		
6,000.00	5,997.65	8,478.43	7,212.89	26.28	44.63	-94.93	73.13	-180.83	1,216.16	1,197.64	18.52	65.667		
6,100.00	6,097.60	8,475.65	7,212.91	26.72	44.59	-92.61	75.92	-180.84	1,116.20	1,097.59	18.61	59.975		
6,200.00	6,197.56	8,472.92	7,212.94	27.16	44.54	-89.96	78.64	-180.86	1,016.24	997.53	18.71	54.314		
6,300.00	6,297.52	8,470.26	7,212.96	27.59	44.50	-86.93	81.31	-180.87	916.29	897.47	18.82	48.690		
6,400.00	6,397.47	8,467.66	7,212.98	28.03	44.46	-83.45	83.91	-180.89	816.33	797.40	18.94	43.111		
6,500.00	6,497.43	8,465.11	7,213.00	28.47	44.43	-79.45	86.45	-180.91	716.38	697.32	19.06	37.581		
6,600.00	6,597.38	8,462.62	7,213.02	28.90	44.39	-74.86	88.94	-180.93	616.43	597.23	19.20	32.106		
6,700.00	6,697.08	8,460.19	7,213.04	29.34	44.35	-172.37	91.38	-180.95	516.55	497.22	19.32	26.733		
6,800.00	6,794.63	8,457.97	7,213.05	29.79	44.32	-178.50	93.60	-180.97	418.44	398.85	19.59	21.362		
6,900.00	6,887.62	8,455.79	7,213.07	30.24	44.28	-179.61	95.78	-180.99	327.16	304.76	22.40	14.606		
7,000.00	6,973.77	8,453.66	7,213.08	30.70	44.25	-179.89	97.91	-181.01	253.64	219.72	33.92	7.478		
7,100.00	7,050.94	8,451.62	7,213.10	31.20	44.22	-179.55	99.95	-181.03	219.15	163.94	55.22	3.969		
7,110.84	7,058.68	8,451.41	7,213.10	31.26	44.22	-179.51	100.16	-181.03	218.79	161.28	57.52	3.804 CC, ES		
7,200.00	7,117.24	8,449.71	7,213.11	31.77	44.19	-179.23	101.85	-181.05	241.94	171.08	70.86	3.414 SF		
7,300.00	7,171.03	8,447.98	7,213.13	32.46	44.17	-178.85	103.59	-181.07	309.17	234.18	74.99	4.123		
7,400.00	7,211.00	8,446.47	7,213.14	33.29	44.14	-178.23	105.09	-181.09	397.84	322.68	75.16	5.293		
7,500.00	7,236.16	8,445.25	7,213.15	34.29	44.12	-176.32	106.32	-181.11	495.05	420.16	74.89	6.610		
7,600.00	7,245.89	8,444.36	7,213.15	35.43	44.11	9.60	107.20	-181.12	594.83	520.01	74.83	7.950		
7,700.00	7,245.73	8,443.70	7,213.16	36.72	44.10	6.69	107.86	-181.13	694.69	619.80	74.89	9.276		
7,800.00	7,245.42	8,443.00	7,213.16	38.18	44.09	7.83	108.56	-181.14	794.58	719.64	74.94	10.603		
7,900.00	7,245.10	8,442.25	7,213.17	39.80	44.08	9.05	109.31	-181.15	894.50	819.52	74.97	11.931		
8,000.00	7,244.79	8,441.44	7,213.18	41.54	44.07	10.34	110.12	-181.16	994.43	919.42	75.00	13.259		
8,100.00	7,244.48	8,440.57	7,213.18	43.41	44.05	11.73	110.99	-181.17	1,094.37	1,019.35	75.02	14.587		
8,200.00	7,244.17	8,439.63	7,213.19	45.38	44.04	13.22	111.93	-181.18	1,194.32	1,119.28	75.04	15.916		
8,300.00	7,243.86	8,438.61	7,213.20	47.44	44.02	14.81	112.96	-181.20	1,294.28	1,219.22	75.06	17.244		
8,400.00	7,243.55	8,437.50	7,213.21	49.58	44.01	16.51	114.07	-181.21	1,394.24	1,319.18	75.07	18.573		
8,500.00	7,243.23	8,436.29	7,213.22	51.78	43.99	18.34	115.28	-181.23	1,494.21	1,419.13	75.08	19.902		
8,600.00	7,242.92	8,434.95	7,213.23	54.05	43.97	20.30	116.61	-181.25	1,594.18	1,519.10	75.09	21.232		
8,700.00	7,242.61	8,433.49	7,213.24	56.37	43.95	22.41	118.08	-181.27	1,694.16	1,619.07	75.09	22.561		
8,800.00	7,242.30	8,431.87	7,213.26	58.74	43.92	24.68	119.70	-181.30	1,794.13	1,719.04	75.09	23.892		
8,900.00	7,241.99	8,430.06	7,213.27	61.16	43.89	27.10	121.50	-181.33	1,894.11	1,819.02	75.10	25.222		
9,000.00	7,241.67	8,428.04	7,213.29	63.61	43.86	29.71	123.53	-181.37	1,994.09	1,919.00	75.09	26.554		
9,100.00	7,241.36	8,426.91	7,213.30	66.09	43.85	31.10	124.65	-181.39	2,094.07	2,018.96	75.11	27.881		
9,200.00	7,241.05	8,425.79	7,213.31	68.60	43.83	32.45	125.78	-181.41	2,194.05	2,118.93	75.12	29.206		
9,300.00	7,240.74	8,424.65	7,213.32	71.13	43.81	33.78	126.91	-181.43	2,294.04	2,218.90	75.14	30.530		
9,400.00	7,240.43	8,423.50	7,213.33	73.70	43.80	35.09	128.06	-181.45	2,394.02	2,318.87	75.16	31.854		
9,500.00	7,240.11	8,422.33	7,213.34	76.28	43.78	36.37	129.23	-181.47	2,494.01	2,418.83	75.17	33.177		
9,600.00	7,239.80	8,421.15	7,213.35	78.88	43.76	37.63	130.41	-181.49	2,593.99	2,518.80	75.19	34.499		
9,700.00	7,239.49	8,419.95	7,213.36	81.50	43.74	38.86	131.61	-181.51	2,693.98	2,618.77	75.21	35.820		
9,800.00	7,239.18	8,418.74	7,213.37	84.13	43.72	40.07	132.82	-181.53	2,793.96	2,718.74	75.23	37.141		
9,900.00	7,238.87	8,417.51	7,213.38	86.78	43.71	41.26	134.05	-181.55	2,893.95	2,818.71	75.25	38.460		
10,000.00	7,238.55	8,416.26	7,213.40	89.44	43.69	42.41	135.30	-181.58	2,993.94	2,918.67	75.27	39.778		
10,100.00	7,238.24	8,415.00	7,213.41	92.11	43.67	43.55	136.56	-181.60	3,093.93	3,018.64	75.29	41.095		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.93	8,413.72	7,213.42	94.80	43.65	44.65	137.84	-181.62	3,193.92	3,118.61	75.31	42.410		
10,300.00	7,237.62	8,412.42	7,213.43	97.49	43.63	45.74	139.14	-181.65	3,293.90	3,218.57	75.33	43.725		
10,400.00	7,237.31	8,301.32	7,214.98	100.19	42.01	77.33	250.16	-185.50	3,393.86	3,319.97	73.89	45.931		
10,500.00	7,236.99	8,291.37	7,215.11	102.90	41.86	78.16	260.10	-186.01	3,493.76	3,419.93	73.82	47.326		
10,600.00	7,236.68	8,280.63	7,215.23	105.62	41.71	78.94	270.82	-186.58	3,593.65	3,519.90	73.75	48.726		
10,700.00	7,236.37	8,270.00	7,215.33	108.35	41.56	79.62	281.43	-187.16	3,693.53	3,619.85	73.69	50.125		
10,800.00	7,236.06	8,270.00	7,215.33	111.08	41.56	79.62	281.43	-187.16	3,793.42	3,719.68	73.74	51.444		
10,900.00	7,235.75	8,270.00	7,215.33	113.82	41.56	79.62	281.43	-187.16	3,893.31	3,819.52	73.79	52.762		
11,000.00	7,235.44	8,262.08	7,215.39	116.56	41.45	80.07	289.33	-187.60	3,993.19	3,919.43	73.76	54.137		
11,100.00	7,235.12	8,259.64	7,215.41	119.31	41.42	80.20	291.78	-187.73	4,093.08	4,019.29	73.79	55.470		
11,200.00	7,234.81	8,257.24	7,215.43	122.07	41.38	80.33	294.17	-187.86	4,192.97	4,119.15	73.82	56.801		
11,300.00	7,234.50	8,254.90	7,215.44	124.83	41.35	80.45	296.50	-187.98	4,292.86	4,219.01	73.85	58.129		
11,400.00	7,234.19	8,252.62	7,215.46	127.59	41.32	80.56	298.79	-188.10	4,392.76	4,318.88	73.88	59.455		
11,500.00	7,233.88	8,250.38	7,215.47	130.36	41.29	80.67	301.02	-188.22	4,492.66	4,418.74	73.92	60.779		
11,600.00	7,233.56	8,248.19	7,215.48	133.13	41.26	80.78	303.21	-188.33	4,592.56	4,518.61	73.95	62.100		
11,700.00	7,233.25	8,246.05	7,215.49	135.91	41.23	80.88	305.34	-188.44	4,692.47	4,618.48	73.99	63.419		
11,800.00	7,232.94	8,238.00	7,215.53	138.68	41.11	81.23	313.39	-188.84	4,792.38	4,718.41	73.97	64.786		
11,900.00	7,232.63	8,238.00	7,215.53	141.47	41.11	81.23	313.39	-188.84	4,892.29	4,818.25	74.03	66.083		
12,000.00	7,232.32	8,243.39	7,215.50	144.25	41.19	80.99	308.00	-188.58	4,992.19	4,918.05	74.14	67.331		
12,100.00	7,232.00	8,237.79	7,215.53	147.04	41.11	81.24	313.60	-188.85	5,092.11	5,017.95	74.15	68.670		
12,200.00	7,231.69	8,232.10	7,215.54	149.83	41.03	81.47	319.28	-189.13	5,192.02	5,117.85	74.16	70.008		
12,300.00	7,231.38	8,226.32	7,215.54	152.62	40.95	81.69	325.05	-189.41	5,291.93	5,217.75	74.17	71.345		
12,400.00	7,231.07	8,220.45	7,215.52	155.42	40.87	81.90	330.92	-189.71	5,391.84	5,317.65	74.19	72.680		
12,500.00	7,230.76	8,214.49	7,215.49	158.22	40.79	82.09	336.87	-190.00	5,491.75	5,417.55	74.20	74.015		
12,600.00	7,230.44	8,210.54	7,215.46	161.01	40.74	82.22	340.82	-190.20	5,591.65	5,517.43	74.23	75.330		
12,700.00	7,230.13	8,198.88	7,215.33	163.82	40.58	82.55	352.45	-190.79	5,691.56	5,617.36	74.20	76.707		
12,800.00	7,229.82	8,186.48	7,215.15	166.62	40.41	82.86	364.84	-191.44	5,791.46	5,717.29	74.17	78.088		
12,900.00	7,229.51	8,175.00	7,214.93	169.43	40.26	83.11	376.30	-192.05	5,891.35	5,817.21	74.15	79.457		
13,000.00	7,229.20	8,175.00	7,214.93	172.23	40.26	83.11	376.30	-192.05	5,991.25	5,917.03	74.21	80.729		
13,100.00	7,228.88	8,175.00	7,214.93	175.04	40.26	83.11	376.30	-192.05	6,091.14	6,016.86	74.28	81.998		
13,200.00	7,228.57	8,175.00	7,214.93	177.85	40.26	83.11	376.30	-192.05	6,191.04	6,116.69	74.36	83.263		
13,300.00	7,228.26	8,175.00	7,214.93	180.66	40.26	83.11	376.30	-192.05	6,290.95	6,216.52	74.43	84.525		
13,400.00	7,227.95	8,175.00	7,214.93	183.48	40.26	83.11	376.30	-192.05	6,390.85	6,316.35	74.50	85.784		
13,500.00	7,227.64	8,175.00	7,214.93	186.29	40.26	83.11	376.30	-192.05	6,490.76	6,416.19	74.57	87.040		
13,600.00	7,227.33	8,175.00	7,214.93	189.11	40.26	83.11	376.30	-192.05	6,590.67	6,516.03	74.65	88.292		
13,700.00	7,227.01	8,175.00	7,214.93	191.92	40.26	83.11	376.30	-192.05	6,690.59	6,615.87	74.72	89.541		
13,800.00	7,226.70	8,175.00	7,214.93	194.74	40.26	83.11	376.30	-192.05	6,790.51	6,715.71	74.80	90.786		
13,900.00	7,226.39	8,175.00	7,214.93	197.56	40.26	83.11	376.30	-192.05	6,890.42	6,815.55	74.87	92.028		
14,000.00	7,226.08	8,175.00	7,214.93	200.38	40.26	83.11	376.30	-192.05	6,990.35	6,915.40	74.95	93.266		
14,100.00	7,225.77	8,175.00	7,214.93	203.21	40.26	83.11	376.30	-192.05	7,090.27	7,015.24	75.03	94.501		
14,200.00	7,225.45	8,175.00	7,214.93	206.03	40.26	83.11	376.30	-192.05	7,190.20	7,115.09	75.11	95.732		
14,300.00	7,225.14	8,175.00	7,214.93	208.85	40.26	83.11	376.30	-192.05	7,290.12	7,214.94	75.19	96.960		
14,400.00	7,224.83	8,162.39	7,214.66	211.68	40.09	83.36	388.89	-192.69	7,389.99	7,314.82	75.17	98.304		
14,500.00	7,224.52	8,161.70	7,214.65	214.50	40.08	83.37	389.58	-192.72	7,489.92	7,414.67	75.25	99.532		
14,600.00	7,224.21	8,161.03	7,214.64	217.33	40.07	83.39	390.25	-192.75	7,589.85	7,514.52	75.33	100.757		
14,700.00	7,223.89	8,160.38	7,214.62	220.16	40.06	83.40	390.90	-192.78	7,689.78	7,614.37	75.41	101.978		
14,800.00	7,223.58	8,159.73	7,214.61	222.98	40.05	83.41	391.54	-192.81	7,789.71	7,714.22	75.48	103.196		
14,900.00	7,223.27	8,159.10	7,214.59	225.81	40.04	83.42	392.17	-192.84	7,889.64	7,814.07	75.56	104.409		
14,987.41	7,223.00	8,158.56	7,214.58	228.28	40.04	83.43	392.71	-192.86	7,976.99	7,901.35	75.63	105.467		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1.00	3.28	3.28	11.04	1,412.05	275.62	1,438.70				
100.00	100.00	102.23	103.23	3.28	3.29	11.05	1,411.90	275.81	1,438.59	1,432.02	6.57	218.884	
200.00	200.00	209.33	210.32	3.34	3.33	11.08	1,411.34	276.32	1,438.18	1,431.50	6.67	215.571	
300.00	300.00	313.20	314.19	3.44	3.44	11.08	1,410.41	276.17	1,437.27	1,430.38	6.89	208.665	
400.00	400.00	416.31	417.29	3.60	3.60	11.05	1,409.46	275.20	1,436.18	1,428.97	7.21	199.310	
500.00	500.00	520.27	521.24	3.81	3.81	11.06	1,408.05	275.17	1,434.84	1,427.22	7.62	188.325	
600.00	600.00	612.98	613.94	4.05	4.04	11.08	1,406.90	275.40	1,433.67	1,425.58	8.08	177.422	
700.00	699.98	715.76	716.71	4.32	4.32	69.20	1,405.70	275.91	1,432.01	1,423.38	8.63	165.994	
800.00	799.94	818.95	819.89	4.61	4.62	69.35	1,404.14	276.55	1,429.59	1,420.37	9.23	154.956	
900.00	899.89	915.10	916.03	4.92	4.93	69.49	1,402.76	277.28	1,427.30	1,417.45	9.85	144.972	
1,000.00	999.85	1,009.00	1,009.92	5.25	5.24	69.65	1,401.58	278.44	1,425.28	1,414.79	10.49	135.869	
1,100.00	1,099.80	1,101.97	1,102.88	5.60	5.56	69.80	1,401.03	279.35	1,423.86	1,412.70	11.16	127.614	
1,200.00	1,199.76	1,201.04	1,201.94	5.96	5.92	69.94	1,400.71	280.05	1,422.67	1,410.80	11.87	119.861	
1,300.00	1,299.72	1,302.76	1,303.66	6.33	6.29	70.09	1,400.35	280.80	1,421.47	1,408.86	12.61	112.708	
1,400.00	1,399.67	1,399.73	1,400.63	6.71	6.65	70.22	1,399.97	281.34	1,420.20	1,406.84	13.35	106.356	
1,500.00	1,499.63	1,496.29	1,497.19	7.10	7.02	70.36	1,399.95	282.00	1,419.32	1,405.21	14.10	100.634	
1,600.00	1,599.58	1,595.64	1,596.54	7.49	7.40	70.50	1,399.97	282.72	1,418.50	1,403.63	14.88	95.357	
1,700.00	1,699.54	1,696.96	1,697.85	7.88	7.79	70.64	1,400.01	283.52	1,417.72	1,402.05	15.67	90.492	
1,800.00	1,799.50	1,803.00	1,803.89	8.28	8.21	70.79	1,399.78	284.19	1,416.67	1,400.18	16.49	85.919	
1,900.00	1,899.45	1,895.34	1,896.23	8.69	8.57	70.91	1,399.57	284.54	1,415.57	1,398.31	17.25	82.047	
1,986.19	1,985.60	1,971.03	1,971.91	9.04	8.86	70.97	1,400.17	283.90	1,415.24	1,397.34	17.89	79.105	
2,000.00	1,999.41	1,983.09	1,983.96	9.10	8.90	70.97	1,400.34	283.73	1,415.24	1,397.25	17.99	78.659	
2,100.00	2,099.36	2,066.27	2,067.11	9.51	9.22	70.99	1,402.10	282.11	1,415.91	1,397.20	18.72	75.655	
2,200.00	2,199.32	2,145.46	2,146.23	9.92	9.52	70.97	1,404.99	280.02	1,417.92	1,398.50	19.43	72.993	
2,300.00	2,299.28	2,225.42	2,226.03	10.34	9.83	70.93	1,409.25	277.70	1,421.48	1,401.34	20.14	70.578	
2,400.00	2,399.23	2,312.87	2,313.27	10.75	10.18	70.88	1,414.82	275.29	1,426.10	1,405.21	20.89	68.261	
2,500.00	2,499.19	2,400.87	2,401.01	11.17	10.53	70.83	1,421.18	272.97	1,431.59	1,409.94	21.65	66.126	
2,600.00	2,599.14	2,493.33	2,493.13	11.60	10.90	70.76	1,428.59	270.02	1,437.72	1,415.29	22.43	64.092	
2,700.00	2,699.10	2,580.14	2,579.54	12.02	11.25	70.66	1,436.25	266.93	1,444.57	1,421.38	23.19	62.292	
2,800.00	2,799.06	2,669.03	2,667.96	12.44	11.62	70.56	1,444.84	263.73	1,452.25	1,428.29	23.96	60.607	
2,900.00	2,899.01	2,753.86	2,752.24	12.87	11.98	70.45	1,453.87	260.34	1,460.79	1,436.08	24.71	59.109	
3,000.00	2,998.97	2,852.76	2,850.38	13.29	12.40	70.29	1,465.18	255.79	1,469.99	1,444.45	25.55	57.543	
3,100.00	3,098.92	2,966.64	2,963.44	13.72	12.89	70.10	1,477.64	250.27	1,478.68	1,452.22	26.47	55.870	
3,200.00	3,198.88	3,067.41	3,063.51	14.14	13.33	69.92	1,488.22	244.88	1,486.83	1,459.51	27.32	54.424	
3,300.00	3,298.84	3,172.21	3,167.57	14.57	13.80	69.71	1,499.09	238.80	1,494.79	1,466.59	28.20	53.009	
3,400.00	3,398.79	3,277.58	3,272.28	15.00	14.26	69.54	1,509.35	233.20	1,502.23	1,473.15	29.08	51.652	
3,500.00	3,498.75	3,370.40	3,364.56	15.43	14.67	69.40	1,518.42	228.89	1,509.86	1,479.96	29.90	50.494	
3,600.00	3,598.70	3,464.31	3,457.89	15.86	15.10	69.27	1,528.00	224.58	1,517.92	1,487.19	30.73	49.400	
3,700.00	3,698.66	3,562.10	3,555.04	16.29	15.54	69.14	1,538.21	220.29	1,526.26	1,494.68	31.58	48.335	
3,800.00	3,798.62	3,665.24	3,657.52	16.72	16.00	69.00	1,548.91	215.61	1,534.53	1,502.07	32.46	47.275	
3,900.00	3,898.57	3,769.97	3,761.57	17.15	16.48	68.83	1,559.59	210.21	1,542.50	1,509.15	33.35	46.246	
4,000.00	3,998.53	3,863.71	3,854.69	17.59	16.91	68.68	1,569.03	205.21	1,550.35	1,516.16	34.19	45.347	
4,100.00	4,098.48	3,952.85	3,943.12	18.02	17.33	68.50	1,578.87	199.68	1,558.99	1,523.99	35.00	44.547	
4,200.00	4,198.44	4,045.72	4,035.17	18.45	17.76	68.30	1,589.53	193.60	1,568.04	1,532.21	35.83	43.764	
4,300.00	4,298.40	4,138.89	4,127.46	18.88	18.21	68.10	1,600.77	187.50	1,577.67	1,541.00	36.66	43.029	
4,400.00	4,398.35	4,245.00	4,232.65	19.32	18.71	67.91	1,613.36	181.50	1,587.28	1,549.69	37.58	42.234	
4,500.00	4,498.31	4,355.44	4,342.23	19.75	19.23	67.73	1,625.71	175.43	1,596.25	1,557.73	38.53	41.433	
4,600.00	4,598.26	4,454.75	4,440.85	20.19	19.70	67.59	1,636.31	170.56	1,604.83	1,565.43	39.40	40.731	
4,700.00	4,698.22	4,553.54	4,539.01	20.62	20.16	67.49	1,646.84	166.74	1,613.58	1,573.31	40.27	40.069	
4,800.00	4,798.18	4,658.57	4,643.38	21.05	20.65	67.39	1,657.84	162.91	1,622.19	1,581.01	41.18	39.395	
4,900.00	4,898.13	4,794.67	4,778.85	21.49	21.28	67.30	1,670.22	158.58	1,629.52	1,587.26	42.26	38.557	
5,000.00	4,998.09	4,923.64	4,907.45	21.92	21.86	67.25	1,679.27	154.97	1,634.86	1,591.58	43.29	37.766	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,098.04	5,060.00	5,043.60	22.36	22.47	67.23	1,685.96	151.66	1,638.18	1,593.85	44.33	36.954		
5,200.00	5,198.00	5,188.68	5,172.24	22.79	23.01	67.31	1,689.12	150.80	1,639.30	1,593.99	45.31	36.178		
5,300.00	5,297.96	5,300.93	5,284.47	23.23	23.48	67.38	1,690.57	150.18	1,639.35	1,593.13	46.22	35.469		
5,400.00	5,397.91	5,412.64	5,396.17	23.67	23.94	67.44	1,691.31	148.92	1,638.67	1,591.55	47.12	34.777		
5,500.00	5,497.87	5,521.35	5,504.86	24.10	24.39	67.47	1,691.48	146.69	1,637.36	1,589.35	48.01	34.108		
5,600.00	5,597.82	5,651.04	5,634.51	24.54	24.91	67.53	1,689.85	144.73	1,634.69	1,585.75	48.94	33.402		
5,700.00	5,697.78	8,670.88	7,241.95	24.97	46.44	172.70	-49.17	166.44	1,577.11	1,552.26	24.85	63.456		
5,800.00	5,797.74	8,663.96	7,242.44	25.41	46.33	171.68	-42.28	166.89	1,480.00	1,454.47	25.54	57.958		
5,900.00	5,897.69	8,656.23	7,243.01	25.85	46.21	170.53	-34.59	167.37	1,383.26	1,356.94	26.33	52.544		
6,000.00	5,997.65	8,647.17	7,243.68	26.28	46.06	169.17	-25.57	167.88	1,286.96	1,259.72	27.24	47.241		
6,100.00	6,097.60	8,637.87	7,244.38	26.72	45.92	167.75	-16.30	168.36	1,191.20	1,162.86	28.34	42.037		
6,200.00	6,197.56	8,628.37	7,245.10	27.16	45.77	166.28	-6.85	168.80	1,096.12	1,066.46	29.66	36.961		
6,300.00	6,297.52	8,617.11	7,245.96	27.59	45.59	164.51	4.37	169.28	1,001.90	970.66	31.24	32.071		
6,400.00	6,397.47	8,606.13	7,246.78	28.03	45.42	162.76	15.31	169.70	908.81	875.60	33.21	27.369		
6,500.00	6,497.43	8,595.44	7,247.57	28.47	45.25	161.04	25.96	170.09	817.23	781.56	35.67	22.909		
6,600.00	6,597.38	8,585.41	7,248.30	28.90	45.09	159.40	35.96	170.42	727.76	688.95	38.80	18.756		
6,700.00	6,697.08	8,575.68	7,249.00	29.34	44.94	-177.94	45.66	170.72	643.53	600.46	43.07	14.943		
6,800.00	6,794.63	8,566.82	7,249.64	29.79	44.80	-176.76	54.49	170.97	574.94	525.51	49.42	11.633		
6,900.00	6,887.62	8,559.86	7,250.14	30.24	44.69	-176.98	61.44	171.15	530.49	473.06	57.43	9.237		
6,987.22	6,963.21	8,555.09	7,250.48	30.64	44.62	-177.17	66.19	171.28	517.39	452.99	64.40	8.034 CC		
7,000.00	6,973.77	8,554.47	7,250.52	30.70	44.61	-177.19	66.81	171.30	517.68	452.35	65.33	7.924 ES		
7,100.00	7,050.94	8,550.31	7,250.82	31.20	44.55	-177.23	70.95	171.42	539.11	467.99	71.12	7.580 SF		
7,200.00	7,117.24	8,547.49	7,251.02	31.77	44.50	-177.01	73.77	171.50	590.62	516.37	74.25	7.954		
7,300.00	7,171.03	8,546.02	7,251.13	32.46	44.48	-176.33	75.23	171.54	664.21	588.68	75.53	8.794		
7,400.00	7,211.00	8,545.91	7,251.14	33.29	44.48	-174.67	75.35	171.54	751.93	676.01	75.92	9.905		
7,500.00	7,236.16	8,547.09	7,251.05	34.29	44.50	-169.67	74.17	171.51	847.61	771.60	76.01	11.152		
7,600.00	7,245.89	8,549.49	7,250.88	35.43	44.53	-123.73	71.77	171.44	946.85	870.80	76.05	12.451		
7,700.00	7,245.73	8,552.58	7,250.66	36.72	44.58	-92.53	68.70	171.35	1,046.78	970.68	76.10	13.754		
7,800.00	7,245.42	8,555.58	7,250.44	38.18	44.63	-92.04	65.70	171.27	1,146.72	1,070.55	76.16	15.056		
7,900.00	7,245.10	8,558.51	7,250.24	39.80	44.67	-91.63	62.78	171.19	1,246.65	1,170.44	76.22	16.356		
8,000.00	7,244.79	8,561.35	7,250.03	41.54	44.72	-91.28	59.95	171.11	1,346.59	1,270.32	76.28	17.654		
8,100.00	7,244.48	8,564.25	7,249.83	43.41	44.76	-90.97	57.06	171.04	1,446.53	1,370.20	76.34	18.950		
8,200.00	7,244.17	8,570.13	7,249.40	45.38	44.85	-90.43	51.20	170.88	1,546.47	1,470.03	76.45	20.230		
8,300.00	7,243.86	8,576.59	7,248.94	47.44	44.95	-89.95	44.76	170.69	1,646.41	1,569.84	76.57	21.503		
8,400.00	7,243.55	8,583.71	7,248.42	49.58	45.07	-89.53	37.65	170.48	1,746.33	1,669.63	76.70	22.769		
8,500.00	7,243.23	8,591.62	7,247.85	51.78	45.19	-89.15	29.77	170.22	1,846.25	1,769.40	76.85	24.025		
8,600.00	7,242.92	8,600.44	7,247.20	54.05	45.33	-88.80	20.99	169.91	1,946.16	1,869.15	77.01	25.270		
8,700.00	7,242.61	8,700.00	7,237.56	56.37	46.90	-87.18	-124.59	159.58	2,045.91	1,967.06	78.85	25.947		
8,800.00	7,242.30	8,767.98	7,236.73	58.74	47.99	-87.23	-145.68	157.27	2,145.22	2,065.18	80.04	26.803		
8,900.00	7,241.99	8,777.47	7,236.52	61.16	48.14	-87.28	-155.11	156.23	2,244.53	2,164.27	80.26	27.965		
9,000.00	7,241.67	8,786.88	7,236.40	63.61	48.29	-87.35	-164.47	155.21	2,343.85	2,263.36	80.49	29.120		
9,100.00	7,241.36	8,797.12	7,236.36	66.09	48.46	-87.44	-174.65	154.11	2,443.19	2,362.45	80.74	30.261		
9,200.00	7,241.05	8,807.26	7,236.40	68.60	48.62	-87.54	-184.73	153.02	2,542.52	2,461.54	80.99	31.394		
9,300.00	7,240.74	8,817.29	7,236.53	71.13	48.78	-87.64	-194.70	151.95	2,641.87	2,560.63	81.24	32.520		
9,400.00	7,240.43	8,833.30	7,236.82	73.70	49.04	-87.81	-210.61	150.24	2,741.21	2,659.59	81.62	33.585		
9,500.00	7,240.11	8,850.29	7,237.17	76.28	49.32	-87.98	-227.50	148.39	2,840.52	2,758.50	82.03	34.628		
9,600.00	7,239.80	8,861.60	7,237.39	78.88	49.50	-88.09	-238.74	147.15	2,939.83	2,857.51	82.32	35.710		
9,700.00	7,239.49	8,873.32	7,237.60	81.50	49.70	-88.18	-250.39	145.86	3,039.14	2,956.51	82.63	36.779		
9,800.00	7,239.18	8,885.88	7,237.80	84.13	49.90	-88.28	-262.87	144.49	3,138.45	3,055.49	82.96	37.830		
9,900.00	7,238.87	8,900.15	7,237.94	86.78	50.14	-88.36	-277.05	142.91	3,237.75	3,154.41	83.34	38.851		
10,000.00	7,238.55	8,914.61	7,237.98	89.44	50.38	-88.43	-291.42	141.30	3,337.04	3,253.32	83.72	39.859		
10,100.00	7,238.24	8,924.14	7,237.97	92.11	50.54	-88.46	-300.89	140.24	3,436.33	3,352.33	84.00	40.909		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.93	8,934.07	7,237.94	94.80	50.70	-88.50	-310.77	139.15	3,535.63	3,451.34	84.29	41.948	
10,300.00	7,237.62	8,943.91	7,237.90	97.49	50.86	-88.53	-320.55	138.06	3,634.94	3,550.36	84.58	42.978	
10,400.00	7,237.31	8,953.62	7,237.83	100.19	51.03	-88.55	-330.20	137.00	3,734.25	3,649.38	84.87	44.002	
10,500.00	7,236.99	8,963.24	7,237.73	102.90	51.19	-88.57	-339.76	135.95	3,833.56	3,748.41	85.16	45.018	
10,600.00	7,236.68	8,972.77	7,237.60	105.62	51.35	-88.58	-349.23	134.92	3,932.89	3,847.44	85.45	46.027	
10,700.00	7,236.37	8,976.00	7,237.54	108.35	51.40	-88.59	-352.44	134.57	4,032.22	3,946.64	85.59	47.113	
10,800.00	7,236.06	8,985.02	7,237.37	111.08	51.55	-88.59	-361.41	133.61	4,131.57	4,045.70	85.87	48.114	
10,900.00	7,235.75	8,990.28	7,237.26	113.82	51.64	-88.59	-366.64	133.05	4,230.94	4,144.87	86.06	49.162	
11,000.00	7,235.44	8,995.41	7,237.15	116.56	51.73	-88.60	-371.74	132.52	4,330.32	4,244.07	86.25	50.206	
11,100.00	7,235.12	9,000.41	7,237.03	119.31	51.81	-88.60	-376.71	132.01	4,429.71	4,343.27	86.44	51.248	
11,200.00	7,234.81	9,008.00	7,236.84	122.07	51.94	-88.60	-384.26	131.25	4,529.13	4,442.43	86.69	52.244	
11,300.00	7,234.50	9,008.00	7,236.84	124.83	51.94	-88.60	-384.26	131.25	4,628.55	4,541.80	86.75	53.353	
11,400.00	7,234.19	9,008.00	7,236.84	127.59	51.94	-88.60	-384.26	131.25	4,728.00	4,641.18	86.81	54.461	
11,500.00	7,233.88	9,019.04	7,236.56	130.36	52.13	-88.60	-395.25	130.17	4,827.44	4,740.28	87.16	55.385	
11,600.00	7,233.56	9,023.40	7,236.45	133.13	52.20	-88.60	-399.58	129.76	4,926.90	4,839.57	87.34	56.412	
11,700.00	7,233.25	9,027.65	7,236.34	135.91	52.28	-88.59	-403.81	129.36	5,026.38	4,938.87	87.51	57.436	
11,800.00	7,232.94	9,039.00	7,236.06	138.68	52.47	-88.59	-415.11	128.31	5,125.88	5,038.01	87.88	58.331	
11,900.00	7,232.63	9,039.00	7,236.06	141.47	52.47	-88.59	-415.11	128.31	5,225.38	5,137.44	87.94	59.420	
12,000.00	7,232.32	9,039.00	7,236.06	144.25	52.47	-88.59	-415.11	128.31	5,324.89	5,236.88	88.00	60.508	
12,100.00	7,232.00	9,046.49	7,235.87	147.04	52.60	-88.59	-422.57	127.63	5,424.41	5,336.14	88.27	61.453	
12,200.00	7,231.69	9,052.57	7,235.72	149.83	52.70	-88.59	-428.63	127.09	5,523.93	5,435.43	88.50	62.419	
12,300.00	7,231.38	9,058.58	7,235.56	152.62	52.81	-88.59	-434.60	126.56	5,623.47	5,534.74	88.73	63.380	
12,400.00	7,231.07	9,064.50	7,235.40	155.42	52.91	-88.59	-440.50	126.04	5,723.01	5,634.05	88.95	64.337	
12,500.00	7,230.76	9,071.00	7,235.22	158.22	53.02	-88.59	-446.97	125.47	5,822.55	5,733.35	89.20	65.276	
12,600.00	7,230.44	9,077.35	7,235.06	161.01	53.13	-88.59	-453.30	124.91	5,922.10	5,832.66	89.44	66.212	
12,700.00	7,230.13	9,084.45	7,234.90	163.82	53.25	-88.59	-460.37	124.30	6,021.66	5,931.95	89.71	67.127	
12,800.00	7,229.82	9,091.49	7,234.77	166.62	53.37	-88.60	-467.38	123.69	6,121.21	6,031.24	89.97	68.036	
12,900.00	7,229.51	9,098.47	7,234.68	169.43	53.50	-88.60	-474.33	123.09	6,220.78	6,130.54	90.23	68.940	
13,000.00	7,229.20	9,106.23	7,234.61	172.23	53.63	-88.62	-482.06	122.43	6,320.34	6,229.82	90.52	69.820	
13,100.00	7,228.88	9,115.53	7,234.53	175.04	53.79	-88.63	-491.34	121.64	6,419.91	6,329.05	90.86	70.660	
13,200.00	7,228.57	9,124.84	7,234.44	177.85	53.95	-88.64	-500.61	120.84	6,519.47	6,428.28	91.19	71.491	
13,300.00	7,228.26	9,134.15	7,234.36	180.66	54.11	-88.66	-509.88	120.05	6,619.04	6,527.51	91.53	72.315	
13,400.00	7,227.95	9,134.00	7,234.36	183.48	54.11	-88.66	-509.73	120.06	6,718.61	6,627.01	91.60	73.347	
13,500.00	7,227.64	9,134.00	7,234.36	186.29	54.11	-88.66	-509.73	120.06	6,818.20	6,726.52	91.67	74.375	
13,600.00	7,227.33	9,145.20	7,234.25	189.11	54.31	-88.67	-520.89	119.12	6,917.77	6,825.70	92.07	75.136	
13,700.00	7,227.01	9,148.78	7,234.21	191.92	54.37	-88.67	-524.46	118.82	7,017.36	6,925.11	92.25	76.070	
13,800.00	7,226.70	9,152.30	7,234.16	194.74	54.43	-88.68	-527.97	118.53	7,116.96	7,024.53	92.43	77.002	
13,900.00	7,226.39	9,155.77	7,234.11	197.56	54.49	-88.68	-531.43	118.25	7,216.57	7,123.96	92.60	77.931	
14,000.00	7,226.08	9,166.00	7,233.95	200.38	54.67	-88.69	-541.62	117.44	7,316.19	7,223.21	92.98	78.688	
14,100.00	7,225.77	9,166.00	7,233.95	203.21	54.67	-88.69	-541.62	117.44	7,415.80	7,322.74	93.05	79.693	
14,200.00	7,225.45	9,166.00	7,233.95	206.03	54.67	-88.69	-541.62	117.44	7,515.42	7,422.29	93.13	80.697	
14,300.00	7,225.14	9,171.76	7,233.84	208.85	54.77	-88.69	-547.37	116.99	7,615.05	7,521.67	93.38	81.550	
14,400.00	7,224.83	9,177.81	7,233.72	211.68	54.88	-88.69	-553.40	116.51	7,714.68	7,621.05	93.64	82.390	
14,500.00	7,224.52	9,183.82	7,233.59	214.50	54.99	-88.69	-559.38	116.05	7,814.32	7,720.43	93.89	83.225	
14,600.00	7,224.21	9,189.78	7,233.45	217.33	55.09	-88.69	-565.33	115.59	7,913.96	7,819.81	94.15	84.057	
14,700.00	7,223.89	9,198.00	7,233.25	220.16	55.24	-88.69	-573.52	114.96	8,013.60	7,919.12	94.48	84.822	
14,800.00	7,223.58	9,203.12	7,233.12	222.98	55.33	-88.69	-578.62	114.56	8,113.24	8,018.53	94.71	85.665	
14,900.00	7,223.27	9,211.53	7,232.93	225.81	55.47	-88.69	-587.00	113.92	8,212.88	8,117.84	95.04	86.412	
14,987.41	7,223.00	9,218.88	7,232.78	228.28	55.60	-88.69	-594.33	113.35	8,299.98	8,204.65	95.34	87.059	



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1.00	3.28	3.28	12.15	1,407.68	303.15	1,439.96					
100.00	100.00	79.46	80.45	3.28	3.29	12.17	1,408.10	303.78	1,440.63	1,434.06	6.57	219.267		
200.00	200.00	164.59	165.55	3.34	3.31	12.24	1,409.43	305.82	1,442.64	1,436.00	6.65	217.095		
300.00	300.00	281.29	282.18	3.44	3.41	12.37	1,411.00	309.35	1,444.63	1,437.78	6.85	210.815		
400.00	400.00	375.08	375.93	3.60	3.54	12.47	1,411.28	312.13	1,445.59	1,438.44	7.14	202.330		
500.00	500.00	472.32	473.14	3.81	3.72	12.49	1,413.44	313.00	1,447.93	1,440.41	7.53	192.399		
600.00	600.00	593.00	593.82	4.05	3.99	12.47	1,414.61	312.94	1,448.82	1,440.79	8.04	180.287		
700.00	699.98	683.05	683.86	4.32	4.23	70.54	1,415.16	313.29	1,448.95	1,440.41	8.54	169.656		
800.00	799.94	775.17	775.97	4.61	4.49	70.66	1,416.33	314.01	1,449.37	1,440.27	9.10	159.300		
900.00	899.89	884.42	885.21	4.92	4.83	70.80	1,417.67	314.85	1,449.76	1,440.01	9.75	148.659		
1,000.00	999.85	982.41	983.19	5.25	5.16	70.92	1,418.59	315.39	1,449.82	1,439.41	10.41	139.300		
1,100.00	1,099.80	1,071.56	1,072.33	5.60	5.46	71.03	1,419.90	315.90	1,450.41	1,439.35	11.06	131.118		
1,200.00	1,199.76	1,173.10	1,173.85	5.96	5.82	71.14	1,421.77	316.36	1,451.34	1,439.56	11.78	123.183		
1,300.00	1,299.72	1,279.76	1,280.50	6.33	6.21	71.23	1,423.46	315.96	1,451.84	1,439.30	12.54	115.794		
1,400.00	1,399.67	1,378.42	1,379.14	6.71	6.57	71.29	1,425.08	315.18	1,452.30	1,439.02	13.28	109.355		
1,500.00	1,499.63	1,472.20	1,472.91	7.10	6.93	71.36	1,426.60	314.53	1,452.78	1,438.76	14.02	103.622		
1,600.00	1,599.58	1,550.39	1,551.07	7.49	7.23	71.47	1,428.39	315.68	1,454.41	1,439.70	14.71	98.863		
1,700.00	1,699.54	1,626.68	1,627.26	7.88	7.53	71.64	1,430.96	318.49	1,457.62	1,442.22	15.40	94.630		
1,800.00	1,799.50	1,712.68	1,713.04	8.28	7.88	71.89	1,434.56	323.48	1,462.15	1,446.01	16.14	90.578		
1,900.00	1,899.45	1,791.25	1,791.27	8.69	8.20	72.17	1,438.35	329.57	1,467.84	1,450.98	16.86	87.084		
2,000.00	1,999.41	1,867.85	1,867.43	9.10	8.52	72.47	1,443.02	336.41	1,475.10	1,457.54	17.56	83.990		
2,100.00	2,099.36	1,949.95	1,948.94	9.51	8.87	72.78	1,449.26	343.89	1,483.89	1,465.59	18.30	81.091		
2,200.00	2,199.32	2,042.74	2,041.01	9.92	9.28	73.13	1,456.85	352.67	1,493.41	1,474.31	19.09	78.220		
2,300.00	2,299.28	2,138.12	2,135.69	10.34	9.70	73.44	1,465.36	360.36	1,503.33	1,483.43	19.90	75.531		
2,400.00	2,399.23	2,237.69	2,234.50	10.75	10.14	73.77	1,474.20	368.99	1,513.42	1,492.67	20.74	72.965		
2,500.00	2,499.19	2,351.70	2,347.57	11.17	10.66	74.20	1,483.53	380.16	1,523.25	1,501.59	21.66	70.318		
2,600.00	2,599.14	2,458.58	2,453.71	11.60	11.14	74.60	1,491.12	390.17	1,531.94	1,509.39	22.55	67.934		
2,700.00	2,699.10	2,549.99	2,544.50	12.02	11.56	74.92	1,497.88	398.40	1,540.89	1,517.53	23.36	65.963		
2,800.00	2,799.06	2,636.09	2,629.94	12.44	11.96	75.22	1,504.75	406.48	1,550.56	1,526.42	24.14	64.226		
2,900.00	2,899.01	2,732.34	2,725.36	12.87	12.41	75.57	1,513.03	416.02	1,561.03	1,536.05	24.98	62.482		
3,000.00	2,998.97	2,859.14	2,851.06	13.29	13.01	76.07	1,522.45	429.72	1,570.79	1,544.80	26.00	60.416		
3,100.00	3,098.92	2,965.40	2,956.48	13.72	13.52	76.52	1,528.75	441.49	1,579.26	1,552.35	26.90	58.699		
3,200.00	3,198.88	3,072.13	3,062.57	14.14	14.02	76.89	1,535.26	451.14	1,587.28	1,559.47	27.81	57.077		
3,300.00	3,298.84	3,158.11	3,148.02	14.57	14.42	77.18	1,540.75	458.88	1,595.64	1,567.04	28.60	55.786		
3,400.00	3,398.79	3,243.94	3,233.22	15.00	14.83	77.48	1,546.71	467.41	1,604.88	1,575.49	29.40	54.595		
3,500.00	3,498.75	3,370.20	3,358.70	15.43	15.42	77.89	1,555.10	478.60	1,613.47	1,583.05	30.41	53.049		
3,600.00	3,598.70	3,464.17	3,452.15	15.86	15.87	78.17	1,561.07	486.47	1,621.73	1,590.48	31.25	51.889		
3,700.00	3,698.66	3,558.52	3,545.92	16.29	16.31	78.48	1,567.16	494.89	1,630.32	1,598.22	32.10	50.794		
3,800.00	3,798.62	3,652.50	3,639.32	16.72	16.76	78.76	1,573.66	503.13	1,639.33	1,606.39	32.94	49.770		
3,900.00	3,898.57	3,752.83	3,738.96	17.15	17.24	79.09	1,580.39	512.70	1,648.47	1,614.66	33.82	48.745		
4,000.00	3,998.53	3,843.68	3,829.15	17.59	17.68	79.41	1,586.21	522.00	1,657.68	1,623.03	34.65	47.846		
4,100.00	4,098.48	3,916.92	3,901.69	18.02	18.04	79.69	1,591.47	530.58	1,668.18	1,632.81	35.37	47.168		
4,200.00	4,198.44	4,007.58	3,991.34	18.45	18.50	80.06	1,598.57	542.05	1,679.73	1,643.53	36.20	46.406		
4,300.00	4,298.40	4,095.40	4,078.16	18.88	18.94	80.39	1,606.10	552.89	1,691.91	1,654.91	37.00	45.721		
4,400.00	4,398.35	4,214.80	4,196.37	19.32	19.54	80.77	1,616.94	565.71	1,704.01	1,666.00	38.01	44.826		
4,500.00	4,498.31	4,337.40	4,318.13	19.75	20.13	81.07	1,627.18	575.75	1,714.40	1,675.37	39.03	43.925		
4,600.00	4,598.26	4,437.05	4,417.18	20.19	20.61	81.27	1,635.61	582.71	1,724.48	1,684.58	39.90	43.219		
4,700.00	4,698.22	4,531.53	4,511.09	20.62	21.06	81.45	1,643.64	589.21	1,734.60	1,693.85	40.74	42.575		
4,800.00	4,798.18	4,631.60	4,610.51	21.05	21.54	81.66	1,652.31	596.68	1,745.11	1,703.49	41.62	41.932		
4,900.00	4,898.13	4,740.33	4,718.59	21.49	22.06	81.87	1,661.40	604.20	1,755.14	1,712.60	42.55	41.253		
5,000.00	4,998.09	4,860.42	4,838.04	21.92	22.63	82.12	1,670.44	612.57	1,764.48	1,720.94	43.54	40.527		
5,100.00	5,098.04	4,997.56	4,974.64	22.36	23.27	82.39	1,678.96	621.35	1,772.49	1,727.88	44.61	39.729		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,157.22	5,134.00	22.79	23.99	82.71	1,684.24	629.17	1,777.03	1,731.26	45.77	38.828		
5,300.00	5,297.96	5,349.27	5,325.96	23.23	24.77	82.89	1,687.78	630.86	1,779.65	1,732.73	46.92	37.927		
5,400.00	5,397.91	5,443.78	5,420.47	23.67	25.11	82.96	1,686.78	629.82	1,777.86	1,730.14	47.72	37.254		
5,500.00	5,497.87	5,538.97	5,515.65	24.10	25.46	83.04	1,685.99	629.02	1,776.39	1,727.86	48.53	36.607		
5,600.00	5,597.82	8,344.74	7,134.07	24.54	42.54	143.63	162.52	628.58	1,713.09	1,680.16	32.93	52.026		
5,700.00	5,697.78	8,344.59	7,134.06	24.97	42.54	143.61	162.67	628.57	1,625.15	1,590.62	34.53	47.065		
5,800.00	5,797.74	8,344.43	7,134.06	25.41	42.54	143.60	162.82	628.56	1,538.67	1,502.36	36.31	42.372		
5,900.00	5,897.69	8,344.28	7,134.06	25.85	42.54	143.59	162.98	628.54	1,453.93	1,415.63	38.30	37.960		
6,000.00	5,997.65	8,344.13	7,134.06	26.28	42.53	143.58	163.13	628.53	1,371.25	1,330.74	40.52	33.845		
6,100.00	6,097.60	8,343.97	7,134.06	26.72	42.53	143.57	163.29	628.52	1,291.02	1,248.05	42.98	30.040		
6,200.00	6,197.56	8,343.81	7,134.05	27.16	42.53	143.56	163.44	628.51	1,213.74	1,168.03	45.70	26.558		
6,300.00	6,297.52	8,343.66	7,134.05	27.59	42.53	143.55	163.60	628.49	1,139.98	1,091.29	48.70	23.409		
6,400.00	6,397.47	8,343.50	7,134.05	28.03	42.52	143.54	163.76	628.48	1,070.50	1,018.54	51.96	20.602		
6,500.00	6,497.43	8,343.34	7,134.05	28.47	42.52	143.52	163.92	628.47	1,006.17	950.72	55.45	18.144		
6,600.00	6,597.38	8,343.17	7,134.04	28.90	42.52	143.51	164.08	628.45	948.05	888.94	59.11	16.040		
6,700.00	6,697.08	8,342.87	7,134.04	29.34	42.51	169.57	164.38	628.43	900.99	838.15	62.85	14.337		
6,800.00	6,794.63	8,342.07	7,134.03	29.79	42.50	173.12	165.18	628.37	877.53	811.02	66.50	13.196		
6,838.35	6,830.96	8,341.63	7,134.02	29.96	42.50	173.62	165.62	628.33	875.54	807.77	67.77	12.920 CC, ES		
6,900.00	6,887.62	8,340.80	7,134.01	30.24	42.48	174.06	166.45	628.27	880.66	811.12	69.55	12.663 SF		
7,000.00	6,973.77	8,339.15	7,133.99	30.70	42.46	174.25	168.09	628.14	910.06	838.40	71.66	12.700		
7,100.00	7,050.94	8,337.23	7,133.96	31.20	42.43	173.96	170.01	628.00	962.63	889.78	72.85	13.214		
7,200.00	7,117.24	8,335.15	7,133.93	31.77	42.40	173.12	172.08	627.85	1,033.68	960.30	73.37	14.088		
7,300.00	7,171.03	8,325.00	7,133.80	32.46	42.24	170.43	182.21	627.22	1,118.19	1,044.78	73.41	15.232		
7,400.00	7,211.00	8,325.00	7,133.80	33.29	42.24	166.11	182.21	627.22	1,211.37	1,137.93	73.43	16.496		
7,500.00	7,236.16	8,325.00	7,133.80	34.29	42.24	149.15	182.21	627.22	1,309.40	1,235.98	73.42	17.835		
7,600.00	7,245.89	8,325.00	7,133.80	35.43	42.24	40.40	182.21	627.22	1,409.13	1,335.71	73.42	19.192		
7,700.00	7,245.73	8,325.00	7,133.80	36.72	42.24	31.77	182.21	627.22	1,508.70	1,435.25	73.45	20.539		
7,800.00	7,245.42	8,325.00	7,133.80	38.18	42.24	31.77	182.21	627.22	1,608.31	1,534.83	73.48	21.887		
7,900.00	7,245.10	8,325.00	7,133.80	39.80	42.24	31.77	182.21	627.22	1,707.97	1,634.46	73.51	23.235		
8,000.00	7,244.79	8,325.00	7,133.80	41.54	42.24	31.77	182.21	627.22	1,807.66	1,734.13	73.53	24.583		
8,100.00	7,244.48	8,325.00	7,133.80	43.41	42.24	31.77	182.21	627.22	1,907.39	1,833.83	73.56	25.931		
8,200.00	7,244.17	8,325.00	7,133.80	45.38	42.24	31.77	182.21	627.22	2,007.14	1,933.56	73.58	27.279		
8,300.00	7,243.86	8,325.00	7,133.80	47.44	42.24	31.77	182.21	627.22	2,106.92	2,033.32	73.60	28.626		
8,400.00	7,243.55	8,325.00	7,133.80	49.58	42.24	31.77	182.21	627.22	2,206.72	2,133.09	73.63	29.972		
8,500.00	7,243.23	8,325.00	7,133.80	51.78	42.24	31.77	182.21	627.22	2,306.53	2,232.88	73.65	31.318		
8,600.00	7,242.92	8,325.00	7,133.80	54.05	42.24	31.77	182.21	627.22	2,406.36	2,332.69	73.67	32.662		
8,700.00	7,242.61	8,325.00	7,133.80	56.37	42.24	31.77	182.21	627.22	2,506.21	2,432.51	73.70	34.006		
8,800.00	7,242.30	8,313.45	7,133.65	58.74	42.07	35.65	193.74	626.66	2,605.95	2,532.37	73.57	35.419		
8,900.00	7,241.99	8,312.75	7,133.65	61.16	42.06	35.88	194.45	626.63	2,705.80	2,632.21	73.59	36.768		
9,000.00	7,241.67	8,312.08	7,133.64	63.61	42.05	36.09	195.11	626.61	2,805.66	2,732.05	73.61	38.115		
9,100.00	7,241.36	8,311.45	7,133.63	66.09	42.04	36.29	195.75	626.58	2,905.54	2,831.91	73.63	39.461		
9,200.00	7,241.05	8,310.85	7,133.62	68.60	42.03	36.48	196.34	626.56	3,005.42	2,931.76	73.65	40.806		
9,300.00	7,240.74	8,310.28	7,133.61	71.13	42.02	36.66	196.91	626.54	3,105.30	3,031.63	73.67	42.150		
9,400.00	7,240.43	8,309.74	7,133.60	73.70	42.02	36.82	197.45	626.52	3,205.20	3,131.50	73.70	43.491		
9,500.00	7,240.11	8,309.23	7,133.60	76.28	42.01	36.98	197.96	626.50	3,305.09	3,231.37	73.72	44.832		
9,600.00	7,239.80	8,308.74	7,133.59	78.88	42.00	37.13	198.45	626.49	3,405.00	3,331.25	73.75	46.170		
9,700.00	7,239.49	8,308.28	7,133.58	81.50	41.99	37.28	198.91	626.47	3,504.91	3,431.13	73.78	47.507		
9,800.00	7,239.18	8,307.84	7,133.58	84.13	41.99	37.41	199.35	626.46	3,604.82	3,531.02	73.81	48.842		
9,900.00	7,238.87	8,307.41	7,133.57	86.78	41.98	37.54	199.78	626.44	3,704.74	3,630.91	73.84	50.176		
10,000.00	7,238.55	8,295.00	7,133.38	89.44	41.80	41.13	212.18	626.14	3,804.78	3,731.06	73.72	51.614		
10,100.00	7,238.24	8,295.00	7,133.38	92.11	41.80	41.13	212.18	626.14	3,904.70	3,830.95	73.75	52.942		
10,200.00	7,237.93	8,295.00	7,133.38	94.80	41.80	41.13	212.18	626.14	4,004.62	3,930.83	73.79	54.269		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	8,295.00	7,133.38	97.49	41.80	41.13	212.18	626.14	4,104.55	4,030.72	73.83	55.593		
10,400.00	7,237.31	8,295.00	7,133.38	100.19	41.80	41.13	212.18	626.14	4,204.48	4,130.61	73.87	56.915		
10,500.00	7,236.99	8,295.00	7,133.38	102.90	41.80	41.13	212.18	626.14	4,304.41	4,230.50	73.92	58.234		
10,600.00	7,236.68	8,295.00	7,133.38	105.62	41.80	41.13	212.18	626.14	4,404.35	4,330.39	73.96	59.552		
10,700.00	7,236.37	8,295.00	7,133.38	108.35	41.80	41.13	212.18	626.14	4,504.29	4,430.29	74.00	60.867		
10,800.00	7,236.06	8,295.00	7,133.38	111.08	41.80	41.13	212.18	626.14	4,604.23	4,530.18	74.05	62.180		
10,900.00	7,235.75	8,295.00	7,133.38	113.82	41.80	41.13	212.18	626.14	4,704.17	4,630.08	74.09	63.490		
11,000.00	7,235.44	8,295.00	7,133.38	116.56	41.80	41.13	212.18	626.14	4,804.12	4,729.98	74.14	64.798		
11,100.00	7,235.12	8,295.00	7,133.38	119.31	41.80	41.13	212.18	626.14	4,904.07	4,829.88	74.19	66.103		
11,200.00	7,234.81	8,295.00	7,133.38	122.07	41.80	41.13	212.18	626.14	5,004.02	4,929.78	74.24	67.405		
11,300.00	7,234.50	8,295.00	7,133.38	124.83	41.80	41.13	212.18	626.14	5,103.97	5,029.68	74.29	68.705		
11,400.00	7,234.19	8,295.00	7,133.38	127.59	41.80	41.13	212.18	626.14	5,203.93	5,129.59	74.34	70.003		
11,500.00	7,233.88	8,295.00	7,133.38	130.36	41.80	41.13	212.18	626.14	5,303.88	5,229.49	74.39	71.297		
11,600.00	7,233.56	8,295.00	7,133.38	133.13	41.80	41.13	212.18	626.14	5,403.84	5,329.40	74.44	72.589		
11,700.00	7,233.25	8,295.00	7,133.38	135.91	41.80	41.13	212.18	626.14	5,503.80	5,429.30	74.50	73.878		
11,800.00	7,232.94	8,295.00	7,133.38	138.68	41.80	41.13	212.18	626.14	5,603.76	5,529.21	74.55	75.164		
11,900.00	7,232.63	8,295.00	7,133.38	141.47	41.80	41.13	212.18	626.14	5,703.72	5,629.11	74.61	76.447		
12,000.00	7,232.32	8,295.00	7,133.38	144.25	41.80	41.13	212.18	626.14	5,803.69	5,729.02	74.67	77.727		
12,100.00	7,232.00	8,295.00	7,133.38	147.04	41.80	41.13	212.18	626.14	5,903.65	5,828.93	74.73	79.005		
12,200.00	7,231.69	8,295.00	7,133.38	149.83	41.80	41.13	212.18	626.14	6,003.62	5,928.83	74.78	80.279		
12,300.00	7,231.38	8,295.00	7,133.38	152.62	41.80	41.13	212.18	626.14	6,103.58	6,028.74	74.84	81.550		
12,400.00	7,231.07	8,295.00	7,133.38	155.42	41.80	41.13	212.18	626.14	6,203.55	6,128.65	74.91	82.818		
12,500.00	7,230.76	8,295.00	7,133.38	158.22	41.80	41.13	212.18	626.14	6,303.52	6,228.55	74.97	84.083		
12,600.00	7,230.44	8,295.00	7,133.38	161.01	41.80	41.13	212.18	626.14	6,403.49	6,328.46	75.03	85.344		
12,700.00	7,230.13	8,295.00	7,133.38	163.82	41.80	41.13	212.18	626.14	6,503.46	6,428.37	75.10	86.603		
12,800.00	7,229.82	8,295.00	7,133.38	166.62	41.80	41.13	212.18	626.14	6,603.44	6,528.27	75.16	87.858		
12,900.00	7,229.51	8,295.00	7,133.38	169.43	41.80	41.13	212.18	626.14	6,703.41	6,628.18	75.23	89.110		
13,000.00	7,229.20	8,295.00	7,133.38	172.23	41.80	41.13	212.18	626.14	6,803.38	6,728.09	75.29	90.358		
13,100.00	7,228.88	8,295.00	7,133.38	175.04	41.80	41.13	212.18	626.14	6,903.36	6,827.99	75.36	91.603		
13,200.00	7,228.57	8,295.00	7,133.38	177.85	41.80	41.13	212.18	626.14	7,003.33	6,927.90	75.43	92.845		
13,300.00	7,228.26	8,295.00	7,133.38	180.66	41.80	41.13	212.18	626.14	7,103.31	7,027.81	75.50	94.083		
13,400.00	7,227.95	8,295.00	7,133.38	183.48	41.80	41.13	212.18	626.14	7,203.28	7,127.71	75.57	95.318		
13,500.00	7,227.64	8,295.00	7,133.38	186.29	41.80	41.13	212.18	626.14	7,303.26	7,227.62	75.64	96.550		
13,600.00	7,227.33	8,295.00	7,133.38	189.11	41.80	41.13	212.18	626.14	7,403.24	7,327.52	75.72	97.778		
13,700.00	7,227.01	8,295.00	7,133.38	191.92	41.80	41.13	212.18	626.14	7,503.22	7,427.43	75.79	99.002		
13,800.00	7,226.70	8,295.00	7,133.38	194.74	41.80	41.13	212.18	626.14	7,603.19	7,527.33	75.86	100.223		
13,900.00	7,226.39	8,295.00	7,133.38	197.56	41.80	41.13	212.18	626.14	7,703.17	7,627.24	75.94	101.440		
14,000.00	7,226.08	8,295.00	7,133.38	200.38	41.80	41.13	212.18	626.14	7,803.15	7,727.14	76.01	102.653		
14,100.00	7,225.77	8,295.00	7,133.38	203.21	41.80	41.13	212.18	626.14	7,903.13	7,827.04	76.09	103.863		
14,200.00	7,225.45	8,295.00	7,133.38	206.03	41.80	41.13	212.18	626.14	8,003.12	7,926.95	76.17	105.070		
14,300.00	7,225.14	8,295.00	7,133.38	208.85	41.80	41.13	212.18	626.14	8,103.10	8,026.85	76.25	106.272		
14,400.00	7,224.83	8,295.00	7,133.38	211.68	41.80	41.13	212.18	626.14	8,203.08	8,126.75	76.33	107.471		
14,500.00	7,224.52	8,295.00	7,133.38	214.50	41.80	41.13	212.18	626.14	8,303.06	8,226.65	76.41	108.666		
14,600.00	7,224.21	8,295.00	7,133.38	217.33	41.80	41.13	212.18	626.14	8,403.04	8,326.55	76.49	109.858		
14,700.00	7,223.89	8,295.00	7,133.38	220.16	41.80	41.13	212.18	626.14	8,503.03	8,426.45	76.57	111.045		
14,800.00	7,223.58	8,295.00	7,133.38	222.98	41.80	41.13	212.18	626.14	8,603.01	8,526.35	76.66	112.229		
14,900.00	7,223.27	8,295.00	7,133.38	225.81	41.80	41.13	212.18	626.14	8,702.99	8,626.25	76.74	113.409		
14,987.41	7,223.00	8,295.00	7,133.38	228.28	41.80	41.13	212.18	626.14	8,790.39	8,713.58	76.81	114.438		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	11.78	2.78	3.28	3.28	50.34	1,404.09	1,693.75	2,200.06				
100.00	100.00	142.70	133.69	3.28	3.29	50.32	1,403.98	1,692.43	2,199.23	2,192.65	6.58	334.345	
200.00	200.00	257.17	248.13	3.34	3.37	50.27	1,404.24	1,689.44	2,197.36	2,190.65	6.71	327.477	
300.00	300.00	360.41	351.27	3.44	3.51	50.18	1,405.22	1,685.38	2,194.94	2,187.99	6.95	315.760	
400.00	400.00	450.30	441.06	3.60	3.67	50.08	1,407.04	1,681.49	2,192.91	2,185.64	7.27	301.709	
500.00	500.00	549.42	540.05	3.81	3.89	49.95	1,409.56	1,676.96	2,191.04	2,183.35	7.69	285.009	
600.00	600.00	646.70	637.15	4.05	4.14	49.80	1,412.75	1,672.04	2,189.28	2,181.11	8.18	267.712	
700.00	699.98	741.31	731.55	4.32	4.41	107.70	1,416.42	1,666.94	2,188.20	2,179.48	8.72	250.976	
800.00	799.94	843.20	833.17	4.61	4.74	107.59	1,421.05	1,661.19	2,187.74	2,178.40	9.33	234.410	
900.00	899.89	937.99	927.71	4.92	5.06	107.48	1,425.20	1,655.71	2,187.08	2,177.11	9.97	219.425	
983.64	983.50	1,013.39	1,002.89	5.20	5.33	107.39	1,429.00	1,651.45	2,186.97	2,176.45	10.51	208.020	
1,000.00	999.85	1,028.95	1,018.39	5.25	5.39	107.36	1,430.01	1,650.41	2,186.97	2,176.34	10.63	205.819	
1,100.00	1,099.80	1,302.72	1,288.63	5.60	6.55	106.51	1,451.39	1,613.52	2,182.22	2,170.10	12.11	180.155	
1,200.00	1,199.76	1,414.44	1,398.22	5.96	7.09	106.08	1,459.18	1,593.29	2,174.06	2,161.07	12.99	167.373	
1,300.00	1,299.72	1,503.30	1,485.32	6.33	7.54	105.73	1,465.60	1,576.88	2,165.92	2,152.14	13.79	157.090	
1,400.00	1,399.67	1,686.62	1,664.87	6.71	8.50	105.03	1,475.89	1,541.47	2,156.11	2,141.06	15.05	143.224	
1,500.00	1,499.63	1,798.65	1,774.59	7.10	9.10	104.63	1,479.36	1,519.17	2,144.36	2,128.37	15.99	134.098	
1,600.00	1,599.58	1,874.35	1,848.81	7.49	9.51	104.38	1,481.31	1,504.38	2,132.66	2,115.89	16.77	127.189	
1,700.00	1,699.54	1,943.21	1,916.52	7.88	9.87	104.16	1,483.45	1,492.01	2,122.47	2,104.95	17.52	121.156	
1,800.00	1,799.50	2,011.00	1,983.31	8.28	10.23	103.95	1,485.83	1,480.70	2,113.60	2,095.33	18.27	115.702	
1,900.00	1,899.45	2,079.05	2,050.48	8.69	10.58	103.75	1,488.78	1,470.19	2,106.25	2,087.23	19.02	110.741	
2,000.00	1,999.41	2,160.66	2,131.10	9.10	11.00	103.50	1,493.30	1,458.40	2,100.41	2,080.56	19.84	105.857	
2,100.00	2,099.36	2,250.03	2,219.33	9.51	11.47	103.20	1,498.93	1,445.26	2,095.03	2,074.32	20.71	101.152	
2,200.00	2,199.32	2,335.61	2,303.74	9.92	11.92	102.91	1,505.17	1,432.61	2,090.34	2,068.77	21.57	96.894	
2,300.00	2,299.28	2,428.39	2,395.20	10.34	12.42	102.57	1,512.66	1,418.94	2,086.30	2,063.82	22.48	92.814	
2,400.00	2,399.23	2,524.96	2,490.57	10.75	12.92	102.24	1,519.66	1,405.48	2,082.33	2,058.93	23.40	88.989	
2,500.00	2,499.19	2,615.98	2,580.56	11.17	13.39	101.95	1,526.16	1,393.48	2,078.88	2,054.59	24.29	85.589	
2,600.00	2,599.14	2,718.95	2,682.45	11.60	13.92	101.64	1,533.16	1,380.39	2,075.57	2,050.33	25.24	82.244	
2,700.00	2,699.10	2,857.38	2,819.27	12.02	14.65	101.20	1,542.30	1,361.41	2,071.59	2,045.22	26.37	78.562	
2,800.00	2,799.06	2,982.17	2,942.04	12.44	15.34	100.72	1,550.54	1,340.70	2,065.57	2,038.10	27.46	75.215	
2,900.00	2,899.01	3,076.30	3,034.70	12.87	15.87	100.37	1,556.34	1,325.13	2,059.40	2,030.99	28.41	72.501	
3,000.00	2,998.97	3,177.78	3,134.69	13.29	16.43	100.00	1,562.13	1,308.80	2,053.28	2,023.90	29.38	69.888	
3,100.00	3,098.92	3,271.35	3,226.87	13.72	16.94	99.66	1,567.58	1,293.70	2,047.32	2,017.00	30.31	67.535	
3,200.00	3,198.88	3,371.38	3,325.79	14.14	17.47	99.36	1,572.08	1,279.60	2,041.80	2,010.54	31.26	65.311	
3,300.00	3,298.84	3,479.14	3,432.51	14.57	18.02	99.08	1,575.25	1,264.96	2,035.48	2,003.25	32.23	63.162	
3,400.00	3,398.79	3,558.02	3,510.73	15.00	18.42	98.89	1,577.56	1,255.09	2,029.91	1,996.85	33.06	61.402	
3,500.00	3,498.75	3,639.25	3,591.27	15.43	18.83	98.68	1,580.92	1,244.97	2,025.33	1,991.43	33.90	59.736	
3,600.00	3,598.70	3,723.90	3,675.07	15.86	19.27	98.43	1,585.62	1,234.10	2,021.61	1,986.84	34.78	58.130	
3,700.00	3,698.66	3,831.35	3,781.16	16.29	19.85	98.05	1,593.09	1,218.78	2,018.11	1,982.32	35.79	56.391	
3,800.00	3,798.62	3,944.42	3,892.42	16.72	20.49	97.59	1,601.92	1,200.64	2,014.20	1,977.34	36.85	54.654	
3,900.00	3,898.57	4,068.88	4,014.71	17.15	21.20	97.06	1,611.04	1,179.42	2,009.39	1,971.40	37.99	52.898	
4,000.00	3,998.53	4,195.65	4,139.17	17.59	21.93	96.51	1,619.02	1,156.68	2,003.33	1,964.20	39.13	51.199	
4,100.00	4,098.48	4,280.65	4,222.71	18.02	22.41	96.16	1,623.76	1,141.71	1,997.04	1,956.99	40.05	49.862	
4,200.00	4,198.44	4,366.27	4,307.09	18.45	22.90	95.84	1,628.25	1,127.92	1,991.51	1,950.54	40.98	48.602	
4,300.00	4,298.40	4,456.09	4,395.78	18.88	23.39	95.53	1,632.79	1,114.52	1,986.65	1,944.74	41.90	47.409	
4,400.00	4,398.35	4,547.15	4,485.76	19.32	23.88	95.22	1,637.56	1,101.34	1,982.27	1,939.43	42.84	46.277	
4,500.00	4,498.31	4,634.56	4,572.20	19.75	24.34	94.93	1,642.29	1,089.16	1,978.43	1,934.69	43.74	45.232	
4,600.00	4,598.26	4,720.41	4,657.19	20.19	24.79	94.66	1,647.04	1,078.03	1,975.32	1,930.68	44.63	44.258	
4,700.00	4,698.22	4,802.54	4,738.59	20.62	25.21	94.42	1,651.70	1,068.20	1,972.98	1,927.49	45.50	43.366	
4,800.00	4,798.18	4,882.50	4,817.95	21.05	25.61	94.21	1,656.52	1,059.67	1,971.72	1,925.39	46.34	42.553	
4,900.00	4,898.13	4,970.72	4,905.61	21.49	26.04	94.00	1,661.86	1,051.37	1,971.28	1,924.07	47.20	41.761	
5,000.00	4,998.09	5,067.64	5,001.98	21.92	26.50	93.78	1,667.65	1,042.88	1,971.18	1,923.07	48.11	40.972	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	
5,000.78	4,998.87	5,068.38	5,002.72	21.93	26.50	93.78	1,667.70	1,042.81	1,971.18	1,923.07	48.12	40.966	
5,100.00	5,098.04	5,163.30	5,096.99	22.36	26.97	93.54	1,674.12	1,033.75	1,971.31	1,922.29	49.02	40.215	
5,200.00	5,198.00	5,264.41	5,197.46	22.79	27.45	93.29	1,680.82	1,024.54	1,971.60	1,921.64	49.95	39.468	
5,300.00	5,297.96	5,375.16	5,307.66	23.23	27.97	93.07	1,686.84	1,015.40	1,971.45	1,920.52	50.92	38.716	
5,400.00	5,397.91	5,473.25	5,405.44	23.67	28.41	92.93	1,690.95	1,008.69	1,971.11	1,919.31	51.80	38.050	
5,500.00	5,497.87	5,569.89	5,501.88	24.10	28.83	92.84	1,694.20	1,003.62	1,971.01	1,918.36	52.66	37.430	
5,600.00	5,597.82	5,667.04	5,598.91	24.54	29.24	92.78	1,696.79	999.59	1,970.98	1,917.48	53.50	36.839	
5,625.67	5,623.48	8,601.12	7,249.63	24.65	46.06	150.22	59.94	961.61	1,956.08	1,910.06	46.02	42.502	
5,700.00	5,697.78	8,599.27	7,249.65	24.97	46.03	150.13	61.79	961.61	1,895.85	1,848.58	47.27	40.108	
5,800.00	5,797.74	8,596.76	7,249.68	25.41	45.99	150.00	64.30	961.61	1,816.46	1,767.42	49.04	37.037	
5,900.00	5,897.69	8,594.22	7,249.71	25.85	45.95	149.87	66.84	961.61	1,739.20	1,688.26	50.94	34.143	
6,000.00	5,997.65	8,591.65	7,249.74	26.28	45.92	149.74	69.41	961.61	1,664.35	1,611.40	52.95	31.432	
6,100.00	6,097.60	8,589.06	7,249.77	26.72	45.88	149.61	72.00	961.61	1,592.27	1,537.19	55.08	28.909	
6,200.00	6,197.56	8,586.43	7,249.80	27.16	45.84	149.48	74.62	961.61	1,523.34	1,466.02	57.31	26.579	
6,300.00	6,297.52	8,583.93	7,249.84	27.59	45.80	149.35	77.12	961.61	1,458.00	1,398.36	59.64	24.447	
6,400.00	6,397.47	8,581.48	7,249.86	28.03	45.77	149.23	79.58	961.61	1,396.77	1,334.75	62.03	22.519	
6,500.00	6,497.43	8,579.06	7,249.89	28.47	45.73	149.10	82.00	961.61	1,340.21	1,275.77	64.44	20.798	
6,600.00	6,597.38	8,576.65	7,249.92	28.90	45.69	148.98	84.40	961.61	1,288.93	1,222.11	66.82	19.290	
6,700.00	6,697.08	8,574.32	7,249.95	29.34	45.66	174.65	86.74	961.62	1,247.34	1,178.21	69.13	18.042	
6,800.00	6,794.63	8,572.18	7,249.97	29.79	45.63	177.98	88.88	961.62	1,227.20	1,155.89	71.32	17.208	
6,835.53	6,828.32	8,571.49	7,249.98	29.95	45.62	178.42	89.57	961.62	1,225.70	1,153.68	72.02	17.020 CC, ES	
6,900.00	6,887.62	8,570.32	7,249.99	30.24	45.60	178.94	90.74	961.63	1,230.64	1,157.50	73.14	16.825 SF	
7,000.00	6,973.77	8,568.77	7,250.01	30.70	45.58	179.40	92.29	961.63	1,257.38	1,182.91	74.47	16.884	
7,100.00	7,050.94	8,567.57	7,250.03	31.20	45.56	179.71	93.49	961.63	1,305.37	1,230.06	75.30	17.335	
7,200.00	7,117.24	8,566.74	7,250.04	31.77	45.55	179.98	94.32	961.64	1,371.26	1,295.53	75.73	18.107	
7,300.00	7,171.03	8,566.29	7,250.04	32.46	45.54	-179.68	94.77	961.64	1,451.14	1,375.24	75.90	19.119	
7,400.00	7,211.00	8,566.21	7,250.04	33.29	45.54	-179.09	94.85	961.64	1,541.04	1,465.10	75.94	20.294	
7,500.00	7,236.16	8,566.50	7,250.04	34.29	45.54	-177.50	94.56	961.64	1,637.28	1,561.35	75.93	21.564	
7,600.00	7,245.89	8,567.12	7,250.03	35.43	45.55	-154.11	93.93	961.63	1,736.64	1,660.72	75.93	22.872	
7,700.00	7,245.73	8,567.95	7,250.02	36.72	45.56	-85.78	93.11	961.63	1,836.64	1,760.69	75.95	24.182	
7,800.00	7,245.42	8,568.75	7,250.01	38.18	45.58	-85.92	92.31	961.63	1,936.63	1,860.66	75.97	25.492	
7,900.00	7,245.10	8,569.53	7,250.00	39.80	45.59	-86.05	91.52	961.63	2,036.63	1,960.63	75.99	26.800	
8,000.00	7,244.79	8,570.30	7,250.00	41.54	45.60	-86.16	90.76	961.63	2,136.62	2,060.60	76.02	28.107	
8,100.00	7,244.48	8,571.05	7,249.99	43.41	45.61	-86.27	90.01	961.62	2,236.62	2,160.57	76.04	29.413	
8,200.00	7,244.17	8,571.78	7,249.98	45.38	45.62	-86.36	89.28	961.62	2,336.61	2,260.54	76.07	30.718	
8,300.00	7,243.86	8,572.49	7,249.97	47.44	45.63	-86.45	88.57	961.62	2,436.61	2,360.51	76.09	32.021	
8,400.00	7,243.55	8,573.19	7,249.96	49.58	45.64	-86.53	87.87	961.62	2,536.60	2,460.48	76.12	33.323	
8,500.00	7,243.23	8,573.87	7,249.95	51.78	45.65	-86.61	87.19	961.62	2,636.60	2,560.45	76.15	34.624	
8,600.00	7,242.92	8,574.53	7,249.95	54.05	45.66	-86.68	86.52	961.62	2,736.59	2,660.41	76.18	35.923	
8,700.00	7,242.61	8,575.18	7,249.94	56.37	45.67	-86.74	85.87	961.61	2,836.59	2,760.38	76.21	37.221	
8,800.00	7,242.30	8,575.82	7,249.93	58.74	45.68	-86.80	85.24	961.61	2,936.58	2,860.34	76.24	38.518	
8,900.00	7,241.99	8,576.44	7,249.92	61.16	45.69	-86.86	84.62	961.61	3,036.58	2,960.31	76.27	39.812	
9,000.00	7,241.67	8,577.05	7,249.92	63.61	45.70	-86.91	84.01	961.61	3,136.57	3,060.27	76.31	41.106	
9,100.00	7,241.36	8,577.65	7,249.91	66.09	45.71	-86.96	83.41	961.61	3,236.57	3,160.23	76.34	42.397	
9,200.00	7,241.05	8,578.23	7,249.90	68.60	45.72	-87.01	82.83	961.61	3,336.57	3,260.19	76.37	43.687	
9,300.00	7,240.74	8,578.80	7,249.90	71.13	45.73	-87.05	82.26	961.61	3,436.56	3,360.15	76.41	44.975	
9,400.00	7,240.43	8,579.36	7,249.89	73.70	45.73	-87.09	81.70	961.61	3,536.56	3,460.11	76.45	46.261	
9,500.00	7,240.11	8,579.91	7,249.88	76.28	45.74	-87.13	81.15	961.61	3,636.55	3,560.07	76.49	47.546	
9,600.00	7,239.80	8,580.44	7,249.88	78.88	45.75	-87.17	80.61	961.61	3,736.55	3,660.03	76.52	48.828	
9,700.00	7,239.49	8,580.97	7,249.87	81.50	45.76	-87.20	80.09	961.61	3,836.55	3,759.98	76.56	50.109	
9,800.00	7,239.18	8,581.48	7,249.86	84.13	45.77	-87.24	79.57	961.61	3,936.54	3,859.94	76.60	51.388	
9,900.00	7,238.87	8,586.00	7,249.81	86.78	45.83	-87.49	75.06	961.61	4,036.54	3,959.83	76.71	52.618	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
10,000.00	7,238.55	8,586.00	7,249.81	89.44	45.83	-87.49	75.06	961.61	4,136.54	4,059.79	76.75	53.897		
10,100.00	7,238.24	8,586.00	7,249.81	92.11	45.83	-87.49	75.06	961.61	4,236.53	4,159.75	76.78	55.174		
10,200.00	7,237.93	8,586.00	7,249.81	94.80	45.83	-87.49	75.06	961.61	4,336.53	4,259.71	76.82	56.450		
10,300.00	7,237.62	8,586.00	7,249.81	97.49	45.83	-87.49	75.06	961.61	4,436.53	4,359.67	76.86	57.723		
10,400.00	7,237.31	8,586.00	7,249.81	100.19	45.83	-87.49	75.06	961.61	4,536.52	4,459.63	76.90	58.994		
10,500.00	7,236.99	8,586.00	7,249.81	102.90	45.83	-87.49	75.06	961.61	4,636.52	4,559.58	76.94	60.263		
10,600.00	7,236.68	8,586.00	7,249.81	105.62	45.83	-87.49	75.06	961.61	4,736.52	4,659.54	76.98	61.530		
10,700.00	7,236.37	8,586.00	7,249.81	108.35	45.83	-87.49	75.06	961.61	4,836.51	4,759.49	77.02	62.794		
10,800.00	7,236.06	8,586.22	7,249.81	111.08	45.84	-87.50	74.84	961.61	4,936.51	4,859.44	77.07	64.053		
10,900.00	7,235.75	8,586.99	7,249.80	113.82	45.85	-87.53	74.07	961.61	5,036.51	4,959.38	77.13	65.302		
11,000.00	7,235.44	8,587.75	7,249.79	116.56	45.86	-87.57	73.31	961.61	5,136.51	5,059.32	77.19	66.548		
11,100.00	7,235.12	8,588.51	7,249.78	119.31	45.87	-87.60	72.54	961.61	5,236.50	5,159.26	77.24	67.791		
11,200.00	7,234.81	8,589.28	7,249.77	122.07	45.88	-87.63	71.78	961.61	5,336.50	5,259.19	77.31	69.031		
11,300.00	7,234.50	8,590.04	7,249.76	124.83	45.89	-87.66	71.02	961.61	5,436.50	5,359.13	77.37	70.269		
11,400.00	7,234.19	8,590.80	7,249.75	127.59	45.90	-87.69	70.25	961.61	5,536.49	5,459.06	77.43	71.503		
11,500.00	7,233.88	8,591.57	7,249.74	130.36	45.92	-87.72	69.49	961.61	5,636.49	5,559.00	77.49	72.734		
11,600.00	7,233.56	8,592.33	7,249.73	133.13	45.93	-87.75	68.73	961.61	5,736.49	5,658.93	77.56	73.963		
11,700.00	7,233.25	8,593.10	7,249.72	135.91	45.94	-87.78	67.96	961.61	5,836.48	5,758.86	77.63	75.188		
11,800.00	7,232.94	8,593.86	7,249.72	138.68	45.95	-87.80	67.20	961.61	5,936.48	5,858.79	77.69	76.410		
11,900.00	7,232.63	8,594.62	7,249.71	141.47	45.96	-87.83	66.44	961.61	6,036.48	5,958.72	77.76	77.629		
12,000.00	7,232.32	8,595.39	7,249.70	144.25	45.97	-87.85	65.67	961.61	6,136.48	6,058.65	77.83	78.845		
12,100.00	7,232.00	8,596.15	7,249.69	147.04	45.98	-87.88	64.91	961.61	6,236.47	6,158.57	77.90	80.058		
12,200.00	7,231.69	8,596.91	7,249.68	149.83	46.00	-87.90	64.15	961.61	6,336.47	6,258.50	77.97	81.267		
12,300.00	7,231.38	8,597.68	7,249.67	152.62	46.01	-87.92	63.38	961.61	6,436.47	6,358.42	78.04	82.474		
12,400.00	7,231.07	8,598.44	7,249.66	155.42	46.02	-87.94	62.62	961.61	6,536.46	6,458.35	78.12	83.676		
12,500.00	7,230.76	8,599.20	7,249.65	158.22	46.03	-87.96	61.85	961.61	6,636.46	6,558.27	78.19	84.876		
12,600.00	7,230.44	8,599.97	7,249.64	161.01	46.04	-87.98	61.09	961.61	6,736.46	6,658.19	78.27	86.072		
12,700.00	7,230.13	8,600.73	7,249.64	163.82	46.05	-88.00	60.33	961.61	6,836.46	6,758.11	78.34	87.265		
12,800.00	7,229.82	8,601.49	7,249.63	166.62	46.06	-88.02	59.56	961.61	6,936.45	6,858.03	78.42	88.454		
12,900.00	7,229.51	8,602.26	7,249.62	169.43	46.07	-88.04	58.80	961.61	7,036.45	6,957.95	78.50	89.640		
13,000.00	7,229.20	8,603.02	7,249.61	172.23	46.09	-88.06	58.04	961.61	7,136.45	7,057.87	78.58	90.823		
13,100.00	7,228.88	8,603.78	7,249.60	175.04	46.10	-88.08	57.28	961.61	7,236.44	7,157.79	78.66	92.001		
13,200.00	7,228.57	8,604.55	7,249.59	177.85	46.11	-88.10	56.51	961.61	7,336.44	7,257.70	78.74	93.177		
13,300.00	7,228.26	8,605.31	7,249.58	180.66	46.12	-88.11	55.75	961.61	7,436.44	7,357.62	78.82	94.349		
13,400.00	7,227.95	8,606.07	7,249.58	183.48	46.13	-88.13	54.99	961.61	7,536.44	7,457.53	78.90	95.517		
13,500.00	7,227.64	8,606.84	7,249.57	186.29	46.14	-88.15	54.22	961.61	7,636.43	7,557.45	78.99	96.681		
13,600.00	7,227.33	8,607.60	7,249.56	189.11	46.15	-88.16	53.46	961.61	7,736.43	7,657.36	79.07	97.842		
13,700.00	7,227.01	8,608.36	7,249.55	191.92	46.17	-88.18	52.70	961.61	7,836.43	7,757.27	79.16	99.000		
13,800.00	7,226.70	8,609.13	7,249.54	194.74	46.18	-88.19	51.93	961.61	7,936.42	7,857.18	79.24	100.153		
13,900.00	7,226.39	8,609.89	7,249.53	197.56	46.19	-88.21	51.17	961.61	8,036.42	7,957.09	79.33	101.303		
14,000.00	7,226.08	8,610.65	7,249.53	200.38	46.20	-88.22	50.41	961.61	8,136.42	8,057.00	79.42	102.450		
14,100.00	7,225.77	8,611.42	7,249.52	203.21	46.21	-88.24	49.64	961.61	8,236.41	8,156.91	79.51	103.592		
14,200.00	7,225.45	8,612.18	7,249.51	206.03	46.22	-88.25	48.88	961.61	8,336.41	8,256.81	79.60	104.731		
14,300.00	7,225.14	8,612.94	7,249.50	208.85	46.23	-88.26	48.12	961.61	8,436.41	8,356.72	79.69	105.866		
14,400.00	7,224.83	8,613.70	7,249.49	211.68	46.25	-88.28	47.36	961.61	8,536.41	8,456.62	79.78	106.997		
14,500.00	7,224.52	8,614.47	7,249.49	214.50	46.26	-88.29	46.59	961.61	8,636.40	8,556.53	79.87	108.125		
14,600.00	7,224.21	8,615.23	7,249.48	217.33	46.27	-88.30	45.83	961.61	8,736.40	8,656.43	79.97	109.248		
14,700.00	7,223.89	8,615.99	7,249.47	220.16	46.28	-88.31	45.07	961.61	8,836.40	8,756.33	80.06	110.368		
14,800.00	7,223.58	8,616.76	7,249.46	222.98	46.29	-88.33	44.30	961.61	8,936.39	8,856.24	80.16	111.484		
14,900.00	7,223.27	8,617.52	7,249.45	225.81	46.30	-88.34	43.54	961.61	9,036.39	8,956.14	80.25	112.596		
14,987.41	7,223.00	8,618.19	7,249.45	228.28	46.31	-88.35	42.87	961.61	9,123.80	9,043.46	80.34	113.565		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	1.00	0.00	3.28	3.28	0.46	139.89	1.11	139.90					
100.00	100.00	101.00	100.00	3.28	3.28	0.46	139.89	1.11	139.90	133.33	6.57	21.295		
200.00	200.00	201.00	200.00	3.34	3.34	0.46	139.89	1.11	139.90	133.22	6.67	20.959	CC, ES	
300.00	300.00	296.29	295.27	3.44	3.44	0.39	141.50	0.95	141.59	134.69	6.90	20.533		
400.00	400.00	391.41	390.27	3.60	3.59	0.19	146.25	0.47	146.58	139.35	7.23	20.276		
500.00	500.00	486.11	484.63	3.81	3.79	-0.12	154.10	-0.31	154.86	147.21	7.66	20.229		
600.00	600.00	580.19	578.07	4.05	4.01	-0.49	164.96	-1.40	166.41	158.26	8.16	20.405		
700.00	699.98	673.59	670.44	4.32	4.27	57.34	178.75	-2.79	180.29	171.59	8.71	20.710		
800.00	799.94	766.17	761.49	4.61	4.56	57.58	195.38	-4.46	196.70	187.40	9.30	21.147		
900.00	899.89	857.68	850.92	4.92	4.86	57.70	214.68	-6.40	216.25	206.33	9.92	21.796		
1,000.00	999.85	947.95	938.48	5.25	5.18	57.73	236.49	-8.59	238.89	228.32	10.57	22.601		
1,100.00	1,099.80	1,036.84	1,023.99	5.60	5.52	57.69	260.64	-11.01	264.55	253.32	11.23	23.562		
1,200.00	1,199.76	1,132.13	1,115.16	5.96	5.91	57.63	288.23	-13.78	291.99	280.08	11.91	24.507		
1,300.00	1,299.72	1,228.29	1,207.15	6.33	6.33	57.57	316.08	-16.58	319.45	306.82	12.63	25.289		
1,400.00	1,399.67	1,324.45	1,299.15	6.71	6.76	57.52	343.93	-19.37	346.91	333.53	13.37	25.942		
1,500.00	1,499.63	1,420.60	1,391.14	7.10	7.20	57.48	371.78	-22.17	374.36	360.23	14.13	26.488		
1,600.00	1,599.58	1,516.76	1,483.13	7.49	7.65	57.45	399.63	-24.96	401.82	386.91	14.91	26.947		
1,700.00	1,699.54	1,612.92	1,575.12	7.88	8.11	57.42	427.48	-27.76	429.28	413.58	15.70	27.336		
1,800.00	1,799.50	1,709.07	1,667.11	8.28	8.58	57.39	455.33	-30.56	456.74	440.23	16.51	27.666		
1,900.00	1,899.45	1,805.23	1,759.11	8.69	9.05	57.37	483.18	-33.35	484.20	466.87	17.32	27.949		
2,000.00	1,999.41	1,901.38	1,851.10	9.10	9.52	57.34	511.03	-36.15	511.66	493.51	18.15	28.192		
2,100.00	2,099.36	2,002.46	1,943.09	9.51	10.03	57.33	538.88	-38.94	539.12	520.11	19.00	28.368		
2,200.00	2,199.32	2,106.30	2,035.08	9.92	10.55	57.31	566.73	-41.74	566.57	546.69	19.88	28.499		
2,300.00	2,299.28	2,189.85	2,127.08	10.34	10.98	57.29	594.58	-44.54	594.03	573.37	20.67	28.743		
2,400.00	2,399.23	2,286.01	2,219.07	10.75	11.46	57.28	622.43	-47.33	621.49	599.97	21.52	28.882		
2,500.00	2,499.19	2,382.16	2,311.06	11.17	11.96	57.27	650.28	-50.13	648.95	626.58	22.37	29.005		
2,600.00	2,599.14	2,478.32	2,403.05	11.60	12.45	57.25	678.13	-52.92	676.41	653.18	23.23	29.113		
2,700.00	2,699.10	2,574.48	2,495.04	12.02	12.95	57.24	705.98	-55.72	703.87	679.77	24.10	29.208		
2,800.00	2,799.06	2,670.63	2,587.04	12.44	13.44	57.23	733.83	-58.52	731.33	706.36	24.97	29.293		
2,900.00	2,899.01	2,766.79	2,679.03	12.87	13.94	57.22	761.68	-61.31	758.79	732.95	25.84	29.369		
3,000.00	2,998.97	2,862.94	2,771.02	13.29	14.44	57.21	789.53	-64.11	786.25	759.54	26.71	29.437		
3,100.00	3,098.92	2,959.10	2,863.01	13.72	14.94	57.21	817.38	-66.90	813.71	786.12	27.59	29.498		
3,200.00	3,198.88	3,055.26	2,955.00	14.14	15.45	57.20	845.23	-69.70	841.17	812.70	28.46	29.553		
3,300.00	3,298.84	3,151.41	3,047.00	14.57	15.95	57.19	873.08	-72.50	868.62	839.28	29.34	29.602		
3,400.00	3,398.79	3,247.57	3,138.99	15.00	16.45	57.18	900.93	-75.29	896.08	865.86	30.23	29.647		
3,500.00	3,498.75	3,343.72	3,230.98	15.43	16.96	57.18	928.78	-78.09	923.54	892.43	31.11	29.687		
3,600.00	3,598.70	3,439.88	3,322.97	15.86	17.47	57.17	956.63	-80.88	951.00	919.01	31.99	29.724		
3,700.00	3,698.66	3,536.04	3,414.97	16.29	17.97	57.17	984.48	-83.68	978.46	945.58	32.88	29.757		
3,800.00	3,798.62	3,632.19	3,506.96	16.72	18.48	57.16	1,012.33	-86.48	1,005.92	972.15	33.77	29.788		
3,900.00	3,898.57	3,728.35	3,598.95	17.15	18.99	57.16	1,040.18	-89.27	1,033.38	998.72	34.66	29.816		
4,000.00	3,998.53	3,824.50	3,690.94	17.59	19.50	57.15	1,068.03	-92.07	1,060.84	1,025.29	35.55	29.841		
4,100.00	4,098.48	3,920.66	3,782.93	18.02	20.00	57.15	1,095.88	-94.86	1,088.30	1,051.86	36.44	29.865		
4,200.00	4,198.44	4,016.82	3,874.93	18.45	20.51	57.14	1,123.73	-97.66	1,115.76	1,078.42	37.33	29.886		
4,300.00	4,298.40	4,112.97	3,966.92	18.88	21.02	57.14	1,151.58	-100.46	1,143.22	1,104.99	38.23	29.906		
4,400.00	4,398.35	4,209.13	4,058.91	19.32	21.53	57.13	1,179.43	-103.25	1,170.68	1,131.55	39.12	29.924		
4,500.00	4,498.31	4,305.28	4,150.90	19.75	22.04	57.13	1,207.28	-106.05	1,198.14	1,158.12	40.02	29.941		
4,600.00	4,598.26	4,401.44	4,242.89	20.19	22.55	57.13	1,235.13	-108.84	1,225.59	1,184.68	40.91	29.956		
4,700.00	4,698.22	4,502.40	4,334.89	20.62	23.09	57.12	1,262.98	-111.64	1,253.05	1,211.22	41.83	29.953		
4,800.00	4,798.18	4,606.25	4,426.88	21.05	23.64	57.12	1,290.83	-114.44	1,280.51	1,237.74	42.77	29.940		
4,900.00	4,898.13	4,689.91	4,518.87	21.49	24.09	57.12	1,318.68	-117.23	1,307.97	1,264.37	43.61	29.996		
5,000.00	4,998.09	4,786.06	4,610.86	21.92	24.60	57.11	1,346.53	-120.03	1,335.43	1,290.93	44.50	30.007		
5,100.00	5,098.04	4,882.22	4,702.85	22.36	25.11	57.11	1,374.38	-122.82	1,362.89	1,317.49	45.40	30.017		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	5,198.00	4,978.38	4,794.85	22.79	25.62	57.11	1,402.23	-125.62	1,390.35	1,344.05	46.30	30.027		
5,300.00	5,297.96	5,074.53	4,886.84	23.23	26.14	57.10	1,430.08	-128.42	1,417.81	1,370.61	47.20	30.036		
5,400.00	5,397.91	5,170.69	4,978.83	23.67	26.65	57.10	1,457.93	-131.21	1,445.27	1,397.16	48.10	30.044		
5,500.00	5,497.87	5,266.84	5,070.82	24.10	27.16	57.10	1,485.78	-134.01	1,472.73	1,423.72	49.01	30.052		
5,600.00	5,597.82	5,363.00	5,162.82	24.54	27.67	57.10	1,513.63	-136.80	1,500.19	1,450.28	49.91	30.059		
5,700.00	5,697.78	5,536.41	5,329.73	24.97	28.57	57.11	1,560.32	-141.49	1,525.92	1,474.41	51.50	29.627		
5,800.00	5,797.74	5,747.10	5,535.84	25.41	29.59	57.16	1,603.55	-145.83	1,544.91	1,491.75	53.16	29.063		
5,900.00	5,897.69	5,962.66	5,749.43	25.85	30.52	57.27	1,632.07	-148.70	1,556.57	1,502.08	54.49	28.566		
6,000.00	5,997.65	6,180.76	5,967.13	26.28	31.37	57.43	1,644.58	-149.95	1,560.72	1,505.26	55.46	28.140		
6,100.00	6,097.60	6,311.25	6,097.60	26.72	31.84	57.55	1,645.13	-150.01	1,559.38	1,503.12	56.26	27.717		
6,200.00	6,197.56	6,411.20	6,197.56	27.16	32.19	57.64	1,645.13	-150.01	1,557.79	1,500.71	57.08	27.292		
6,300.00	6,297.52	6,511.16	6,297.52	27.59	32.55	57.73	1,645.13	-150.01	1,556.20	1,498.30	57.90	26.877		
6,400.00	6,397.47	6,611.11	6,397.47	28.03	32.91	57.82	1,645.13	-150.01	1,554.62	1,495.90	58.72	26.474		
6,500.00	6,497.43	6,711.07	6,497.43	28.47	33.27	57.91	1,645.13	-150.01	1,553.04	1,493.50	59.55	26.082		
6,600.00	6,597.38	6,811.03	6,597.38	28.90	33.63	58.01	1,645.13	-150.01	1,551.47	1,491.10	60.37	25.699		
6,700.00	6,697.08	6,912.59	6,697.08	29.34	34.00	58.10	1,645.10	-154.49	1,549.90	1,488.71	61.19	25.331		
6,800.00	6,794.63	7,014.99	6,799.04	29.79	34.36	58.19	1,644.94	-174.72	1,548.36	1,486.35	62.01	24.970		
6,900.00	6,887.62	7,117.66	6,895.02	30.24	34.71	58.28	1,644.66	-210.87	1,546.88	1,484.04	62.85	24.613		
7,000.00	6,973.77	7,220.53	6,984.11	30.70	35.04	58.37	1,644.26	-262.07	1,545.51	1,481.80	63.72	24.256		
7,100.00	7,050.94	7,323.51	7,063.89	31.20	35.33	58.46	1,643.75	-327.01	1,544.28	1,479.61	64.67	23.881		
7,200.00	7,117.24	7,426.54	7,132.19	31.77	35.61	58.55	1,643.15	-404.00	1,543.21	1,477.44	65.77	23.464		
7,300.00	7,171.03	7,529.53	7,187.17	32.46	35.90	58.64	1,642.47	-490.94	1,542.33	1,475.22	67.11	22.982		
7,400.00	7,211.00	7,632.40	7,227.40	33.29	36.34	58.73	1,641.73	-585.50	1,541.66	1,472.90	68.76	22.421		
7,500.00	7,236.16	7,735.07	7,251.85	34.29	37.10	58.82	1,640.95	-685.09	1,541.23	1,470.49	70.74	21.787		
7,600.00	7,245.89	7,837.47	7,260.00	35.43	38.13	58.91	1,640.15	-787.06	1,541.04	1,468.02	73.01	21.106		
7,700.00	7,245.73	7,937.51	7,259.62	36.72	39.35	59.00	1,639.37	-887.10	1,541.02	1,465.45	75.57	20.391		
7,800.00	7,245.42	8,037.51	7,259.24	38.18	40.74	59.09	1,638.59	-987.09	1,541.00	1,462.56	78.45	19.644		
7,900.00	7,245.10	8,137.51	7,258.86	39.80	42.28	59.18	1,637.80	-1,087.09	1,540.99	1,459.37	81.62	18.880		
8,000.00	7,244.79	8,237.51	7,258.48	41.54	43.96	59.27	1,637.02	-1,187.08	1,540.97	1,455.91	85.06	18.116		
8,100.00	7,244.48	8,337.51	7,258.11	43.41	45.75	59.36	1,636.24	-1,287.08	1,540.96	1,452.22	88.74	17.365		
8,200.00	7,244.17	8,437.51	7,257.73	45.38	47.65	59.45	1,635.46	-1,387.07	1,540.94	1,448.32	92.62	16.637		
8,300.00	7,243.86	8,537.51	7,257.35	47.44	49.64	59.54	1,634.68	-1,487.07	1,540.93	1,444.24	96.69	15.937		
8,400.00	7,243.55	8,637.51	7,256.97	49.58	51.71	59.63	1,633.89	-1,587.07	1,540.91	1,440.00	100.91	15.270		
8,500.00	7,243.23	8,737.51	7,256.59	51.78	53.86	59.72	1,633.11	-1,687.07	1,540.90	1,435.62	105.28	14.636		
8,600.00	7,242.92	8,837.51	7,256.21	54.05	56.07	59.81	1,632.33	-1,787.06	1,540.88	1,431.12	109.77	14.038		
8,700.00	7,242.61	8,937.51	7,255.83	56.37	58.33	59.90	1,631.55	-1,887.06	1,540.87	1,426.50	114.37	13.473		
8,800.00	7,242.30	9,037.51	7,255.45	58.74	60.65	59.99	1,630.77	-1,987.05	1,540.85	1,421.79	119.07	12.941		
8,900.00	7,241.99	9,137.51	7,255.07	61.16	63.01	59.99	1,629.98	-2,087.05	1,540.84	1,416.99	123.85	12.441		
9,000.00	7,241.67	9,237.51	7,254.69	63.61	65.41	59.99	1,629.20	-2,187.05	1,540.82	1,412.12	128.71	11.972		
9,100.00	7,241.36	9,337.51	7,254.31	66.09	67.85	59.99	1,628.42	-2,287.04	1,540.81	1,407.18	133.63	11.530		
9,200.00	7,241.05	9,437.51	7,253.93	68.60	70.31	59.99	1,627.64	-2,387.04	1,540.79	1,402.17	138.62	11.115		
9,300.00	7,240.74	9,537.51	7,253.55	71.13	72.81	59.99	1,626.86	-2,487.03	1,540.78	1,397.12	143.66	10.725		
9,400.00	7,240.43	9,637.51	7,253.17	73.70	75.33	59.99	1,626.07	-2,587.03	1,540.76	1,392.01	148.75	10.358		
9,500.00	7,240.11	9,737.51	7,252.79	76.28	77.88	59.99	1,625.29	-2,687.03	1,540.75	1,386.86	153.89	10.012		
9,600.00	7,239.80	9,837.51	7,252.41	78.88	80.45	59.99	1,624.51	-2,787.02	1,540.73	1,381.67	159.06	9.686		
9,700.00	7,239.49	9,937.51	7,252.03	81.50	83.03	59.99	1,623.73	-2,887.02	1,540.72	1,376.45	164.27	9.379		
9,800.00	7,239.18	10,037.51	7,251.65	84.13	85.63	59.99	1,622.95	-2,987.02	1,540.70	1,371.19	169.51	9.089		
9,900.00	7,238.87	10,137.51	7,251.27	86.78	88.25	59.99	1,622.16	-3,087.01	1,540.69	1,365.90	174.79	8.815		
10,000.00	7,238.55	10,237.51	7,250.89	89.44	90.88	59.99	1,621.38	-3,187.01	1,540.67	1,360.59	180.09	8.555		
10,100.00	7,238.24	10,337.51	7,250.51	92.11	93.53	59.99	1,620.60	-3,287.00	1,540.66	1,355.25	185.41	8.309		
10,200.00	7,237.93	10,437.51	7,250.14	94.80	96.19	59.99	1,619.82	-3,387.00	1,540.64	1,349.89	190.76	8.076		
10,300.00	7,237.62	10,537.51	7,249.76	97.49	98.86	59.99	1,619.04	-3,487.00	1,540.63	1,344.50	196.12	7.855		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 30C-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 Reference Offset (ft) (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,400.00	7,237.31	10,637.51	7,249.38	100.19	101.54	90.45		1,618.25	-3,586.99	1,540.61	1,339.10	201.51	7.645	
10,500.00	7,236.99	10,737.51	7,249.00	102.90	104.23	90.45		1,617.47	-3,686.99	1,540.60	1,333.68	206.92	7.446	
10,600.00	7,236.68	10,837.51	7,248.62	105.62	106.93	90.44		1,616.69	-3,786.99	1,540.58	1,328.25	212.34	7.255	
10,700.00	7,236.37	10,937.51	7,248.24	108.35	109.63	90.44		1,615.91	-3,886.98	1,540.57	1,322.80	217.77	7.074	
10,800.00	7,236.06	11,037.51	7,247.86	111.08	112.35	90.44		1,615.13	-3,986.98	1,540.55	1,317.33	223.22	6.901	
10,900.00	7,235.75	11,137.51	7,247.48	113.82	115.07	90.44		1,614.34	-4,086.97	1,540.54	1,311.85	228.69	6.736	
11,000.00	7,235.44	11,237.51	7,247.10	116.56	117.79	90.43		1,613.56	-4,186.97	1,540.52	1,306.36	234.16	6.579	
11,100.00	7,235.12	11,337.51	7,246.72	119.31	120.53	90.43		1,612.78	-4,286.97	1,540.51	1,300.86	239.65	6.428	
11,200.00	7,234.81	11,437.51	7,246.34	122.07	123.27	90.43		1,612.00	-4,386.96	1,540.49	1,295.35	245.15	6.284	
11,300.00	7,234.50	11,537.51	7,245.96	124.83	126.01	90.43		1,611.22	-4,486.96	1,540.48	1,289.83	250.65	6.146	
11,400.00	7,234.19	11,637.51	7,245.58	127.59	128.76	90.42		1,610.43	-4,586.96	1,540.46	1,284.30	256.17	6.013	
11,500.00	7,233.88	11,737.51	7,245.20	130.36	131.51	90.42		1,609.65	-4,686.95	1,540.45	1,278.76	261.69	5.886	
11,600.00	7,233.56	11,837.51	7,244.82	133.13	134.27	90.42		1,608.87	-4,786.95	1,540.43	1,273.21	267.23	5.765	
11,700.00	7,233.25	11,937.51	7,244.44	135.91	137.03	90.42		1,608.09	-4,886.94	1,540.42	1,267.65	272.77	5.647	
11,800.00	7,232.94	12,037.51	7,244.06	138.68	139.80	90.41		1,607.31	-4,986.94	1,540.40	1,262.09	278.31	5.535	
11,900.00	7,232.63	12,137.51	7,243.68	141.47	142.57	90.41		1,606.52	-5,086.94	1,540.39	1,256.52	283.87	5.426	
12,000.00	7,232.32	12,237.51	7,243.30	144.25	145.34	90.41		1,605.74	-5,186.93	1,540.37	1,250.95	289.43	5.322	
12,100.00	7,232.00	12,337.51	7,242.92	147.04	148.12	90.41		1,604.96	-5,286.93	1,540.36	1,245.37	294.99	5.222	
12,200.00	7,231.69	12,437.51	7,242.54	149.83	150.90	90.40		1,604.18	-5,386.92	1,540.35	1,239.78	300.57	5.125	
12,300.00	7,231.38	12,537.51	7,242.17	152.62	153.68	90.40		1,603.40	-5,486.92	1,540.33	1,234.19	306.14	5.031	
12,400.00	7,231.07	12,637.51	7,241.79	155.42	156.47	90.40		1,602.61	-5,586.92	1,540.32	1,228.59	311.73	4.941	
12,500.00	7,230.76	12,737.51	7,241.41	158.22	159.26	90.40		1,601.83	-5,686.91	1,540.30	1,222.99	317.31	4.854	
12,600.00	7,230.44	12,837.51	7,241.03	161.01	162.05	90.39		1,601.05	-5,786.91	1,540.29	1,217.38	322.91	4.770	
12,700.00	7,230.13	12,937.51	7,240.65	163.82	164.84	90.39		1,600.27	-5,886.91	1,540.27	1,211.77	328.50	4.689	
12,800.00	7,229.82	13,037.51	7,240.27	166.62	167.63	90.39		1,599.49	-5,986.90	1,540.26	1,206.15	334.10	4.610	
12,900.00	7,229.51	13,137.51	7,239.89	169.43	170.43	90.39		1,598.70	-6,086.90	1,540.24	1,200.53	339.71	4.534	
13,000.00	7,229.20	13,237.51	7,239.51	172.23	173.23	90.38		1,597.92	-6,186.89	1,540.23	1,194.91	345.31	4.460	
13,100.00	7,228.88	13,337.51	7,239.13	175.04	176.03	90.38		1,597.14	-6,286.89	1,540.21	1,189.29	350.93	4.389	
13,200.00	7,228.57	13,437.51	7,238.75	177.85	178.83	90.38		1,596.36	-6,386.89	1,540.20	1,183.66	356.54	4.320	
13,300.00	7,228.26	13,537.51	7,238.37	180.66	181.64	90.38		1,595.58	-6,486.88	1,540.18	1,178.02	362.16	4.253	
13,400.00	7,227.95	13,637.51	7,237.99	183.48	184.44	90.37		1,594.79	-6,586.88	1,540.17	1,172.39	367.78	4.188	
13,500.00	7,227.64	13,737.51	7,237.61	186.29	187.25	90.37		1,594.01	-6,686.88	1,540.15	1,166.75	373.40	4.125	
13,600.00	7,227.33	13,837.51	7,237.23	189.11	190.06	90.37		1,593.23	-6,786.87	1,540.14	1,161.11	379.03	4.063	
13,700.00	7,227.01	13,937.51	7,236.85	191.92	192.87	90.37		1,592.45	-6,886.87	1,540.12	1,155.46	384.66	4.004	
13,800.00	7,226.70	14,037.51	7,236.47	194.74	195.68	90.36		1,591.67	-6,986.86	1,540.11	1,149.82	390.29	3.946	
13,900.00	7,226.39	14,137.51	7,236.09	197.56	198.49	90.36		1,590.88	-7,086.86	1,540.09	1,144.17	395.92	3.890	
14,000.00	7,226.08	14,237.51	7,235.71	200.38	201.31	90.36		1,590.10	-7,186.86	1,540.08	1,138.52	401.56	3.835	
14,100.00	7,225.77	14,337.51	7,235.33	203.21	204.12	90.36		1,589.32	-7,286.85	1,540.06	1,132.86	407.20	3.782	
14,200.00	7,225.45	14,437.51	7,234.95	206.03	206.94	90.35		1,588.54	-7,386.85	1,540.05	1,127.21	412.84	3.730	
14,300.00	7,225.14	14,537.51	7,234.58	208.85	209.76	90.35		1,587.76	-7,486.84	1,540.03	1,121.55	418.48	3.680	
14,400.00	7,224.83	14,637.51	7,234.20	211.68	212.58	90.35		1,586.97	-7,586.84	1,540.02	1,115.89	424.13	3.631	
14,500.00	7,224.52	14,737.51	7,233.82	214.50	215.40	90.35		1,586.19	-7,686.84	1,540.00	1,110.23	429.78	3.583	
14,600.00	7,224.21	14,837.51	7,233.44	217.33	218.22	90.34		1,585.41	-7,786.83	1,539.99	1,104.56	435.42	3.537	
14,700.00	7,223.89	14,937.51	7,233.06	220.16	221.04	90.34		1,584.63	-7,886.83	1,539.97	1,098.90	441.07	3.491	
14,800.00	7,223.58	15,037.51	7,232.68	222.98	223.86	90.34		1,583.85	-7,986.83	1,539.96	1,093.23	446.73	3.447	
14,900.00	7,223.27	15,137.51	7,232.30	225.81	226.69	90.34		1,583.06	-8,086.82	1,539.94	1,087.56	452.38	3.404	
14,978.15	7,223.03	15,215.66	7,232.00	228.02	228.90	90.33		1,582.45	-8,164.97	1,539.93	1,083.13	456.80	3.371	
14,987.41	7,223.00	15,216.01	7,232.00	228.28	228.91	90.33		1,582.45	-8,165.32	1,539.96	1,082.86	457.10	3.369 SF	



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	1.00	0.00	3.28	3.28	0.53	120.22	1.11	120.23					
100.00	100.00	101.00	100.00	3.28	3.28	0.53	120.22	1.11	120.23	113.66	6.57	18.301		
200.00	200.00	201.00	200.00	3.34	3.34	0.53	120.22	1.11	120.23	113.56	6.67	18.012		
300.00	300.00	301.00	300.00	3.44	3.45	0.53	120.22	1.11	120.23	113.34	6.89	17.447 CC, ES		
400.00	400.00	396.93	395.91	3.60	3.60	0.43	121.85	0.90	121.92	114.71	7.21	16.909		
500.00	500.00	492.69	491.54	3.81	3.79	0.13	126.65	0.29	126.93	119.30	7.63	16.640		
600.00	600.00	588.01	586.53	4.05	4.02	-0.31	134.57	-0.73	135.25	127.12	8.12	16.648		
700.00	699.98	682.82	680.68	4.32	4.29	57.55	145.56	-2.13	145.94	137.26	8.67	16.826		
800.00	799.94	776.96	773.76	4.61	4.57	57.79	159.52	-3.92	159.21	149.94	9.27	17.176		
900.00	899.89	875.23	865.29	4.92	4.89	57.86	176.29	-6.07	175.69	165.77	9.91	17.720		
1,000.00	999.85	968.38	961.67	5.25	5.21	57.86	195.66	-8.55	193.84	183.30	10.54	18.394		
1,100.00	1,099.80	1,066.72	1,058.05	5.60	5.57	57.85	215.03	-11.04	211.99	200.76	11.22	18.886		
1,200.00	1,199.76	1,165.06	1,154.43	5.96	5.95	57.85	234.40	-13.52	230.14	218.20	11.93	19.283		
1,300.00	1,299.72	1,263.40	1,250.81	6.33	6.34	57.85	253.76	-16.00	248.29	235.62	12.67	19.599		
1,400.00	1,399.67	1,361.74	1,347.20	6.71	6.74	57.85	273.13	-18.48	266.44	253.02	13.42	19.851		
1,500.00	1,499.63	1,460.08	1,443.58	7.10	7.16	57.85	292.50	-20.96	284.59	270.40	14.19	20.052		
1,600.00	1,599.58	1,558.42	1,539.96	7.49	7.58	57.85	311.87	-23.45	302.74	287.77	14.98	20.213		
1,700.00	1,699.54	1,656.76	1,636.34	7.88	8.00	57.85	331.23	-25.93	320.89	305.12	15.77	20.343		
1,800.00	1,799.50	1,755.10	1,732.72	8.28	8.44	57.85	350.60	-28.41	339.05	322.46	16.58	20.448		
1,900.00	1,899.45	1,853.43	1,829.10	8.69	8.87	57.84	369.97	-30.89	357.20	339.80	17.40	20.532		
2,000.00	1,999.41	1,951.77	1,925.48	9.10	9.31	57.84	389.34	-33.37	375.35	357.13	18.22	20.600		
2,100.00	2,099.36	2,050.11	2,021.86	9.51	9.76	57.84	408.71	-35.85	393.50	374.45	19.05	20.655		
2,200.00	2,199.32	2,148.45	2,118.24	9.92	10.20	57.84	428.07	-38.34	411.65	391.76	19.89	20.699		
2,300.00	2,299.28	2,246.79	2,214.62	10.34	10.65	57.84	447.44	-40.82	429.80	409.07	20.73	20.735		
2,400.00	2,399.23	2,345.13	2,311.00	10.75	11.10	57.84	466.81	-43.30	447.95	426.38	21.57	20.763		
2,500.00	2,499.19	2,443.47	2,407.38	11.17	11.56	57.84	486.18	-45.78	466.10	443.68	22.42	20.786		
2,600.00	2,599.14	2,541.81	2,503.77	11.60	12.01	57.84	505.54	-48.26	484.25	460.98	23.28	20.804		
2,700.00	2,699.10	2,640.15	2,600.15	12.02	12.47	57.84	524.91	-50.75	502.40	478.27	24.13	20.817		
2,800.00	2,799.06	2,738.48	2,696.53	12.44	12.93	57.84	544.28	-53.23	520.56	495.56	24.99	20.828		
2,900.00	2,899.01	2,836.82	2,792.91	12.87	13.39	57.84	563.65	-55.71	538.71	512.85	25.86	20.835		
3,000.00	2,998.97	2,935.16	2,889.29	13.29	13.85	57.84	583.01	-58.19	556.86	530.14	26.72	20.841		
3,100.00	3,098.92	3,033.50	2,985.67	13.72	14.31	57.84	602.38	-60.67	575.01	547.42	27.59	20.844		
3,200.00	3,198.88	3,131.84	3,082.05	14.14	14.77	57.84	621.75	-63.15	593.16	564.71	28.45	20.846		
3,300.00	3,298.84	3,230.18	3,178.43	14.57	15.23	57.84	641.12	-65.64	611.31	581.99	29.32	20.846		
3,400.00	3,398.79	3,328.52	3,274.81	15.00	15.70	57.84	660.49	-68.12	629.46	599.27	30.20	20.845		
3,500.00	3,498.75	3,426.86	3,371.19	15.43	16.16	57.84	679.85	-70.60	647.61	616.54	31.07	20.844		
3,600.00	3,598.70	3,525.20	3,467.57	15.86	16.63	57.84	699.22	-73.08	665.76	633.82	31.94	20.841		
3,700.00	3,698.66	3,623.53	3,563.96	16.29	17.10	57.84	718.59	-75.56	683.92	651.09	32.82	20.838		
3,800.00	3,798.62	3,721.87	3,660.34	16.72	17.56	57.84	737.96	-78.05	702.07	668.37	33.70	20.834		
3,900.00	3,898.57	3,820.21	3,756.72	17.15	18.03	57.84	757.32	-80.53	720.22	685.64	34.58	20.830		
4,000.00	3,998.53	3,918.55	3,853.10	17.59	18.50	57.84	776.69	-83.01	738.37	702.91	35.45	20.826		
4,100.00	4,098.48	4,016.89	3,949.48	18.02	18.96	57.84	796.06	-85.49	756.52	720.18	36.33	20.821		
4,200.00	4,198.44	4,115.23	4,045.86	18.45	19.43	57.84	815.43	-87.97	774.67	737.45	37.22	20.816		
4,300.00	4,298.40	4,213.57	4,142.24	18.88	19.90	57.84	834.79	-90.46	792.82	754.72	38.10	20.811		
4,400.00	4,398.35	4,311.91	4,238.62	19.32	20.37	57.84	854.16	-92.94	810.97	771.99	38.98	20.805		
4,500.00	4,498.31	4,410.25	4,335.00	19.75	20.84	57.84	873.53	-95.42	829.12	789.26	39.86	20.800		
4,600.00	4,598.26	4,508.58	4,431.38	20.19	21.31	57.84	892.90	-97.90	847.27	806.53	40.75	20.794		
4,700.00	4,698.22	4,606.92	4,527.76	20.62	21.78	57.84	912.27	-100.38	865.43	823.79	41.63	20.788		
4,800.00	4,798.18	4,705.26	4,624.15	21.05	22.25	57.84	931.63	-102.86	883.58	841.06	42.52	20.782		
4,900.00	4,898.13	4,803.60	4,720.53	21.49	22.72	57.84	951.00	-105.35	901.73	858.33	43.40	20.777		
5,000.00	4,998.09	4,901.94	4,816.91	21.92	23.19	57.84	970.37	-107.83	919.88	875.59	44.29	20.771		
5,100.00	5,098.04	5,000.28	4,913.29	22.36	23.66	57.84	989.74	-110.31	938.03	892.86	45.17	20.765		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	5,198.00	5,101.38	5,009.67	22.79	24.15	57.84	1,009.10	-112.79	956.18	910.11	46.07	20.754		
5,300.00	5,297.96	5,203.04	5,106.05	23.23	24.63	57.84	1,028.47	-115.27	974.33	927.36	46.98	20.741		
5,400.00	5,397.91	5,304.70	5,202.43	23.67	25.12	57.84	1,047.84	-117.76	992.48	944.60	47.88	20.729		
5,500.00	5,497.87	5,406.37	5,298.81	24.10	25.61	57.84	1,067.21	-120.24	1,010.63	961.85	48.78	20.717		
5,600.00	5,597.82	5,508.03	5,395.19	24.54	26.10	57.84	1,086.57	-122.72	1,028.78	979.10	49.69	20.705		
5,700.00	5,697.78	5,609.69	5,491.57	24.97	26.59	57.84	1,105.94	-125.20	1,046.94	996.34	50.59	20.694		
5,800.00	5,797.74	5,688.65	5,587.95	25.41	26.96	57.84	1,125.31	-127.68	1,065.09	1,013.70	51.39	20.726		
5,900.00	5,897.69	5,786.99	5,684.33	25.85	27.44	57.84	1,144.68	-130.16	1,083.24	1,030.96	52.28	20.720		
6,000.00	5,997.65	5,885.33	5,780.72	26.28	27.91	57.84	1,164.05	-132.65	1,101.39	1,048.22	53.17	20.715		
6,100.00	6,097.60	5,983.67	5,877.10	26.72	28.38	57.84	1,183.41	-135.13	1,119.54	1,065.48	54.06	20.710		
6,200.00	6,197.56	6,082.01	5,973.48	27.16	28.85	57.84	1,202.78	-137.61	1,137.69	1,082.74	54.95	20.704		
6,300.00	6,297.52	6,180.35	6,069.86	27.59	29.33	57.84	1,222.15	-140.09	1,155.84	1,100.00	55.84	20.699		
6,400.00	6,397.47	6,278.68	6,166.24	28.03	29.80	57.84	1,241.52	-142.57	1,173.99	1,117.26	56.73	20.694		
6,500.00	6,497.43	6,377.02	6,262.62	28.47	30.27	57.84	1,260.88	-145.06	1,192.14	1,134.52	57.62	20.689		
6,600.00	6,597.38	6,475.36	6,359.00	28.90	30.75	57.84	1,280.25	-147.54	1,210.30	1,151.78	58.51	20.684		
6,700.00	6,697.08	6,573.55	6,455.23	29.34	31.22	82.68	1,299.59	-150.02	1,228.45	1,169.04	59.41	20.678		
6,800.00	6,794.63	6,674.34	6,553.52	29.79	31.70	85.10	1,319.29	-152.49	1,246.38	1,186.04	60.34	20.655		
6,900.00	6,887.62	6,777.57	6,651.40	30.24	32.19	85.15	1,338.80	-154.92	1,263.62	1,202.30	61.32	20.607		
7,000.00	6,973.77	6,863.22	6,746.00	30.70	32.67	84.74	1,357.53	-157.27	1,279.71	1,217.37	62.34	20.528		
7,100.00	7,050.94	6,941.37	6,834.30	31.20	33.13	84.21	1,374.87	-159.62	1,294.24	1,230.81	63.43	20.403		
7,200.00	7,117.24	7,101.95	6,913.04	31.77	33.61	83.69	1,390.18	-161.94	1,306.82	1,242.15	64.67	20.209		
7,300.00	7,171.03	7,214.72	6,978.88	32.46	34.18	83.23	1,402.79	-164.44	1,317.07	1,250.94	66.13	19.916		
7,400.00	7,211.00	7,329.27	7,028.69	33.29	34.95	82.87	1,412.10	-166.99	1,324.72	1,256.81	67.91	19.507		
7,500.00	7,236.16	7,445.00	7,059.94	34.29	35.98	82.60	1,417.61	-169.12	1,329.53	1,259.50	70.04	18.983		
7,600.00	7,245.89	7,561.21	7,070.99	35.43	37.25	82.45	1,419.03	-171.64	1,331.37	1,258.89	72.48	18.368		
7,700.00	7,245.73	7,662.00	7,070.73	36.72	38.53	82.45	1,418.28	-174.43	1,331.40	1,256.33	75.08	17.734		
7,800.00	7,245.42	7,762.00	7,070.45	38.18	39.95	82.45	1,417.53	-177.42	1,331.41	1,253.44	77.98	17.075		
7,900.00	7,245.10	7,862.00	7,070.16	39.80	41.52	82.45	1,416.77	-180.42	1,331.43	1,250.26	81.17	16.403		
8,000.00	7,244.79	7,962.00	7,069.88	41.54	43.23	82.45	1,416.02	-183.42	1,331.44	1,246.82	84.62	15.734		
8,100.00	7,244.48	8,062.00	7,069.59	43.41	45.05	82.45	1,415.27	-186.41	1,331.45	1,243.14	88.31	15.078		
8,200.00	7,244.17	8,162.00	7,069.31	45.38	46.98	82.45	1,414.52	-189.41	1,331.46	1,239.27	92.19	14.442		
8,300.00	7,243.86	8,262.00	7,069.02	47.44	48.99	82.45	1,413.76	-192.41	1,331.47	1,235.22	96.26	13.833		
8,400.00	7,243.55	8,362.00	7,068.74	49.58	51.09	82.46	1,413.01	-195.40	1,331.48	1,231.01	100.48	13.252		
8,500.00	7,243.23	8,462.00	7,068.45	51.78	53.26	82.46	1,412.26	-198.40	1,331.49	1,226.66	104.83	12.701		
8,600.00	7,242.92	8,562.00	7,068.17	54.05	55.50	82.46	1,411.51	-201.40	1,331.51	1,222.19	109.31	12.181		
8,700.00	7,242.61	8,662.00	7,067.88	56.37	57.79	82.46	1,410.75	-204.39	1,331.52	1,217.62	113.90	11.690		
8,800.00	7,242.30	8,762.00	7,067.60	58.74	60.12	82.46	1,410.00	-207.39	1,331.53	1,212.95	118.58	11.229		
8,900.00	7,241.99	8,862.00	7,067.31	61.16	62.51	82.46	1,409.25	-210.39	1,331.54	1,208.20	123.34	10.795		
9,000.00	7,241.67	8,962.00	7,067.03	63.61	64.92	82.46	1,408.50	-213.38	1,331.55	1,203.37	128.18	10.388		
9,100.00	7,241.36	9,062.00	7,066.75	66.09	67.38	82.46	1,407.74	-216.38	1,331.56	1,198.48	133.08	10.005		
9,200.00	7,241.05	9,162.00	7,066.46	68.60	69.86	82.47	1,406.99	-219.38	1,331.57	1,193.53	138.05	9.646		
9,300.00	7,240.74	9,262.00	7,066.18	71.13	72.38	82.47	1,406.24	-222.37	1,331.59	1,188.52	143.06	9.308		
9,400.00	7,240.43	9,362.00	7,065.89	73.70	74.91	82.47	1,405.49	-225.37	1,331.60	1,183.47	148.13	8.990		
9,500.00	7,240.11	9,462.00	7,065.61	76.28	77.47	82.47	1,404.73	-228.37	1,331.61	1,178.37	153.23	8.690		
9,600.00	7,239.80	9,562.00	7,065.32	78.88	80.05	82.47	1,403.98	-231.36	1,331.62	1,173.24	158.38	8.408		
9,700.00	7,239.49	9,662.00	7,065.04	81.50	82.65	82.47	1,403.23	-234.36	1,331.63	1,168.07	163.56	8.142		
9,800.00	7,239.18	9,762.00	7,064.75	84.13	85.27	82.47	1,402.48	-237.36	1,331.64	1,162.87	168.77	7.890		
9,900.00	7,238.87	9,862.00	7,064.47	86.78	87.90	82.47	1,401.72	-240.36	1,331.65	1,157.64	174.01	7.653		
10,000.00	7,238.55	9,962.00	7,064.18	89.44	90.54	82.48	1,400.97	-243.35	1,331.67	1,152.38	179.28	7.428		
10,100.00	7,238.24	10,062.00	7,063.90	92.11	93.20	82.48	1,400.22	-246.35	1,331.68	1,147.10	184.57	7.215		
10,200.00	7,237.93	10,162.00	7,063.61	94.80	95.87	82.48	1,399.47	-249.34	1,331.69	1,141.80	189.89	7.013		
10,300.00	7,237.62	10,262.00	7,063.33	97.49	98.55	82.48	1,398.71	-252.34	1,331.70	1,136.48	195.22	6.821		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	7,237.31	10,362.00	7,063.04	100.19	101.24	82.48	1,397.96	-3,584.34	1,331.71	1,131.14	200.58	6.639		
10,500.00	7,236.99	10,462.00	7,062.76	102.90	103.93	82.48	1,397.21	-3,684.33	1,331.72	1,125.78	205.95	6.466		
10,600.00	7,236.68	10,562.00	7,062.47	105.62	106.64	82.48	1,396.46	-3,784.33	1,331.73	1,120.40	211.33	6.302		
10,700.00	7,236.37	10,662.00	7,062.19	108.35	109.35	82.48	1,395.71	-3,884.33	1,331.75	1,115.01	216.73	6.145		
10,800.00	7,236.06	10,762.00	7,061.90	111.08	112.08	82.49	1,394.95	-3,984.32	1,331.76	1,109.61	222.15	5.995		
10,900.00	7,235.75	10,862.00	7,061.62	113.82	114.80	82.49	1,394.20	-4,084.32	1,331.77	1,104.19	227.58	5.852		
11,000.00	7,235.44	10,962.00	7,061.33	116.56	117.54	82.49	1,393.45	-4,184.32	1,331.78	1,098.76	233.02	5.715		
11,100.00	7,235.12	11,062.00	7,061.05	119.31	120.28	82.49	1,392.70	-4,284.31	1,331.79	1,093.32	238.47	5.585		
11,200.00	7,234.81	11,162.00	7,060.77	122.07	123.02	82.49	1,391.94	-4,384.31	1,331.80	1,087.88	243.93	5.460		
11,300.00	7,234.50	11,262.00	7,060.48	124.83	125.77	82.49	1,391.19	-4,484.31	1,331.82	1,082.42	249.40	5.340		
11,400.00	7,234.19	11,362.00	7,060.20	127.59	128.53	82.49	1,390.44	-4,584.31	1,331.83	1,076.95	254.88	5.225		
11,500.00	7,233.88	11,462.00	7,059.91	130.36	131.29	82.49	1,389.69	-4,684.30	1,331.84	1,071.47	260.37	5.115		
11,600.00	7,233.56	11,562.00	7,059.63	133.13	134.05	82.50	1,388.93	-4,784.30	1,331.85	1,065.99	265.86	5.010		
11,700.00	7,233.25	11,662.00	7,059.34	135.91	136.82	82.50	1,388.18	-4,884.30	1,331.86	1,060.50	271.37	4.908		
11,800.00	7,232.94	11,762.00	7,059.06	138.68	139.59	82.50	1,387.43	-4,984.29	1,331.87	1,055.00	276.88	4.810		
11,900.00	7,232.63	11,862.00	7,058.77	141.47	142.36	82.50	1,386.68	-5,084.29	1,331.88	1,049.49	282.39	4.716		
12,000.00	7,232.32	11,962.00	7,058.49	144.25	145.14	82.50	1,385.92	-5,184.29	1,331.90	1,043.98	287.92	4.626		
12,100.00	7,232.00	12,062.00	7,058.20	147.04	147.92	82.50	1,385.17	-5,284.28	1,331.91	1,038.46	293.44	4.539		
12,200.00	7,231.69	12,162.00	7,057.92	149.83	150.71	82.50	1,384.42	-5,384.28	1,331.92	1,032.94	298.98	4.455		
12,300.00	7,231.38	12,262.00	7,057.63	152.62	153.49	82.50	1,383.67	-5,484.28	1,331.93	1,027.41	304.52	4.374		
12,400.00	7,231.07	12,362.00	7,057.35	155.42	156.28	82.51	1,382.91	-5,584.27	1,331.94	1,021.88	310.06	4.296		
12,500.00	7,230.76	12,462.00	7,057.06	158.22	159.07	82.51	1,382.16	-5,684.27	1,331.95	1,016.34	315.61	4.220		
12,600.00	7,230.44	12,562.00	7,056.78	161.01	161.87	82.51	1,381.41	-5,784.27	1,331.96	1,010.80	321.17	4.147		
12,700.00	7,230.13	12,662.00	7,056.49	163.82	164.66	82.51	1,380.66	-5,884.26	1,331.98	1,005.25	326.72	4.077		
12,800.00	7,229.82	12,762.00	7,056.21	166.62	167.46	82.51	1,379.90	-5,984.26	1,331.99	999.70	332.29	4.009		
12,900.00	7,229.51	12,862.00	7,055.92	169.43	170.26	82.51	1,379.15	-6,084.26	1,332.00	994.15	337.85	3.943		
13,000.00	7,229.20	12,962.00	7,055.64	172.23	173.07	82.51	1,378.40	-6,184.25	1,332.01	988.59	343.42	3.879		
13,100.00	7,228.88	13,062.00	7,055.35	175.04	175.87	82.51	1,377.65	-6,284.25	1,332.02	983.03	349.00	3.817		
13,200.00	7,228.57	13,162.00	7,055.07	177.85	178.68	82.52	1,376.89	-6,384.25	1,332.03	977.46	354.57	3.757		
13,300.00	7,228.26	13,262.00	7,054.79	180.66	181.48	82.52	1,376.14	-6,484.24	1,332.04	971.89	360.15	3.699		
13,400.00	7,227.95	13,362.00	7,054.50	183.48	184.29	82.52	1,375.39	-6,584.24	1,332.06	966.32	365.73	3.642		
13,500.00	7,227.64	13,462.00	7,054.22	186.29	187.10	82.52	1,374.64	-6,684.24	1,332.07	960.75	371.32	3.587		
13,600.00	7,227.33	13,562.00	7,053.93	189.11	189.91	82.52	1,373.88	-6,784.23	1,332.08	955.17	376.91	3.534		
13,700.00	7,227.01	13,662.00	7,053.65	191.92	192.73	82.52	1,373.13	-6,884.23	1,332.09	949.59	382.50	3.483		
13,800.00	7,226.70	13,762.00	7,053.36	194.74	195.54	82.52	1,372.38	-6,984.23	1,332.10	944.01	388.09	3.432		
13,900.00	7,226.39	13,862.00	7,053.08	197.56	198.36	82.52	1,371.63	-7,084.22	1,332.11	938.43	393.69	3.384		
14,000.00	7,226.08	13,962.00	7,052.79	200.38	201.17	82.53	1,370.87	-7,184.22	1,332.12	932.84	399.28	3.336		
14,100.00	7,225.77	14,062.00	7,052.51	203.21	203.99	82.53	1,370.12	-7,284.22	1,332.14	927.25	404.88	3.290		
14,200.00	7,225.45	14,162.00	7,052.22	206.03	206.81	82.53	1,369.37	-7,384.21	1,332.15	921.66	410.49	3.245		
14,300.00	7,225.14	14,262.00	7,051.94	208.85	209.63	82.53	1,368.62	-7,484.21	1,332.16	916.07	416.09	3.202		
14,400.00	7,224.83	14,362.00	7,051.65	211.68	212.45	82.53	1,367.86	-7,584.21	1,332.17	910.47	421.70	3.159		
14,500.00	7,224.52	14,462.00	7,051.37	214.50	215.28	82.53	1,367.11	-7,684.20	1,332.18	904.88	427.31	3.118		
14,600.00	7,224.21	14,562.00	7,051.08	217.33	218.10	82.53	1,366.36	-7,784.20	1,332.19	899.28	432.92	3.077		
14,700.00	7,223.89	14,662.00	7,050.80	220.16	220.92	82.53	1,365.61	-7,884.20	1,332.21	893.68	438.53	3.038		
14,800.00	7,223.58	14,762.00	7,050.51	222.98	223.75	82.54	1,364.85	-7,984.20	1,332.22	888.08	444.14	3.000		
14,900.00	7,223.27	14,862.00	7,050.23	225.81	226.57	82.54	1,364.10	-8,084.19	1,332.23	882.47	449.76	2.962		
14,906.06	7,223.25	14,868.06	7,050.21	225.98	226.75	82.54	1,364.06	-8,090.25	1,332.23	882.13	450.10	2.960		
14,987.41	7,223.00	14,942.37	7,050.00	228.28	228.85	82.54	1,363.50	-8,164.56	1,332.26	877.77	454.49	2.931 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	0.00	0.00	3.28	3.28	0.40	40.07	0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	0.40	40.07	0.28	40.07	33.51	6.57	6.100		
200.00	200.00	200.00	200.00	3.34	3.34	0.40	40.07	0.28	40.07	33.40	6.67	6.005		
300.00	300.00	300.00	300.00	3.44	3.44	0.40	40.07	0.28	40.07	33.18	6.89	5.817		
400.00	400.00	400.00	400.00	3.60	3.60	0.40	40.07	0.28	40.07	32.87	7.21	5.561		
500.00	500.00	500.00	500.00	3.81	3.81	0.40	40.07	0.28	40.07	32.46	7.61	5.265		
600.00	600.00	600.00	600.00	4.05	4.05	0.40	40.07	0.28	40.07	31.98	8.09	4.952 CC		
700.00	699.98	698.72	698.70	4.32	4.31	59.46	41.64	-0.38	40.77	32.14	8.63	4.723		
800.00	799.94	802.52	797.32	4.61	4.63	60.01	46.33	-2.36	43.96	34.72	9.24	4.757		
900.00	899.89	902.62	897.01	4.92	4.94	59.78	52.36	-4.91	48.42	38.55	9.87	4.905		
1,000.00	999.85	1,002.72	996.69	5.25	5.28	59.59	58.40	-7.46	52.89	42.35	10.54	5.018		
1,100.00	1,099.80	1,102.82	1,096.38	5.60	5.63	59.43	64.43	-10.01	57.36	46.12	11.24	5.104		
1,200.00	1,199.76	1,202.92	1,196.06	5.96	6.00	59.29	70.47	-12.56	61.83	49.87	11.96	5.169		
1,300.00	1,299.72	1,303.02	1,295.75	6.33	6.37	59.17	76.50	-15.11	66.30	53.59	12.70	5.219		
1,400.00	1,399.67	1,403.12	1,395.43	6.71	6.75	59.06	82.54	-17.66	70.77	57.30	13.46	5.256		
1,500.00	1,499.63	1,496.78	1,495.12	7.10	7.12	58.97	88.57	-20.21	75.24	61.02	14.21	5.294		
1,600.00	1,599.58	1,603.32	1,594.80	7.49	7.54	58.89	94.61	-22.76	79.71	64.68	15.02	5.305		
1,700.00	1,699.54	1,703.42	1,694.49	7.88	7.94	58.81	100.64	-25.31	84.18	68.36	15.82	5.321		
1,800.00	1,799.50	1,796.48	1,794.17	8.28	8.31	58.75	106.68	-27.85	88.65	72.05	16.60	5.341		
1,900.00	1,899.45	1,903.62	1,893.86	8.69	8.75	58.69	112.71	-30.40	93.12	75.68	17.44	5.340		
2,000.00	1,999.41	2,003.72	1,993.54	9.10	9.16	58.63	118.75	-32.95	97.59	79.33	18.26	5.345		
2,100.00	2,099.36	2,103.82	2,093.23	9.51	9.58	58.58	124.78	-35.50	102.06	82.97	19.08	5.349		
2,200.00	2,199.32	2,196.08	2,192.91	9.92	9.96	58.54	130.82	-38.05	106.53	86.65	19.88	5.359		
2,300.00	2,299.28	2,304.02	2,292.60	10.34	10.41	58.50	136.85	-40.60	111.00	90.25	20.75	5.350		
2,400.00	2,399.23	2,404.12	2,392.28	10.75	10.83	58.46	142.88	-43.15	115.47	93.88	21.58	5.350		
2,500.00	2,499.19	2,504.22	2,491.97	11.17	11.26	58.42	148.92	-45.70	119.94	97.51	22.43	5.348		
2,600.00	2,599.14	2,604.32	2,591.65	11.60	11.68	58.39	154.95	-48.25	124.41	101.14	23.27	5.346		
2,700.00	2,699.10	2,704.42	2,691.34	12.02	12.11	58.36	160.99	-50.80	128.88	104.76	24.12	5.344		
2,800.00	2,799.06	2,804.52	2,791.02	12.44	12.53	58.33	167.02	-53.35	133.35	108.38	24.97	5.341		
2,900.00	2,899.01	2,904.62	2,890.71	12.87	12.96	58.30	173.06	-55.89	137.82	112.00	25.82	5.338		
3,000.00	2,998.97	3,004.72	2,990.39	13.29	13.39	58.28	179.09	-58.44	142.29	115.62	26.67	5.335		
3,100.00	3,098.92	3,104.82	3,090.08	13.72	13.82	58.25	185.13	-60.99	146.76	119.23	27.53	5.331		
3,200.00	3,198.88	3,204.92	3,189.76	14.14	14.25	58.23	191.16	-63.54	151.23	122.84	28.39	5.327		
3,300.00	3,298.84	3,305.02	3,289.45	14.57	14.68	58.21	197.20	-66.09	155.70	126.46	29.25	5.324		
3,400.00	3,398.79	3,405.12	3,389.13	15.00	15.11	58.19	203.23	-68.64	160.17	130.07	30.11	5.320		
3,500.00	3,498.75	3,505.22	3,488.82	15.43	15.55	58.17	209.27	-71.19	164.64	133.67	30.97	5.316		
3,600.00	3,598.70	3,605.32	3,588.50	15.86	15.98	58.15	215.30	-73.74	169.11	137.28	31.83	5.313		
3,700.00	3,698.66	3,705.42	3,688.19	16.29	16.41	58.14	221.34	-76.29	173.58	140.89	32.70	5.309		
3,800.00	3,798.62	3,805.52	3,787.87	16.72	16.85	58.12	227.37	-78.84	178.05	144.49	33.56	5.305		
3,900.00	3,898.57	3,905.62	3,887.56	17.15	17.28	58.11	233.41	-81.39	182.53	148.10	34.43	5.302		
4,000.00	3,998.53	4,005.72	3,987.24	17.59	17.72	58.09	239.44	-83.93	187.00	151.70	35.29	5.298		
4,100.00	4,098.48	4,105.82	4,086.93	18.02	18.15	58.08	245.48	-86.48	191.47	155.31	36.16	5.295		
4,200.00	4,198.44	4,194.08	4,186.61	18.45	18.54	58.06	251.51	-89.03	195.94	158.96	36.98	5.299		
4,300.00	4,298.40	4,306.02	4,286.30	18.88	19.03	58.05	257.55	-91.58	200.41	162.51	37.90	5.288		
4,400.00	4,398.35	4,406.12	4,385.98	19.32	19.46	58.04	263.58	-94.13	204.88	166.11	38.77	5.285		
4,500.00	4,498.31	4,506.22	4,485.67	19.75	19.90	58.03	269.62	-96.68	209.35	169.71	39.64	5.281		
4,600.00	4,598.26	4,606.32	4,585.35	20.19	20.34	58.02	275.65	-99.23	213.82	173.31	40.51	5.278		
4,700.00	4,698.22	4,706.42	4,685.04	20.62	20.77	58.01	281.69	-101.78	218.29	176.91	41.38	5.275		
4,800.00	4,798.18	4,806.52	4,784.72	21.05	21.21	58.00	287.72	-104.33	222.76	180.51	42.25	5.272		
4,900.00	4,898.13	4,906.62	4,884.41	21.49	21.65	57.99	293.76	-106.88	227.23	184.11	43.13	5.269		
5,000.00	4,998.09	5,006.72	4,984.09	21.92	22.09	57.98	299.79	-109.43	231.70	187.71	44.00	5.266		
5,100.00	5,098.04	5,106.82	5,083.78	22.36	22.52	57.97	305.83	-111.97	236.17	191.30	44.87	5.263		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
5,200.00	5,198.00	5,206.92	5,183.46	22.79	22.96	57.96	311.86	-114.52	240.65	194.90	45.75	5.261		
5,300.00	5,297.96	5,307.02	5,283.15	23.23	23.40	57.95	317.90	-117.07	245.12	198.50	46.62	5.258		
5,400.00	5,397.91	5,407.12	5,382.83	23.67	23.84	57.94	323.93	-119.62	249.59	202.09	47.49	5.255		
5,500.00	5,497.87	5,492.78	5,482.52	24.10	24.22	57.94	329.97	-122.17	254.06	205.75	48.30	5.260		
5,600.00	5,597.82	5,607.32	5,582.20	24.54	24.72	57.93	336.00	-124.72	258.53	209.29	49.24	5.250		
5,700.00	5,697.78	5,707.42	5,681.89	24.97	25.16	57.92	342.04	-127.27	263.00	212.88	50.12	5.248		
5,800.00	5,797.74	5,792.48	5,781.57	25.41	25.53	57.91	348.07	-129.82	267.47	216.54	50.93	5.252		
5,900.00	5,897.69	5,907.62	5,881.26	25.85	26.04	57.91	354.11	-132.37	271.94	220.07	51.87	5.243		
6,000.00	5,997.65	6,007.72	5,980.94	26.28	26.48	57.90	360.14	-134.92	276.41	223.67	52.75	5.241		
6,100.00	6,097.60	6,107.82	6,080.63	26.72	26.92	57.89	366.18	-137.47	280.88	227.26	53.62	5.238		
6,200.00	6,197.56	6,207.92	6,180.31	27.16	27.36	57.89	372.21	-140.02	285.35	230.86	54.50	5.236		
6,300.00	6,297.52	6,308.02	6,280.00	27.59	27.80	57.88	378.25	-142.56	289.83	234.45	55.37	5.234		
6,400.00	6,397.47	6,408.12	6,379.68	28.03	28.24	57.88	384.28	-145.11	294.30	238.04	56.25	5.232		
6,500.00	6,497.43	6,508.22	6,479.37	28.47	28.68	57.87	390.32	-147.66	298.77	241.64	57.13	5.230		
6,600.00	6,597.38	6,591.68	6,579.05	28.90	29.04	57.86	396.35	-150.21	303.24	245.31	57.93	5.234		
6,700.00	6,697.08	6,691.49	6,678.57	29.34	29.48	83.88	402.38	-154.33	307.74	248.93	58.81	5.233		
6,800.00	6,794.63	6,791.68	6,776.95	29.79	29.93	87.70	408.43	-171.71	312.40	252.69	59.70	5.232		
6,900.00	6,887.62	6,892.54	6,872.00	30.24	30.37	89.07	414.36	-204.59	317.10	256.49	60.61	5.232		
7,000.00	6,973.77	6,994.07	6,961.24	30.70	30.83	89.85	420.03	-252.44	321.74	260.19	61.55	5.228		
7,100.00	7,050.94	7,096.25	7,042.25	31.20	31.33	90.36	425.29	-314.32	326.18	263.64	62.54	5.215		
7,200.00	7,117.24	7,199.04	7,112.71	31.77	31.90	90.72	429.98	-388.86	330.31	266.64	63.67	5.188		
7,300.00	7,171.03	7,302.38	7,170.57	32.46	32.58	90.96	433.98	-474.25	334.01	268.99	65.02	5.137		
7,400.00	7,211.00	7,406.18	7,214.04	33.29	33.43	91.12	437.16	-568.34	337.17	270.49	66.68	5.057		
7,500.00	7,236.16	7,510.36	7,241.76	34.29	34.46	91.19	439.42	-668.61	339.71	271.04	68.68	4.947		
7,600.00	7,245.89	7,614.78	7,252.81	35.43	35.65	91.18	440.70	-772.32	341.56	270.57	70.98	4.812		
7,700.00	7,245.73	7,715.54	7,252.69	36.72	36.95	91.16	441.29	-873.07	342.90	269.33	73.57	4.661		
7,800.00	7,245.42	7,815.53	7,252.33	38.18	38.41	91.15	441.86	-973.06	344.24	267.75	76.49	4.501		
7,900.00	7,245.10	7,915.52	7,251.96	39.80	40.01	91.13	442.42	-1,073.05	345.57	265.86	79.71	4.335		
8,000.00	7,244.79	8,015.51	7,251.60	41.54	41.75	91.12	442.99	-1,173.04	346.90	263.71	83.20	4.170		
8,100.00	7,244.48	8,115.50	7,251.23	43.41	43.61	91.11	443.56	-1,273.03	348.24	261.31	86.92	4.006		
8,200.00	7,244.17	8,215.49	7,250.86	45.38	45.58	91.09	444.12	-1,373.02	349.57	258.71	90.86	3.847		
8,300.00	7,243.86	8,315.48	7,250.50	47.44	47.63	91.08	444.69	-1,473.01	350.90	255.93	94.97	3.695		
8,400.00	7,243.55	8,415.48	7,250.13	49.58	49.76	91.07	445.26	-1,573.00	352.24	252.99	99.25	3.549		
8,500.00	7,243.23	8,515.47	7,249.76	51.78	51.97	91.06	445.82	-1,672.98	353.57	249.91	103.66	3.411		
8,600.00	7,242.92	8,615.46	7,249.40	54.05	54.23	91.04	446.39	-1,772.97	354.90	246.71	108.20	3.280		
8,700.00	7,242.61	8,715.45	7,249.03	56.37	56.56	91.03	446.96	-1,872.96	356.24	243.40	112.84	3.157		
8,800.00	7,242.30	8,815.44	7,248.67	58.74	58.92	91.02	447.52	-1,972.95	357.57	239.99	117.58	3.041		
8,900.00	7,241.99	8,915.43	7,248.30	61.16	61.33	91.01	448.09	-2,072.94	358.90	236.50	122.40	2.932		
9,000.00	7,241.67	9,015.42	7,247.93	63.61	63.78	90.99	448.66	-2,172.93	360.24	232.94	127.30	2.830		
9,100.00	7,241.36	9,115.41	7,247.57	66.09	66.26	90.98	449.22	-2,272.92	361.57	229.31	132.26	2.734		
9,200.00	7,241.05	9,215.40	7,247.20	68.60	68.77	90.97	449.79	-2,372.91	362.90	225.62	137.28	2.643		
9,300.00	7,240.74	9,315.40	7,246.84	71.13	71.31	90.96	450.36	-2,472.90	364.24	221.88	142.36	2.559		
9,400.00	7,240.43	9,415.39	7,246.47	73.70	73.87	90.94	450.92	-2,572.88	365.57	218.09	147.48	2.479		
9,500.00	7,240.11	9,515.38	7,246.10	76.28	76.45	90.93	451.49	-2,672.87	366.90	214.26	152.65	2.404		
9,600.00	7,239.80	9,615.37	7,245.74	78.88	79.05	90.92	452.06	-2,772.86	368.24	210.39	157.85	2.333		
9,700.00	7,239.49	9,715.36	7,245.37	81.50	81.67	90.91	452.62	-2,872.85	369.57	206.48	163.09	2.266		
9,800.00	7,239.18	9,815.35	7,245.00	84.13	84.31	90.90	453.19	-2,972.84	370.90	202.55	168.36	2.203		
9,900.00	7,238.87	9,915.34	7,244.64	86.78	86.95	90.89	453.76	-3,072.83	372.24	198.58	173.65	2.144		
10,000.00	7,238.55	10,015.33	7,244.27	89.44	89.62	90.87	454.33	-3,172.82	373.57	194.59	178.98	2.087		
10,100.00	7,238.24	10,115.32	7,243.91	92.11	92.29	90.86	454.89	-3,272.81	374.90	190.58	184.33	2.034		
10,200.00	7,237.93	10,215.32	7,243.54	94.80	94.98	90.85	455.46	-3,372.79	376.24	186.54	189.69	1.983		
10,300.00	7,237.62	10,315.31	7,243.17	97.49	97.67	90.84	456.03	-3,472.78	377.57	182.49	195.08	1.935		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	7,237.31	10,415.30	7,242.81	100.19	100.37	90.83	456.59	-3,572.77	378.90	178.41	200.49	1.890		
10,500.00	7,236.99	10,515.29	7,242.44	102.90	103.09	90.82	457.16	-3,672.76	380.24	174.32	205.92	1.847		
10,600.00	7,236.68	10,615.28	7,242.07	105.62	105.81	90.81	457.73	-3,772.75	381.57	170.21	211.36	1.805		
10,700.00	7,236.37	10,715.27	7,241.71	108.35	108.54	90.80	458.29	-3,872.74	382.90	166.09	216.81	1.766		
10,800.00	7,236.06	10,815.26	7,241.34	111.08	111.27	90.79	458.86	-3,972.73	384.24	161.96	222.28	1.729		
10,900.00	7,235.75	10,915.25	7,240.98	113.82	114.01	90.77	459.43	-4,072.72	385.57	157.81	227.76	1.693		
11,000.00	7,235.44	11,015.24	7,240.61	116.56	116.76	90.76	459.99	-4,172.70	386.90	153.65	233.25	1.659		
11,100.00	7,235.12	11,115.23	7,240.24	119.31	119.51	90.75	460.56	-4,272.69	388.24	149.48	238.75	1.626		
11,200.00	7,234.81	11,215.23	7,239.88	122.07	122.27	90.74	461.13	-4,372.68	389.57	145.31	244.27	1.595		
11,300.00	7,234.50	11,315.22	7,239.51	124.83	125.03	90.73	461.69	-4,472.67	390.91	141.12	249.79	1.565		
11,400.00	7,234.19	11,415.21	7,239.15	127.59	127.80	90.72	462.26	-4,572.66	392.24	136.92	255.32	1.536		
11,500.00	7,233.88	11,515.20	7,238.78	130.36	130.57	90.71	462.83	-4,672.65	393.57	132.71	260.86	1.509		
11,600.00	7,233.56	11,615.19	7,238.41	133.13	133.34	90.70	463.39	-4,772.64	394.91	128.50	266.41	1.482 Level 3		
11,700.00	7,233.25	11,715.18	7,238.05	135.91	136.12	90.69	463.96	-4,872.63	396.24	124.28	271.96	1.457 Level 3		
11,800.00	7,232.94	11,815.17	7,237.68	138.68	138.90	90.68	464.53	-4,972.62	397.57	120.05	277.52	1.433 Level 3		
11,900.00	7,232.63	11,915.16	7,237.31	141.47	141.69	90.67	465.09	-5,072.60	398.91	115.82	283.09	1.409 Level 3		
12,000.00	7,232.32	12,015.15	7,236.95	144.25	144.47	90.66	465.66	-5,172.59	400.24	111.58	288.66	1.387 Level 3		
12,100.00	7,232.00	12,115.15	7,236.58	147.04	147.27	90.65	466.23	-5,272.58	401.57	107.34	294.24	1.365 Level 3		
12,200.00	7,231.69	12,215.14	7,236.22	149.83	150.06	90.64	466.80	-5,372.57	402.91	103.09	299.82	1.344 Level 3		
12,300.00	7,231.38	12,315.13	7,235.85	152.62	152.85	90.63	467.36	-5,472.56	404.24	98.83	305.41	1.324 Level 3		
12,400.00	7,231.07	12,415.12	7,235.48	155.42	155.65	90.62	467.93	-5,572.55	405.58	94.57	311.01	1.304 Level 3		
12,500.00	7,230.76	12,515.11	7,235.12	158.22	158.45	90.61	468.50	-5,672.54	406.91	90.30	316.60	1.285 Level 3		
12,600.00	7,230.44	12,615.10	7,234.75	161.01	161.26	90.60	469.06	-5,772.53	408.24	86.04	322.21	1.267 Level 3		
12,700.00	7,230.13	12,715.09	7,234.39	163.82	164.06	90.59	469.63	-5,872.51	409.58	81.76	327.81	1.249 Level 2		
12,800.00	7,229.82	12,815.08	7,234.02	166.62	166.87	90.58	470.20	-5,972.50	410.91	77.49	333.43	1.232 Level 2		
12,900.00	7,229.51	12,915.07	7,233.65	169.43	169.68	90.57	470.76	-6,072.49	412.24	73.20	339.04	1.216 Level 2		
13,000.00	7,229.20	13,015.07	7,233.29	172.23	172.49	90.56	471.33	-6,172.48	413.58	68.92	344.66	1.200 Level 2		
13,100.00	7,228.88	13,115.06	7,232.92	175.04	175.30	90.56	471.90	-6,272.47	414.91	64.63	350.28	1.185 Level 2		
13,200.00	7,228.57	13,215.05	7,232.55	177.85	178.11	90.55	472.46	-6,372.46	416.25	60.34	355.90	1.170 Level 2		
13,300.00	7,228.26	13,315.04	7,232.19	180.66	180.93	90.54	473.03	-6,472.45	417.58	56.05	361.53	1.155 Level 2		
13,400.00	7,227.95	13,415.03	7,231.82	183.48	183.74	90.53	473.60	-6,572.44	418.91	51.75	367.16	1.141 Level 2		
13,500.00	7,227.64	13,515.02	7,231.46	186.29	186.56	90.52	474.16	-6,672.43	420.25	47.45	372.79	1.127 Level 2		
13,600.00	7,227.33	13,615.01	7,231.09	189.11	189.38	90.51	474.73	-6,772.41	421.58	43.15	378.43	1.114 Level 2		
13,700.00	7,227.01	13,715.00	7,230.72	191.92	192.20	90.50	475.30	-6,872.40	422.92	38.85	384.07	1.101 Level 2		
13,800.00	7,226.70	13,814.99	7,230.36	194.74	195.02	90.49	475.86	-6,972.39	424.25	34.54	389.71	1.089 Level 2		
13,900.00	7,226.39	13,914.99	7,229.99	197.56	197.85	90.48	476.43	-7,072.38	425.58	30.23	395.35	1.076 Level 2		
14,000.00	7,226.08	14,014.98	7,229.63	200.38	200.67	90.47	477.00	-7,172.37	426.92	25.92	401.00	1.065 Level 2		
14,100.00	7,225.77	14,114.97	7,229.26	203.21	203.50	90.47	477.57	-7,272.36	428.25	21.61	406.65	1.053 Level 2		
14,200.00	7,225.45	14,214.96	7,228.89	206.03	206.32	90.46	478.13	-7,372.35	429.59	17.29	412.29	1.042 Level 2		
14,300.00	7,225.14	14,314.95	7,228.53	208.85	209.15	90.45	478.70	-7,472.34	430.92	12.97	417.95	1.031 Level 2		
14,400.00	7,224.83	14,414.94	7,228.16	211.68	211.98	90.44	479.27	-7,572.32	432.25	8.65	423.60	1.020 Level 2		
14,500.00	7,224.52	14,514.93	7,227.79	214.50	214.81	90.43	479.83	-7,672.31	433.59	4.33	429.25	1.010 Level 2		
14,600.00	7,224.21	14,614.92	7,227.43	217.33	217.64	90.42	480.40	-7,772.30	434.92	0.01	434.91	1.000 Level 2		
14,700.00	7,223.89	14,714.91	7,227.06	220.16	220.47	90.41	480.97	-7,872.29	436.26	-4.31	440.57	0.990 Level 1		
14,800.00	7,223.58	14,814.90	7,226.70	222.98	223.30	90.41	481.53	-7,972.28	437.59	-8.64	446.23	0.981 Level 1		
14,900.00	7,223.27	14,914.90	7,226.33	225.81	226.13	90.40	482.10	-8,072.27	438.92	-12.97	451.89	0.971 Level 1		
14,987.41	7,223.00	15,002.30	7,226.01	228.28	228.61	90.39	482.60	-8,159.67	440.09	-16.75	456.84	0.963 Level 1, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
0.00	0.00	1.00	0.00	3.28	3.28	-179.51	-259.75	-2.23	259.76					
100.00	100.00	101.00	100.00	3.28	3.28	-179.51	-259.75	-2.23	259.76	253.19	6.57	39.540		
200.00	200.00	199.00	200.00	3.34	3.34	-179.51	-259.75	-2.23	259.76	253.09	6.67	38.926	CC, ES	
300.00	300.00	290.76	291.74	3.44	3.43	-179.49	-261.19	-2.34	261.33	254.44	6.88	37.970		
400.00	400.00	382.25	383.13	3.60	3.56	-179.42	-265.53	-2.71	266.08	258.88	7.20	36.974		
500.00	500.00	473.37	473.96	3.81	3.74	-179.31	-272.74	-3.31	274.00	266.40	7.60	36.050		
600.00	600.00	563.94	563.96	4.05	3.94	-179.16	-282.76	-4.14	285.08	277.00	8.08	35.290		
700.00	699.98	653.66	652.76	4.32	4.18	-121.03	-295.48	-5.20	300.14	291.53	8.61	34.848		
800.00	799.94	742.32	740.09	4.61	4.45	-121.25	-310.76	-6.47	318.91	309.73	9.18	34.728		
900.00	899.89	829.87	825.81	4.92	4.74	-121.41	-328.48	-7.94	340.69	330.90	9.78	34.828		
1,000.00	999.85	916.17	909.73	5.25	5.06	-121.52	-348.50	-9.61	365.41	355.01	10.40	35.133		
1,100.00	1,099.80	1,002.36	992.91	5.60	5.41	-121.58	-370.98	-11.47	392.99	381.95	11.04	35.611		
1,200.00	1,199.76	1,101.85	1,085.07	5.96	5.83	-121.63	-397.03	-13.64	421.69	409.96	11.73	35.961		
1,300.00	1,299.72	1,193.94	1,177.23	6.33	6.24	-121.68	-423.08	-15.81	450.39	437.97	12.42	36.269		
1,400.00	1,399.67	1,289.73	1,269.38	6.71	6.68	-121.71	-449.12	-17.97	479.09	465.94	13.15	36.439		
1,500.00	1,499.63	1,385.53	1,361.54	7.10	7.13	-121.75	-475.17	-20.14	507.79	493.90	13.90	36.538		
1,600.00	1,599.58	1,481.32	1,453.70	7.49	7.60	-121.78	-501.22	-22.31	536.49	521.83	14.66	36.584		
1,700.00	1,699.54	1,577.11	1,545.86	7.88	8.07	-121.81	-527.27	-24.47	565.20	549.75	15.45	36.590		
1,800.00	1,799.50	1,672.90	1,638.01	8.28	8.54	-121.83	-553.32	-26.64	593.90	577.66	16.24	36.568		
1,900.00	1,899.45	1,768.69	1,730.17	8.69	9.03	-121.85	-579.37	-28.80	622.60	605.56	17.05	36.526		
2,000.00	1,999.41	1,864.49	1,822.33	9.10	9.52	-121.87	-605.42	-30.97	651.30	633.44	17.86	36.468		
2,100.00	2,099.36	1,960.28	1,914.48	9.51	10.01	-121.89	-631.46	-33.14	680.01	661.32	18.68	36.399		
2,200.00	2,199.32	2,056.07	2,006.64	9.92	10.51	-121.91	-657.51	-35.30	708.71	689.20	19.51	36.323		
2,300.00	2,299.28	2,151.86	2,098.80	10.34	11.01	-121.92	-683.56	-37.47	737.41	717.06	20.35	36.243		
2,400.00	2,399.23	2,247.66	2,190.96	10.75	11.51	-121.94	-709.61	-39.64	766.11	744.93	21.19	36.160		
2,500.00	2,499.19	2,343.45	2,283.11	11.17	12.01	-121.95	-735.66	-41.80	794.81	772.78	22.03	36.075		
2,600.00	2,599.14	2,439.24	2,375.27	11.60	12.52	-121.96	-761.71	-43.97	823.52	800.63	22.88	35.989		
2,700.00	2,699.10	2,535.03	2,467.43	12.02	13.03	-121.97	-787.76	-46.14	852.22	828.48	23.74	35.905		
2,800.00	2,799.06	2,630.82	2,559.58	12.44	13.54	-121.99	-813.81	-48.30	880.92	856.33	24.59	35.821		
2,900.00	2,899.01	2,726.62	2,651.74	12.87	14.05	-122.00	-839.85	-50.47	909.62	884.17	25.45	35.738		
3,000.00	2,998.97	2,822.41	2,743.90	13.29	14.56	-122.01	-865.90	-52.63	938.33	912.01	26.32	35.657		
3,100.00	3,098.92	2,918.20	2,836.05	13.72	15.08	-122.01	-891.95	-54.80	967.03	939.85	27.18	35.578		
3,200.00	3,198.88	3,013.99	2,928.21	14.14	15.59	-122.02	-918.00	-56.97	995.73	967.68	28.05	35.501		
3,300.00	3,298.84	3,109.79	3,020.37	14.57	16.11	-122.03	-944.05	-59.13	1,024.43	995.52	28.92	35.426		
3,400.00	3,398.79	3,205.58	3,112.53	15.00	16.63	-122.04	-970.10	-61.30	1,053.14	1,023.35	29.79	35.353		
3,500.00	3,498.75	3,301.37	3,204.68	15.43	17.14	-122.05	-996.15	-63.47	1,081.84	1,051.18	30.66	35.282		
3,600.00	3,598.70	3,402.84	3,296.84	15.86	17.69	-122.05	-1,022.19	-65.63	1,110.54	1,078.98	31.57	35.183		
3,700.00	3,698.66	3,507.05	3,389.00	16.29	18.26	-122.06	-1,048.24	-67.80	1,139.25	1,106.76	32.48	35.073		
3,800.00	3,798.62	3,588.75	3,481.15	16.72	18.70	-122.07	-1,074.29	-69.96	1,167.95	1,134.66	33.29	35.083		
3,900.00	3,898.57	3,684.54	3,573.31	17.15	19.22	-122.07	-1,100.34	-72.13	1,196.65	1,162.48	34.17	35.020		
4,000.00	3,998.53	3,780.33	3,665.47	17.59	19.74	-122.08	-1,126.39	-74.30	1,225.35	1,190.30	35.05	34.960		
4,100.00	4,098.48	3,876.12	3,757.62	18.02	20.26	-122.08	-1,152.44	-76.46	1,254.06	1,218.12	35.93	34.901		
4,200.00	4,198.44	3,971.91	3,849.78	18.45	20.78	-122.09	-1,178.49	-78.63	1,282.76	1,245.95	36.81	34.845		
4,300.00	4,298.40	4,067.71	3,941.94	18.88	21.31	-122.09	-1,204.53	-80.80	1,311.46	1,273.77	37.70	34.790		
4,400.00	4,398.35	4,163.50	4,034.10	19.32	21.83	-122.10	-1,230.58	-82.96	1,340.16	1,301.58	38.58	34.737		
4,500.00	4,498.31	4,259.29	4,126.25	19.75	22.35	-122.10	-1,256.63	-85.13	1,368.87	1,329.40	39.47	34.685		
4,600.00	4,598.26	4,355.08	4,218.41	20.19	22.88	-122.11	-1,282.68	-87.29	1,397.57	1,357.22	40.35	34.635		
4,700.00	4,698.22	4,450.88	4,310.57	20.62	23.40	-122.11	-1,308.73	-89.46	1,426.27	1,385.04	41.24	34.587		
4,800.00	4,798.18	4,546.67	4,402.72	21.05	23.92	-122.11	-1,334.78	-91.63	1,454.98	1,412.85	42.12	34.540		
4,900.00	4,898.13	4,642.46	4,494.88	21.49	24.45	-122.12	-1,360.83	-93.79	1,483.68	1,440.67	43.01	34.495		
5,000.00	4,998.09	4,738.25	4,587.04	21.92	24.97	-122.12	-1,386.87	-95.96	1,512.38	1,468.48	43.90	34.451		
5,100.00	5,098.04	4,834.04	4,679.20	22.36	25.50	-122.12	-1,412.92	-98.13	1,541.08	1,496.30	44.79	34.408		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
5,200.00	5,198.00	4,929.84	4,771.35	22.79	26.02	-122.13	-1,438.97	-100.29	1,569.79	1,524.11	45.68	34.366		
5,300.00	5,297.96	5,025.63	4,863.51	23.23	26.55	-122.13	-1,465.02	-102.46	1,598.49	1,551.92	46.57	34.326		
5,400.00	5,397.91	5,121.42	4,955.67	23.67	27.07	-122.13	-1,491.07	-104.62	1,627.19	1,579.73	47.46	34.287		
5,500.00	5,497.87	5,217.21	5,047.82	24.10	27.60	-122.14	-1,517.12	-106.79	1,655.90	1,607.55	48.35	34.249		
5,600.00	5,597.82	5,313.01	5,139.98	24.54	28.12	-122.14	-1,543.17	-108.96	1,684.60	1,635.36	49.24	34.212		
5,700.00	5,697.78	5,408.80	5,232.14	24.97	28.65	-122.14	-1,569.22	-111.12	1,713.30	1,663.17	50.13	34.176		
5,800.00	5,797.74	5,504.59	5,324.29	25.41	29.17	-122.15	-1,595.26	-113.29	1,742.00	1,690.98	51.02	34.141		
5,900.00	5,897.69	5,600.38	5,416.45	25.85	29.70	-122.15	-1,621.31	-115.46	1,770.71	1,718.79	51.92	34.107		
6,000.00	5,997.65	5,696.17	5,508.61	26.28	30.22	-122.15	-1,647.36	-117.62	1,799.41	1,746.60	52.81	34.074		
6,100.00	6,097.60	5,791.97	5,600.77	26.72	30.75	-122.15	-1,673.41	-119.79	1,828.11	1,774.41	53.70	34.041		
6,200.00	6,197.56	5,887.76	5,692.92	27.16	31.28	-122.16	-1,699.46	-121.95	1,856.82	1,802.22	54.60	34.010		
6,300.00	6,297.52	5,983.55	5,785.08	27.59	31.80	-122.16	-1,725.51	-124.12	1,885.52	1,830.03	55.49	33.979		
6,400.00	6,397.47	6,079.34	5,877.24	28.03	32.33	-122.16	-1,751.56	-126.29	1,914.22	1,857.84	56.38	33.949		
6,500.00	6,497.43	6,175.13	5,969.39	28.47	32.86	-122.16	-1,777.60	-128.45	1,942.92	1,885.64	57.28	33.920		
6,600.00	6,597.38	6,270.93	6,061.55	28.90	33.38	-122.16	-1,803.65	-130.62	1,971.63	1,913.45	58.17	33.892		
6,700.00	6,697.08	6,366.58	6,153.57	29.34	33.91	-94.50	-1,829.66	-132.78	2,000.27	1,941.20	59.07	33.862		
6,800.00	6,794.63	6,460.53	6,243.96	29.79	34.43	-88.94	-1,855.21	-134.91	2,028.46	1,968.49	59.97	33.824		
6,900.00	6,887.62	6,550.49	6,330.51	30.24	34.92	-86.26	-1,879.67	-136.94	2,055.91	1,995.05	60.86	33.781		
7,000.00	6,973.77	6,634.24	6,411.08	30.70	35.38	-84.46	-1,902.45	-138.84	2,082.66	2,020.92	61.74	33.733		
7,100.00	7,050.94	6,709.71	6,483.68	31.20	35.80	-83.08	-1,922.97	-140.54	2,108.93	2,046.31	62.62	33.679		
7,200.00	7,117.24	6,775.05	6,546.55	31.77	36.16	-81.84	-1,940.74	-142.02	2,135.08	2,071.56	63.52	33.612		
7,300.00	7,171.03	6,828.65	6,598.11	32.46	36.45	-80.54	-1,955.31	-143.23	2,161.46	2,096.98	64.48	33.522		
7,400.00	7,211.00	6,869.19	6,637.11	33.29	36.67	-79.01	-1,966.34	-144.15	2,188.33	2,122.82	65.51	33.406		
7,500.00	7,236.16	6,940.25	6,705.35	34.29	37.06	-78.31	-1,985.64	-148.14	2,215.66	2,148.64	67.02	33.059		
7,600.00	7,245.89	7,400.00	7,090.85	35.43	39.10	-86.17	-2,096.07	-351.95	2,241.06	2,170.19	70.87	31.622		
7,700.00	7,245.73	7,951.73	7,249.53	36.72	41.23	-90.10	-2,144.73	-861.92	2,243.23	2,167.27	75.96	29.531		
7,800.00	7,245.42	8,051.73	7,248.94	38.18	42.14	-90.09	-2,145.32	-961.92	2,243.05	2,164.31	78.74	28.486		
7,900.00	7,245.10	8,151.73	7,248.34	39.80	43.32	-90.08	-2,145.90	-1,061.91	2,242.86	2,161.03	81.83	27.409		
8,000.00	7,244.79	8,251.73	7,247.74	41.54	44.72	-90.08	-2,146.48	-1,161.91	2,242.68	2,157.49	85.19	26.326		
8,100.00	7,244.48	8,351.73	7,247.15	43.41	46.31	-90.07	-2,147.07	-1,261.90	2,242.50	2,153.71	88.79	25.256		
8,200.00	7,244.17	8,451.73	7,246.55	45.38	48.05	-90.06	-2,147.65	-1,361.90	2,242.31	2,149.71	92.60	24.214		
8,300.00	7,243.86	8,551.73	7,245.96	47.44	49.91	-90.05	-2,148.23	-1,461.89	2,242.13	2,145.52	96.60	23.209		
8,400.00	7,243.55	8,651.73	7,245.36	49.58	51.88	-90.05	-2,148.82	-1,561.89	2,241.94	2,141.17	100.77	22.248		
8,500.00	7,243.23	8,751.73	7,244.77	51.78	53.93	-90.04	-2,149.40	-1,661.89	2,241.76	2,136.68	105.08	21.333		
8,600.00	7,242.92	8,851.72	7,244.17	54.05	56.05	-90.03	-2,149.99	-1,761.88	2,241.58	2,132.05	109.53	20.466		
8,700.00	7,242.61	8,951.72	7,243.57	56.37	58.25	-90.02	-2,150.57	-1,861.88	2,241.39	2,127.31	114.08	19.647		
8,800.00	7,242.30	9,051.72	7,242.98	58.74	60.50	-90.02	-2,151.15	-1,961.87	2,241.21	2,122.47	118.74	18.876		
8,900.00	7,241.99	9,151.72	7,242.38	61.16	62.80	-90.01	-2,151.74	-2,061.87	2,241.02	2,117.54	123.48	18.149		
9,000.00	7,241.67	9,251.72	7,241.79	63.61	65.15	-90.00	-2,152.32	-2,161.87	2,240.84	2,112.54	128.30	17.465		
9,100.00	7,241.36	9,351.72	7,241.19	66.09	67.54	-90.00	-2,152.90	-2,261.86	2,240.66	2,107.46	133.20	16.822		
9,200.00	7,241.05	9,451.72	7,240.59	68.60	69.96	-89.99	-2,153.49	-2,361.86	2,240.47	2,102.31	138.16	16.217		
9,300.00	7,240.74	9,551.72	7,240.00	71.13	72.42	-89.98	-2,154.07	-2,461.85	2,240.29	2,097.12	143.17	15.648		
9,400.00	7,240.43	9,651.72	7,239.40	73.70	74.91	-89.97	-2,154.66	-2,561.85	2,240.10	2,091.87	148.24	15.112		
9,500.00	7,240.11	9,751.72	7,238.81	76.28	77.42	-89.97	-2,155.24	-2,661.85	2,239.92	2,086.57	153.35	14.607		
9,600.00	7,239.80	9,851.72	7,238.21	78.88	79.96	-89.96	-2,155.82	-2,761.84	2,239.74	2,081.24	158.50	14.131		
9,700.00	7,239.49	9,951.72	7,237.61	81.50	82.51	-89.95	-2,156.41	-2,861.84	2,239.55	2,075.86	163.69	13.682		
9,800.00	7,239.18	10,051.72	7,237.02	84.13	85.09	-89.95	-2,156.99	-2,961.83	2,239.37	2,070.45	168.92	13.257		
9,900.00	7,238.87	10,151.72	7,236.42	86.78	87.69	-89.94	-2,157.57	-3,061.83	2,239.19	2,065.02	174.17	12.856		
10,000.00	7,238.55	10,251.72	7,235.83	89.44	90.30	-89.93	-2,158.16	-3,161.83	2,239.00	2,059.55	179.45	12.477		
10,100.00	7,238.24	10,351.72	7,235.23	92.11	92.92	-89.92	-2,158.74	-3,261.82	2,238.82	2,054.06	184.76	12.117		
10,200.00	7,237.93	10,451.72	7,234.64	94.80	95.56	-89.92	-2,159.33	-3,361.82	2,238.64	2,048.54	190.10	11.776		
10,300.00	7,237.62	10,551.71	7,234.04	97.49	98.21	-89.91	-2,159.91	-3,461.81	2,238.45	2,043.00	195.45	11.453		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	
10,400.00	7,237.31	10,651.71	7,233.44	100.19	100.88	-89.90	-2,160.49	-3,561.81	2,238.27	2,037.44	200.83	11.145	
10,500.00	7,236.99	10,751.71	7,232.85	102.90	103.55	-89.89	-2,161.08	-3,661.81	2,238.09	2,031.87	206.22	10.853	
10,600.00	7,236.68	10,851.71	7,232.25	105.62	106.24	-89.89	-2,161.66	-3,761.80	2,237.90	2,026.27	211.63	10.575	
10,700.00	7,236.37	10,951.71	7,231.66	108.35	108.93	-89.88	-2,162.24	-3,861.80	2,237.72	2,020.66	217.06	10.309	
10,800.00	7,236.06	11,051.71	7,231.06	111.08	111.63	-89.87	-2,162.83	-3,961.79	2,237.54	2,015.04	222.50	10.057	
10,900.00	7,235.75	11,151.71	7,230.46	113.82	114.34	-89.87	-2,163.41	-4,061.79	2,237.35	2,009.40	227.95	9.815	
11,000.00	7,235.44	11,251.71	7,229.87	116.56	117.05	-89.86	-2,164.00	-4,161.79	2,237.17	2,003.75	233.42	9.584	
11,100.00	7,235.12	11,351.71	7,229.27	119.31	119.77	-89.85	-2,164.58	-4,261.78	2,236.99	1,998.09	238.90	9.364	
11,200.00	7,234.81	11,451.71	7,228.68	122.07	122.50	-89.84	-2,165.16	-4,361.78	2,236.80	1,992.42	244.38	9.153	
11,300.00	7,234.50	11,551.71	7,228.08	124.83	125.24	-89.84	-2,165.75	-4,461.77	2,236.62	1,986.74	249.88	8.951	
11,400.00	7,234.19	11,651.71	7,227.49	127.59	127.98	-89.83	-2,166.33	-4,561.77	2,236.44	1,981.05	255.39	8.757	
11,500.00	7,233.88	11,751.71	7,226.89	130.36	130.72	-89.82	-2,166.91	-4,661.77	2,236.26	1,975.34	260.91	8.571	
11,600.00	7,233.56	11,851.71	7,226.29	133.13	133.47	-89.81	-2,167.50	-4,761.76	2,236.07	1,969.63	266.44	8.392	
11,700.00	7,233.25	11,951.71	7,225.70	135.91	136.23	-89.81	-2,168.08	-4,861.76	2,235.89	1,963.92	271.97	8.221	
11,800.00	7,232.94	12,051.71	7,225.10	138.68	138.99	-89.80	-2,168.67	-4,961.75	2,235.71	1,958.19	277.51	8.056	
11,900.00	7,232.63	12,151.71	7,224.51	141.47	141.75	-89.79	-2,169.25	-5,061.75	2,235.52	1,952.46	283.06	7.898	
12,000.00	7,232.32	12,251.71	7,223.91	144.25	144.51	-89.78	-2,169.83	-5,161.75	2,235.34	1,946.72	288.62	7.745	
12,100.00	7,232.00	12,351.70	7,223.31	147.04	147.28	-89.78	-2,170.42	-5,261.74	2,235.16	1,940.98	294.18	7.598	
12,200.00	7,231.69	12,451.70	7,222.72	149.83	150.06	-89.77	-2,171.00	-5,361.74	2,234.98	1,935.23	299.75	7.456	
12,300.00	7,231.38	12,551.70	7,222.12	152.62	152.83	-89.76	-2,171.58	-5,461.73	2,234.79	1,929.47	305.32	7.320	
12,400.00	7,231.07	12,651.70	7,221.53	155.42	155.61	-89.76	-2,172.17	-5,561.73	2,234.61	1,923.71	310.90	7.188	
12,500.00	7,230.76	12,751.70	7,220.93	158.22	158.40	-89.75	-2,172.75	-5,661.72	2,234.43	1,917.95	316.48	7.060	
12,600.00	7,230.44	12,851.70	7,220.34	161.01	161.18	-89.74	-2,173.34	-5,761.72	2,234.25	1,912.18	322.07	6.937	
12,700.00	7,230.13	12,951.70	7,219.74	163.82	163.97	-89.73	-2,173.92	-5,861.72	2,234.06	1,906.40	327.66	6.818	
12,800.00	7,229.82	13,051.70	7,219.14	166.62	166.76	-89.73	-2,174.50	-5,961.71	2,233.88	1,900.62	333.26	6.703	
12,900.00	7,229.51	13,151.70	7,218.55	169.43	169.55	-89.72	-2,175.09	-6,061.71	2,233.70	1,894.84	338.86	6.592	
13,000.00	7,229.20	13,251.70	7,217.95	172.23	172.35	-89.71	-2,175.67	-6,161.70	2,233.52	1,889.05	344.46	6.484	
13,100.00	7,228.88	13,351.70	7,217.36	175.04	175.14	-89.70	-2,176.26	-6,261.70	2,233.33	1,883.26	350.07	6.380	
13,200.00	7,228.57	13,451.70	7,216.76	177.85	177.94	-89.70	-2,176.84	-6,361.70	2,233.15	1,877.47	355.68	6.278	
13,300.00	7,228.26	13,551.70	7,216.16	180.66	180.74	-89.69	-2,177.42	-6,461.69	2,232.97	1,871.67	361.30	6.180	
13,400.00	7,227.95	13,651.70	7,215.57	183.48	183.54	-89.68	-2,178.01	-6,561.69	2,232.79	1,865.87	366.92	6.085	
13,500.00	7,227.64	13,751.70	7,214.97	186.29	186.35	-89.68	-2,178.59	-6,661.68	2,232.60	1,860.07	372.54	5.993	
13,600.00	7,227.33	13,851.70	7,214.38	189.11	189.15	-89.67	-2,179.17	-6,761.68	2,232.42	1,854.26	378.16	5.903	
13,700.00	7,227.01	13,951.70	7,213.78	191.92	191.96	-89.66	-2,179.76	-6,861.68	2,232.24	1,848.45	383.79	5.816	
13,800.00	7,226.70	14,051.69	7,213.18	194.74	194.77	-89.65	-2,180.34	-6,961.67	2,232.06	1,842.64	389.42	5.732	
13,900.00	7,226.39	14,151.69	7,212.59	197.56	197.58	-89.65	-2,180.93	-7,061.67	2,231.88	1,836.83	395.05	5.650	
14,000.00	7,226.08	14,251.69	7,211.99	200.38	200.39	-89.64	-2,181.51	-7,161.66	2,231.69	1,831.01	400.68	5.570	
14,100.00	7,225.77	14,351.69	7,211.40	203.21	203.20	-89.63	-2,182.09	-7,261.66	2,231.51	1,825.19	406.32	5.492	
14,200.00	7,225.45	14,451.69	7,210.80	206.03	206.02	-89.62	-2,182.68	-7,361.66	2,231.33	1,819.37	411.96	5.416	
14,300.00	7,225.14	14,551.69	7,210.21	208.85	208.83	-89.62	-2,183.26	-7,461.65	2,231.15	1,813.55	417.60	5.343	
14,400.00	7,224.83	14,651.69	7,209.61	211.68	211.65	-89.61	-2,183.84	-7,561.65	2,230.97	1,807.73	423.24	5.271	
14,500.00	7,224.52	14,751.69	7,209.01	214.50	214.47	-89.60	-2,184.43	-7,661.64	2,230.78	1,801.90	428.88	5.201	
14,600.00	7,224.21	14,851.69	7,208.42	217.33	217.28	-89.59	-2,185.01	-7,761.64	2,230.60	1,796.07	434.53	5.133	
14,700.00	7,223.89	14,951.69	7,207.82	220.16	220.10	-89.59	-2,185.60	-7,861.64	2,230.42	1,790.24	440.18	5.067	
14,800.00	7,223.58	15,051.69	7,207.23	222.98	222.93	-89.58	-2,186.18	-7,961.63	2,230.24	1,784.41	445.83	5.002	
14,900.00	7,223.27	15,151.69	7,206.63	225.81	225.75	-89.57	-2,186.76	-8,061.63	2,230.06	1,778.58	451.48	4.939	
14,987.41	7,223.00	15,239.10	7,206.11	228.28	228.21	-89.57	-2,187.27	-8,149.03	2,229.90	1,773.48	456.42	4.886 SF	



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	2.00	0.00	3.28	3.28	-179.54	-379.97	-3.06	379.98					
100.00	100.00	102.00	100.00	3.28	3.29	-179.54	-379.97	-3.06	379.98	373.41	6.57	57.837		
200.00	200.00	198.00	200.00	3.34	3.34	-179.54	-379.97	-3.06	379.98	373.31	6.67	56.947	CC, ES	
300.00	300.00	286.50	288.49	3.44	3.42	-179.53	-381.27	-3.12	381.46	374.58	6.88	55.472		
400.00	400.00	374.61	376.50	3.60	3.55	-179.51	-385.28	-3.31	386.01	378.83	7.18	53.750		
500.00	500.00	462.39	464.02	3.81	3.71	-179.47	-391.96	-3.61	393.63	386.05	7.57	51.972		
600.00	600.00	549.68	550.81	4.05	3.91	-179.42	-401.26	-4.04	404.28	396.24	8.04	50.299		
700.00	699.98	636.19	636.50	4.32	4.13	-121.33	-413.07	-4.59	418.83	410.27	8.56	48.943		
800.00	799.94	721.74	720.86	4.61	4.38	-121.55	-427.30	-5.25	436.99	427.87	9.11	47.954		
900.00	899.89	806.29	803.78	4.92	4.66	-121.74	-443.82	-6.01	458.06	448.36	9.70	47.236		
1,000.00	999.85	889.71	885.06	5.25	4.96	-121.89	-462.50	-6.88	482.00	471.69	10.30	46.790		
1,100.00	1,099.80	971.88	964.57	5.60	5.28	-122.02	-483.21	-7.83	508.72	497.80	10.92	46.578		
1,200.00	1,199.76	1,052.69	1,042.16	5.96	5.62	-122.12	-505.80	-8.88	538.18	526.63	11.55	46.599		
1,300.00	1,299.72	1,132.06	1,117.70	6.33	5.98	-122.20	-530.10	-10.00	570.30	558.12	12.18	46.829		
1,400.00	1,399.67	1,209.91	1,191.12	6.71	6.34	-122.25	-555.95	-11.20	605.00	592.19	12.80	47.247		
1,500.00	1,499.63	1,286.16	1,262.32	7.10	6.72	-122.29	-583.20	-12.46	642.20	628.78	13.43	47.828		
1,600.00	1,599.58	1,360.76	1,331.26	7.49	7.12	-122.32	-611.68	-13.78	681.83	667.79	14.04	48.555		
1,700.00	1,699.54	1,433.67	1,397.89	7.88	7.52	-122.33	-641.24	-15.14	723.81	709.17	14.65	49.415		
1,800.00	1,799.50	1,504.85	1,462.20	8.28	7.92	-122.33	-671.72	-16.55	768.06	752.82	15.24	50.396		
1,900.00	1,899.45	1,574.28	1,524.17	8.69	8.34	-122.32	-702.98	-18.00	814.49	798.66	15.82	51.475		
2,000.00	1,999.41	1,641.94	1,583.82	9.10	8.76	-122.31	-734.88	-19.47	863.02	846.63	16.39	52.651		
2,100.00	2,099.36	1,707.83	1,641.17	9.51	9.18	-122.29	-767.29	-20.97	913.57	896.62	16.94	53.917		
2,200.00	2,199.32	1,771.95	1,696.24	9.92	9.61	-122.27	-800.08	-22.49	966.06	948.58	17.48	55.253		
2,300.00	2,299.28	1,835.81	1,750.36	10.34	10.04	-122.25	-833.95	-24.06	1,020.41	1,002.39	18.02	56.615		
2,400.00	2,399.23	1,919.23	1,820.64	10.75	10.63	-122.21	-878.85	-26.13	1,075.55	1,056.76	18.79	57.233		
2,500.00	2,499.19	2,002.66	1,890.92	11.17	11.22	-122.18	-923.75	-28.21	1,130.69	1,111.12	19.57	57.768		
2,600.00	2,599.14	2,086.08	1,961.20	11.60	11.82	-122.16	-968.65	-30.29	1,185.83	1,165.47	20.36	58.229		
2,700.00	2,699.10	2,169.50	2,031.48	12.02	12.43	-122.13	-1,013.55	-32.36	1,240.97	1,219.80	21.17	58.629		
2,800.00	2,799.06	2,252.93	2,101.75	12.44	13.05	-122.11	-1,058.45	-34.44	1,296.11	1,274.13	21.98	58.978		
2,900.00	2,899.01	2,336.35	2,172.03	12.87	13.67	-122.09	-1,103.35	-36.52	1,351.25	1,328.46	22.79	59.282		
3,000.00	2,998.97	2,419.77	2,242.31	13.29	14.29	-122.07	-1,148.25	-38.59	1,406.39	1,382.77	23.62	59.549		
3,100.00	3,098.92	2,503.20	2,312.59	13.72	14.92	-122.05	-1,193.15	-40.67	1,461.53	1,437.08	24.45	59.783		
3,200.00	3,198.88	2,586.62	2,382.87	14.14	15.55	-122.04	-1,238.05	-42.75	1,516.67	1,491.39	25.28	59.988		
3,300.00	3,298.84	2,670.04	2,453.15	14.57	16.18	-122.02	-1,282.95	-44.82	1,571.81	1,545.68	26.12	60.168		
3,400.00	3,398.79	2,753.47	2,523.43	15.00	16.81	-122.01	-1,327.85	-46.90	1,626.95	1,599.98	26.97	60.328		
3,500.00	3,498.75	2,836.89	2,593.71	15.43	17.45	-121.99	-1,372.75	-48.98	1,682.09	1,654.27	27.82	60.469		
3,600.00	3,598.70	2,920.31	2,663.99	15.86	18.09	-121.98	-1,417.65	-51.05	1,737.23	1,708.56	28.67	60.594		
3,700.00	3,698.66	3,003.74	2,734.27	16.29	18.73	-121.97	-1,462.55	-53.13	1,792.37	1,762.84	29.53	60.705		
3,800.00	3,798.62	3,087.16	2,804.55	16.72	19.37	-121.96	-1,507.45	-55.21	1,847.51	1,817.12	30.39	60.803		
3,900.00	3,898.57	3,170.58	2,874.83	17.15	20.02	-121.95	-1,552.35	-57.28	1,902.65	1,871.40	31.25	60.890		
4,000.00	3,998.53	3,254.01	2,945.11	17.59	20.66	-121.94	-1,597.25	-59.36	1,957.79	1,925.68	32.11	60.968		
4,100.00	4,098.48	3,337.43	3,015.39	18.02	21.31	-121.93	-1,642.14	-61.44	2,012.93	1,979.95	32.98	61.037		
4,200.00	4,198.44	3,420.85	3,085.66	18.45	21.96	-121.92	-1,687.04	-63.51	2,068.07	2,034.22	33.85	61.099		
4,300.00	4,298.40	3,504.28	3,155.94	18.88	22.61	-121.91	-1,731.94	-65.59	2,123.21	2,088.49	34.72	61.154		
4,400.00	4,398.35	3,587.70	3,226.22	19.32	23.26	-121.91	-1,776.84	-67.67	2,178.35	2,142.76	35.59	61.202		
4,500.00	4,498.31	3,671.12	3,296.50	19.75	23.91	-121.90	-1,821.74	-69.74	2,233.49	2,197.02	36.47	61.245		
4,600.00	4,598.26	3,754.55	3,366.78	20.19	24.56	-121.89	-1,866.64	-71.82	2,288.63	2,251.29	37.34	61.284		
4,700.00	4,698.22	3,837.97	3,437.06	20.62	25.21	-121.88	-1,911.54	-73.90	2,343.77	2,305.55	38.22	61.318		
4,800.00	4,798.18	3,921.39	3,507.34	21.05	25.87	-121.88	-1,956.44	-75.97	2,398.91	2,359.81	39.10	61.348		
4,900.00	4,898.13	4,004.82	3,577.62	21.49	26.52	-121.87	-2,001.34	-78.05	2,454.05	2,414.07	39.98	61.375		
5,000.00	4,998.09	4,088.24	3,647.90	21.92	27.17	-121.87	-2,046.24	-80.13	2,509.20	2,468.33	40.87	61.398		
5,100.00	5,098.04	4,171.66	3,718.18	22.36	27.83	-121.86	-2,091.14	-82.20	2,564.34	2,522.58	41.75	61.419		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
5,200.00	5,198.00	4,255.09	3,788.46	22.79	28.48	-121.86	-2,136.04	-84.28	2,619.48	2,576.84	42.64	61.436		
5,300.00	5,297.96	4,338.51	3,858.74	23.23	29.14	-121.85	-2,180.94	-86.36	2,674.62	2,631.09	43.52	61.452		
5,400.00	5,397.91	4,421.93	3,929.02	23.67	29.79	-121.85	-2,225.84	-88.43	2,729.76	2,685.35	44.41	61.465		
5,500.00	5,497.87	4,505.36	3,999.29	24.10	30.45	-121.84	-2,270.74	-90.51	2,784.90	2,739.60	45.30	61.477		
5,600.00	5,597.82	4,588.78	4,069.57	24.54	31.11	-121.84	-2,315.64	-92.59	2,840.04	2,793.85	46.19	61.486		
5,700.00	5,697.78	4,672.20	4,139.85	24.97	31.77	-121.83	-2,360.54	-94.66	2,895.18	2,848.10	47.08	61.494		
5,800.00	5,797.74	4,755.63	4,210.13	25.41	32.42	-121.83	-2,405.44	-96.74	2,950.32	2,902.35	47.97	61.500		
5,900.00	5,897.69	4,839.05	4,280.41	25.85	33.08	-121.82	-2,450.34	-98.82	3,005.46	2,956.60	48.87	61.505		
6,000.00	5,997.65	4,922.47	4,350.69	26.28	33.74	-121.82	-2,495.24	-100.89	3,060.60	3,010.84	49.76	61.509		
6,100.00	6,097.60	5,005.90	4,420.97	26.72	34.40	-121.82	-2,540.14	-102.97	3,115.74	3,065.09	50.65	61.511		
6,200.00	6,197.56	5,089.32	4,491.25	27.16	35.06	-121.81	-2,585.04	-105.05	3,170.88	3,119.34	51.55	61.513		
6,300.00	6,297.52	5,172.74	4,561.53	27.59	35.71	-121.81	-2,629.94	-107.12	3,226.03	3,173.58	52.44	61.513		
6,400.00	6,397.47	5,256.17	4,631.81	28.03	36.37	-121.80	-2,674.84	-109.20	3,281.17	3,227.82	53.34	61.512		
6,500.00	6,497.43	5,339.59	4,702.09	28.47	37.03	-121.80	-2,719.74	-111.27	3,336.31	3,282.07	54.24	61.511		
6,600.00	6,597.38	5,423.02	4,772.37	28.90	37.69	-121.80	-2,764.64	-113.35	3,391.45	3,336.31	55.14	61.509		
6,700.00	6,697.08	5,506.34	4,842.57	29.34	38.35	-91.77	-2,809.48	-115.43	3,446.47	3,390.43	56.04	61.502		
6,800.00	6,794.63	5,584.52	4,912.85	29.79	39.01	-92.55	-3,400.65	-170.26	3,497.26	3,430.36	66.90	52.274		
6,900.00	6,887.62	5,662.70	4,983.13	30.24	39.67	-91.38	-3,400.87	-205.75	3,498.68	3,431.05	67.64	51.726		
7,000.00	6,973.77	5,740.88	5,053.41	30.70	40.33	-90.78	-3,401.17	-254.78	3,499.98	3,431.59	68.39	51.179		
7,100.00	7,050.94	5,819.05	5,123.69	31.20	41.00	-90.41	-3,401.55	-316.26	3,501.11	3,431.92	69.19	50.601		
7,200.00	7,117.24	5,897.25	5,193.97	31.77	50.32	-90.18	-3,401.99	-388.80	3,502.05	3,431.93	70.12	49.944		
7,300.00	7,171.03	5,975.46	5,264.25	32.46	50.44	-90.02	-3,402.50	-470.78	3,502.77	3,431.52	71.26	49.158		
7,400.00	7,211.00	6,053.67	5,334.53	33.29	50.53	-89.94	-3,403.04	-560.32	3,503.27	3,430.59	72.67	48.205		
7,500.00	7,236.16	6,131.88	5,404.81	34.29	50.59	-89.91	-3,403.63	-655.38	3,503.52	3,429.11	74.41	47.083		
7,600.00	7,245.89	6,210.09	5,475.09	35.43	50.63	-89.93	-3,404.23	-753.72	3,503.52	3,427.07	76.45	45.827		
7,700.00	7,245.73	6,288.30	5,545.37	36.72	50.68	-89.93	-3,404.84	-853.52	3,503.37	3,424.55	78.81	44.452		
7,800.00	7,245.42	6,366.51	5,615.65	38.18	50.73	-89.93	-3,405.45	-953.52	3,503.21	3,421.71	81.50	42.985		
7,900.00	7,245.10	6,444.72	5,685.93	39.80	50.82	-89.93	-3,406.06	-1,053.51	3,503.06	3,418.57	84.49	41.463		
8,000.00	7,244.79	6,522.93	5,756.21	41.54	50.96	-89.93	-3,406.68	-1,153.51	3,502.90	3,415.16	87.74	39.922		
8,100.00	7,244.48	6,601.14	5,826.49	43.41	51.21	-89.93	-3,407.29	-1,253.51	3,502.75	3,411.50	91.24	38.389		
8,200.00	7,244.17	6,679.35	5,896.77	45.38	51.72	-89.93	-3,407.90	-1,353.50	3,502.59	3,407.64	94.96	36.886		
8,300.00	7,243.86	6,757.56	5,967.05	47.44	52.71	-89.93	-3,408.51	-1,453.50	3,502.44	3,403.58	98.86	35.428		
8,400.00	7,243.55	6,835.77	6,037.33	49.58	54.20	-89.92	-3,409.13	-1,553.50	3,502.28	3,399.35	102.93	34.024		
8,500.00	7,243.23	6,913.98	6,107.61	51.78	55.98	-89.92	-3,409.74	-1,653.50	3,502.13	3,394.97	107.16	32.682		
8,600.00	7,242.92	6,992.19	6,177.89	54.05	57.94	-89.92	-3,410.35	-1,753.49	3,501.97	3,390.46	111.51	31.404		
8,700.00	7,242.61	7,070.40	6,248.17	56.37	60.01	-89.92	-3,410.96	-1,853.49	3,501.82	3,385.83	115.99	30.192		
8,800.00	7,242.30	7,148.61	6,318.45	58.74	62.16	-89.92	-3,411.58	-1,953.49	3,501.66	3,381.10	120.56	29.044		
8,900.00	7,241.99	7,226.82	6,388.73	61.16	64.38	-89.92	-3,412.19	-2,053.48	3,501.51	3,376.27	125.23	27.960		
9,000.00	7,241.67	7,305.03	6,459.01	63.61	66.65	-89.91	-3,412.80	-2,153.48	3,501.35	3,371.36	129.99	26.936		
9,100.00	7,241.36	7,383.24	6,529.29	66.09	68.98	-89.91	-3,413.41	-2,253.48	3,501.20	3,366.38	134.82	25.970		
9,200.00	7,241.05	7,461.45	6,599.57	68.60	71.34	-89.91	-3,414.03	-2,353.48	3,501.04	3,361.33	139.71	25.059		
9,300.00	7,240.74	7,539.66	6,669.85	71.13	73.74	-89.91	-3,414.64	-2,453.47	3,500.89	3,356.22	144.67	24.199		
9,400.00	7,240.43	7,617.87	6,740.13	73.70	76.18	-89.91	-3,415.25	-2,553.47	3,500.73	3,351.05	149.68	23.388		
9,500.00	7,240.11	7,696.08	6,810.41	76.28	78.64	-89.91	-3,415.86	-2,653.47	3,500.58	3,345.84	154.74	22.623		
9,600.00	7,239.80	7,774.29	6,880.69	78.88	81.13	-89.91	-3,416.48	-2,753.46	3,500.42	3,340.58	159.84	21.899		
9,700.00	7,239.49	7,852.50	6,950.97	81.50	83.65	-89.90	-3,417.09	-2,853.46	3,500.27	3,335.28	164.98	21.216		
9,800.00	7,239.18	7,930.71	7,021.25	84.13	86.19	-89.90	-3,417.70	-2,953.46	3,500.11	3,329.95	170.16	20.569		
9,900.00	7,238.87	8,008.92	7,091.53	86.78	88.74	-89.90	-3,418.31	-3,053.46	3,499.96	3,324.58	175.38	19.957		
10,000.00	7,238.55	8,087.13	7,161.81	89.44	91.32	-89.90	-3,418.93	-3,153.45	3,499.80	3,319.18	180.62	19.377		
10,100.00	7,238.24	8,165.34	7,232.09	92.11	93.91	-89.90	-3,419.54	-3,253.45	3,499.65	3,313.76	185.89	18.826		
10,200.00	7,237.93	8,243.55	7,302.37	94.80	96.52	-89.90	-3,420.15	-3,353.45	3,499.49	3,308.30	191.19	18.304		
10,300.00	7,237.62	8,321.76	7,372.65	97.49	99.14	-89.89	-3,420.76	-3,453.44	3,499.34	3,302.83	196.51	17.807		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
10,400.00	7,237.31	11,170.88	7,230.76	100.19	101.77	-89.89	-3,421.38	-3,553.44	3,499.18	3,297.33	201.85	17.335		
10,500.00	7,236.99	11,270.88	7,230.35	102.90	104.42	-89.89	-3,421.99	-3,653.44	3,499.03	3,291.81	207.21	16.886		
10,600.00	7,236.68	11,370.88	7,229.95	105.62	107.08	-89.89	-3,422.60	-3,753.44	3,498.87	3,286.28	212.59	16.458		
10,700.00	7,236.37	11,470.88	7,229.54	108.35	109.75	-89.89	-3,423.21	-3,853.43	3,498.72	3,280.73	217.99	16.050		
10,800.00	7,236.06	11,570.88	7,229.14	111.08	112.42	-89.89	-3,423.83	-3,953.43	3,498.56	3,275.16	223.41	15.660		
10,900.00	7,235.75	11,670.88	7,228.73	113.82	115.11	-89.89	-3,424.44	-4,053.43	3,498.41	3,269.58	228.83	15.288		
11,000.00	7,235.44	11,770.88	7,228.32	116.56	117.80	-89.88	-3,425.05	-4,153.42	3,498.25	3,263.98	234.28	14.932		
11,100.00	7,235.12	11,870.88	7,227.92	119.31	120.50	-89.88	-3,425.66	-4,253.42	3,498.10	3,258.37	239.73	14.592		
11,200.00	7,234.81	11,970.88	7,227.51	122.07	123.21	-89.88	-3,426.28	-4,353.42	3,497.94	3,252.75	245.20	14.266		
11,300.00	7,234.50	12,070.88	7,227.11	124.83	125.93	-89.88	-3,426.89	-4,453.42	3,497.79	3,247.11	250.67	13.953		
11,400.00	7,234.19	12,170.88	7,226.70	127.59	128.65	-89.88	-3,427.50	-4,553.41	3,497.63	3,241.47	256.16	13.654		
11,500.00	7,233.88	12,270.88	7,226.30	130.36	131.38	-89.88	-3,428.11	-4,653.41	3,497.48	3,235.82	261.66	13.366		
11,600.00	7,233.56	12,370.88	7,225.89	133.13	134.11	-89.87	-3,428.73	-4,753.41	3,497.32	3,230.16	267.17	13.090		
11,700.00	7,233.25	12,470.88	7,225.48	135.91	136.85	-89.87	-3,429.34	-4,853.40	3,497.17	3,224.48	272.68	12.825		
11,800.00	7,232.94	12,570.88	7,225.08	138.68	139.59	-89.87	-3,429.95	-4,953.40	3,497.01	3,218.81	278.21	12.570		
11,900.00	7,232.63	12,670.88	7,224.67	141.47	142.34	-89.87	-3,430.56	-5,053.40	3,496.86	3,213.12	283.74	12.324		
12,000.00	7,232.32	12,770.88	7,224.27	144.25	145.09	-89.87	-3,431.18	-5,153.40	3,496.70	3,207.43	289.28	12.088		
12,100.00	7,232.00	12,870.88	7,223.86	147.04	147.85	-89.87	-3,431.79	-5,253.39	3,496.55	3,201.72	294.82	11.860		
12,200.00	7,231.69	12,970.88	7,223.45	149.83	150.61	-89.87	-3,432.40	-5,353.39	3,496.39	3,196.02	300.38	11.640		
12,300.00	7,231.38	13,070.88	7,223.05	152.62	153.37	-89.86	-3,433.01	-5,453.39	3,496.24	3,190.30	305.93	11.428		
12,400.00	7,231.07	13,170.88	7,222.64	155.42	156.14	-89.86	-3,433.63	-5,553.38	3,496.08	3,184.59	311.50	11.223		
12,500.00	7,230.76	13,270.88	7,222.24	158.22	158.91	-89.86	-3,434.24	-5,653.38	3,495.93	3,178.86	317.07	11.026		
12,600.00	7,230.44	13,370.87	7,221.83	161.01	161.68	-89.86	-3,434.85	-5,753.38	3,495.78	3,173.13	322.64	10.835		
12,700.00	7,230.13	13,470.87	7,221.43	163.82	164.46	-89.86	-3,435.46	-5,853.38	3,495.62	3,167.40	328.22	10.650		
12,800.00	7,229.82	13,570.87	7,221.02	166.62	167.24	-89.86	-3,436.08	-5,953.37	3,495.47	3,161.66	333.81	10.472		
12,900.00	7,229.51	13,670.87	7,220.62	169.43	170.02	-89.85	-3,436.69	-6,053.37	3,495.31	3,155.92	339.39	10.299		
13,000.00	7,229.20	13,770.87	7,220.21	172.23	172.80	-89.85	-3,437.30	-6,153.37	3,495.16	3,150.17	344.99	10.131		
13,100.00	7,228.88	13,870.87	7,219.80	175.04	175.59	-89.85	-3,437.91	-6,253.36	3,495.00	3,144.42	350.58	9.969		
13,200.00	7,228.57	13,970.87	7,219.40	177.85	178.38	-89.85	-3,438.53	-6,353.36	3,494.85	3,138.66	356.18	9.812		
13,300.00	7,228.26	14,070.87	7,218.99	180.66	181.17	-89.85	-3,439.14	-6,453.36	3,494.69	3,132.90	361.79	9.659		
13,400.00	7,227.95	14,170.87	7,218.59	183.48	183.96	-89.85	-3,439.75	-6,553.36	3,494.54	3,127.14	367.40	9.512		
13,500.00	7,227.64	14,270.87	7,218.18	186.29	186.76	-89.85	-3,440.36	-6,653.35	3,494.38	3,121.37	373.01	9.368		
13,600.00	7,227.33	14,370.87	7,217.78	189.11	189.55	-89.84	-3,440.98	-6,753.35	3,494.23	3,115.60	378.62	9.229		
13,700.00	7,227.01	14,470.87	7,217.37	191.92	192.35	-89.84	-3,441.59	-6,853.35	3,494.07	3,109.83	384.24	9.093		
13,800.00	7,226.70	14,570.87	7,216.96	194.74	195.15	-89.84	-3,442.20	-6,953.34	3,493.92	3,104.06	389.86	8.962		
13,900.00	7,226.39	14,670.87	7,216.56	197.56	197.96	-89.84	-3,442.81	-7,053.34	3,493.76	3,098.28	395.48	8.834		
14,000.00	7,226.08	14,770.87	7,216.15	200.38	200.76	-89.84	-3,443.42	-7,153.34	3,493.61	3,092.50	401.11	8.710		
14,100.00	7,225.77	14,870.87	7,215.75	203.21	203.57	-89.84	-3,444.04	-7,253.34	3,493.45	3,086.72	406.74	8.589		
14,200.00	7,225.45	14,970.87	7,215.34	206.03	206.37	-89.83	-3,444.65	-7,353.33	3,493.30	3,080.93	412.37	8.471		
14,300.00	7,225.14	15,070.87	7,214.94	208.85	209.18	-89.83	-3,445.26	-7,453.33	3,493.14	3,075.14	418.00	8.357		
14,400.00	7,224.83	15,170.87	7,214.53	211.68	211.99	-89.83	-3,445.87	-7,553.33	3,492.99	3,069.35	423.63	8.245		
14,500.00	7,224.52	15,270.87	7,214.12	214.50	214.80	-89.83	-3,446.49	-7,653.32	3,492.83	3,063.56	429.27	8.137		
14,600.00	7,224.21	15,370.87	7,213.72	217.33	217.61	-89.83	-3,447.10	-7,753.32	3,492.68	3,057.77	434.91	8.031		
14,700.00	7,223.89	15,470.87	7,213.31	220.16	220.43	-89.83	-3,447.71	-7,853.32	3,492.52	3,051.97	440.55	7.928		
14,800.00	7,223.58	15,570.87	7,212.91	222.98	223.24	-89.83	-3,448.32	-7,953.32	3,492.37	3,046.17	446.20	7.827		
14,900.00	7,223.27	15,670.87	7,212.50	225.81	226.06	-89.82	-3,448.94	-8,053.31	3,492.21	3,040.37	451.84	7.729		
14,987.41	7,223.00	15,758.28	7,212.15	228.28	228.52	-89.82	-3,449.47	-8,140.72	3,492.08	3,035.30	456.78	7.645 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 12N-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	-179.54	-240.07	-1.95	240.08					
100.00	100.00	101.00	100.00	3.28	3.28	-179.54	-240.07	-1.95	240.08	233.51	6.57	36.544		
200.00	200.00	199.00	200.00	3.34	3.34	-179.54	-240.07	-1.95	240.08	233.41	6.67	35.977	CC, ES	
300.00	300.00	291.34	292.32	3.44	3.43	-179.51	-241.52	-2.08	241.65	234.77	6.88	35.107		
400.00	400.00	383.41	384.29	3.60	3.56	-179.42	-245.92	-2.50	246.43	239.23	7.20	34.233		
500.00	500.00	475.11	475.69	3.81	3.74	-179.28	-253.21	-3.18	254.40	246.79	7.60	33.452		
600.00	600.00	566.24	566.25	4.05	3.95	-179.10	-263.35	-4.14	265.54	257.45	8.08	32.844		
700.00	699.98	656.51	655.58	4.32	4.19	-120.95	-276.21	-5.35	280.67	272.05	8.62	32.554		
800.00	799.94	745.71	743.42	4.61	4.46	-121.16	-291.66	-6.81	299.53	290.34	9.19	32.577		
900.00	899.89	833.78	829.62	4.92	4.76	-121.29	-309.59	-8.49	321.42	311.62	9.80	32.812		
1,000.00	999.85	920.57	914.00	5.25	5.08	-121.38	-329.82	-10.40	346.26	335.84	10.42	33.239		
1,100.00	1,099.80	1,013.88	1,004.20	5.60	5.45	-121.42	-353.61	-12.64	373.26	362.19	11.07	33.731		
1,200.00	1,199.76	1,110.13	1,097.21	5.96	5.86	-121.47	-378.25	-14.96	400.37	388.62	11.75	34.075		
1,300.00	1,299.72	1,206.39	1,190.23	6.33	6.28	-121.50	-402.89	-17.28	427.49	415.03	12.46	34.305		
1,400.00	1,399.67	1,302.64	1,283.25	6.71	6.72	-121.53	-427.53	-19.61	454.60	441.41	13.20	34.450		
1,500.00	1,499.63	1,401.11	1,376.26	7.10	7.18	-121.56	-452.17	-21.93	481.72	467.76	13.96	34.509		
1,600.00	1,599.58	1,504.85	1,469.28	7.49	7.67	-121.59	-476.81	-24.25	508.84	494.07	14.76	34.470		
1,700.00	1,699.54	1,608.60	1,562.30	7.88	8.17	-121.61	-501.46	-26.57	535.95	520.37	15.58	34.401		
1,800.00	1,799.50	1,687.65	1,655.31	8.28	8.56	-121.63	-526.10	-28.89	563.07	546.77	16.30	34.542		
1,900.00	1,899.45	1,783.91	1,748.33	8.69	9.04	-121.65	-550.74	-31.21	590.19	573.08	17.11	34.499		
2,000.00	1,999.41	1,880.16	1,841.35	9.10	9.52	-121.67	-575.38	-33.53	617.30	599.38	17.92	34.442		
2,100.00	2,099.36	1,976.41	1,934.36	9.51	10.01	-121.68	-600.02	-35.85	644.42	625.67	18.75	34.376		
2,200.00	2,199.32	2,072.67	2,027.38	9.92	10.50	-121.69	-624.66	-38.17	671.54	651.96	19.58	34.304		
2,300.00	2,299.28	2,168.92	2,120.39	10.34	10.99	-121.71	-649.30	-40.50	698.65	678.24	20.41	34.228		
2,400.00	2,399.23	2,265.17	2,213.41	10.75	11.49	-121.72	-673.94	-42.82	725.77	704.52	21.25	34.150		
2,500.00	2,499.19	2,361.42	2,306.43	11.17	11.98	-121.73	-698.59	-45.14	752.89	730.79	22.10	34.071		
2,600.00	2,599.14	2,457.68	2,399.44	11.60	12.48	-121.74	-723.23	-47.46	780.00	757.06	22.95	33.991		
2,700.00	2,699.10	2,553.93	2,492.46	12.02	12.98	-121.75	-747.87	-49.78	807.12	783.32	23.80	33.912		
2,800.00	2,799.06	2,650.18	2,585.48	12.44	13.49	-121.76	-772.51	-52.10	834.24	809.58	24.66	33.833		
2,900.00	2,899.01	2,746.44	2,678.49	12.87	13.99	-121.77	-797.15	-54.42	861.35	835.84	25.52	33.757		
3,000.00	2,998.97	2,842.69	2,771.51	13.29	14.49	-121.78	-821.79	-56.74	888.47	862.09	26.38	33.681		
3,100.00	3,098.92	2,938.94	2,864.53	13.72	15.00	-121.79	-846.43	-59.07	915.59	888.34	27.24	33.608		
3,200.00	3,198.88	3,035.20	2,957.54	14.14	15.51	-121.79	-871.07	-61.39	942.70	914.59	28.11	33.536		
3,300.00	3,298.84	3,131.45	3,050.56	14.57	16.02	-121.80	-895.71	-63.71	969.82	940.84	28.98	33.467		
3,400.00	3,398.79	3,227.70	3,143.58	15.00	16.53	-121.81	-920.36	-66.03	996.94	967.09	29.85	33.399		
3,500.00	3,498.75	3,323.96	3,236.59	15.43	17.04	-121.81	-945.00	-68.35	1,024.05	993.33	30.72	33.334		
3,600.00	3,598.70	3,420.21	3,329.61	15.86	17.55	-121.82	-969.64	-70.67	1,051.17	1,019.58	31.60	33.270		
3,700.00	3,698.66	3,516.46	3,422.63	16.29	18.06	-121.82	-994.28	-72.99	1,078.29	1,045.82	32.47	33.208		
3,800.00	3,798.62	3,612.71	3,515.64	16.72	18.57	-121.83	-1,018.92	-75.31	1,105.41	1,072.06	33.35	33.149		
3,900.00	3,898.57	3,708.97	3,608.66	17.15	19.08	-121.83	-1,043.56	-77.63	1,132.52	1,098.30	34.22	33.091		
4,000.00	3,998.53	3,805.22	3,701.68	17.59	19.59	-121.84	-1,068.20	-79.96	1,159.64	1,124.54	35.10	33.035		
4,100.00	4,098.48	3,901.47	3,794.69	18.02	20.11	-121.84	-1,092.84	-82.28	1,186.76	1,150.77	35.98	32.981		
4,200.00	4,198.44	4,002.27	3,887.71	18.45	20.65	-121.85	-1,117.49	-84.60	1,213.87	1,176.99	36.89	32.909		
4,300.00	4,298.40	4,106.02	3,980.73	18.88	21.20	-121.85	-1,142.13	-86.92	1,240.99	1,203.19	37.80	32.827		
4,400.00	4,398.35	4,209.77	4,073.74	19.32	21.75	-121.85	-1,166.77	-89.24	1,268.11	1,229.39	38.72	32.748		
4,500.00	4,498.31	4,286.49	4,166.76	19.75	22.16	-121.86	-1,191.41	-91.56	1,295.23	1,255.71	39.51	32.781		
4,600.00	4,598.26	4,382.74	4,259.78	20.19	22.68	-121.86	-1,216.05	-93.88	1,322.34	1,281.95	40.40	32.735		
4,700.00	4,698.22	4,478.99	4,352.79	20.62	23.19	-121.86	-1,240.69	-96.20	1,349.46	1,308.18	41.28	32.690		
4,800.00	4,798.18	4,575.25	4,445.81	21.05	23.71	-121.87	-1,265.33	-98.53	1,376.58	1,334.41	42.17	32.647		
4,900.00	4,898.13	4,671.50	4,538.83	21.49	24.23	-121.87	-1,289.97	-100.85	1,403.69	1,360.64	43.05	32.605		
5,000.00	4,998.09	4,767.75	4,631.84	21.92	24.74	-121.87	-1,314.62	-103.17	1,430.81	1,386.87	43.94	32.564		
5,100.00	5,098.04	4,864.01	4,724.86	22.36	25.26	-121.88	-1,339.26	-105.49	1,457.93	1,413.10	44.83	32.525		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 12N-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	5,198.00	4,960.26	4,817.88	22.79	25.77	-121.88	-1,363.90	-107.81	1,485.04	1,439.33	45.71	32.486		
5,300.00	5,297.96	5,056.51	4,910.89	23.23	26.29	-121.88	-1,388.54	-110.13	1,512.16	1,465.56	46.60	32.449		
5,400.00	5,397.91	5,152.76	5,003.91	23.67	26.81	-121.89	-1,413.18	-112.45	1,539.28	1,491.79	47.49	32.413		
5,500.00	5,497.87	5,249.02	5,096.93	24.10	27.33	-121.89	-1,437.82	-114.77	1,566.40	1,518.02	48.38	32.378		
5,600.00	5,597.82	5,345.27	5,189.94	24.54	27.84	-121.89	-1,462.46	-117.09	1,593.51	1,544.24	49.27	32.343		
5,700.00	5,697.78	5,441.52	5,282.96	24.97	28.36	-121.89	-1,487.10	-119.42	1,620.63	1,570.47	50.16	32.310		
5,800.00	5,797.74	5,537.78	5,375.97	25.41	28.88	-121.90	-1,511.75	-121.74	1,647.75	1,596.70	51.05	32.278		
5,900.00	5,897.69	5,634.03	5,468.99	25.85	29.40	-121.90	-1,536.39	-124.06	1,674.86	1,622.92	51.94	32.246		
6,000.00	5,997.65	5,730.28	5,562.01	26.28	29.91	-121.90	-1,561.03	-126.38	1,701.98	1,649.15	52.83	32.216		
6,100.00	6,097.60	5,826.54	5,655.02	26.72	30.43	-121.90	-1,585.67	-128.70	1,729.10	1,675.38	53.72	32.186		
6,200.00	6,197.56	5,922.79	5,748.04	27.16	30.95	-121.90	-1,610.31	-131.02	1,756.22	1,701.60	54.61	32.157		
6,300.00	6,297.52	6,019.04	5,841.06	27.59	31.47	-121.91	-1,634.95	-133.34	1,783.33	1,727.83	55.51	32.128		
6,400.00	6,397.47	6,115.30	5,934.07	28.03	31.99	-121.91	-1,659.59	-135.66	1,810.45	1,754.05	56.40	32.101		
6,500.00	6,497.43	6,211.55	6,027.09	28.47	32.50	-121.91	-1,684.23	-137.98	1,837.57	1,780.28	57.29	32.074		
6,600.00	6,597.38	6,307.80	6,120.11	28.90	33.02	-121.91	-1,708.88	-140.31	1,864.68	1,806.50	58.18	32.048		
6,700.00	6,697.08	6,403.92	6,212.99	29.34	33.54	-94.37	-1,733.48	-142.62	1,891.73	1,832.65	59.08	32.020		
6,800.00	6,794.63	6,498.35	6,304.25	29.79	34.05	-89.01	-1,757.66	-144.90	1,918.28	1,858.31	59.98	31.983		
6,900.00	6,887.62	6,592.57	6,395.22	30.24	34.56	-86.53	-1,781.77	-148.78	1,944.10	1,883.20	60.90	31.922		
7,000.00	6,973.77	6,694.48	6,492.10	30.70	35.09	-84.86	-1,807.54	-166.54	1,968.70	1,906.77	61.93	31.789		
7,100.00	7,050.94	6,804.05	6,591.72	31.20	35.61	-83.63	-1,834.17	-203.18	1,991.42	1,928.37	63.05	31.583		
7,200.00	7,117.24	6,922.80	6,691.05	31.77	36.12	-82.74	-1,860.88	-262.17	2,011.62	1,947.32	64.30	31.287		
7,300.00	7,171.03	7,051.95	6,784.98	32.46	36.60	-82.16	-1,886.34	-346.74	2,028.61	1,962.89	65.71	30.872		
7,400.00	7,211.00	7,191.96	6,868.88	33.29	37.05	-81.84	-1,908.54	-458.48	2,041.69	1,974.27	67.41	30.286		
7,500.00	7,236.16	7,341.74	6,924.07	34.29	37.53	-81.72	-1,924.90	-595.14	2,050.21	1,980.66	69.55	29.479		
7,600.00	7,245.89	7,498.19	6,950.20	35.43	38.26	-81.73	-1,932.89	-748.79	2,053.68	1,981.48	72.20	28.444		
7,700.00	7,245.73	7,611.13	6,950.71	36.72	39.12	-81.74	-1,933.81	-861.71	2,053.62	1,978.79	74.82	27.447		
7,800.00	7,245.42	7,711.13	6,950.33	38.18	40.19	-81.74	-1,934.41	-961.70	2,053.46	1,975.82	77.64	26.448		
7,900.00	7,245.10	7,811.13	6,949.95	39.80	41.52	-81.74	-1,935.01	-1,061.70	2,053.30	1,972.54	80.76	25.425		
8,000.00	7,244.79	7,911.13	6,949.57	41.54	43.04	-81.73	-1,935.61	-1,161.70	2,053.14	1,969.00	84.14	24.400		
8,100.00	7,244.48	8,011.13	6,949.19	43.41	44.73	-81.73	-1,936.20	-1,261.70	2,052.99	1,965.22	87.76	23.392		
8,200.00	7,244.17	8,111.13	6,948.81	45.38	46.55	-81.73	-1,936.80	-1,361.69	2,052.83	1,961.24	91.59	22.413		
8,300.00	7,243.86	8,211.13	6,948.43	47.44	48.49	-81.73	-1,937.40	-1,461.69	2,052.67	1,957.07	95.60	21.472		
8,400.00	7,243.55	8,311.13	6,948.05	49.58	50.52	-81.72	-1,938.00	-1,561.69	2,052.51	1,952.75	99.77	20.573		
8,500.00	7,243.23	8,411.13	6,947.67	51.78	52.63	-81.72	-1,938.60	-1,661.69	2,052.36	1,948.28	104.08	19.720		
8,600.00	7,242.92	8,511.13	6,947.29	54.05	54.81	-81.72	-1,939.20	-1,761.68	2,052.20	1,943.69	108.51	18.912		
8,700.00	7,242.61	8,611.13	6,946.91	56.37	57.06	-81.72	-1,939.80	-1,861.68	2,052.04	1,938.99	113.05	18.151		
8,800.00	7,242.30	8,711.13	6,946.54	58.74	59.36	-81.71	-1,940.40	-1,961.68	2,051.88	1,934.19	117.69	17.434		
8,900.00	7,241.99	8,811.13	6,946.16	61.16	61.71	-81.71	-1,940.99	-2,061.67	2,051.73	1,929.30	122.42	16.760		
9,000.00	7,241.67	8,911.13	6,945.78	63.61	64.10	-81.71	-1,941.59	-2,161.67	2,051.57	1,924.34	127.22	16.126		
9,100.00	7,241.36	9,011.13	6,945.40	66.09	66.53	-81.71	-1,942.19	-2,261.67	2,051.41	1,919.32	132.09	15.530		
9,200.00	7,241.05	9,111.13	6,945.02	68.60	68.99	-81.70	-1,942.79	-2,361.67	2,051.25	1,914.23	137.03	14.970		
9,300.00	7,240.74	9,211.13	6,944.64	71.13	71.48	-81.70	-1,943.39	-2,461.66	2,051.10	1,909.08	142.01	14.443		
9,400.00	7,240.43	9,311.13	6,944.26	73.70	74.00	-81.70	-1,943.99	-2,561.66	2,050.94	1,903.89	147.05	13.948		
9,500.00	7,240.11	9,411.13	6,943.88	76.28	76.54	-81.69	-1,944.59	-2,661.66	2,050.78	1,898.66	152.12	13.481		
9,600.00	7,239.80	9,511.13	6,943.50	78.88	79.11	-81.69	-1,945.18	-2,761.66	2,050.62	1,893.38	157.24	13.041		
9,700.00	7,239.49	9,611.13	6,943.12	81.50	81.69	-81.69	-1,945.78	-2,861.65	2,050.47	1,888.07	162.40	12.626		
9,800.00	7,239.18	9,711.13	6,942.74	84.13	84.29	-81.69	-1,946.38	-2,961.65	2,050.31	1,882.73	167.58	12.235		
9,900.00	7,238.87	9,811.13	6,942.36	86.78	86.91	-81.68	-1,946.98	-3,061.65	2,050.15	1,877.35	172.80	11.864		
10,000.00	7,238.55	9,911.13	6,941.98	89.44	89.55	-81.68	-1,947.58	-3,161.65	2,049.99	1,871.95	178.04	11.514		
10,100.00	7,238.24	10,011.13	6,941.60	92.11	92.19	-81.68	-1,948.18	-3,261.64	2,049.84	1,866.53	183.31	11.182		
10,200.00	7,237.93	10,111.13	6,941.22	94.80	94.85	-81.68	-1,948.78	-3,361.64	2,049.68	1,861.08	188.60	10.868		
10,300.00	7,237.62	10,211.13	6,940.85	97.49	97.53	-81.67	-1,949.37	-3,461.64	2,049.52	1,855.61	193.91	10.569		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS STATE 12N-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	7,237.31	10,311.13	6,940.47	100.19	100.21	-81.67	-1,949.97	-3,561.63	2,049.36	1,850.12	199.24	10.286		
10,500.00	7,236.99	10,411.13	6,940.09	102.90	102.90	-81.67	-1,950.57	-3,661.63	2,049.21	1,844.61	204.59	10.016		
10,600.00	7,236.68	10,511.13	6,939.71	105.62	105.60	-81.67	-1,951.17	-3,761.63	2,049.05	1,839.09	209.96	9.759		
10,700.00	7,236.37	10,611.13	6,939.33	108.35	108.31	-81.66	-1,951.77	-3,861.63	2,048.89	1,833.55	215.34	9.515		
10,800.00	7,236.06	10,711.13	6,938.95	111.08	111.02	-81.66	-1,952.37	-3,961.62	2,048.73	1,828.00	220.73	9.282		
10,900.00	7,235.75	10,811.13	6,938.57	113.82	113.74	-81.66	-1,952.97	-4,061.62	2,048.58	1,822.44	226.14	9.059		
11,000.00	7,235.44	10,911.13	6,938.19	116.56	116.47	-81.66	-1,953.57	-4,161.62	2,048.42	1,816.86	231.56	8.846		
11,100.00	7,235.12	11,011.12	6,937.81	119.31	119.21	-81.65	-1,954.16	-4,261.62	2,048.26	1,811.28	236.99	8.643		
11,200.00	7,234.81	11,111.12	6,937.43	122.07	121.95	-81.65	-1,954.76	-4,361.61	2,048.10	1,805.68	242.43	8.448		
11,300.00	7,234.50	11,211.12	6,937.05	124.83	124.70	-81.65	-1,955.36	-4,461.61	2,047.95	1,800.07	247.88	8.262		
11,400.00	7,234.19	11,311.12	6,936.67	127.59	127.45	-81.65	-1,955.96	-4,561.61	2,047.79	1,794.45	253.34	8.083		
11,500.00	7,233.88	11,411.12	6,936.29	130.36	130.20	-81.64	-1,956.56	-4,661.61	2,047.63	1,788.83	258.80	7.912		
11,600.00	7,233.56	11,511.12	6,935.91	133.13	132.96	-81.64	-1,957.16	-4,761.60	2,047.48	1,783.20	264.28	7.747		
11,700.00	7,233.25	11,611.12	6,935.53	135.91	135.73	-81.64	-1,957.76	-4,861.60	2,047.32	1,777.55	269.76	7.589		
11,800.00	7,232.94	11,711.12	6,935.16	138.68	138.50	-81.64	-1,958.35	-4,961.60	2,047.16	1,771.91	275.25	7.437		
11,900.00	7,232.63	11,811.12	6,934.78	141.47	141.27	-81.63	-1,958.95	-5,061.59	2,047.00	1,766.25	280.75	7.291		
12,000.00	7,232.32	11,911.12	6,934.40	144.25	144.04	-81.63	-1,959.55	-5,161.59	2,046.85	1,760.59	286.25	7.150		
12,100.00	7,232.00	12,011.12	6,934.02	147.04	146.82	-81.63	-1,960.15	-5,261.59	2,046.69	1,754.93	291.76	7.015		
12,200.00	7,231.69	12,111.12	6,933.64	149.83	149.60	-81.63	-1,960.75	-5,361.59	2,046.53	1,749.25	297.28	6.884		
12,300.00	7,231.38	12,211.12	6,933.26	152.62	152.39	-81.62	-1,961.35	-5,461.58	2,046.37	1,743.58	302.80	6.758		
12,400.00	7,231.07	12,311.12	6,932.88	155.42	155.18	-81.62	-1,961.95	-5,561.58	2,046.22	1,737.89	308.32	6.637		
12,500.00	7,230.76	12,411.12	6,932.50	158.22	157.97	-81.62	-1,962.54	-5,661.58	2,046.06	1,732.21	313.85	6.519		
12,600.00	7,230.44	12,511.12	6,932.12	161.01	160.76	-81.62	-1,963.14	-5,761.58	2,045.90	1,726.51	319.39	6.406		
12,700.00	7,230.13	12,611.12	6,931.74	163.82	163.55	-81.61	-1,963.74	-5,861.57	2,045.74	1,720.82	324.93	6.296		
12,800.00	7,229.82	12,711.12	6,931.36	166.62	166.35	-81.61	-1,964.34	-5,961.57	2,045.59	1,715.12	330.47	6.190		
12,900.00	7,229.51	12,811.12	6,930.98	169.43	169.15	-81.61	-1,964.94	-6,061.57	2,045.43	1,709.42	336.01	6.087		
13,000.00	7,229.20	12,911.12	6,930.60	172.23	171.95	-81.61	-1,965.54	-6,161.57	2,045.27	1,703.71	341.56	5.988		
13,100.00	7,228.88	13,011.12	6,930.22	175.04	174.75	-81.60	-1,966.14	-6,261.56	2,045.12	1,698.00	347.12	5.892		
13,200.00	7,228.57	13,111.12	6,929.84	177.85	177.56	-81.60	-1,966.74	-6,361.56	2,044.96	1,692.28	352.67	5.798		
13,300.00	7,228.26	13,211.12	6,929.47	180.66	180.36	-81.60	-1,967.33	-6,461.56	2,044.80	1,686.57	358.23	5.708		
13,400.00	7,227.95	13,311.12	6,929.09	183.48	183.17	-81.60	-1,967.93	-6,561.55	2,044.64	1,680.85	363.80	5.620		
13,500.00	7,227.64	13,411.12	6,928.71	186.29	185.98	-81.59	-1,968.53	-6,661.55	2,044.49	1,675.12	369.36	5.535		
13,600.00	7,227.33	13,511.12	6,928.33	189.11	188.79	-81.59	-1,969.13	-6,761.55	2,044.33	1,669.40	374.93	5.453		
13,700.00	7,227.01	13,611.12	6,927.95	191.92	191.60	-81.59	-1,969.73	-6,861.55	2,044.17	1,663.67	380.50	5.372		
13,800.00	7,226.70	13,711.12	6,927.57	194.74	194.42	-81.59	-1,970.33	-6,961.54	2,044.01	1,657.94	386.08	5.294		
13,900.00	7,226.39	13,811.12	6,927.19	197.56	197.23	-81.58	-1,970.93	-7,061.54	2,043.86	1,652.21	391.65	5.219		
14,000.00	7,226.08	13,911.12	6,926.81	200.38	200.05	-81.58	-1,971.52	-7,161.54	2,043.70	1,646.47	397.23	5.145		
14,100.00	7,225.77	14,011.12	6,926.43	203.21	202.86	-81.58	-1,972.12	-7,261.54	2,043.54	1,640.73	402.81	5.073		
14,200.00	7,225.45	14,111.12	6,926.05	206.03	205.68	-81.57	-1,972.72	-7,361.53	2,043.39	1,634.99	408.39	5.003		
14,300.00	7,225.14	14,211.12	6,925.67	208.85	208.50	-81.57	-1,973.32	-7,461.53	2,043.23	1,629.25	413.98	4.936		
14,400.00	7,224.83	14,311.12	6,925.29	211.68	211.32	-81.57	-1,973.92	-7,561.53	2,043.07	1,623.51	419.56	4.870		
14,500.00	7,224.52	14,411.12	6,924.91	214.50	214.14	-81.57	-1,974.52	-7,661.53	2,042.91	1,617.76	425.15	4.805		
14,600.00	7,224.21	14,511.12	6,924.53	217.33	216.97	-81.56	-1,975.12	-7,761.52	2,042.76	1,612.02	430.74	4.742		
14,700.00	7,223.89	14,611.12	6,924.15	220.16	219.79	-81.56	-1,975.71	-7,861.52	2,042.60	1,606.27	436.33	4.681		
14,800.00	7,223.58	14,711.12	6,923.78	222.98	222.62	-81.56	-1,976.31	-7,961.52	2,042.44	1,600.52	441.92	4.622		
14,900.00	7,223.27	14,811.12	6,923.40	225.81	225.44	-81.56	-1,976.91	-8,061.51	2,042.29	1,594.77	447.52	4.564		
14,987.41	7,223.00	14,901.47	6,923.06	228.28	227.99	-81.55	-1,977.44	-8,148.92	2,042.15	1,589.66	452.49	4.513 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	1.00	0.00	3.28	3.28	-179.49	-220.04	-1.95	220.05					
100.00	100.00	101.00	100.00	3.28	3.28	-179.49	-220.04	-1.95	220.05	213.48	6.57	33.496		
200.00	200.00	199.00	200.00	3.34	3.34	-179.49	-220.04	-1.95	220.05	213.38	6.67	32.975	CC, ES	
300.00	300.00	291.94	292.92	3.44	3.43	-179.46	-221.51	-2.10	221.63	214.75	6.88	32.195		
400.00	400.00	384.61	385.48	3.60	3.57	-179.35	-225.96	-2.58	226.44	219.24	7.20	31.446		
500.00	500.00	476.90	477.47	3.81	3.74	-179.17	-233.34	-3.36	234.45	226.84	7.61	30.811		
600.00	600.00	568.62	568.60	4.05	3.95	-178.95	-243.59	-4.46	245.65	237.56	8.09	30.359		
700.00	699.98	659.45	658.48	4.32	4.20	-120.77	-256.60	-5.85	260.86	252.23	8.63	30.223		
800.00	799.94	749.20	746.85	4.61	4.47	-120.97	-272.23	-7.51	279.81	270.61	9.21	30.393		
900.00	899.89	837.80	833.55	4.92	4.77	-121.08	-290.35	-9.44	301.80	291.99	9.81	30.764		
1,000.00	999.85	933.67	926.97	5.25	5.12	-121.16	-311.76	-11.73	325.65	315.22	10.44	31.205		
1,100.00	1,099.80	1,030.78	1,021.59	5.60	5.51	-121.23	-333.47	-14.04	349.53	338.43	11.10	31.487		
1,200.00	1,199.76	1,127.88	1,116.21	5.96	5.91	-121.29	-355.18	-16.36	373.42	361.62	11.80	31.656		
1,300.00	1,299.72	1,224.99	1,210.83	6.33	6.33	-121.34	-376.88	-18.67	397.30	384.78	12.52	31.742		
1,400.00	1,399.67	1,322.10	1,305.45	6.71	6.75	-121.39	-398.59	-20.99	421.18	407.92	13.26	31.768		
1,500.00	1,499.63	1,419.20	1,400.07	7.10	7.19	-121.43	-420.30	-23.30	445.06	431.04	14.02	31.750		
1,600.00	1,599.58	1,516.31	1,494.69	7.49	7.64	-121.46	-442.01	-25.62	468.95	454.15	14.79	31.701		
1,700.00	1,699.54	1,613.41	1,589.31	7.88	8.09	-121.50	-463.71	-27.93	492.83	477.25	15.58	31.631		
1,800.00	1,799.50	1,710.52	1,683.93	8.28	8.55	-121.53	-485.42	-30.25	516.71	500.33	16.38	31.546		
1,900.00	1,899.45	1,807.62	1,778.55	8.69	9.02	-121.56	-507.13	-32.56	540.59	523.41	17.19	31.452		
2,000.00	1,999.41	1,904.73	1,873.17	9.10	9.48	-121.58	-528.84	-34.88	564.48	546.47	18.00	31.352		
2,100.00	2,099.36	2,001.84	1,967.79	9.51	9.96	-121.60	-550.54	-37.19	588.36	569.53	18.83	31.248		
2,200.00	2,199.32	2,101.06	2,062.41	9.92	10.44	-121.63	-572.25	-39.51	612.25	592.58	19.67	31.129		
2,300.00	2,299.28	2,203.95	2,157.03	10.34	10.95	-121.65	-593.96	-41.82	636.13	615.60	20.53	30.985		
2,400.00	2,399.23	2,306.85	2,251.65	10.75	11.46	-121.66	-615.67	-44.14	660.01	638.62	21.40	30.846		
2,500.00	2,499.19	2,409.74	2,346.27	11.17	11.97	-121.68	-637.38	-46.45	683.90	661.63	22.27	30.712		
2,600.00	2,599.14	2,487.37	2,440.89	11.60	12.36	-121.70	-659.08	-48.77	707.78	684.75	23.03	30.736		
2,700.00	2,699.10	2,584.47	2,535.51	12.02	12.84	-121.71	-680.79	-51.08	731.66	707.78	23.88	30.639		
2,800.00	2,799.06	2,681.58	2,630.13	12.44	13.33	-121.73	-702.50	-53.40	755.55	730.81	24.73	30.546		
2,900.00	2,899.01	2,778.68	2,724.75	12.87	13.82	-121.74	-724.21	-55.71	779.43	753.84	25.59	30.455		
3,000.00	2,998.97	2,875.79	2,819.37	13.29	14.31	-121.75	-745.91	-58.03	803.32	776.86	26.45	30.368		
3,100.00	3,098.92	2,972.89	2,913.99	13.72	14.80	-121.76	-767.62	-60.34	827.20	799.88	27.32	30.283		
3,200.00	3,198.88	3,070.00	3,008.61	14.14	15.29	-121.77	-789.33	-62.66	851.08	822.90	28.18	30.202		
3,300.00	3,298.84	3,167.11	3,103.23	14.57	15.78	-121.78	-811.04	-64.97	874.97	845.92	29.05	30.123		
3,400.00	3,398.79	3,264.21	3,197.85	15.00	16.28	-121.79	-832.75	-67.29	898.85	868.94	29.91	30.047		
3,500.00	3,498.75	3,361.32	3,292.47	15.43	16.77	-121.80	-854.45	-69.60	922.74	891.95	30.78	29.974		
3,600.00	3,598.70	3,458.42	3,387.09	15.86	17.26	-121.81	-876.16	-71.92	946.62	914.96	31.66	29.904		
3,700.00	3,698.66	3,555.53	3,481.71	16.29	17.76	-121.82	-897.87	-74.23	970.50	937.98	32.53	29.836		
3,800.00	3,798.62	3,652.63	3,576.33	16.72	18.26	-121.83	-919.58	-76.54	994.39	960.99	33.40	29.771		
3,900.00	3,898.57	3,749.74	3,670.95	17.15	18.75	-121.84	-941.28	-78.86	1,018.27	984.00	34.28	29.708		
4,000.00	3,998.53	3,846.85	3,765.57	17.59	19.25	-121.84	-962.99	-81.17	1,042.16	1,007.00	35.15	29.647		
4,100.00	4,098.48	3,943.95	3,860.19	18.02	19.75	-121.85	-984.70	-83.49	1,066.04	1,030.01	36.03	29.588		
4,200.00	4,198.44	4,041.06	3,954.81	18.45	20.24	-121.86	-1,006.41	-85.80	1,089.93	1,053.02	36.91	29.532		
4,300.00	4,298.40	4,138.16	4,049.43	18.88	20.74	-121.86	-1,028.12	-88.12	1,113.81	1,076.02	37.79	29.477		
4,400.00	4,398.35	4,235.27	4,144.05	19.32	21.24	-121.87	-1,049.82	-90.43	1,137.69	1,099.03	38.66	29.425		
4,500.00	4,498.31	4,332.37	4,238.67	19.75	21.74	-121.88	-1,071.53	-92.75	1,161.58	1,122.03	39.54	29.374		
4,600.00	4,598.26	4,429.48	4,333.29	20.19	22.24	-121.88	-1,093.24	-95.06	1,185.46	1,145.04	40.43	29.324		
4,700.00	4,698.22	4,526.59	4,427.91	20.62	22.74	-121.89	-1,114.95	-97.38	1,209.35	1,168.04	41.31	29.277		
4,800.00	4,798.18	4,623.69	4,522.53	21.05	23.24	-121.89	-1,136.65	-99.69	1,233.23	1,191.04	42.19	29.231		
4,900.00	4,898.13	4,720.80	4,617.15	21.49	23.74	-121.90	-1,158.36	-102.01	1,257.12	1,214.04	43.07	29.186		
5,000.00	4,998.09	4,817.90	4,711.77	21.92	24.24	-121.90	-1,180.07	-104.32	1,281.00	1,237.05	43.96	29.143		
5,100.00	5,098.04	4,915.01	4,806.39	22.36	24.74	-121.91	-1,201.78	-106.64	1,304.88	1,260.05	44.84	29.102		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
5,200.00	5,198.00	5,012.11	4,901.01	22.79	25.24	-121.91	-1,223.49	-108.95	1,328.77	1,283.05	45.72	29.061		
5,300.00	5,297.96	5,109.22	4,995.63	23.23	25.74	-121.91	-1,245.19	-111.27	1,352.65	1,306.05	46.61	29.022		
5,400.00	5,397.91	5,206.33	5,090.25	23.67	26.24	-121.92	-1,266.90	-113.58	1,376.54	1,329.04	47.49	28.984		
5,500.00	5,497.87	5,303.43	5,184.87	24.10	26.74	-121.92	-1,288.61	-115.90	1,400.42	1,352.04	48.38	28.947		
5,600.00	5,597.82	5,400.54	5,279.49	24.54	27.24	-121.93	-1,310.32	-118.21	1,424.31	1,375.04	49.26	28.912		
5,700.00	5,697.78	5,502.36	5,374.11	24.97	27.76	-121.93	-1,332.02	-120.53	1,448.19	1,398.02	50.17	28.864		
5,800.00	5,797.74	5,605.25	5,468.73	25.41	28.30	-121.93	-1,353.73	-122.84	1,472.07	1,420.99	51.09	28.815		
5,900.00	5,897.69	5,708.14	5,563.35	25.85	28.83	-121.94	-1,375.44	-125.16	1,495.96	1,443.96	52.00	28.767		
6,000.00	5,997.65	5,788.96	5,657.97	26.28	29.24	-121.94	-1,397.15	-127.47	1,519.84	1,467.03	52.81	28.779		
6,100.00	6,097.60	5,886.07	5,752.59	26.72	29.75	-121.94	-1,418.85	-129.79	1,543.73	1,490.03	53.70	28.748		
6,200.00	6,197.56	5,983.17	5,847.21	27.16	30.25	-121.95	-1,440.56	-132.10	1,567.61	1,513.03	54.59	28.718		
6,300.00	6,297.52	6,080.28	5,941.83	27.59	30.75	-121.95	-1,462.27	-134.42	1,591.50	1,536.02	55.48	28.688		
6,400.00	6,397.47	6,177.38	6,036.45	28.03	31.25	-121.95	-1,483.98	-136.73	1,615.38	1,559.02	56.36	28.660		
6,500.00	6,497.43	6,274.49	6,131.07	28.47	31.75	-121.96	-1,505.69	-139.05	1,639.27	1,582.01	57.25	28.632		
6,600.00	6,597.38	6,371.60	6,225.69	28.90	32.26	-121.96	-1,527.39	-141.36	1,663.15	1,605.01	58.14	28.605		
6,700.00	6,697.08	6,468.56	6,320.17	29.34	32.76	-94.67	-1,549.07	-143.67	1,686.97	1,627.94	59.03	28.576		
6,800.00	6,794.63	6,563.81	6,412.98	29.79	33.25	-89.68	-1,570.36	-145.94	1,710.39	1,650.46	59.93	28.541		
6,900.00	6,887.62	6,658.92	6,505.58	30.24	33.74	-87.60	-1,591.62	-149.85	1,733.28	1,672.43	60.85	28.484		
7,000.00	6,973.77	6,761.85	6,604.22	30.70	34.26	-86.30	-1,614.35	-167.89	1,755.23	1,693.35	61.87	28.369		
7,100.00	7,050.94	6,872.41	6,705.49	31.20	34.77	-85.40	-1,637.81	-205.13	1,775.63	1,712.65	62.98	28.192		
7,200.00	7,117.24	6,991.98	6,806.11	31.77	35.26	-84.80	-1,661.27	-264.95	1,793.88	1,729.68	64.20	27.940		
7,300.00	7,171.03	7,121.65	6,900.80	32.46	35.73	-84.45	-1,683.53	-350.36	1,809.31	1,743.71	65.59	27.584		
7,400.00	7,211.00	7,261.71	6,981.83	33.29	36.18	-84.31	-1,702.84	-462.60	1,821.23	1,753.97	67.26	27.076		
7,500.00	7,236.16	7,411.00	7,039.66	34.29	36.70	-84.29	-1,716.99	-599.14	1,829.01	1,759.63	69.38	26.364		
7,600.00	7,245.89	7,566.49	7,065.29	35.43	37.57	-84.35	-1,723.86	-751.96	1,832.15	1,760.13	72.02	25.439		
7,700.00	7,245.73	7,678.21	7,065.82	36.72	38.59	-84.36	-1,724.71	-863.66	1,832.06	1,757.41	74.65	24.542		
7,800.00	7,245.42	7,778.21	7,065.59	38.18	39.78	-84.37	-1,725.31	-963.66	1,831.88	1,754.40	77.49	23.641		
7,900.00	7,245.10	7,878.21	7,063.36	39.80	41.19	-84.37	-1,725.91	-1,063.66	1,831.71	1,751.08	80.63	22.719		
8,000.00	7,244.79	7,978.21	7,065.13	41.54	42.78	-84.37	-1,726.51	-1,163.65	1,831.53	1,747.50	84.03	21.795		
8,100.00	7,244.48	8,078.21	7,064.90	43.41	44.51	-84.37	-1,727.11	-1,263.65	1,831.36	1,743.68	87.68	20.887		
8,200.00	7,244.17	8,178.21	7,064.67	45.38	46.37	-84.37	-1,727.70	-1,363.65	1,831.18	1,739.65	91.53	20.006		
8,300.00	7,243.86	8,278.21	7,064.44	47.44	48.33	-84.38	-1,728.30	-1,463.65	1,831.00	1,735.43	95.57	19.158		
8,400.00	7,243.55	8,378.21	7,064.21	49.58	50.38	-84.38	-1,728.90	-1,563.64	1,830.83	1,731.06	99.77	18.350		
8,500.00	7,243.23	8,478.21	7,063.98	51.78	52.50	-84.38	-1,729.50	-1,663.64	1,830.65	1,726.54	104.11	17.584		
8,600.00	7,242.92	8,578.21	7,063.75	54.05	54.70	-84.38	-1,730.10	-1,763.64	1,830.48	1,721.90	108.58	16.859		
8,700.00	7,242.61	8,678.21	7,063.52	56.37	56.96	-84.38	-1,730.70	-1,863.64	1,830.30	1,717.15	113.15	16.175		
8,800.00	7,242.30	8,778.21	7,063.29	58.74	59.27	-84.39	-1,731.30	-1,963.64	1,830.12	1,712.30	117.83	15.532		
8,900.00	7,241.99	8,878.21	7,063.06	61.16	61.63	-84.39	-1,731.90	-2,063.63	1,829.95	1,707.36	122.59	14.928		
9,000.00	7,241.67	8,978.21	7,062.83	63.61	64.03	-84.39	-1,732.50	-2,163.63	1,829.77	1,702.35	127.42	14.360		
9,100.00	7,241.36	9,078.21	7,062.60	66.09	66.46	-84.39	-1,733.09	-2,263.63	1,829.60	1,697.27	132.33	13.826		
9,200.00	7,241.05	9,178.21	7,062.36	68.60	68.93	-84.40	-1,733.69	-2,363.63	1,829.42	1,692.13	137.29	13.325		
9,300.00	7,240.74	9,278.20	7,062.13	71.13	71.43	-84.40	-1,734.29	-2,463.62	1,829.25	1,686.94	142.31	12.854		
9,400.00	7,240.43	9,378.20	7,061.90	73.70	73.96	-84.40	-1,734.89	-2,563.62	1,829.07	1,681.69	147.38	12.411		
9,500.00	7,240.11	9,478.20	7,061.67	76.28	76.50	-84.40	-1,735.49	-2,663.62	1,828.89	1,676.40	152.49	11.994		
9,600.00	7,239.80	9,578.20	7,061.44	78.88	79.07	-84.40	-1,736.09	-2,763.62	1,828.72	1,671.08	157.64	11.600		
9,700.00	7,239.49	9,678.20	7,061.21	81.50	81.66	-84.41	-1,736.69	-2,863.62	1,828.54	1,665.71	162.83	11.230		
9,800.00	7,239.18	9,778.20	7,060.98	84.13	84.27	-84.41	-1,737.29	-2,963.61	1,828.37	1,660.32	168.05	10.880		
9,900.00	7,238.87	9,878.20	7,060.75	86.78	86.89	-84.41	-1,737.88	-3,063.61	1,828.19	1,654.89	173.30	10.549		
10,000.00	7,238.55	9,978.20	7,060.52	89.44	89.53	-84.41	-1,738.48	-3,163.61	1,828.01	1,649.44	178.58	10.237		
10,100.00	7,238.24	10,078.20	7,060.29	92.11	92.18	-84.41	-1,739.08	-3,263.61	1,827.84	1,643.96	183.88	9.940		
10,200.00	7,237.93	10,178.20	7,060.06	94.80	94.84	-84.42	-1,739.68	-3,363.60	1,827.66	1,638.46	189.20	9.660		
10,300.00	7,237.62	10,278.20	7,059.83	97.49	97.52	-84.42	-1,740.28	-3,463.60	1,827.49	1,632.94	194.55	9.393		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
10,400.00	7,237.31	10,378.20	7,059.60	100.19	100.20	-84.42	-1,740.88	-3,563.60	1,827.31	1,627.40	199.91	9.140		
10,500.00	7,236.99	10,478.20	7,059.37	102.90	102.90	-84.42	-1,741.48	-3,663.60	1,827.13	1,621.84	205.30	8.900		
10,600.00	7,236.68	10,578.20	7,059.14	105.62	105.60	-84.42	-1,742.08	-3,763.60	1,826.96	1,616.26	210.70	8.671		
10,700.00	7,236.37	10,678.20	7,058.91	108.35	108.31	-84.43	-1,742.68	-3,863.59	1,826.78	1,610.67	216.11	8.453		
10,800.00	7,236.06	10,778.20	7,058.68	111.08	111.03	-84.43	-1,743.27	-3,963.59	1,826.61	1,605.07	221.54	8.245		
10,900.00	7,235.75	10,878.20	7,058.45	113.82	113.75	-84.43	-1,743.87	-4,063.59	1,826.43	1,599.45	226.98	8.047		
11,000.00	7,235.44	10,978.20	7,058.22	116.56	116.48	-84.43	-1,744.47	-4,163.59	1,826.26	1,593.83	232.43	7.857		
11,100.00	7,235.12	11,078.20	7,057.99	119.31	119.22	-84.43	-1,745.07	-4,263.58	1,826.08	1,588.19	237.89	7.676		
11,200.00	7,234.81	11,178.20	7,057.76	122.07	121.96	-84.44	-1,745.67	-4,363.58	1,825.90	1,582.53	243.37	7.503		
11,300.00	7,234.50	11,278.20	7,057.53	124.83	124.71	-84.44	-1,746.27	-4,463.58	1,825.73	1,576.87	248.85	7.337		
11,400.00	7,234.19	11,378.20	7,057.30	127.59	127.46	-84.44	-1,746.87	-4,563.58	1,825.55	1,571.21	254.35	7.177		
11,500.00	7,233.88	11,478.20	7,057.07	130.36	130.22	-84.44	-1,747.47	-4,663.57	1,825.38	1,565.53	259.85	7.025		
11,600.00	7,233.56	11,578.20	7,056.84	133.13	132.98	-84.44	-1,748.06	-4,763.57	1,825.20	1,559.84	265.36	6.878		
11,700.00	7,233.25	11,678.20	7,056.61	135.91	135.75	-84.45	-1,748.66	-4,863.57	1,825.02	1,554.15	270.88	6.737		
11,800.00	7,232.94	11,778.20	7,056.37	138.68	138.52	-84.45	-1,749.26	-4,963.57	1,824.85	1,548.45	276.40	6.602		
11,900.00	7,232.63	11,878.20	7,056.14	141.47	141.29	-84.45	-1,749.86	-5,063.57	1,824.67	1,542.74	281.93	6.472		
12,000.00	7,232.32	11,978.20	7,055.91	144.25	144.07	-84.45	-1,750.46	-5,163.56	1,824.50	1,537.03	287.47	6.347		
12,100.00	7,232.00	12,078.20	7,055.68	147.04	146.85	-84.45	-1,751.06	-5,263.56	1,824.32	1,531.31	293.01	6.226		
12,200.00	7,231.69	12,178.20	7,055.45	149.83	149.63	-84.46	-1,751.66	-5,363.56	1,824.14	1,525.58	298.56	6.110		
12,300.00	7,231.38	12,278.20	7,055.22	152.62	152.42	-84.46	-1,752.26	-5,463.56	1,823.97	1,519.85	304.12	5.998		
12,400.00	7,231.07	12,378.20	7,054.99	155.42	155.20	-84.46	-1,752.86	-5,563.55	1,823.79	1,514.12	309.68	5.889		
12,500.00	7,230.76	12,478.20	7,054.76	158.22	158.00	-84.46	-1,753.45	-5,663.55	1,823.62	1,508.38	315.24	5.785		
12,600.00	7,230.44	12,578.20	7,054.53	161.01	160.79	-84.46	-1,754.05	-5,763.55	1,823.44	1,502.63	320.81	5.684		
12,700.00	7,230.13	12,678.20	7,054.30	163.82	163.58	-84.47	-1,754.65	-5,863.55	1,823.27	1,496.88	326.38	5.586		
12,800.00	7,229.82	12,778.20	7,054.07	166.62	166.38	-84.47	-1,755.25	-5,963.55	1,823.09	1,491.13	331.96	5.492		
12,900.00	7,229.51	12,878.20	7,053.84	169.43	169.18	-84.47	-1,755.85	-6,063.54	1,822.91	1,485.37	337.54	5.401		
13,000.00	7,229.20	12,978.20	7,053.61	172.23	171.98	-84.47	-1,756.45	-6,163.54	1,822.74	1,479.61	343.13	5.312		
13,100.00	7,228.88	13,078.20	7,053.38	175.04	174.79	-84.47	-1,757.05	-6,263.54	1,822.56	1,473.85	348.72	5.226		
13,200.00	7,228.57	13,178.20	7,053.15	177.85	177.59	-84.48	-1,757.65	-6,363.54	1,822.39	1,468.08	354.31	5.143		
13,300.00	7,228.26	13,278.20	7,052.92	180.66	180.40	-84.48	-1,758.24	-6,463.53	1,822.21	1,462.31	359.90	5.063		
13,400.00	7,227.95	13,378.20	7,052.69	183.48	183.21	-84.48	-1,758.84	-6,563.53	1,822.04	1,456.53	365.50	4.985		
13,500.00	7,227.64	13,478.20	7,052.46	186.29	186.02	-84.48	-1,759.44	-6,663.53	1,821.86	1,450.76	371.10	4.909		
13,600.00	7,227.33	13,578.20	7,052.23	189.11	188.83	-84.48	-1,760.04	-6,763.53	1,821.68	1,444.98	376.71	4.836		
13,700.00	7,227.01	13,678.20	7,052.00	191.92	191.64	-84.49	-1,760.64	-6,863.53	1,821.51	1,439.19	382.31	4.764		
13,800.00	7,226.70	13,778.20	7,051.77	194.74	194.46	-84.49	-1,761.24	-6,963.52	1,821.33	1,433.41	387.92	4.695		
13,900.00	7,226.39	13,878.20	7,051.54	197.56	197.27	-84.49	-1,761.84	-7,063.52	1,821.16	1,427.62	393.53	4.628		
14,000.00	7,226.08	13,978.20	7,051.31	200.38	200.09	-84.49	-1,762.44	-7,163.52	1,820.98	1,421.83	399.15	4.562		
14,100.00	7,225.77	14,078.20	7,051.08	203.21	202.91	-84.49	-1,763.04	-7,263.52	1,820.80	1,416.04	404.76	4.498		
14,200.00	7,225.45	14,178.20	7,050.85	206.03	205.72	-84.50	-1,763.63	-7,363.51	1,820.63	1,410.25	410.38	4.436		
14,300.00	7,225.14	14,278.20	7,050.62	208.85	208.54	-84.50	-1,764.23	-7,463.51	1,820.45	1,404.45	416.00	4.376		
14,400.00	7,224.83	14,378.20	7,050.38	211.68	211.37	-84.50	-1,764.83	-7,563.51	1,820.28	1,398.65	421.63	4.317		
14,500.00	7,224.52	14,478.20	7,050.15	214.50	214.19	-84.50	-1,765.43	-7,663.51	1,820.10	1,392.85	427.25	4.260		
14,600.00	7,224.21	14,578.20	7,049.92	217.33	217.01	-84.51	-1,766.03	-7,763.51	1,819.93	1,387.05	432.88	4.204		
14,700.00	7,223.89	14,678.20	7,049.69	220.16	219.83	-84.51	-1,766.63	-7,863.50	1,819.75	1,381.25	438.50	4.150		
14,800.00	7,223.58	14,778.20	7,049.46	222.98	222.66	-84.51	-1,767.23	-7,963.50	1,819.57	1,375.44	444.13	4.097		
14,900.00	7,223.27	14,878.20	7,049.23	225.81	225.49	-84.51	-1,767.83	-8,063.50	1,819.40	1,369.63	449.76	4.045		
14,987.41	7,223.00	14,965.61	7,049.03	228.28	227.96	-84.51	-1,768.35	-8,150.91	1,819.24	1,364.56	454.69	4.001 SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1.00	0.00	3.28	3.28	-179.52	-200.00	-1.67	200.00					
100.00	100.00	101.00	100.00	3.28	3.28	-179.52	-200.00	-1.67	200.00	193.43	6.57	30.444		
200.00	200.00	199.00	200.00	3.34	3.34	-179.52	-200.00	-1.67	200.00	193.33	6.67	29.971	CC, ES	
300.00	300.00	292.55	293.53	3.44	3.43	-179.47	-201.48	-1.86	201.59	194.71	6.89	29.280		
400.00	400.00	385.84	386.71	3.60	3.57	-179.32	-205.97	-2.44	206.41	199.21	7.20	28.656		
500.00	500.00	478.74	479.30	3.81	3.75	-179.09	-213.43	-3.40	214.46	206.85	7.61	28.169		
600.00	600.00	571.05	571.01	4.05	3.96	-178.79	-223.79	-4.74	225.71	217.61	8.10	27.872		
700.00	699.98	662.47	661.46	4.32	4.20	-120.55	-236.94	-6.43	240.99	232.35	8.64	27.890		
800.00	799.94	755.08	752.63	4.61	4.49	-120.70	-253.03	-8.51	259.89	250.68	9.21	28.211		
900.00	899.89	853.11	849.02	4.92	4.82	-120.82	-270.84	-10.81	279.59	269.78	9.81	28.511		
1,000.00	999.85	951.15	945.40	5.25	5.18	-120.92	-288.64	-13.10	299.28	288.83	10.45	28.634		
1,100.00	1,099.80	1,049.19	1,041.78	5.60	5.55	-121.01	-306.44	-15.40	318.98	307.85	11.13	28.664		
1,200.00	1,199.76	1,147.23	1,138.16	5.96	5.94	-121.09	-324.24	-17.70	338.68	326.85	11.83	28.622		
1,300.00	1,299.72	1,245.27	1,234.55	6.33	6.35	-121.16	-342.05	-19.99	358.38	345.82	12.56	28.531		
1,400.00	1,399.67	1,343.31	1,330.93	6.71	6.76	-121.22	-359.85	-22.29	378.08	364.77	13.31	28.408		
1,500.00	1,499.63	1,441.35	1,427.31	7.10	7.19	-121.28	-377.65	-24.58	397.78	383.70	14.07	28.264		
1,600.00	1,599.58	1,539.39	1,523.69	7.49	7.62	-121.33	-395.46	-26.88	417.48	402.62	14.85	28.109		
1,700.00	1,699.54	1,637.43	1,620.07	7.88	8.06	-121.38	-413.26	-29.18	437.18	421.53	15.64	27.948		
1,800.00	1,799.50	1,735.47	1,716.46	8.28	8.50	-121.42	-431.06	-31.47	456.88	440.43	16.44	27.785		
1,900.00	1,899.45	1,833.51	1,812.84	8.69	8.95	-121.46	-448.87	-33.77	476.58	459.32	17.25	27.623		
2,000.00	1,999.41	1,931.55	1,909.22	9.10	9.40	-121.50	-466.67	-36.07	496.28	478.21	18.07	27.465		
2,100.00	2,099.36	2,029.59	2,005.60	9.51	9.86	-121.53	-484.47	-38.36	515.98	497.09	18.89	27.310		
2,200.00	2,199.32	2,127.63	2,101.99	9.92	10.31	-121.56	-502.27	-40.66	535.68	515.96	19.72	27.160		
2,300.00	2,299.28	2,225.67	2,198.37	10.34	10.77	-121.59	-520.08	-42.96	555.38	534.82	20.56	27.016		
2,400.00	2,399.23	2,323.71	2,294.75	10.75	11.24	-121.62	-537.88	-45.25	575.08	553.69	21.40	26.877		
2,500.00	2,499.19	2,421.75	2,391.13	11.17	11.70	-121.64	-555.68	-47.55	594.79	572.55	22.24	26.744		
2,600.00	2,599.14	2,519.79	2,487.52	11.60	12.17	-121.67	-573.49	-49.85	614.49	591.40	23.09	26.617		
2,700.00	2,699.10	2,617.83	2,585.90	12.02	12.63	-121.69	-591.29	-52.14	634.19	610.25	23.94	26.495		
2,800.00	2,799.06	2,715.87	2,680.28	12.44	13.10	-121.71	-609.09	-54.44	653.89	629.10	24.79	26.379		
2,900.00	2,899.01	2,813.91	2,776.66	12.87	13.57	-121.73	-626.89	-56.73	673.59	647.95	25.64	26.267		
3,000.00	2,998.97	2,911.95	2,873.05	13.29	14.04	-121.75	-644.70	-59.03	693.29	666.79	26.50	26.161		
3,100.00	3,098.92	3,009.99	2,969.43	13.72	14.51	-121.76	-662.50	-61.33	713.00	685.64	27.36	26.059		
3,200.00	3,198.88	3,108.03	3,065.81	14.14	14.99	-121.78	-680.30	-63.62	732.70	704.48	28.22	25.962		
3,300.00	3,298.84	3,206.07	3,162.19	14.57	15.46	-121.80	-698.11	-65.92	752.40	723.32	29.09	25.869		
3,400.00	3,398.79	3,304.11	3,258.58	15.00	15.94	-121.81	-715.91	-68.22	772.10	742.15	29.95	25.779		
3,500.00	3,498.75	3,402.15	3,354.96	15.43	16.41	-121.82	-733.71	-70.51	791.81	760.99	30.82	25.694		
3,600.00	3,598.70	3,500.19	3,451.34	15.86	16.89	-121.84	-751.51	-72.81	811.51	779.82	31.68	25.612		
3,700.00	3,698.66	3,601.77	3,547.72	16.29	17.38	-121.85	-769.32	-75.11	831.21	798.64	32.57	25.521		
3,800.00	3,798.62	3,703.73	3,644.10	16.72	17.88	-121.86	-787.12	-77.40	850.91	817.46	33.46	25.433		
3,900.00	3,898.57	3,805.69	3,740.49	17.15	18.37	-121.87	-804.92	-79.70	870.62	836.27	34.35	25.348		
4,000.00	3,998.53	3,907.65	3,836.87	17.59	18.87	-121.88	-822.73	-82.00	890.32	855.08	35.24	25.267		
4,100.00	4,098.48	3,990.39	3,933.25	18.02	19.27	-121.90	-840.53	-84.29	910.02	873.98	36.04	25.251		
4,200.00	4,198.44	4,088.42	4,029.63	18.45	19.75	-121.91	-858.33	-86.59	929.72	892.81	36.91	25.187		
4,300.00	4,298.40	4,186.46	4,126.02	18.88	20.23	-121.92	-876.14	-88.88	949.43	911.64	37.79	25.125		
4,400.00	4,398.35	4,284.50	4,222.40	19.32	20.71	-121.92	-893.94	-91.18	969.13	930.47	38.66	25.066		
4,500.00	4,498.31	4,382.54	4,318.78	19.75	21.19	-121.93	-911.74	-93.48	988.83	949.29	39.54	25.009		
4,600.00	4,598.26	4,480.58	4,415.16	20.19	21.67	-121.94	-929.54	-95.77	1,008.53	968.12	40.42	24.954		
4,700.00	4,698.22	4,578.62	4,511.55	20.62	22.15	-121.95	-947.35	-98.07	1,028.24	986.94	41.29	24.901		
4,800.00	4,798.18	4,676.66	4,607.93	21.05	22.63	-121.96	-965.15	-100.37	1,047.94	1,005.77	42.17	24.850		
4,900.00	4,898.13	4,774.70	4,704.31	21.49	23.11	-121.97	-982.95	-102.66	1,067.64	1,024.59	43.05	24.801		
5,000.00	4,998.09	4,872.74	4,800.69	21.92	23.59	-121.97	-1,000.76	-104.96	1,087.34	1,043.42	43.93	24.753		
5,100.00	5,098.04	4,970.78	4,897.08	22.36	24.07	-121.98	-1,018.56	-107.26	1,107.05	1,062.24	44.81	24.707		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,068.82	4,993.46	22.79	24.55	-121.99	-1,036.36	-109.55	1,126.75	1,081.06	45.69	24.663		
5,300.00	5,297.96	5,166.86	5,089.84	23.23	25.03	-121.99	-1,054.16	-111.85	1,146.45	1,099.89	46.57	24.620		
5,400.00	5,397.91	5,264.90	5,186.22	23.67	25.51	-122.00	-1,071.97	-114.14	1,166.16	1,118.71	47.45	24.578		
5,500.00	5,497.87	5,362.94	5,282.61	24.10	26.00	-122.01	-1,089.77	-116.44	1,185.86	1,137.53	48.33	24.538		
5,600.00	5,597.82	5,460.98	5,378.99	24.54	26.48	-122.01	-1,107.57	-118.74	1,205.56	1,156.35	49.21	24.498		
5,700.00	5,697.78	5,559.02	5,475.37	24.97	26.96	-122.02	-1,125.38	-121.03	1,225.26	1,175.17	50.09	24.461		
5,800.00	5,797.74	5,657.06	5,571.75	25.41	27.44	-122.02	-1,143.18	-123.33	1,244.97	1,193.99	50.97	24.424		
5,900.00	5,897.69	5,755.10	5,668.14	25.85	27.92	-122.03	-1,160.98	-125.63	1,264.67	1,212.81	51.86	24.388		
6,000.00	5,997.65	5,853.14	5,764.52	26.28	28.41	-122.03	-1,178.79	-127.92	1,284.37	1,231.63	52.74	24.354		
6,100.00	6,097.60	5,951.18	5,860.90	26.72	28.89	-122.04	-1,196.59	-130.22	1,304.08	1,250.45	53.62	24.320		
6,200.00	6,197.56	6,049.22	5,957.28	27.16	29.37	-122.04	-1,214.39	-132.52	1,323.78	1,269.27	54.50	24.287		
6,300.00	6,297.52	6,147.26	6,053.66	27.59	29.85	-122.05	-1,232.19	-134.81	1,343.48	1,288.09	55.39	24.256		
6,400.00	6,397.47	6,245.30	6,150.05	28.03	30.34	-122.05	-1,250.00	-137.11	1,363.18	1,306.91	56.27	24.225		
6,500.00	6,497.43	6,343.34	6,246.43	28.47	30.82	-122.06	-1,267.80	-139.41	1,382.89	1,325.73	57.16	24.195		
6,600.00	6,597.38	6,441.38	6,342.81	28.90	31.30	-122.06	-1,285.60	-141.70	1,402.59	1,344.55	58.04	24.166		
6,700.00	6,697.08	6,539.27	6,439.05	29.34	31.79	-95.09	-1,303.38	-143.99	1,422.24	1,363.32	58.93	24.136		
6,800.00	6,794.63	6,635.45	6,533.60	29.79	32.26	-90.60	-1,320.84	-146.25	1,441.62	1,381.80	59.82	24.100		
6,900.00	6,887.62	6,733.31	6,629.20	30.24	32.74	-88.87	-1,338.63	-156.37	1,460.65	1,399.90	60.75	24.045		
7,000.00	6,973.77	6,835.81	6,726.40	30.70	33.21	-87.79	-1,356.99	-182.78	1,478.93	1,417.20	61.73	23.958		
7,100.00	7,050.94	6,943.67	6,822.74	31.20	33.67	-87.05	-1,375.49	-227.32	1,495.99	1,433.21	62.78	23.830		
7,200.00	7,117.24	7,057.55	6,914.83	31.77	34.11	-86.54	-1,393.54	-291.57	1,511.33	1,447.40	63.93	23.642		
7,300.00	7,171.03	7,177.82	6,998.18	32.46	34.53	-86.23	-1,410.32	-376.38	1,524.44	1,459.19	65.25	23.362		
7,400.00	7,211.00	7,304.44	7,067.30	33.29	34.95	-86.06	-1,424.81	-481.22	1,534.84	1,467.98	66.86	22.955		
7,500.00	7,236.16	7,436.69	7,116.21	34.29	35.53	-86.03	-1,435.86	-603.34	1,542.06	1,473.17	68.89	22.384		
7,600.00	7,245.89	7,573.10	7,139.55	35.43	36.51	-86.07	-1,442.40	-737.32	1,545.75	1,474.38	71.37	21.658		
7,700.00	7,245.73	7,686.03	7,140.64	36.72	37.69	-86.10	-1,444.49	-850.19	1,546.72	1,472.72	74.00	20.902		
7,800.00	7,245.42	7,786.03	7,140.10	38.18	38.98	-86.10	-1,446.06	-950.18	1,547.54	1,470.69	76.84	20.139		
7,900.00	7,245.10	7,886.03	7,139.55	39.80	40.45	-86.09	-1,447.63	-1,050.16	1,548.35	1,468.36	79.99	19.357		
8,000.00	7,244.79	7,986.02	7,139.01	41.54	42.08	-86.08	-1,449.20	-1,150.14	1,549.17	1,465.76	83.41	18.574		
8,100.00	7,244.48	8,086.02	7,138.47	43.41	43.84	-86.08	-1,450.77	-1,250.13	1,549.99	1,462.92	87.06	17.803		
8,200.00	7,244.17	8,186.02	7,137.93	45.38	45.72	-86.07	-1,452.34	-1,350.11	1,550.80	1,459.87	90.93	17.055		
8,300.00	7,243.86	8,286.01	7,137.39	47.44	47.70	-86.06	-1,453.91	-1,450.09	1,551.62	1,456.63	94.98	16.336		
8,400.00	7,243.55	8,386.01	7,136.84	49.58	49.77	-86.06	-1,455.48	-1,550.07	1,552.43	1,453.24	99.20	15.650		
8,500.00	7,243.23	8,486.01	7,136.30	51.78	51.91	-86.05	-1,457.05	-1,650.06	1,553.25	1,449.70	103.55	14.999		
8,600.00	7,242.92	8,586.00	7,135.76	54.05	54.12	-86.04	-1,458.62	-1,750.04	1,554.07	1,446.03	108.04	14.385		
8,700.00	7,242.61	8,686.00	7,135.22	56.37	56.39	-86.04	-1,460.19	-1,850.02	1,554.88	1,442.26	112.63	13.806		
8,800.00	7,242.30	8,785.99	7,134.68	58.74	58.71	-86.03	-1,461.76	-1,950.00	1,555.70	1,438.38	117.32	13.261		
8,900.00	7,241.99	8,885.99	7,134.14	61.16	61.07	-86.03	-1,463.33	-2,049.99	1,556.52	1,434.43	122.09	12.749		
9,000.00	7,241.67	8,985.99	7,133.59	63.61	63.48	-86.02	-1,464.90	-2,149.97	1,557.33	1,430.39	126.94	12.268		
9,100.00	7,241.36	9,085.98	7,133.05	66.09	65.92	-86.01	-1,466.47	-2,249.95	1,558.15	1,426.29	131.86	11.817		
9,200.00	7,241.05	9,185.98	7,132.51	68.60	68.40	-86.01	-1,468.04	-2,349.94	1,558.97	1,422.12	136.84	11.393		
9,300.00	7,240.74	9,285.98	7,131.97	71.13	70.90	-86.00	-1,469.61	-2,449.92	1,559.78	1,417.91	141.88	10.994		
9,400.00	7,240.43	9,385.97	7,131.43	73.70	73.43	-85.99	-1,471.18	-2,549.90	1,560.60	1,413.64	146.96	10.619		
9,500.00	7,240.11	9,485.97	7,130.88	76.28	75.98	-85.99	-1,472.75	-2,649.88	1,561.42	1,409.33	152.08	10.267		
9,600.00	7,239.80	9,585.97	7,130.34	78.88	78.56	-85.98	-1,474.32	-2,749.87	1,562.23	1,404.98	157.25	9.935		
9,700.00	7,239.49	9,685.96	7,129.80	81.50	81.15	-85.97	-1,475.89	-2,849.85	1,563.05	1,400.60	162.45	9.622		
9,800.00	7,239.18	9,785.96	7,129.26	84.13	83.76	-85.97	-1,477.46	-2,949.83	1,563.87	1,396.18	167.68	9.326		
9,900.00	7,238.87	9,885.96	7,128.72	86.78	86.39	-85.96	-1,479.03	-3,049.81	1,564.68	1,391.74	172.95	9.047		
10,000.00	7,238.55	9,985.95	7,128.17	89.44	89.03	-85.96	-1,480.60	-3,149.80	1,565.50	1,387.26	178.24	8.783		
10,100.00	7,238.24	10,085.95	7,127.63	92.11	91.68	-85.95	-1,482.17	-3,249.78	1,566.32	1,382.77	183.55	8.533		
10,200.00	7,237.93	10,185.95	7,127.09	94.80	94.34	-85.94	-1,483.74	-3,349.76	1,567.13	1,378.25	188.89	8.297		
10,300.00	7,237.62	10,285.94	7,126.55	97.49	97.02	-85.94	-1,485.31	-3,449.75	1,567.95	1,373.71	194.24	8.072		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	10,385.94	7,126.01	100.19	99.70	-85.93	-1,486.88	-3,549.73	1,568.77	1,369.15	199.62	7.859		
10,500.00	7,236.99	10,485.94	7,125.46	102.90	102.40	-85.92	-1,488.45	-3,649.71	1,569.58	1,364.57	205.01	7.656		
10,600.00	7,236.68	10,585.93	7,124.92	105.62	105.10	-85.92	-1,490.02	-3,749.69	1,570.40	1,359.98	210.42	7.463		
10,700.00	7,236.37	10,685.93	7,124.38	108.35	107.81	-85.91	-1,491.59	-3,849.68	1,571.22	1,355.37	215.85	7.279		
10,800.00	7,236.06	10,785.93	7,123.84	111.08	110.53	-85.90	-1,493.16	-3,949.66	1,572.03	1,350.75	221.28	7.104		
10,900.00	7,235.75	10,885.92	7,123.30	113.82	113.26	-85.90	-1,494.73	-4,049.64	1,572.85	1,346.12	226.73	6.937		
11,000.00	7,235.44	10,985.92	7,122.75	116.56	115.99	-85.89	-1,496.30	-4,149.62	1,573.67	1,341.47	232.20	6.777		
11,100.00	7,235.12	11,085.91	7,122.21	119.31	118.73	-85.89	-1,497.87	-4,249.61	1,574.48	1,336.82	237.67	6.625		
11,200.00	7,234.81	11,185.91	7,121.67	122.07	121.47	-85.88	-1,499.44	-4,349.59	1,575.30	1,332.15	243.15	6.479		
11,300.00	7,234.50	11,285.91	7,121.13	124.83	124.22	-85.87	-1,501.01	-4,449.57	1,576.12	1,327.47	248.65	6.339		
11,400.00	7,234.19	11,385.90	7,120.59	127.59	126.97	-85.87	-1,502.58	-4,549.56	1,576.94	1,322.79	254.15	6.205		
11,500.00	7,233.88	11,485.90	7,120.04	130.36	129.73	-85.86	-1,504.15	-4,649.54	1,577.75	1,318.09	259.66	6.076		
11,600.00	7,233.56	11,585.90	7,119.50	133.13	132.49	-85.85	-1,505.72	-4,749.52	1,578.57	1,313.39	265.18	5.953		
11,700.00	7,233.25	11,685.89	7,118.96	135.91	135.25	-85.85	-1,507.29	-4,849.50	1,579.39	1,308.68	270.70	5.834		
11,800.00	7,232.94	11,785.89	7,118.42	138.68	138.02	-85.84	-1,508.86	-4,949.49	1,580.20	1,303.97	276.23	5.721		
11,900.00	7,232.63	11,885.89	7,117.88	141.47	140.79	-85.84	-1,510.43	-5,049.47	1,581.02	1,299.25	281.77	5.611		
12,000.00	7,232.32	11,985.88	7,117.33	144.25	143.57	-85.83	-1,512.00	-5,149.45	1,581.84	1,294.52	287.32	5.506		
12,100.00	7,232.00	12,085.88	7,116.79	147.04	146.35	-85.82	-1,513.57	-5,249.43	1,582.66	1,289.79	292.87	5.404		
12,200.00	7,231.69	12,185.88	7,116.25	149.83	149.13	-85.82	-1,515.14	-5,349.42	1,583.47	1,285.05	298.43	5.306		
12,300.00	7,231.38	12,285.87	7,115.71	152.62	151.91	-85.81	-1,516.71	-5,449.40	1,584.29	1,280.30	303.99	5.212		
12,400.00	7,231.07	12,385.87	7,115.17	155.42	154.70	-85.81	-1,518.28	-5,549.38	1,585.11	1,275.55	309.55	5.121		
12,500.00	7,230.76	12,485.87	7,114.63	158.22	157.49	-85.80	-1,519.85	-5,649.37	1,585.92	1,270.80	315.12	5.033		
12,600.00	7,230.44	12,585.86	7,114.08	161.01	160.28	-85.79	-1,521.42	-5,749.35	1,586.74	1,266.04	320.70	4.948		
12,700.00	7,230.13	12,685.86	7,113.54	163.82	163.07	-85.79	-1,522.99	-5,849.33	1,587.56	1,261.28	326.28	4.866		
12,800.00	7,229.82	12,785.86	7,113.00	166.62	165.87	-85.78	-1,524.56	-5,949.31	1,588.38	1,256.51	331.86	4.786		
12,900.00	7,229.51	12,885.85	7,112.46	169.43	168.67	-85.77	-1,526.13	-6,049.30	1,589.19	1,251.74	337.45	4.709		
13,000.00	7,229.20	12,985.85	7,111.92	172.23	171.47	-85.77	-1,527.70	-6,149.28	1,590.01	1,246.97	343.04	4.635		
13,100.00	7,228.88	13,085.85	7,111.37	175.04	174.27	-85.76	-1,529.27	-6,249.26	1,590.83	1,242.19	348.63	4.563		
13,200.00	7,228.57	13,185.84	7,110.83	177.85	177.07	-85.76	-1,530.84	-6,349.24	1,591.64	1,237.41	354.23	4.493		
13,300.00	7,228.26	13,285.84	7,110.29	180.66	179.88	-85.75	-1,532.41	-6,449.23	1,592.46	1,232.63	359.83	4.426		
13,400.00	7,227.95	13,385.83	7,109.75	183.48	182.69	-85.74	-1,533.98	-6,549.21	1,593.28	1,227.85	365.43	4.360		
13,500.00	7,227.64	13,485.83	7,109.21	186.29	185.49	-85.74	-1,535.55	-6,649.19	1,594.10	1,223.06	371.04	4.296		
13,600.00	7,227.33	13,585.83	7,108.66	189.11	188.30	-85.73	-1,537.12	-6,749.18	1,594.91	1,218.27	376.65	4.234		
13,700.00	7,227.01	13,685.82	7,108.12	191.92	191.11	-85.73	-1,538.69	-6,849.16	1,595.73	1,213.47	382.26	4.174		
13,800.00	7,226.70	13,785.82	7,107.58	194.74	193.93	-85.72	-1,540.26	-6,949.14	1,596.55	1,208.68	387.87	4.116		
13,900.00	7,226.39	13,885.82	7,107.04	197.56	196.74	-85.71	-1,541.83	-7,049.12	1,597.37	1,203.88	393.49	4.060		
14,000.00	7,226.08	13,985.81	7,106.50	200.38	199.55	-85.71	-1,543.40	-7,149.11	1,598.18	1,199.08	399.11	4.004		
14,100.00	7,225.77	14,085.81	7,105.95	203.21	202.37	-85.70	-1,544.97	-7,249.09	1,599.00	1,194.28	404.73	3.951		
14,200.00	7,225.45	14,185.81	7,105.41	206.03	205.19	-85.70	-1,546.54	-7,349.07	1,599.82	1,189.47	410.35	3.899		
14,300.00	7,225.14	14,285.80	7,104.87	208.85	208.00	-85.69	-1,548.11	-7,449.05	1,600.64	1,184.67	415.97	3.848		
14,400.00	7,224.83	14,385.80	7,104.33	211.68	210.82	-85.68	-1,549.68	-7,549.04	1,601.45	1,179.86	421.60	3.799		
14,500.00	7,224.52	14,485.80	7,103.79	214.50	213.64	-85.68	-1,551.25	-7,649.02	1,602.27	1,175.05	427.22	3.750		
14,600.00	7,224.21	14,585.79	7,103.24	217.33	216.46	-85.67	-1,552.82	-7,749.00	1,603.09	1,170.24	432.85	3.704		
14,700.00	7,223.89	14,685.79	7,102.70	220.16	219.29	-85.66	-1,554.38	-7,848.99	1,603.91	1,165.42	438.48	3.658		
14,800.00	7,223.58	14,785.79	7,102.16	222.98	222.11	-85.66	-1,555.95	-7,948.97	1,604.72	1,160.61	444.12	3.613		
14,900.00	7,223.27	14,885.78	7,101.62	225.81	224.93	-85.65	-1,557.52	-8,048.95	1,605.54	1,155.79	449.75	3.570		
14,987.41	7,223.00	14,973.19	7,101.14	228.28	227.40	-85.65	-1,558.90	-8,136.35	1,606.26	1,151.58	454.68	3.533 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	2.00	0.00	3.28	3.28	-179.50	-319.86	-2.78	319.88					
100.00	100.00	102.00	100.00	3.28	3.29	-179.50	-319.86	-2.78	319.88	313.31	6.57	48.688		
200.00	200.00	198.00	200.00	3.34	3.34	-179.50	-319.86	-2.78	319.88	313.20	6.67	47.940	CC, ES	
300.00	300.00	288.14	290.13	3.44	3.42	-179.49	-321.22	-2.87	321.38	314.50	6.88	46.720		
400.00	400.00	377.91	379.80	3.60	3.55	-179.45	-325.38	-3.13	326.02	318.83	7.19	45.356		
500.00	500.00	467.33	468.94	3.81	3.72	-179.38	-332.30	-3.57	333.77	326.18	7.59	44.000		
600.00	600.00	556.23	557.31	4.05	3.92	-179.30	-341.94	-4.18	344.62	336.56	8.06	42.777		
700.00	699.98	644.32	644.54	4.32	4.15	-121.19	-354.18	-4.96	359.41	350.82	8.58	41.873		
800.00	799.94	731.40	730.36	4.61	4.41	-121.42	-368.91	-5.90	377.85	368.71	9.15	41.315		
900.00	899.89	817.43	814.66	4.92	4.70	-121.60	-386.01	-6.99	399.26	389.52	9.74	41.002		
1,000.00	999.85	902.27	897.26	5.25	5.01	-121.74	-405.34	-8.21	423.57	413.22	10.35	40.927		
1,100.00	1,099.80	985.80	977.98	5.60	5.34	-121.84	-426.74	-9.57	450.72	439.74	10.97	41.069		
1,200.00	1,199.76	1,067.90	1,056.69	5.96	5.69	-121.91	-450.07	-11.06	480.63	469.02	11.61	41.407		
1,300.00	1,299.72	1,148.49	1,133.26	6.33	6.05	-121.95	-475.14	-12.65	513.24	500.99	12.24	41.925		
1,400.00	1,399.67	1,235.85	1,206.92	6.71	6.47	-121.98	-501.53	-14.33	548.45	535.54	12.91	42.495		
1,500.00	1,499.63	1,319.81	1,294.01	7.10	6.89	-121.99	-534.24	-16.41	585.07	571.49	13.59	43.056		
1,600.00	1,599.58	1,412.86	1,381.09	7.49	7.37	-122.00	-566.96	-18.49	621.70	607.37	14.33	43.382		
1,700.00	1,699.54	1,505.91	1,468.18	7.88	7.87	-122.01	-599.67	-20.57	658.32	643.23	15.09	43.622		
1,800.00	1,799.50	1,598.97	1,555.27	8.28	8.37	-122.02	-632.38	-22.64	694.94	679.08	15.87	43.795		
1,900.00	1,899.45	1,692.02	1,642.36	8.69	8.88	-122.03	-665.10	-24.72	731.57	714.91	16.66	43.916		
2,000.00	1,999.41	1,785.07	1,729.44	9.10	9.40	-122.03	-697.81	-26.80	768.19	750.73	17.46	43.996		
2,100.00	2,099.36	1,878.12	1,816.53	9.51	9.93	-122.04	-730.52	-28.88	804.82	786.54	18.27	44.045		
2,200.00	2,199.32	1,971.18	1,903.62	9.92	10.46	-122.05	-763.24	-30.96	841.44	822.34	19.09	44.068		
2,300.00	2,299.28	2,064.23	1,990.71	10.34	10.99	-122.05	-795.95	-33.04	878.06	858.14	19.92	44.073		
2,400.00	2,399.23	2,157.28	2,077.79	10.75	11.53	-122.06	-828.66	-35.12	914.69	893.93	20.76	44.063		
2,500.00	2,499.19	2,250.33	2,164.88	11.17	12.08	-122.06	-861.38	-37.20	951.31	929.71	21.60	44.041		
2,600.00	2,599.14	2,343.38	2,251.97	11.60	12.62	-122.07	-894.09	-39.28	987.93	965.49	22.45	44.011		
2,700.00	2,699.10	2,436.44	2,339.06	12.02	13.17	-122.07	-926.80	-41.36	1,024.56	1,001.26	23.30	43.973		
2,800.00	2,799.06	2,529.49	2,426.14	12.44	13.72	-122.07	-959.52	-43.44	1,061.18	1,037.02	24.16	43.931		
2,900.00	2,899.01	2,622.54	2,513.23	12.87	14.27	-122.08	-992.23	-45.52	1,097.80	1,072.79	25.02	43.885		
3,000.00	2,998.97	2,715.59	2,600.32	13.29	14.82	-122.08	-1,024.94	-47.59	1,134.43	1,108.55	25.88	43.836		
3,100.00	3,098.92	2,808.65	2,687.41	13.72	15.37	-122.08	-1,057.66	-49.67	1,171.05	1,144.31	26.75	43.785		
3,200.00	3,198.88	2,901.70	2,774.49	14.14	15.93	-122.09	-1,090.37	-51.75	1,207.67	1,180.06	27.61	43.733		
3,300.00	3,298.84	3,005.25	2,861.58	14.57	16.55	-122.09	-1,123.08	-53.83	1,244.30	1,215.76	28.54	43.597		
3,400.00	3,398.79	3,087.80	2,948.67	15.00	17.05	-122.09	-1,155.80	-55.91	1,280.92	1,251.56	29.36	43.627		
3,500.00	3,498.75	3,180.85	3,035.76	15.43	17.60	-122.09	-1,188.51	-57.99	1,317.55	1,287.31	30.24	43.574		
3,600.00	3,598.70	3,273.91	3,122.84	15.86	18.16	-122.10	-1,221.22	-60.07	1,354.17	1,323.05	31.12	43.521		
3,700.00	3,698.66	3,366.96	3,209.93	16.29	18.73	-122.10	-1,253.94	-62.15	1,390.79	1,358.80	32.00	43.468		
3,800.00	3,798.62	3,460.01	3,297.02	16.72	19.29	-122.10	-1,286.65	-64.23	1,427.42	1,394.54	32.88	43.416		
3,900.00	3,898.57	3,553.06	3,384.10	17.15	19.85	-122.10	-1,319.36	-66.31	1,464.04	1,430.28	33.76	43.365		
4,000.00	3,998.53	3,646.12	3,471.19	17.59	20.41	-122.10	-1,352.08	-68.39	1,500.66	1,466.02	34.65	43.315		
4,100.00	4,098.48	3,739.17	3,558.28	18.02	20.98	-122.11	-1,384.79	-70.47	1,537.29	1,501.76	35.53	43.265		
4,200.00	4,198.44	3,832.22	3,645.37	18.45	21.54	-122.11	-1,417.50	-72.55	1,573.91	1,537.49	36.42	43.217		
4,300.00	4,298.40	3,925.27	3,732.45	18.88	22.10	-122.11	-1,450.22	-74.62	1,610.53	1,573.23	37.31	43.170		
4,400.00	4,398.35	4,018.32	3,819.54	19.32	22.67	-122.11	-1,482.93	-76.70	1,647.16	1,608.96	38.20	43.123		
4,500.00	4,498.31	4,111.38	3,906.63	19.75	23.23	-122.11	-1,515.64	-78.78	1,683.78	1,644.69	39.09	43.078		
4,600.00	4,598.26	4,204.43	3,993.72	20.19	23.80	-122.11	-1,548.36	-80.86	1,720.40	1,680.43	39.98	43.033		
4,700.00	4,698.22	4,302.52	4,080.80	20.62	24.40	-122.12	-1,581.07	-82.94	1,757.03	1,716.13	40.90	42.962		
4,800.00	4,798.18	4,409.47	4,167.89	21.05	25.05	-122.12	-1,613.78	-85.02	1,793.65	1,751.79	41.86	42.845		
4,900.00	4,898.13	4,483.59	4,254.98	21.49	25.50	-122.12	-1,646.50	-87.10	1,830.28	1,787.62	42.66	42.906		
5,000.00	4,998.09	4,576.64	4,342.07	21.92	26.07	-122.12	-1,679.21	-89.18	1,866.90	1,823.35	43.55	42.865		
5,100.00	5,098.04	4,669.69	4,429.15	22.36	26.63	-122.12	-1,711.92	-91.26	1,903.52	1,859.07	44.45	42.826		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
5,200.00	5,198.00	4,762.74	4,516.24	22.79	27.20	-122.12	-1,744.64	-93.34	1,940.15	1,894.80	45.34	42.787		
5,300.00	5,297.96	4,855.79	4,603.33	23.23	27.77	-122.12	-1,777.35	-95.42	1,976.77	1,930.53	46.24	42.749		
5,400.00	5,397.91	4,948.85	4,690.42	23.67	28.34	-122.12	-1,810.06	-97.50	2,013.39	1,966.25	47.14	42.712		
5,500.00	5,497.87	5,041.90	4,775.50	24.10	28.90	-122.12	-1,842.78	-99.57	2,050.02	2,001.98	48.04	42.676		
5,600.00	5,597.82	5,134.95	4,864.59	24.54	29.47	-122.13	-1,875.49	-101.65	2,086.64	2,037.71	48.94	42.641		
5,700.00	5,697.78	5,228.00	4,951.68	24.97	30.04	-122.13	-1,908.20	-103.73	2,123.26	2,073.43	49.83	42.607		
5,800.00	5,797.74	5,321.05	5,038.77	25.41	30.61	-122.13	-1,940.92	-105.81	2,159.89	2,109.15	50.73	42.573		
5,900.00	5,897.69	5,414.11	5,125.85	25.85	31.18	-122.13	-1,973.63	-107.89	2,196.51	2,144.88	51.63	42.540		
6,000.00	5,997.65	5,507.16	5,212.94	26.28	31.75	-122.13	-2,006.34	-109.97	2,233.13	2,180.60	52.53	42.508		
6,100.00	6,097.60	5,600.21	5,300.03	26.72	32.32	-122.13	-2,039.06	-112.05	2,269.76	2,216.32	53.44	42.477		
6,200.00	6,197.56	5,706.74	5,387.12	27.16	32.97	-122.13	-2,071.77	-114.13	2,306.38	2,251.97	54.41	42.390		
6,300.00	6,297.52	5,786.32	5,474.20	27.59	33.46	-122.13	-2,104.48	-116.21	2,343.01	2,287.77	55.24	42.416		
6,400.00	6,397.47	5,879.37	5,561.29	28.03	34.03	-122.13	-2,137.20	-118.29	2,379.63	2,323.49	56.14	42.387		
6,500.00	6,497.43	5,972.42	5,648.38	28.47	34.60	-122.13	-2,169.91	-120.37	2,416.25	2,359.21	57.04	42.358		
6,600.00	6,597.38	6,065.47	5,735.47	28.90	35.17	-122.13	-2,202.62	-122.45	2,452.88	2,394.93	57.95	42.330		
6,700.00	6,697.08	6,158.39	5,822.43	29.34	35.74	-93.84	-2,235.29	-124.52	2,489.43	2,430.57	58.85	42.299		
6,800.00	6,794.63	6,249.68	5,907.86	29.79	36.30	-87.37	-2,267.38	-126.56	2,525.35	2,465.59	59.76	42.259		
6,900.00	6,887.62	6,337.10	5,989.68	30.24	36.83	-83.77	-2,298.12	-128.51	2,560.09	2,499.44	60.65	42.208		
7,000.00	6,973.77	6,418.50	6,065.87	30.70	37.33	-81.11	-2,326.73	-130.33	2,593.37	2,531.83	61.54	42.144		
7,100.00	7,050.94	6,491.88	6,134.54	31.20	37.78	-78.95	-2,352.53	-131.97	2,625.06	2,562.65	62.41	42.059		
7,200.00	7,117.24	6,555.43	6,194.02	31.77	38.17	-77.08	-2,374.87	-133.39	2,655.21	2,591.90	63.32	41.936		
7,300.00	7,171.03	6,607.58	6,242.83	32.46	38.49	-75.35	-2,393.21	-134.56	2,683.88	2,619.62	64.27	41.760		
7,400.00	7,211.00	6,647.06	6,279.77	33.29	38.73	-73.63	-2,407.08	-135.44	2,711.12	2,645.82	65.30	41.521		
7,500.00	7,236.16	6,672.88	6,303.94	34.29	38.89	-71.85	-2,416.16	-136.02	2,736.85	2,670.46	66.40	41.220		
7,600.00	7,245.89	6,684.42	6,314.74	35.43	38.96	-69.99	-2,420.22	-136.28	2,760.91	2,693.36	67.54	40.877		
7,700.00	7,245.73	6,686.77	6,316.94	36.72	38.97	-69.76	-2,421.05	-136.33	2,784.99	2,716.24	68.75	40.510		
7,800.00	7,245.42	6,688.99	6,319.01	38.18	38.99	-69.81	-2,421.83	-136.38	2,812.38	2,742.30	70.07	40.134		
7,900.00	7,245.10	6,691.20	6,321.08	39.80	39.00	-69.85	-2,422.60	-136.43	2,843.01	2,771.52	71.49	39.768		
8,000.00	7,244.79	6,692.45	6,321.12	41.54	47.53	-90.01	-2,777.46	-1,158.08	2,873.67	2,786.97	86.70	33.146		
8,100.00	7,244.48	6,692.45	6,321.12	43.41	48.76	-90.00	-2,778.05	-1,258.08	2,873.49	2,783.26	90.23	31.847		
8,200.00	7,244.17	6,692.45	6,321.12	45.38	50.22	-90.00	-2,778.64	-1,358.07	2,873.31	2,779.34	93.97	30.577		
8,300.00	7,243.86	6,692.45	6,321.12	47.44	51.87	-90.00	-2,779.23	-1,458.07	2,873.13	2,775.23	97.90	29.346		
8,400.00	7,243.55	6,692.45	6,321.12	49.58	53.66	-89.99	-2,779.82	-1,558.07	2,872.95	2,770.95	102.01	28.164		
8,500.00	7,243.23	6,692.45	6,321.12	51.78	55.57	-89.99	-2,780.40	-1,658.06	2,872.77	2,766.51	106.26	27.036		
8,600.00	7,242.92	6,692.45	6,321.12	54.05	57.58	-89.98	-2,780.99	-1,758.06	2,872.59	2,761.95	110.64	25.963		
8,700.00	7,242.61	6,692.45	6,321.12	56.37	59.67	-89.98	-2,781.58	-1,858.06	2,872.41	2,757.27	115.14	24.947		
8,800.00	7,242.30	6,692.45	6,321.12	58.74	61.83	-89.98	-2,782.17	-1,958.05	2,872.24	2,752.49	119.74	23.986		
8,900.00	7,241.99	6,692.45	6,321.12	61.16	64.05	-89.97	-2,782.76	-2,058.05	2,872.06	2,747.62	124.44	23.080		
9,000.00	7,241.67	6,692.45	6,321.12	63.61	66.33	-89.97	-2,783.35	-2,158.05	2,871.88	2,742.66	129.22	22.225		
9,100.00	7,241.36	6,692.45	6,321.12	66.09	68.66	-89.97	-2,783.93	-2,258.04	2,871.70	2,737.63	134.07	21.420		
9,200.00	7,241.05	6,692.45	6,321.12	68.60	71.02	-89.96	-2,784.52	-2,358.04	2,871.52	2,732.53	138.98	20.661		
9,300.00	7,240.74	6,692.45	6,321.12	71.13	73.43	-89.96	-2,785.11	-2,458.04	2,871.34	2,727.38	143.96	19.945		
9,400.00	7,240.43	6,692.45	6,321.12	73.70	75.86	-89.95	-2,785.70	-2,558.03	2,871.16	2,722.17	148.99	19.271		
9,500.00	7,240.11	6,692.45	6,321.12	76.28	78.33	-89.95	-2,786.29	-2,658.03	2,870.98	2,716.91	154.07	18.635		
9,600.00	7,239.80	6,692.45	6,321.12	78.88	80.82	-89.95	-2,786.87	-2,758.03	2,870.80	2,711.61	159.19	18.034		
9,700.00	7,239.49	6,692.45	6,321.12	81.50	83.34	-89.94	-2,787.46	-2,858.02	2,870.62	2,706.28	164.35	17.467		
9,800.00	7,239.18	6,692.45	6,321.12	84.13	85.88	-89.94	-2,788.05	-2,958.02	2,870.44	2,700.90	169.54	16.931		
9,900.00	7,238.87	6,692.45	6,321.12	86.78	88.44	-89.94	-2,788.64	-3,058.02	2,870.26	2,695.49	174.77	16.423		
10,000.00	7,238.55	6,692.45	6,321.12	89.44	91.02	-89.93	-2,789.23	-3,158.01	2,870.08	2,690.06	180.03	15.943		
10,100.00	7,238.24	6,692.45	6,321.12	92.11	93.61	-89.93	-2,789.81	-3,258.01	2,869.90	2,684.59	185.31	15.487		
10,200.00	7,237.93	6,692.45	6,321.12	94.80	96.22	-89.92	-2,790.40	-3,358.01	2,869.73	2,679.10	190.62	15.055		
10,300.00	7,237.62	6,692.45	6,321.12	97.49	98.85	-89.92	-2,790.99	-3,458.00	2,869.55	2,673.59	195.95	14.644		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
10,400.00	7,237.31	10,822.44	7,233.10	100.19	101.49	-89.92	-2,791.58	-3,558.00	2,869.37	2,668.06	201.31	14.254		
10,500.00	7,236.99	10,922.44	7,232.60	102.90	104.14	-89.91	-2,792.17	-3,658.00	2,869.19	2,662.51	206.68	13.882		
10,600.00	7,236.68	11,022.44	7,232.10	105.62	106.80	-89.91	-2,792.76	-3,757.99	2,869.01	2,656.94	212.07	13.528		
10,700.00	7,236.37	11,122.44	7,231.60	108.35	109.47	-89.91	-2,793.34	-3,857.99	2,868.83	2,651.35	217.48	13.191		
10,800.00	7,236.06	11,222.44	7,231.10	111.08	112.15	-89.90	-2,793.93	-3,957.99	2,868.65	2,645.75	222.90	12.870		
10,900.00	7,235.75	11,322.44	7,230.60	113.82	114.83	-89.90	-2,794.52	-4,057.98	2,868.47	2,640.13	228.34	12.562		
11,000.00	7,235.44	11,422.44	7,230.10	116.56	117.53	-89.89	-2,795.11	-4,157.98	2,868.29	2,634.50	233.79	12.269		
11,100.00	7,235.12	11,522.44	7,229.60	119.31	120.24	-89.89	-2,795.70	-4,257.98	2,868.11	2,628.86	239.25	11.988		
11,200.00	7,234.81	11,622.44	7,229.10	122.07	122.95	-89.89	-2,796.28	-4,357.97	2,867.93	2,623.21	244.73	11.719		
11,300.00	7,234.50	11,722.44	7,228.60	124.83	125.67	-89.88	-2,796.87	-4,457.97	2,867.76	2,617.54	250.22	11.461		
11,400.00	7,234.19	11,822.44	7,228.10	127.59	128.39	-89.88	-2,797.46	-4,557.97	2,867.58	2,611.87	255.71	11.214		
11,500.00	7,233.88	11,922.44	7,227.60	130.36	131.12	-89.87	-2,798.05	-4,657.96	2,867.40	2,606.18	261.22	10.977		
11,600.00	7,233.56	12,022.43	7,227.09	133.13	133.85	-89.87	-2,798.64	-4,757.96	2,867.22	2,600.49	266.73	10.749		
11,700.00	7,233.25	12,122.43	7,226.59	135.91	136.60	-89.87	-2,799.23	-4,857.96	2,867.04	2,594.79	272.25	10.531		
11,800.00	7,232.94	12,222.43	7,226.09	138.68	139.34	-89.86	-2,799.81	-4,957.96	2,866.86	2,589.08	277.78	10.320		
11,900.00	7,232.63	12,322.43	7,225.59	141.47	142.09	-89.86	-2,800.40	-5,057.95	2,866.68	2,583.36	283.32	10.118		
12,000.00	7,232.32	12,422.43	7,225.09	144.25	144.84	-89.86	-2,800.99	-5,157.95	2,866.50	2,577.64	288.87	9.923		
12,100.00	7,232.00	12,522.43	7,224.59	147.04	147.60	-89.85	-2,801.58	-5,257.95	2,866.32	2,571.91	294.42	9.736		
12,200.00	7,231.69	12,622.43	7,224.09	149.83	150.36	-89.85	-2,802.17	-5,357.94	2,866.15	2,566.17	299.98	9.555		
12,300.00	7,231.38	12,722.43	7,223.59	152.62	153.13	-89.84	-2,802.75	-5,457.94	2,865.97	2,560.43	305.54	9.380		
12,400.00	7,231.07	12,822.43	7,223.09	155.42	155.90	-89.84	-2,803.34	-5,557.94	2,865.79	2,554.68	311.11	9.212		
12,500.00	7,230.76	12,922.43	7,222.59	158.22	158.67	-89.84	-2,803.93	-5,657.93	2,865.61	2,548.92	316.68	9.049		
12,600.00	7,230.44	13,022.43	7,222.09	161.01	161.45	-89.83	-2,804.52	-5,757.93	2,865.43	2,543.17	322.26	8.892		
12,700.00	7,230.13	13,122.43	7,221.59	163.82	164.22	-89.83	-2,805.11	-5,857.93	2,865.25	2,537.40	327.85	8.740		
12,800.00	7,229.82	13,222.43	7,221.09	166.62	167.01	-89.83	-2,805.70	-5,957.92	2,865.07	2,531.64	333.44	8.593		
12,900.00	7,229.51	13,322.43	7,220.59	169.43	169.79	-89.82	-2,806.28	-6,057.92	2,864.89	2,525.86	339.03	8.450		
13,000.00	7,229.20	13,422.43	7,220.08	172.23	172.57	-89.82	-2,806.87	-6,157.92	2,864.71	2,520.09	344.63	8.313		
13,100.00	7,228.88	13,522.43	7,219.58	175.04	175.36	-89.81	-2,807.46	-6,257.91	2,864.54	2,514.31	350.23	8.179		
13,200.00	7,228.57	13,622.43	7,219.08	177.85	178.15	-89.81	-2,808.05	-6,357.91	2,864.36	2,508.52	355.83	8.050		
13,300.00	7,228.26	13,722.43	7,218.58	180.66	180.95	-89.81	-2,808.64	-6,457.91	2,864.18	2,502.74	361.44	7.924		
13,400.00	7,227.95	13,822.43	7,218.08	183.48	183.74	-89.80	-2,809.22	-6,557.90	2,864.00	2,496.95	367.05	7.803		
13,500.00	7,227.64	13,922.43	7,217.58	186.29	186.54	-89.80	-2,809.81	-6,657.90	2,863.82	2,491.15	372.67	7.685		
13,600.00	7,227.33	14,022.43	7,217.08	189.11	189.34	-89.80	-2,810.40	-6,757.90	2,863.64	2,485.36	378.28	7.570		
13,700.00	7,227.01	14,122.43	7,216.58	191.92	192.14	-89.79	-2,810.99	-6,857.89	2,863.46	2,479.56	383.91	7.459		
13,800.00	7,226.70	14,222.43	7,216.08	194.74	194.94	-89.79	-2,811.58	-6,957.89	2,863.28	2,473.76	389.53	7.351		
13,900.00	7,226.39	14,322.43	7,215.58	197.56	197.74	-89.78	-2,812.17	-7,057.89	2,863.11	2,467.95	395.16	7.246		
14,000.00	7,226.08	14,422.43	7,215.08	200.38	200.55	-89.78	-2,812.75	-7,157.88	2,862.93	2,462.14	400.78	7.143		
14,100.00	7,225.77	14,522.43	7,214.58	203.21	203.35	-89.78	-2,813.34	-7,257.88	2,862.75	2,456.33	406.42	7.044		
14,200.00	7,225.45	14,622.43	7,214.08	206.03	206.16	-89.77	-2,813.93	-7,357.88	2,862.57	2,450.52	412.05	6.947		
14,300.00	7,225.14	14,722.43	7,213.58	208.85	208.97	-89.77	-2,814.52	-7,457.87	2,862.39	2,444.71	417.68	6.853		
14,400.00	7,224.83	14,822.43	7,213.08	211.68	211.78	-89.77	-2,815.11	-7,557.87	2,862.21	2,438.89	423.32	6.761		
14,500.00	7,224.52	14,922.43	7,212.57	214.50	214.59	-89.76	-2,815.69	-7,657.87	2,862.03	2,433.07	428.96	6.672		
14,600.00	7,224.21	15,022.42	7,212.07	217.33	217.41	-89.76	-2,816.28	-7,757.86	2,861.85	2,427.25	434.61	6.585		
14,700.00	7,223.89	15,122.42	7,211.57	220.16	220.22	-89.75	-2,816.87	-7,857.86	2,861.68	2,421.43	440.25	6.500		
14,800.00	7,223.58	15,222.42	7,211.07	222.98	223.04	-89.75	-2,817.46	-7,957.86	2,861.50	2,415.60	445.90	6.417		
14,900.00	7,223.27	15,322.42	7,210.57	225.81	225.86	-89.75	-2,818.05	-8,057.85	2,861.32	2,409.78	451.54	6.337		
14,987.41	7,223.00	15,409.83	7,210.13	228.28	228.32	-89.74	-2,818.56	-8,145.26	2,861.16	2,404.68	456.48	6.268 SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	2.00	0.00	3.28	3.28	-179.53	-339.89	-2.78	339.90					
100.00	100.00	102.00	100.00	3.28	3.29	-179.53	-339.89	-2.78	339.90	333.33	6.57	51.736		
200.00	200.00	198.00	200.00	3.34	3.34	-179.53	-339.89	-2.78	339.90	333.23	6.67	50.941	CC, ES	
300.00	300.00	287.59	289.58	3.44	3.42	-179.52	-341.23	-2.86	341.40	334.52	6.88	49.635		
400.00	400.00	376.80	378.69	3.60	3.55	-179.48	-345.33	-3.11	346.00	338.82	7.19	48.151		
500.00	500.00	465.67	467.29	3.81	3.72	-179.43	-352.18	-3.51	353.71	346.13	7.58	46.653		
600.00	600.00	554.02	555.12	4.05	3.92	-179.35	-361.70	-4.08	364.49	356.44	8.05	45.279		
700.00	699.98	641.58	641.83	4.32	4.15	-121.25	-373.79	-4.80	379.20	370.62	8.57	44.224		
800.00	799.94	728.15	727.17	4.61	4.40	-121.47	-388.35	-5.67	397.55	388.41	9.13	43.522		
900.00	899.89	813.69	811.00	4.92	4.69	-121.65	-405.25	-6.68	418.84	409.12	9.72	43.072		
1,000.00	999.85	898.05	893.16	5.25	4.99	-121.79	-424.36	-7.81	443.02	432.69	10.33	42.874		
1,100.00	1,099.80	981.12	973.48	5.60	5.32	-121.89	-445.53	-9.08	470.03	459.07	10.96	42.898		
1,200.00	1,199.76	1,062.79	1,051.81	5.96	5.66	-121.97	-468.61	-10.45	499.79	488.20	11.59	43.130		
1,300.00	1,299.72	1,142.98	1,128.04	6.33	6.03	-122.02	-493.42	-11.93	532.22	520.00	12.22	43.552		
1,400.00	1,399.67	1,221.59	1,202.07	6.71	6.40	-122.05	-519.80	-13.50	567.26	554.41	12.85	44.143		
1,500.00	1,499.63	1,298.55	1,273.83	7.10	6.79	-122.06	-547.58	-15.16	604.83	591.36	13.47	44.886		
1,600.00	1,599.58	1,381.42	1,350.33	7.49	7.22	-122.06	-579.36	-17.05	644.60	630.45	14.14	45.574		
1,700.00	1,699.54	1,473.01	1,434.77	7.88	7.72	-122.06	-614.79	-19.16	684.72	669.84	14.89	45.988		
1,800.00	1,799.50	1,564.61	1,519.21	8.28	8.23	-122.06	-650.22	-21.27	724.85	709.20	15.65	46.308		
1,900.00	1,899.45	1,656.21	1,603.65	8.69	8.76	-122.05	-685.66	-23.38	764.98	748.55	16.43	46.555		
2,000.00	1,999.41	1,747.80	1,688.09	9.10	9.29	-122.05	-721.09	-25.49	805.11	787.89	17.22	46.743		
2,100.00	2,099.36	1,839.40	1,772.53	9.51	9.83	-122.05	-756.52	-27.61	845.24	827.21	18.03	46.885		
2,200.00	2,199.32	1,930.99	1,856.96	9.92	10.37	-122.05	-791.95	-29.72	885.37	866.52	18.84	46.989		
2,300.00	2,299.28	2,022.59	1,941.40	10.34	10.92	-122.05	-827.38	-31.83	925.49	905.83	19.66	47.064		
2,400.00	2,399.23	2,114.18	2,025.84	10.75	11.47	-122.05	-862.82	-33.94	965.62	945.13	20.50	47.115		
2,500.00	2,499.19	2,205.78	2,110.28	11.17	12.03	-122.04	-898.25	-36.05	1,005.75	984.42	21.33	47.147		
2,600.00	2,599.14	2,302.63	2,194.72	11.60	12.62	-122.04	-933.68	-38.16	1,045.88	1,023.68	22.20	47.107		
2,700.00	2,699.10	2,388.97	2,279.16	12.02	13.15	-122.04	-969.11	-40.27	1,086.01	1,062.98	23.02	47.169		
2,800.00	2,799.06	2,480.56	2,363.59	12.44	13.72	-122.04	-1,004.54	-42.38	1,126.13	1,102.26	23.88	47.164		
2,900.00	2,899.01	2,572.16	2,448.03	12.87	14.29	-122.04	-1,039.98	-44.49	1,166.26	1,141.53	24.73	47.151		
3,000.00	2,998.97	2,663.76	2,532.47	13.29	14.86	-122.04	-1,075.41	-46.61	1,206.39	1,180.79	25.60	47.132		
3,100.00	3,098.92	2,755.35	2,616.91	13.72	15.43	-122.04	-1,110.84	-48.72	1,246.52	1,220.06	26.46	47.108		
3,200.00	3,198.88	2,846.95	2,701.35	14.14	16.00	-122.04	-1,146.27	-50.83	1,286.65	1,259.32	27.33	47.080		
3,300.00	3,298.84	2,938.54	2,785.79	14.57	16.58	-122.04	-1,181.70	-52.94	1,326.78	1,298.58	28.20	47.049		
3,400.00	3,398.79	3,030.14	2,870.22	15.00	17.15	-122.04	-1,217.14	-55.05	1,366.90	1,337.83	29.07	47.016		
3,500.00	3,498.75	3,121.73	2,954.66	15.43	17.73	-122.03	-1,252.57	-57.16	1,407.03	1,377.08	29.95	46.981		
3,600.00	3,598.70	3,213.33	3,039.10	15.86	18.31	-122.03	-1,288.00	-59.27	1,447.16	1,416.33	30.83	46.944		
3,700.00	3,698.66	3,304.92	3,123.54	16.29	18.89	-122.03	-1,323.43	-61.38	1,487.29	1,455.58	31.71	46.907		
3,800.00	3,798.62	3,403.48	3,207.98	16.72	19.51	-122.03	-1,358.86	-63.49	1,527.42	1,494.79	32.63	46.816		
3,900.00	3,898.57	3,488.11	3,292.42	17.15	20.05	-122.03	-1,394.30	-65.61	1,567.54	1,534.07	33.47	46.831		
4,000.00	3,998.53	3,579.71	3,376.86	17.59	20.63	-122.03	-1,429.73	-67.72	1,607.67	1,573.32	34.36	46.792		
4,100.00	4,098.48	3,671.31	3,461.29	18.02	21.21	-122.03	-1,465.16	-69.83	1,647.80	1,612.56	35.24	46.754		
4,200.00	4,198.44	3,762.90	3,545.73	18.45	21.79	-122.03	-1,500.59	-71.94	1,687.93	1,651.80	36.13	46.715		
4,300.00	4,298.40	3,854.50	3,630.17	18.88	22.38	-122.03	-1,536.02	-74.05	1,728.06	1,691.04	37.02	46.677		
4,400.00	4,398.35	3,946.09	3,714.61	19.32	22.96	-122.03	-1,571.46	-76.16	1,768.19	1,730.27	37.91	46.640		
4,500.00	4,498.31	4,037.69	3,799.05	19.75	23.54	-122.03	-1,606.89	-78.27	1,808.31	1,769.51	38.80	46.602		
4,600.00	4,598.26	4,129.28	3,883.49	20.19	24.13	-122.03	-1,642.32	-80.38	1,848.44	1,808.75	39.70	46.565		
4,700.00	4,698.22	4,220.88	3,967.92	20.62	24.71	-122.03	-1,677.75	-82.49	1,888.57	1,847.98	40.59	46.529		
4,800.00	4,798.18	4,312.47	4,052.36	21.05	25.30	-122.03	-1,713.18	-84.61	1,928.70	1,887.21	41.48	46.493		
4,900.00	4,898.13	4,404.07	4,136.80	21.49	25.88	-122.03	-1,748.62	-86.72	1,968.83	1,926.45	42.38	46.457		
5,000.00	4,998.09	4,504.34	4,221.24	21.92	26.52	-122.03	-1,784.05	-88.83	2,008.95	1,965.63	43.32	46.372		
5,100.00	5,098.04	4,587.26	4,305.68	22.36	27.06	-122.03	-1,819.48	-90.94	2,049.08	2,004.91	44.17	46.388		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	4,678.86	4,390.12	22.79	27.64	-122.03	-1,854.91	-93.05	2,089.21	2,044.14	45.07	46.355		
5,300.00	5,297.96	4,770.45	4,474.55	23.23	28.23	-122.03	-1,890.34	-95.16	2,129.34	2,083.37	45.97	46.322		
5,400.00	5,397.91	4,862.05	4,558.99	23.67	28.82	-122.03	-1,925.78	-97.27	2,169.47	2,122.60	46.87	46.289		
5,500.00	5,497.87	4,953.64	4,643.43	24.10	29.40	-122.03	-1,961.21	-99.38	2,209.60	2,161.83	47.77	46.257		
5,600.00	5,597.82	5,045.24	4,727.87	24.54	29.99	-122.03	-1,996.64	-101.50	2,249.72	2,201.06	48.67	46.226		
5,700.00	5,697.78	5,136.83	4,812.31	24.97	30.58	-122.03	-2,032.07	-103.61	2,289.85	2,240.28	49.57	46.195		
5,800.00	5,797.74	5,228.43	4,896.75	25.41	31.17	-122.03	-2,067.50	-105.72	2,329.98	2,279.51	50.47	46.165		
5,900.00	5,897.69	5,320.02	4,981.19	25.85	31.75	-122.03	-2,102.94	-107.83	2,370.11	2,318.74	51.37	46.136		
6,000.00	5,997.65	5,411.62	5,065.62	26.28	32.34	-122.03	-2,138.37	-109.94	2,410.24	2,357.96	52.28	46.106		
6,100.00	6,097.60	5,503.21	5,150.06	26.72	32.93	-122.02	-2,173.80	-112.05	2,450.37	2,397.19	53.18	46.078		
6,200.00	6,197.56	5,594.81	5,234.50	27.16	33.52	-122.02	-2,209.23	-114.16	2,490.49	2,436.41	54.08	46.050		
6,300.00	6,297.52	5,686.41	5,318.94	27.59	34.11	-122.02	-2,244.66	-116.27	2,530.62	2,475.63	54.99	46.022		
6,400.00	6,397.47	5,778.00	5,403.38	28.03	34.70	-122.02	-2,280.10	-118.38	2,570.75	2,514.86	55.89	45.995		
6,500.00	6,497.43	5,869.60	5,487.82	28.47	35.29	-122.02	-2,315.53	-120.50	2,610.88	2,554.08	56.80	45.969		
6,600.00	6,597.38	5,961.19	5,572.25	28.90	35.88	-122.02	-2,350.96	-122.61	2,651.01	2,593.30	57.70	45.943		
6,700.00	6,697.08	6,052.66	5,656.57	29.34	36.46	-93.44	-2,386.34	-124.71	2,691.05	2,632.44	58.61	45.914		
6,800.00	6,794.63	6,142.55	5,739.44	29.79	37.04	-86.56	-2,421.11	-126.79	2,730.37	2,670.85	59.52	45.874		
6,900.00	6,887.62	6,228.64	5,818.81	30.24	37.60	-82.57	-2,454.42	-128.77	2,768.30	2,707.89	60.42	45.821		
7,000.00	6,973.77	6,308.84	5,892.74	30.70	38.11	-79.54	-2,485.44	-130.62	2,804.44	2,743.14	61.30	45.752		
7,100.00	7,050.94	6,381.15	5,959.40	31.20	38.58	-77.08	-2,513.41	-132.29	2,838.55	2,776.38	62.17	45.654		
7,200.00	7,117.24	6,443.81	6,017.16	31.77	38.98	-74.97	-2,537.65	-133.73	2,870.55	2,807.47	63.07	45.511		
7,300.00	7,171.03	6,504.74	6,064.59	32.46	39.37	-73.07	-2,557.55	-134.92	2,900.38	2,836.31	64.08	45.264		
7,400.00	7,211.00	6,534.24	6,100.52	33.29	39.56	-71.27	-2,572.63	-135.81	2,928.02	2,862.98	65.05	45.014		
7,500.00	7,236.16	6,559.79	6,124.08	34.29	39.73	-69.52	-2,582.51	-136.40	2,953.37	2,887.23	66.15	44.650		
7,600.00	7,245.89	6,571.28	6,134.67	35.43	39.80	-67.78	-2,586.96	-136.67	2,976.21	2,908.92	67.29	44.228		
7,700.00	7,245.73	6,573.74	6,136.93	36.72	39.82	-67.57	-2,587.91	-136.72	2,998.51	2,930.00	68.51	43.770		
7,800.00	7,245.42	6,576.05	6,139.07	38.18	39.83	-67.62	-2,588.81	-136.78	3,023.88	2,954.04	69.84	43.295		
7,900.00	7,245.10	6,578.36	6,141.20	39.80	39.85	-67.66	-2,589.70	-136.83	3,052.33	2,981.05	71.28	42.822		
8,000.00	7,244.79	6,580.68	6,143.33	41.54	39.86	-67.71	-2,590.60	-136.88	3,083.75	3,010.96	72.79	42.367		
8,100.00	7,244.48	6,582.74	6,145.59	43.41	39.87	-67.75	-2,591.50	-136.92	3,115.17	3,041.87	74.36	41.922		
8,200.00	7,244.17	6,584.74	6,147.69	45.38	39.88	-67.78	-2,592.40	-136.95	3,146.58	3,072.78	75.98	41.487		
8,300.00	7,243.86	6,586.74	6,149.79	47.44	39.89	-67.81	-2,593.30	-136.98	3,177.00	3,103.69	77.64	41.052		
8,400.00	7,243.55	6,588.74	6,151.89	49.58	39.90	-67.84	-2,594.20	-137.01	3,207.42	3,134.60	79.34	40.617		
8,500.00	7,243.23	6,590.74	6,154.00	51.78	39.91	-67.87	-2,595.10	-137.04	3,237.84	3,165.51	81.08	40.182		
8,600.00	7,242.92	6,592.74	6,156.10	54.05	39.92	-67.90	-2,596.00	-137.07	3,268.26	3,196.42	82.85	39.747		
8,700.00	7,242.61	6,594.74	6,158.20	56.37	39.93	-67.93	-2,596.90	-137.10	3,298.68	3,227.33	84.65	39.312		
8,800.00	7,242.30	6,596.74	6,160.30	58.74	39.94	-67.96	-2,597.80	-137.13	3,329.10	3,258.24	86.48	38.877		
8,900.00	7,241.99	6,598.74	6,162.40	61.16	39.95	-67.99	-2,598.70	-137.16	3,359.52	3,289.15	88.34	38.442		
9,000.00	7,241.67	6,600.74	6,164.50	63.61	39.96	-68.02	-2,599.60	-137.19	3,389.94	3,320.06	90.22	38.007		
9,100.00	7,241.36	6,602.74	6,166.60	66.09	39.97	-68.05	-2,600.50	-137.22	3,420.36	3,350.97	92.12	37.572		
9,200.00	7,241.05	6,604.74	6,168.70	68.60	39.98	-68.08	-2,601.40	-137.25	3,450.78	3,381.88	94.05	37.137		
9,300.00	7,240.74	6,606.74	6,170.80	71.13	39.99	-68.11	-2,602.30	-137.28	3,481.20	3,412.79	96.01	36.702		
9,400.00	7,240.43	6,608.74	6,172.90	73.70	39.99	-68.14	-2,603.20	-137.31	3,511.62	3,443.70	98.00	36.267		
9,500.00	7,240.11	6,610.74	6,175.00	76.28	39.99	-68.17	-2,604.10	-137.34	3,542.04	3,474.61	100.01	35.832		
9,600.00	7,239.80	6,612.74	6,177.10	78.88	39.99	-68.20	-2,605.00	-137.37	3,572.46	3,505.52	102.05	35.397		
9,700.00	7,239.49	6,614.74	6,179.20	81.50	39.99	-68.23	-2,605.90	-137.40	3,602.88	3,536.43	104.11	34.962		
9,800.00	7,239.18	6,616.74	6,181.30	84.13	39.99	-68.26	-2,606.80	-137.43	3,633.30	3,567.34	106.19	34.527		
9,900.00	7,238.87	6,618.74	6,183.40	86.78	39.99	-68.29	-2,607.70	-137.46	3,663.72	3,598.25	108.29	34.092		
10,000.00	7,238.55	6,620.74	6,185.50	89.44	39.99	-68.32	-2,608.60	-137.49	3,694.14	3,629.16	110.41	33.657		
10,100.00	7,238.24	6,622.74	6,187.60	92.11	39.99	-68.35	-2,609.50	-137.52	3,724.56	3,660.07	112.55	33.222		
10,200.00	7,237.93	6,624.74	6,189.70	94.80	39.99	-68.38	-2,610.40	-137.55	3,754.98	3,690.98	114.70	32.787		
10,300.00	7,237.62	6,626.74	6,191.80	97.49	39.99	-68.41	-2,611.30	-137.58	3,785.40	3,721.89	116.86	32.352		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	10,725.74	7,062.74	100.19	101.40	-86.76	-3,000.94	-3,555.97	3,083.68	2,882.17	201.51	15.303		
10,500.00	7,236.99	10,825.74	7,062.45	102.90	104.05	-86.76	-3,001.54	-3,655.97	3,083.51	2,876.64	206.87	14.906		
10,600.00	7,236.68	10,925.74	7,062.15	105.62	106.71	-86.76	-3,002.14	-3,755.97	3,083.34	2,871.10	212.24	14.527		
10,700.00	7,236.37	11,025.74	7,061.85	108.35	109.37	-86.76	-3,002.74	-3,855.96	3,083.17	2,865.53	217.64	14.167		
10,800.00	7,236.06	11,125.74	7,061.55	111.08	112.05	-86.76	-3,003.33	-3,955.96	3,083.00	2,859.95	223.05	13.822		
10,900.00	7,235.75	11,225.74	7,061.26	113.82	114.74	-86.76	-3,003.93	-4,055.96	3,082.83	2,854.36	228.47	13.493		
11,000.00	7,235.44	11,325.74	7,060.96	116.56	117.43	-86.76	-3,004.53	-4,155.96	3,082.66	2,848.75	233.91	13.179		
11,100.00	7,235.12	11,425.74	7,060.66	119.31	120.14	-86.76	-3,005.13	-4,255.96	3,082.49	2,843.13	239.35	12.878		
11,200.00	7,234.81	11,525.74	7,060.36	122.07	122.84	-86.76	-3,005.73	-4,355.95	3,082.32	2,837.50	244.82	12.590		
11,300.00	7,234.50	11,625.74	7,060.06	124.83	125.56	-86.76	-3,006.32	-4,455.95	3,082.15	2,831.86	250.29	12.314		
11,400.00	7,234.19	11,725.74	7,059.77	127.59	128.28	-86.76	-3,006.92	-4,555.95	3,081.98	2,826.21	255.77	12.050		
11,500.00	7,233.88	11,825.74	7,059.47	130.36	131.01	-86.76	-3,007.52	-4,655.95	3,081.81	2,820.55	261.26	11.796		
11,600.00	7,233.56	11,925.74	7,059.17	133.13	133.75	-86.76	-3,008.12	-4,755.94	3,081.64	2,814.87	266.76	11.552		
11,700.00	7,233.25	12,025.74	7,058.87	135.91	136.49	-86.76	-3,008.72	-4,855.94	3,081.47	2,809.19	272.27	11.318		
11,800.00	7,232.94	12,125.74	7,058.58	138.68	139.23	-86.76	-3,009.31	-4,955.94	3,081.30	2,803.51	277.79	11.092		
11,900.00	7,232.63	12,225.74	7,058.28	141.47	141.98	-86.76	-3,009.91	-5,055.94	3,081.13	2,797.81	283.32	10.875		
12,000.00	7,232.32	12,325.74	7,057.98	144.25	144.73	-86.76	-3,010.51	-5,155.93	3,080.96	2,792.11	288.85	10.666		
12,100.00	7,232.00	12,425.74	7,057.68	147.04	147.49	-86.76	-3,011.11	-5,255.93	3,080.79	2,786.40	294.39	10.465		
12,200.00	7,231.69	12,525.74	7,057.39	149.83	150.25	-86.76	-3,011.70	-5,355.93	3,080.62	2,780.68	299.93	10.271		
12,300.00	7,231.38	12,625.74	7,057.09	152.62	153.01	-86.76	-3,012.30	-5,455.93	3,080.45	2,774.96	305.48	10.084		
12,400.00	7,231.07	12,725.74	7,056.79	155.42	155.78	-86.76	-3,012.90	-5,555.92	3,080.28	2,769.24	311.04	9.903		
12,500.00	7,230.76	12,825.74	7,056.49	158.22	158.55	-86.76	-3,013.50	-5,655.92	3,080.11	2,763.50	316.60	9.729		
12,600.00	7,230.44	12,925.74	7,056.20	161.01	161.33	-86.76	-3,014.10	-5,755.92	3,079.94	2,757.76	322.17	9.560		
12,700.00	7,230.13	13,025.74	7,055.90	163.82	164.10	-86.76	-3,014.69	-5,855.92	3,079.77	2,752.02	327.74	9.397		
12,800.00	7,229.82	13,125.74	7,055.60	166.62	166.88	-86.76	-3,015.29	-5,955.91	3,079.60	2,746.28	333.32	9.239		
12,900.00	7,229.51	13,225.74	7,055.30	169.43	169.67	-86.76	-3,015.89	-6,055.91	3,079.43	2,740.52	338.90	9.086		
13,000.00	7,229.20	13,325.74	7,055.01	172.23	172.45	-86.76	-3,016.49	-6,155.91	3,079.26	2,734.77	344.49	8.939		
13,100.00	7,228.88	13,425.74	7,054.71	175.04	175.24	-86.76	-3,017.09	-6,255.91	3,079.09	2,729.01	350.08	8.795		
13,200.00	7,228.57	13,525.74	7,054.41	177.85	178.03	-86.76	-3,017.68	-6,355.91	3,078.91	2,723.25	355.67	8.657		
13,300.00	7,228.26	13,625.74	7,054.11	180.66	180.82	-86.76	-3,018.28	-6,455.90	3,078.74	2,717.48	361.27	8.522		
13,400.00	7,227.95	13,725.74	7,053.82	183.48	183.62	-86.76	-3,018.88	-6,555.90	3,078.57	2,711.71	366.87	8.392		
13,500.00	7,227.64	13,825.74	7,053.52	186.29	186.41	-86.76	-3,019.48	-6,655.90	3,078.40	2,705.93	372.47	8.265		
13,600.00	7,227.33	13,925.74	7,053.22	189.11	189.21	-86.76	-3,020.08	-6,755.90	3,078.23	2,700.16	378.08	8.142		
13,700.00	7,227.01	14,025.74	7,052.92	191.92	192.01	-86.76	-3,020.67	-6,855.89	3,078.06	2,694.38	383.69	8.022		
13,800.00	7,226.70	14,125.74	7,052.62	194.74	194.81	-86.76	-3,021.27	-6,955.89	3,077.89	2,688.60	389.30	7.906		
13,900.00	7,226.39	14,225.74	7,052.33	197.56	197.61	-86.76	-3,021.87	-7,055.89	3,077.72	2,682.81	394.91	7.793		
14,000.00	7,226.08	14,325.74	7,052.03	200.38	200.42	-86.76	-3,022.47	-7,155.89	3,077.55	2,677.02	400.53	7.684		
14,100.00	7,225.77	14,425.74	7,051.73	203.21	203.22	-86.76	-3,023.07	-7,255.88	3,077.38	2,671.23	406.15	7.577		
14,200.00	7,225.45	14,525.74	7,051.43	206.03	206.03	-86.76	-3,023.66	-7,355.88	3,077.21	2,665.44	411.77	7.473		
14,300.00	7,225.14	14,625.74	7,051.14	208.85	208.84	-86.76	-3,024.26	-7,455.88	3,077.04	2,659.64	417.40	7.372		
14,400.00	7,224.83	14,725.74	7,050.84	211.68	211.65	-86.76	-3,024.86	-7,555.88	3,076.87	2,653.85	423.03	7.273		
14,500.00	7,224.52	14,825.74	7,050.54	214.50	214.46	-86.76	-3,025.46	-7,655.87	3,076.70	2,648.05	428.66	7.178		
14,600.00	7,224.21	14,925.74	7,050.24	217.33	217.28	-86.76	-3,026.05	-7,755.87	3,076.53	2,642.24	434.29	7.084		
14,700.00	7,223.89	15,025.74	7,049.95	220.16	220.09	-86.76	-3,026.65	-7,855.87	3,076.36	2,636.44	439.92	6.993		
14,800.00	7,223.58	15,125.73	7,049.65	222.98	222.91	-86.76	-3,027.25	-7,955.87	3,076.19	2,630.64	445.56	6.904		
14,900.00	7,223.27	15,225.73	7,049.35	225.81	225.72	-86.76	-3,027.85	-8,055.86	3,076.02	2,624.83	451.19	6.818		
14,987.41	7,223.00	15,313.15	7,049.09	228.28	228.18	-86.76	-3,028.37	-8,143.27	3,075.87	2,619.75	456.12	6.744 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	0.00	0.00	3.28	3.28	0.79	20.05	0.28	20.05					
100.00	100.00	100.00	100.00	3.28	3.28	0.79	20.05	0.28	20.05	13.48	6.57	3.052		
200.00	200.00	200.00	200.00	3.34	3.34	0.79	20.05	0.28	20.05	13.38	6.67	3.004		
300.00	300.00	300.00	300.00	3.44	3.44	0.79	20.05	0.28	20.05	13.16	6.89	2.910		
400.00	400.00	400.00	400.00	3.60	3.60	0.79	20.05	0.28	20.05	12.84	7.21	2.782		
500.00	500.00	500.00	500.00	3.81	3.81	0.79	20.05	0.28	20.05	12.44	7.61	2.634 CC, ES		
600.00	600.00	599.35	599.33	4.05	4.04	-1.36	21.58	-0.51	21.60	13.50	8.10	2.667		
700.00	699.98	701.08	698.78	4.32	4.32	55.04	25.83	-2.71	24.98	16.34	8.64	2.890		
800.00	799.94	801.13	798.59	4.61	4.62	55.55	30.51	-5.14	28.09	18.85	9.23	3.042		
900.00	899.89	901.18	898.41	4.92	4.94	55.95	35.19	-7.56	31.19	21.33	9.87	3.162		
1,000.00	999.85	1,001.23	998.22	5.25	5.27	56.29	39.87	-9.98	34.30	23.76	10.53	3.256		
1,100.00	1,099.80	1,101.28	1,098.03	5.60	5.63	56.57	44.55	-12.41	37.40	26.17	11.23	3.330		
1,200.00	1,199.76	1,201.32	1,197.84	5.96	5.99	56.81	49.23	-14.83	40.51	28.56	11.95	3.389		
1,300.00	1,299.72	1,301.37	1,297.66	6.33	6.36	57.01	53.90	-17.26	43.62	30.92	12.70	3.436		
1,400.00	1,399.67	1,401.42	1,397.47	6.71	6.74	57.18	58.58	-19.68	46.73	33.27	13.46	3.473		
1,500.00	1,499.63	1,498.53	1,497.28	7.10	7.12	57.34	63.26	-22.10	49.84	35.62	14.22	3.505		
1,600.00	1,599.58	1,601.52	1,597.09	7.49	7.53	57.47	67.94	-24.53	52.95	37.94	15.02	3.526		
1,700.00	1,699.54	1,701.57	1,696.91	7.88	7.93	57.59	72.62	-26.95	56.06	40.25	15.81	3.546		
1,800.00	1,799.50	1,801.61	1,796.72	8.28	8.33	57.70	77.30	-29.37	59.17	42.56	16.62	3.561		
1,900.00	1,899.45	1,901.66	1,896.53	8.69	8.74	57.80	81.98	-31.80	62.28	44.86	17.43	3.574		
2,000.00	1,999.41	2,001.71	1,996.34	9.10	9.15	57.89	86.66	-34.22	65.39	47.15	18.25	3.584		
2,100.00	2,099.36	2,101.76	2,096.16	9.51	9.56	57.97	91.34	-36.64	68.50	49.43	19.07	3.592		
2,200.00	2,199.32	2,201.81	2,195.97	9.92	9.98	58.04	96.02	-39.07	71.61	51.72	19.90	3.599		
2,300.00	2,299.28	2,301.86	2,295.78	10.34	10.39	58.11	100.70	-41.49	74.73	53.99	20.73	3.605		
2,400.00	2,399.23	2,401.91	2,395.59	10.75	10.81	58.17	105.38	-43.92	77.84	56.27	21.57	3.609		
2,500.00	2,499.19	2,501.95	2,495.41	11.17	11.23	58.23	110.06	-46.34	80.95	58.54	22.41	3.612		
2,600.00	2,599.14	2,602.00	2,595.22	11.60	11.66	58.28	114.74	-48.76	84.06	60.81	23.25	3.615		
2,700.00	2,699.10	2,702.05	2,695.03	12.02	12.08	58.33	119.42	-51.19	87.17	63.07	24.10	3.617		
2,800.00	2,799.06	2,802.10	2,794.84	12.44	12.51	58.37	124.10	-53.61	90.28	65.34	24.95	3.619		
2,900.00	2,899.01	2,902.15	2,894.66	12.87	12.93	58.42	128.78	-56.03	93.39	67.60	25.80	3.620		
3,000.00	2,998.97	3,002.20	2,994.47	13.29	13.36	58.45	133.46	-58.46	96.51	69.85	26.65	3.621		
3,100.00	3,098.92	3,102.24	3,094.28	13.72	13.79	58.49	138.14	-60.88	99.62	72.11	27.51	3.622		
3,200.00	3,198.88	3,197.71	3,194.09	14.14	14.20	58.53	142.82	-63.30	102.73	74.39	28.34	3.624		
3,300.00	3,298.84	3,302.34	3,293.91	14.57	14.65	58.56	147.50	-65.73	105.84	76.62	29.22	3.622		
3,400.00	3,398.79	3,397.61	3,393.72	15.00	15.06	58.59	152.18	-68.15	108.95	78.89	30.06	3.625		
3,500.00	3,498.75	3,502.44	3,493.53	15.43	15.51	58.62	156.86	-70.58	112.06	81.12	30.94	3.622		
3,600.00	3,598.70	3,602.49	3,593.34	15.86	15.94	58.65	161.54	-73.00	115.18	83.37	31.80	3.622		
3,700.00	3,698.66	3,702.54	3,693.16	16.29	16.37	58.67	166.22	-75.42	118.29	85.62	32.67	3.621		
3,800.00	3,798.62	3,802.58	3,792.97	16.72	16.81	58.70	170.90	-77.85	121.40	87.87	33.53	3.621		
3,900.00	3,898.57	3,902.63	3,892.78	17.15	17.24	58.72	175.58	-80.27	124.51	90.12	34.39	3.620		
4,000.00	3,998.53	3,997.32	3,992.59	17.59	17.65	58.75	180.26	-82.69	127.62	92.39	35.24	3.622		
4,100.00	4,098.48	4,102.73	4,092.41	18.02	18.11	58.77	184.94	-85.12	130.74	94.61	36.13	3.619		
4,200.00	4,198.44	4,202.78	4,192.22	18.45	18.54	58.79	189.62	-87.54	133.85	96.85	36.99	3.618		
4,300.00	4,298.40	4,302.83	4,292.03	18.88	18.98	58.81	194.30	-89.97	136.96	99.10	37.86	3.617		
4,400.00	4,398.35	4,402.87	4,391.84	19.32	19.41	58.83	198.98	-92.39	140.07	101.34	38.73	3.617		
4,500.00	4,498.31	4,502.92	4,491.66	19.75	19.85	58.84	203.66	-94.81	143.18	103.59	39.60	3.616		
4,600.00	4,598.26	4,602.97	4,591.47	20.19	20.28	58.86	208.34	-97.24	146.30	105.83	40.47	3.615		
4,700.00	4,698.22	4,703.02	4,691.28	20.62	20.72	58.88	213.02	-99.66	149.41	108.07	41.34	3.614		
4,800.00	4,798.18	4,796.93	4,791.09	21.05	21.13	58.89	217.70	-102.08	152.52	110.34	42.18	3.616		
4,900.00	4,898.13	4,903.12	4,890.91	21.49	21.59	58.91	222.38	-104.51	155.63	112.55	43.08	3.613		
5,000.00	4,998.09	5,003.16	4,990.72	21.92	22.03	58.92	227.06	-106.93	158.74	114.79	43.95	3.612		
5,100.00	5,098.04	5,103.21	5,090.53	22.36	22.46	58.94	231.74	-109.35	161.86	117.03	44.82	3.611		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,203.26	5,190.34	22.79	22.90	58.95	236.42	-111.78	164.97	119.27	45.70	3.610	
5,300.00	5,297.96	5,303.31	5,290.16	23.23	23.34	58.96	241.10	-114.20	168.08	121.51	46.57	3.609	
5,400.00	5,397.91	5,403.36	5,389.97	23.67	23.78	58.98	245.78	-116.63	171.19	123.75	47.44	3.608	
5,500.00	5,497.87	5,503.41	5,489.78	24.10	24.21	58.99	250.46	-119.05	174.31	125.99	48.31	3.608	
5,600.00	5,597.82	5,596.54	5,589.59	24.54	24.62	59.00	255.14	-121.47	177.42	128.26	49.16	3.609	
5,700.00	5,697.78	5,703.50	5,689.41	24.97	25.09	59.01	259.82	-123.90	180.53	130.47	50.06	3.606	
5,800.00	5,797.74	5,803.55	5,789.22	25.41	25.53	59.02	264.50	-126.32	183.64	132.70	50.94	3.605	
5,900.00	5,897.69	5,903.60	5,889.03	25.85	25.96	59.03	269.18	-128.74	186.75	134.94	51.81	3.605	
6,000.00	5,997.65	6,003.65	5,988.85	26.28	26.40	59.04	273.86	-131.17	189.87	137.18	52.69	3.604	
6,100.00	6,097.60	6,103.70	6,088.66	26.72	26.84	59.05	278.54	-133.59	192.98	139.42	53.56	3.603	
6,200.00	6,197.56	6,203.75	6,188.47	27.16	27.28	59.06	283.22	-136.01	196.09	141.65	54.44	3.602	
6,300.00	6,297.52	6,303.79	6,288.28	27.59	27.72	59.07	287.90	-138.44	199.20	143.89	55.31	3.601	
6,400.00	6,397.47	6,396.16	6,388.10	28.03	28.12	59.08	292.58	-140.86	202.31	146.16	56.15	3.603	
6,500.00	6,497.43	6,496.43	6,488.14	28.47	28.56	58.59	297.26	-145.09	205.39	148.36	57.03	3.601	
6,600.00	6,597.38	6,594.74	6,584.72	28.90	28.99	54.50	301.69	-162.36	208.78	150.89	57.88	3.607	
6,700.00	6,697.08	6,687.77	6,672.66	29.34	29.41	73.54	305.62	-192.21	214.83	156.26	58.56	3.668	
6,800.00	6,794.63	6,777.49	6,752.49	29.79	29.81	70.62	309.11	-232.85	223.50	164.60	58.89	3.795	
6,900.00	6,887.62	6,864.55	6,823.76	30.24	30.23	66.12	312.13	-282.64	233.81	175.06	58.75	3.980	
7,000.00	6,973.77	6,949.40	6,886.07	30.70	30.67	61.95	314.67	-340.08	244.81	186.67	58.15	4.210	
7,100.00	7,050.94	7,032.43	6,939.14	31.20	31.16	58.40	316.74	-403.82	255.66	198.44	57.22	4.468	
7,200.00	7,117.24	7,113.99	6,982.77	31.77	31.73	55.52	318.34	-472.65	265.65	209.46	56.19	4.728	
7,300.00	7,171.03	7,194.41	7,016.85	32.46	32.39	53.28	319.45	-545.42	274.23	218.91	55.33	4.957	
7,400.00	7,211.00	7,273.96	7,041.28	33.29	33.15	51.66	320.09	-621.07	280.98	226.10	54.88	5.120	
7,500.00	7,236.16	7,352.91	7,056.03	34.29	34.00	50.60	320.27	-698.58	285.60	230.52	55.08	5.186	
7,600.00	7,245.89	7,431.51	7,061.09	35.43	34.94	50.07	319.98	-776.97	287.90	231.84	56.06	5.136	
7,700.00	7,245.73	7,527.96	7,059.54	36.72	36.23	49.86	319.26	-873.40	288.83	230.84	57.99	4.981	
7,800.00	7,245.42	7,627.95	7,057.79	38.18	37.73	49.64	318.51	-973.37	289.77	229.54	60.23	4.811	
7,900.00	7,245.10	7,727.94	7,056.04	39.80	39.37	49.43	317.75	-1,073.34	290.71	228.02	62.70	4.637	
8,000.00	7,244.79	7,827.93	7,054.29	41.54	41.15	49.21	317.00	-1,173.31	291.66	226.30	65.36	4.462	
8,100.00	7,244.48	7,927.92	7,052.54	43.41	43.05	49.00	316.25	-1,273.28	292.61	224.42	68.19	4.291	
8,200.00	7,244.17	8,027.91	7,050.79	45.38	45.04	48.79	315.50	-1,373.25	293.57	222.41	71.17	4.125	
8,300.00	7,243.86	8,127.90	7,049.04	47.44	47.13	48.59	314.74	-1,473.23	294.53	220.27	74.26	3.966	
8,400.00	7,243.55	8,227.89	7,047.29	49.58	49.29	48.38	313.99	-1,573.20	295.50	218.03	77.46	3.815	
8,500.00	7,243.23	8,327.88	7,045.54	51.78	51.52	48.17	313.24	-1,673.17	296.46	215.71	80.75	3.671	
8,600.00	7,242.92	8,427.87	7,043.79	54.05	53.81	47.97	312.49	-1,773.14	297.44	213.32	84.11	3.536	
8,700.00	7,242.61	8,527.85	7,042.04	56.37	56.15	47.76	311.73	-1,873.11	298.41	210.87	87.54	3.409	
8,800.00	7,242.30	8,627.84	7,040.30	58.74	58.54	47.56	310.98	-1,973.08	299.39	208.38	91.01	3.290	
8,900.00	7,241.99	8,727.83	7,038.55	61.16	60.97	47.36	310.23	-2,073.05	300.37	205.84	94.53	3.177	
9,000.00	7,241.67	8,827.82	7,036.80	63.61	63.43	47.16	309.48	-2,173.03	301.36	203.27	98.09	3.072	
9,100.00	7,241.36	8,927.81	7,035.05	66.09	65.93	46.97	308.72	-2,273.00	302.35	200.68	101.67	2.974	
9,200.00	7,241.05	9,027.80	7,033.30	68.60	68.45	46.77	307.97	-2,372.97	303.34	198.06	105.28	2.881	
9,300.00	7,240.74	9,127.79	7,031.55	71.13	71.00	46.57	307.22	-2,472.94	304.34	195.43	108.91	2.794	
9,400.00	7,240.43	9,227.78	7,029.80	73.70	73.57	46.38	306.47	-2,572.91	305.34	192.78	112.56	2.713	
9,500.00	7,240.11	9,327.77	7,028.05	76.28	76.16	46.19	305.71	-2,672.88	306.35	190.13	116.21	2.636	
9,600.00	7,239.80	9,427.76	7,026.30	78.88	78.77	46.00	304.96	-2,772.86	307.35	187.48	119.88	2.564	
9,700.00	7,239.49	9,527.75	7,024.55	81.50	81.40	45.81	304.21	-2,872.83	308.37	184.82	123.55	2.496	
9,800.00	7,239.18	9,627.74	7,022.80	84.13	84.04	45.62	303.46	-2,972.80	309.38	182.16	127.22	2.432	
9,900.00	7,238.87	9,727.73	7,021.05	86.78	86.70	45.43	302.70	-3,072.77	310.40	179.50	130.90	2.371	
10,000.00	7,238.55	9,827.72	7,019.30	89.44	89.37	45.24	301.95	-3,172.74	311.42	176.85	134.57	2.314	
10,100.00	7,238.24	9,927.71	7,017.55	92.11	92.05	45.06	301.20	-3,272.71	312.44	174.20	138.24	2.260	
10,200.00	7,237.93	10,027.70	7,015.80	94.80	94.74	44.87	300.45	-3,372.68	313.47	171.56	141.91	2.209	
10,300.00	7,237.62	10,127.69	7,014.05	97.49	97.44	44.69	299.69	-3,472.66	314.50	168.93	145.57	2.160	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	10,227.68	7,012.31	100.19	100.15	44.51	298.94	-3,572.63	315.54	166.31	149.23	2.114		
10,500.00	7,236.99	10,327.67	7,010.56	102.90	102.86	44.33	298.19	-3,672.60	316.57	163.69	152.88	2.071		
10,600.00	7,236.68	10,427.66	7,008.81	105.62	105.59	44.15	297.44	-3,772.57	317.61	161.09	156.52	2.029		
10,700.00	7,236.37	10,527.65	7,007.06	108.35	108.32	43.97	296.68	-3,872.54	318.66	158.50	160.16	1.990		
10,800.00	7,236.06	10,627.64	7,005.31	111.08	111.06	43.79	295.93	-3,972.51	319.70	155.92	163.78	1.952		
10,900.00	7,235.75	10,727.63	7,003.56	113.82	113.80	43.62	295.18	-4,072.49	320.75	153.36	167.39	1.916		
11,000.00	7,235.44	10,827.62	7,001.81	116.56	116.55	43.44	294.43	-4,172.46	321.81	150.81	171.00	1.882		
11,100.00	7,235.12	10,927.61	7,000.06	119.31	119.30	43.27	293.67	-4,272.43	322.86	148.27	174.59	1.849		
11,200.00	7,234.81	11,027.60	6,998.31	122.07	122.06	43.10	292.92	-4,372.40	323.92	145.75	178.17	1.818		
11,300.00	7,234.50	11,127.59	6,996.56	124.83	124.83	42.93	292.17	-4,472.37	324.98	143.24	181.74	1.788		
11,400.00	7,234.19	11,227.58	6,994.81	127.59	127.59	42.76	291.42	-4,572.34	326.05	140.75	185.30	1.760		
11,500.00	7,233.88	11,327.57	6,993.06	130.36	130.36	42.59	290.66	-4,672.31	327.11	138.27	188.84	1.732		
11,600.00	7,233.56	11,427.56	6,991.31	133.13	133.14	42.42	289.91	-4,772.29	328.18	135.81	192.38	1.706		
11,700.00	7,233.25	11,527.54	6,989.56	135.91	135.92	42.25	289.16	-4,872.26	329.26	133.36	195.90	1.681		
11,800.00	7,232.94	11,627.53	6,987.81	138.68	138.70	42.09	288.41	-4,972.23	330.33	130.93	199.40	1.657		
11,900.00	7,232.63	11,727.52	6,986.06	141.47	141.48	41.92	287.65	-5,072.20	331.41	128.51	202.90	1.633		
12,000.00	7,232.32	11,827.51	6,984.32	144.25	144.27	41.76	286.90	-5,172.17	332.49	126.11	206.38	1.611		
12,100.00	7,232.00	11,927.50	6,982.57	147.04	147.06	41.60	286.15	-5,272.14	333.57	123.73	209.84	1.590		
12,200.00	7,231.69	12,027.49	6,980.82	149.83	149.85	41.43	285.40	-5,372.12	334.66	121.36	213.30	1.569		
12,300.00	7,231.38	12,127.48	6,979.07	152.62	152.65	41.27	284.64	-5,472.09	335.75	119.01	216.74	1.549		
12,400.00	7,231.07	12,227.47	6,977.32	155.42	155.45	41.11	283.89	-5,572.06	336.84	116.68	220.16	1.530		
12,500.00	7,230.76	12,327.46	6,975.57	158.22	158.25	40.96	283.14	-5,672.03	337.94	114.36	223.57	1.512		
12,600.00	7,230.44	12,427.45	6,973.82	161.01	161.05	40.80	282.39	-5,772.00	339.03	112.06	226.97	1.494 Level 3		
12,700.00	7,230.13	12,527.44	6,972.07	163.82	163.85	40.64	281.63	-5,871.97	340.13	109.77	230.36	1.477 Level 3		
12,800.00	7,229.82	12,627.43	6,970.32	166.62	166.66	40.49	280.88	-5,971.94	341.23	107.51	233.73	1.460 Level 3		
12,900.00	7,229.51	12,727.42	6,968.57	169.43	169.46	40.33	280.13	-6,071.92	342.34	105.25	237.09	1.444 Level 3		
13,000.00	7,229.20	12,827.41	6,966.82	172.23	172.27	40.18	279.37	-6,171.89	343.44	103.02	240.43	1.428 Level 3		
13,100.00	7,228.88	12,927.40	6,965.07	175.04	175.08	40.03	278.62	-6,271.86	344.55	100.80	243.76	1.414 Level 3		
13,200.00	7,228.57	13,027.39	6,963.32	177.85	177.89	39.87	277.87	-6,371.83	345.67	98.59	247.07	1.399 Level 3		
13,300.00	7,228.26	13,127.38	6,961.57	180.66	180.71	39.72	277.12	-6,471.80	346.78	96.41	250.37	1.385 Level 3		
13,400.00	7,227.95	13,227.37	6,959.82	183.48	183.52	39.58	276.36	-6,571.77	347.90	94.23	253.66	1.371 Level 3		
13,500.00	7,227.64	13,327.36	6,958.08	186.29	186.34	39.43	275.61	-6,671.75	349.02	92.08	256.94	1.358 Level 3		
13,600.00	7,227.33	13,427.35	6,956.33	189.11	189.16	39.28	274.86	-6,771.72	350.14	89.94	260.20	1.346 Level 3		
13,700.00	7,227.01	13,527.34	6,954.58	191.92	191.97	39.13	274.11	-6,871.69	351.26	87.82	263.44	1.333 Level 3		
13,800.00	7,226.70	13,627.33	6,952.83	194.74	194.79	38.99	273.35	-6,971.66	352.39	85.71	266.68	1.321 Level 3		
13,900.00	7,226.39	13,727.32	6,951.08	197.56	197.61	38.84	272.60	-7,071.63	353.51	83.62	269.90	1.310 Level 3		
14,000.00	7,226.08	13,827.31	6,949.33	200.38	200.44	38.70	271.85	-7,171.60	354.64	81.54	273.10	1.299 Level 3		
14,100.00	7,225.77	13,927.30	6,947.58	203.21	203.26	38.56	271.10	-7,271.57	355.78	79.48	276.30	1.288 Level 3		
14,200.00	7,225.45	14,027.29	6,945.83	206.03	206.08	38.41	270.34	-7,371.55	356.91	77.43	279.48	1.277 Level 3		
14,300.00	7,225.14	14,127.28	6,944.08	208.85	208.91	38.27	269.59	-7,471.52	358.05	75.40	282.64	1.267 Level 3		
14,400.00	7,224.83	14,227.27	6,942.33	211.68	211.73	38.13	268.84	-7,571.49	359.19	73.39	285.80	1.257 Level 3		
14,500.00	7,224.52	14,327.26	6,940.58	214.50	214.56	37.99	268.09	-7,671.46	360.33	71.39	288.94	1.247 Level 2		
14,600.00	7,224.21	14,427.25	6,938.83	217.33	217.39	37.85	267.33	-7,771.43	361.47	69.41	292.06	1.238 Level 2		
14,700.00	7,223.89	14,527.23	6,937.08	220.16	220.21	37.72	266.58	-7,871.40	362.62	67.44	295.18	1.228 Level 2		
14,800.00	7,223.58	14,627.22	6,935.33	222.98	223.04	37.58	265.83	-7,971.37	363.76	65.48	298.28	1.220 Level 2		
14,900.00	7,223.27	14,727.21	6,933.58	225.81	225.87	37.44	265.08	-8,071.35	364.91	63.55	301.37	1.211 Level 2		
14,987.41	7,223.00	14,814.62	6,932.05	228.28	228.35	37.33	264.42	-8,158.73	365.92	61.86	304.06	1.203 Level 2, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1.00	0.00	3.28	3.28	-179.56	-179.96	-1.39	179.96					
100.00	100.00	101.00	100.00	3.28	3.28	-179.56	-179.96	-1.39	179.96	173.39	6.57	27.393		
200.00	200.00	199.00	200.00	3.34	3.34	-179.56	-179.96	-1.39	179.96	173.29	6.67	26.968	CC, ES	
300.00	300.00	293.16	294.15	3.44	3.43	-179.49	-181.46	-1.60	181.56	174.67	6.89	26.367		
400.00	400.00	387.07	387.94	3.60	3.57	-179.31	-186.00	-2.24	186.41	179.20	7.21	25.870		
500.00	500.00	480.57	481.12	3.81	3.75	-179.02	-193.55	-3.31	194.50	186.88	7.62	25.531		
600.00	600.00	573.48	573.42	4.05	3.98	-178.65	-204.03	-4.79	205.81	197.70	8.11	25.391		
700.00	699.98	665.48	664.44	4.32	4.26	-120.38	-217.32	-6.67	221.16	212.51	8.65	25.568		
800.00	799.94	763.39	761.02	4.61	4.61	-120.54	-233.21	-8.91	238.93	229.72	9.22	25.928		
900.00	899.89	861.79	858.09	4.92	4.99	-120.69	-249.20	-11.17	256.72	246.90	9.82	26.154		
1,000.00	999.85	960.20	955.16	5.25	5.40	-120.81	-265.18	-13.43	274.50	264.03	10.47	26.229		
1,100.00	1,099.80	1,058.60	1,052.23	5.60	5.84	-120.92	-281.16	-15.69	292.28	281.13	11.15	26.220		
1,200.00	1,199.76	1,157.01	1,149.30	5.96	6.29	-121.01	-297.14	-17.95	310.07	298.21	11.86	26.152		
1,300.00	1,299.72	1,255.41	1,246.38	6.33	6.76	-121.10	-313.13	-20.20	327.85	315.26	12.59	26.044		
1,400.00	1,399.67	1,353.81	1,343.45	6.71	7.24	-121.18	-329.11	-22.46	345.64	332.30	13.34	25.910		
1,500.00	1,499.63	1,452.22	1,440.52	7.10	7.73	-121.25	-345.09	-24.72	363.42	349.32	14.11	25.761		
1,600.00	1,599.58	1,550.62	1,537.59	7.49	8.23	-121.31	-361.07	-26.98	381.21	366.32	14.89	25.604		
1,700.00	1,699.54	1,649.03	1,634.66	7.88	8.74	-121.37	-377.05	-29.23	399.00	383.32	15.68	25.444		
1,800.00	1,799.50	1,747.43	1,731.73	8.28	9.25	-121.42	-393.04	-31.49	416.79	400.30	16.48	25.284		
1,900.00	1,899.45	1,845.84	1,828.81	8.69	9.76	-121.47	-409.02	-33.75	434.58	417.28	17.30	25.126		
2,000.00	1,999.41	1,944.24	1,925.88	9.10	10.28	-121.51	-425.00	-36.01	452.36	434.25	18.11	24.973		
2,100.00	2,099.36	2,042.65	2,022.95	9.51	10.80	-121.55	-440.98	-38.27	470.15	451.21	18.94	24.824		
2,200.00	2,199.32	2,141.05	2,120.02	9.92	11.33	-121.59	-456.96	-40.52	487.94	468.17	19.77	24.681		
2,300.00	2,299.28	2,239.46	2,217.09	10.34	11.85	-121.63	-472.95	-42.78	505.73	485.12	20.61	24.543		
2,400.00	2,399.23	2,337.86	2,314.17	10.75	12.38	-121.66	-488.93	-45.04	523.52	502.07	21.45	24.411		
2,500.00	2,499.19	2,436.26	2,411.24	11.17	12.91	-121.69	-504.91	-47.30	541.31	519.02	22.29	24.285		
2,600.00	2,599.14	2,534.67	2,508.31	11.60	13.45	-121.72	-520.89	-49.55	559.10	535.96	23.14	24.164		
2,700.00	2,699.10	2,633.07	2,605.38	12.02	13.98	-121.75	-536.88	-51.81	576.89	552.90	23.99	24.049		
2,800.00	2,799.06	2,731.48	2,702.45	12.44	14.52	-121.77	-552.86	-54.07	594.68	569.84	24.84	23.939		
2,900.00	2,899.01	2,829.88	2,799.52	12.87	15.06	-121.80	-568.84	-56.33	612.47	586.77	25.70	23.834		
3,000.00	2,998.97	2,928.29	2,896.60	13.29	15.59	-121.82	-584.82	-58.59	630.26	603.70	26.55	23.734		
3,100.00	3,098.92	3,026.69	2,993.67	13.72	16.13	-121.84	-600.80	-60.84	648.05	620.63	27.42	23.638		
3,200.00	3,198.88	3,125.10	3,090.74	14.14	16.67	-121.86	-616.79	-63.10	665.84	637.56	28.28	23.547		
3,300.00	3,298.84	3,223.50	3,187.81	14.57	17.21	-121.88	-632.77	-65.36	683.63	654.49	29.14	23.460		
3,400.00	3,398.79	3,321.91	3,284.88	15.00	17.75	-121.90	-648.75	-67.62	701.42	671.41	30.01	23.376		
3,500.00	3,498.75	3,420.31	3,381.96	15.43	18.30	-121.91	-664.73	-69.87	719.21	688.34	30.87	23.296		
3,600.00	3,598.70	3,518.72	3,479.03	15.86	18.84	-121.93	-680.71	-72.13	737.00	705.26	31.74	23.220		
3,700.00	3,698.66	3,617.12	3,576.10	16.29	19.38	-121.95	-696.70	-74.39	754.79	722.18	32.61	23.146		
3,800.00	3,798.62	3,715.52	3,673.17	16.72	19.93	-121.96	-712.68	-76.65	772.58	739.10	33.48	23.076		
3,900.00	3,898.57	3,813.93	3,770.24	17.15	20.47	-121.98	-728.66	-78.91	790.37	756.02	34.35	23.009		
4,000.00	3,998.53	3,912.33	3,867.31	17.59	21.01	-121.99	-744.64	-81.16	808.16	772.94	35.22	22.944		
4,100.00	4,098.48	4,010.74	3,964.39	18.02	21.56	-122.00	-760.62	-83.42	825.95	789.86	36.10	22.882		
4,200.00	4,198.44	4,109.14	4,061.46	18.45	22.10	-122.02	-776.61	-85.68	843.74	806.77	36.97	22.822		
4,300.00	4,298.40	4,207.55	4,158.53	18.88	22.65	-122.03	-792.59	-87.94	861.53	823.69	37.85	22.765		
4,400.00	4,398.35	4,305.95	4,255.60	19.32	23.20	-122.04	-808.57	-90.20	879.32	840.60	38.72	22.710		
4,500.00	4,498.31	4,404.36	4,352.67	19.75	23.74	-122.05	-824.55	-92.45	897.11	857.52	39.60	22.656		
4,600.00	4,598.26	4,502.76	4,449.75	20.19	24.29	-122.06	-840.54	-94.71	914.91	874.43	40.47	22.605		
4,700.00	4,698.22	4,601.17	4,546.82	20.62	24.84	-122.07	-856.52	-96.97	932.70	891.35	41.35	22.556		
4,800.00	4,798.18	4,700.43	4,643.89	21.05	25.39	-122.08	-872.50	-99.23	950.49	908.26	42.23	22.506		
4,900.00	4,898.13	4,802.03	4,740.96	21.49	25.95	-122.09	-888.48	-101.48	968.28	925.15	43.13	22.453		
5,000.00	4,998.09	4,903.62	4,838.03	21.92	26.52	-122.10	-904.46	-103.74	986.07	942.05	44.02	22.401		
5,100.00	5,098.04	5,005.22	4,935.10	22.36	27.08	-122.11	-920.45	-106.00	1,003.86	958.95	44.91	22.351		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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-MWID													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	5,198.00	5,093.19	5,032.18	22.79	27.57	-122.12	-936.43	-108.26	1,021.65	975.91	45.74	22.334		
5,300.00	5,297.96	5,208.41	5,129.25	23.23	28.21	-122.12	-952.41	-110.52	1,039.44	992.74	46.70	22.257		
5,400.00	5,397.91	5,290.00	5,226.32	23.67	28.67	-122.13	-968.39	-112.77	1,057.23	1,009.73	47.51	22.255		
5,500.00	5,497.87	5,388.40	5,323.39	24.10	29.22	-122.14	-984.37	-115.03	1,075.02	1,026.64	48.39	22.217		
5,600.00	5,597.82	5,486.81	5,420.46	24.54	29.77	-122.15	-1,000.36	-117.29	1,092.82	1,043.55	49.27	22.181		
5,700.00	5,697.78	5,585.21	5,517.53	24.97	30.31	-122.15	-1,016.34	-119.55	1,110.61	1,060.46	50.15	22.146		
5,800.00	5,797.74	5,683.62	5,614.61	25.41	30.86	-122.16	-1,032.32	-121.80	1,128.40	1,077.37	51.03	22.112		
5,900.00	5,897.69	5,782.02	5,711.68	25.85	31.41	-122.17	-1,048.30	-124.06	1,146.19	1,094.28	51.91	22.079		
6,000.00	5,997.65	5,880.42	5,808.75	26.28	31.96	-122.18	-1,064.29	-126.32	1,163.98	1,111.18	52.80	22.047		
6,100.00	6,097.60	5,978.83	5,905.82	26.72	32.51	-122.18	-1,080.27	-128.58	1,181.77	1,128.09	53.68	22.015		
6,200.00	6,197.56	6,077.23	6,002.89	27.16	33.06	-122.19	-1,096.25	-130.84	1,199.56	1,145.00	54.56	21.985		
6,300.00	6,297.52	6,175.64	6,099.97	27.59	33.61	-122.19	-1,112.23	-133.09	1,217.35	1,161.91	55.45	21.956		
6,400.00	6,397.47	6,274.04	6,197.04	28.03	34.16	-122.20	-1,128.21	-135.35	1,235.14	1,178.82	56.33	21.927		
6,500.00	6,497.43	6,372.45	6,294.11	28.47	34.71	-122.20	-1,144.20	-137.61	1,252.94	1,195.72	57.21	21.899		
6,600.00	6,597.38	6,470.85	6,391.18	28.90	35.26	-122.21	-1,160.18	-139.87	1,270.73	1,212.63	58.10	21.872		
6,700.00	6,697.08	6,569.10	6,488.10	29.34	35.81	-95.38	-1,176.14	-142.12	1,288.48	1,229.49	58.99	21.843		
6,800.00	6,794.63	6,665.60	6,583.29	29.79	36.34	-91.14	-1,191.81	-144.34	1,306.05	1,246.15	59.90	21.803		
6,900.00	6,887.62	6,762.11	6,678.42	30.24	36.88	-89.90	-1,207.48	-148.15	1,323.60	1,262.73	60.87	21.746		
7,000.00	6,973.77	6,866.99	6,780.17	30.70	37.48	-89.41	-1,224.34	-166.52	1,340.83	1,278.87	61.97	21.638		
7,100.00	7,050.94	6,979.53	6,884.42	31.20	38.10	-89.24	-1,241.74	-204.75	1,357.22	1,294.03	63.19	21.479		
7,200.00	7,117.24	7,100.95	6,987.52	31.77	38.77	-89.27	-1,259.11	-266.12	1,372.17	1,307.60	64.56	21.253		
7,300.00	7,171.03	7,232.10	7,083.77	32.46	39.50	-89.44	-1,275.53	-353.34	1,385.02	1,318.85	66.17	20.930		
7,400.00	7,211.00	7,373.03	7,165.17	33.29	40.37	-89.68	-1,289.69	-467.15	1,395.09	1,326.93	68.15	20.470		
7,500.00	7,236.16	7,522.39	7,222.28	34.29	41.49	-89.90	-1,300.00	-604.40	1,401.71	1,331.02	70.68	19.832		
7,600.00	7,245.89	7,677.14	7,246.55	35.43	43.05	-90.03	-1,305.02	-756.77	1,404.36	1,330.52	73.83	19.021		
7,700.00	7,245.73	7,787.17	7,246.57	36.72	44.47	-90.03	-1,305.76	-866.79	1,404.24	1,327.24	77.00	18.237		
7,800.00	7,245.42	7,887.17	7,246.04	38.18	46.00	-90.03	-1,306.34	-966.79	1,404.06	1,323.64	80.42	17.459		
7,900.00	7,245.10	7,987.17	7,245.51	39.80	47.75	-90.02	-1,306.93	-1,066.78	1,403.87	1,319.72	84.15	16.683		
8,000.00	7,244.79	8,087.17	7,244.98	41.54	49.70	-90.01	-1,307.51	-1,166.78	1,403.69	1,315.53	88.16	15.922		
8,100.00	7,244.48	8,187.17	7,244.45	43.41	51.82	-90.00	-1,308.09	-1,266.78	1,403.51	1,311.09	92.41	15.187		
8,200.00	7,244.17	8,287.17	7,243.92	45.38	54.09	-89.99	-1,308.68	-1,366.77	1,403.32	1,306.45	96.87	14.486		
8,300.00	7,243.86	8,387.17	7,243.40	47.44	56.47	-89.98	-1,309.26	-1,466.77	1,403.14	1,301.63	101.52	13.822		
8,400.00	7,243.55	8,487.17	7,242.87	49.58	58.96	-89.97	-1,309.85	-1,566.77	1,402.96	1,296.64	106.31	13.196		
8,500.00	7,243.23	8,587.16	7,242.34	51.78	61.54	-89.96	-1,310.43	-1,666.76	1,402.78	1,291.52	111.25	12.609		
8,600.00	7,242.92	8,687.16	7,241.81	54.05	64.20	-89.95	-1,311.02	-1,766.76	1,402.59	1,286.28	116.31	12.059		
8,700.00	7,242.61	8,787.16	7,241.28	56.37	66.92	-89.95	-1,311.60	-1,866.76	1,402.41	1,280.94	121.47	11.545		
8,800.00	7,242.30	8,887.16	7,240.75	58.74	69.70	-89.94	-1,312.19	-1,966.75	1,402.23	1,275.50	126.72	11.065		
8,900.00	7,241.99	8,987.16	7,240.22	61.16	72.53	-89.93	-1,312.77	-2,066.75	1,402.04	1,269.98	132.06	10.617		
9,000.00	7,241.67	9,087.16	7,239.70	63.61	75.40	-89.92	-1,313.35	-2,166.75	1,401.86	1,264.39	137.47	10.198		
9,100.00	7,241.36	9,187.16	7,239.17	66.09	78.32	-89.91	-1,313.94	-2,266.74	1,401.68	1,258.74	142.94	9.806		
9,200.00	7,241.05	9,287.16	7,238.64	68.60	81.26	-89.90	-1,314.52	-2,366.74	1,401.49	1,253.03	148.46	9.440		
9,300.00	7,240.74	9,387.16	7,238.11	71.13	84.24	-89.89	-1,315.11	-2,466.73	1,401.31	1,247.27	154.04	9.097		
9,400.00	7,240.43	9,487.16	7,237.58	73.70	87.25	-89.88	-1,315.69	-2,566.73	1,401.13	1,241.46	159.66	8.775		
9,500.00	7,240.11	9,587.16	7,237.05	76.28	90.27	-89.88	-1,316.28	-2,666.73	1,400.95	1,235.62	165.33	8.474		
9,600.00	7,239.80	9,687.16	7,236.52	78.88	93.32	-89.87	-1,316.86	-2,766.72	1,400.76	1,229.74	171.03	8.190		
9,700.00	7,239.49	9,787.16	7,235.99	81.50	96.39	-89.86	-1,317.44	-2,866.72	1,400.58	1,223.82	176.76	7.924		
9,800.00	7,239.18	9,887.16	7,235.47	84.13	99.48	-89.85	-1,318.03	-2,966.72	1,400.40	1,217.87	182.52	7.672		
9,900.00	7,238.87	9,987.16	7,234.94	86.78	102.58	-89.84	-1,318.61	-3,066.71	1,400.22	1,211.90	188.32	7.435		
10,000.00	7,238.55	10,087.16	7,234.41	89.44	105.70	-89.83	-1,319.20	-3,166.71	1,400.03	1,205.90	194.13	7.212		
10,100.00	7,238.24	10,187.16	7,233.88	92.11	108.83	-89.82	-1,319.78	-3,266.71	1,399.85	1,199.88	199.97	7.000		
10,200.00	7,237.93	10,287.16	7,233.35	94.80	111.97	-89.81	-1,320.37	-3,366.70	1,399.67	1,193.84	205.83	6.800		
10,300.00	7,237.62	10,387.16	7,232.82	97.49	115.13	-89.80	-1,320.95	-3,466.70	1,399.49	1,187.78	211.70	6.611		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	10,487.16	7,232.29	100.19	118.29	-89.80	-1,321.53	-3,566.70	1,399.30	1,181.70	217.60	6.431		
10,500.00	7,236.99	10,587.16	7,231.76	102.90	121.46	-89.79	-1,322.12	-3,666.69	1,399.12	1,175.61	223.51	6.260		
10,600.00	7,236.68	10,687.16	7,231.24	105.62	124.65	-89.78	-1,322.70	-3,766.69	1,398.94	1,169.50	229.44	6.097		
10,700.00	7,236.37	10,787.16	7,230.71	108.35	127.84	-89.77	-1,323.29	-3,866.69	1,398.76	1,163.38	235.38	5.943		
10,800.00	7,236.06	10,887.16	7,230.18	111.08	131.03	-89.76	-1,323.87	-3,966.68	1,398.57	1,157.25	241.33	5.795		
10,900.00	7,235.75	10,987.16	7,229.65	113.82	134.24	-89.75	-1,324.46	-4,066.68	1,398.39	1,151.10	247.29	5.655		
11,000.00	7,235.44	11,087.15	7,229.12	116.56	137.45	-89.74	-1,325.04	-4,166.68	1,398.21	1,144.94	253.27	5.521		
11,100.00	7,235.12	11,187.15	7,228.59	119.31	140.66	-89.73	-1,325.63	-4,266.67	1,398.03	1,138.78	259.25	5.393		
11,200.00	7,234.81	11,287.15	7,228.06	122.07	143.88	-89.72	-1,326.21	-4,366.67	1,397.84	1,132.60	265.25	5.270		
11,300.00	7,234.50	11,387.15	7,227.53	124.83	147.11	-89.71	-1,326.79	-4,466.66	1,397.66	1,126.41	271.25	5.153		
11,400.00	7,234.19	11,487.15	7,227.01	127.59	150.34	-89.71	-1,327.38	-4,566.66	1,397.48	1,120.22	277.26	5.040		
11,500.00	7,233.88	11,587.15	7,226.48	130.36	153.58	-89.70	-1,327.96	-4,666.66	1,397.30	1,114.02	283.28	4.933		
11,600.00	7,233.56	11,687.15	7,225.95	133.13	156.82	-89.69	-1,328.55	-4,766.65	1,397.12	1,107.81	289.31	4.829		
11,700.00	7,233.25	11,787.15	7,225.42	135.91	160.06	-89.68	-1,329.13	-4,866.65	1,396.93	1,101.59	295.34	4.730		
11,800.00	7,232.94	11,887.15	7,224.89	138.68	163.31	-89.67	-1,329.72	-4,966.65	1,396.75	1,095.37	301.38	4.635		
11,900.00	7,232.63	11,987.15	7,224.36	141.47	166.56	-89.66	-1,330.30	-5,066.64	1,396.57	1,089.15	307.42	4.543		
12,000.00	7,232.32	12,087.15	7,223.83	144.25	169.81	-89.65	-1,330.88	-5,166.64	1,396.39	1,082.91	313.48	4.455		
12,100.00	7,232.00	12,187.15	7,223.31	147.04	173.07	-89.64	-1,331.47	-5,266.64	1,396.21	1,076.67	319.53	4.370		
12,200.00	7,231.69	12,287.15	7,222.78	149.83	176.33	-89.63	-1,332.05	-5,366.63	1,396.02	1,070.43	325.60	4.288		
12,300.00	7,231.38	12,387.15	7,222.25	152.62	179.59	-89.63	-1,332.64	-5,466.63	1,395.84	1,064.18	331.66	4.209		
12,400.00	7,231.07	12,487.15	7,221.72	155.42	182.86	-89.62	-1,333.22	-5,566.63	1,395.66	1,057.93	337.73	4.132		
12,500.00	7,230.76	12,587.15	7,221.19	158.22	186.12	-89.61	-1,333.81	-5,666.62	1,395.48	1,051.67	343.81	4.059		
12,600.00	7,230.44	12,687.15	7,220.66	161.01	189.39	-89.60	-1,334.39	-5,766.62	1,395.30	1,045.41	349.89	3.988		
12,700.00	7,230.13	12,787.15	7,220.13	163.82	192.67	-89.59	-1,334.97	-5,866.62	1,395.12	1,039.14	355.97	3.919		
12,800.00	7,229.82	12,887.15	7,219.60	166.62	195.94	-89.58	-1,335.56	-5,966.61	1,394.93	1,032.88	362.06	3.853		
12,900.00	7,229.51	12,987.15	7,219.08	169.43	199.22	-89.57	-1,336.14	-6,066.61	1,394.75	1,026.60	368.15	3.789		
13,000.00	7,229.20	13,087.15	7,218.55	172.23	202.50	-89.56	-1,336.73	-6,166.61	1,394.57	1,020.33	374.24	3.726		
13,100.00	7,228.88	13,187.15	7,218.02	175.04	205.78	-89.55	-1,337.31	-6,266.60	1,394.39	1,014.05	380.34	3.666		
13,200.00	7,228.57	13,287.15	7,217.49	177.85	209.06	-89.54	-1,337.90	-6,366.60	1,394.21	1,007.77	386.44	3.608		
13,300.00	7,228.26	13,387.15	7,216.96	180.66	212.34	-89.54	-1,338.48	-6,466.59	1,394.03	1,001.48	392.54	3.551		
13,400.00	7,227.95	13,487.15	7,216.43	183.48	215.63	-89.53	-1,339.07	-6,566.59	1,393.84	995.20	398.65	3.496		
13,500.00	7,227.64	13,587.14	7,215.90	186.29	218.91	-89.52	-1,339.65	-6,666.59	1,393.66	988.91	404.75	3.443		
13,600.00	7,227.33	13,687.14	7,215.37	189.11	222.20	-89.51	-1,340.23	-6,766.58	1,393.48	982.62	410.86	3.392		
13,700.00	7,227.01	13,787.14	7,214.85	191.92	225.49	-89.50	-1,340.82	-6,866.58	1,393.30	976.32	416.98	3.341		
13,800.00	7,226.70	13,887.14	7,214.32	194.74	228.78	-89.49	-1,341.40	-6,966.58	1,393.12	970.03	423.09	3.293		
13,900.00	7,226.39	13,987.14	7,213.79	197.56	232.07	-89.48	-1,341.99	-7,066.57	1,392.94	963.73	429.21	3.245		
14,000.00	7,226.08	14,087.14	7,213.26	200.38	235.36	-89.47	-1,342.57	-7,166.57	1,392.76	957.43	435.33	3.199		
14,100.00	7,225.77	14,187.14	7,212.73	203.21	238.66	-89.46	-1,343.16	-7,266.57	1,392.58	951.13	441.45	3.155		
14,200.00	7,225.45	14,287.14	7,212.20	206.03	241.95	-89.46	-1,343.74	-7,366.56	1,392.39	944.82	447.57	3.111		
14,300.00	7,225.14	14,387.14	7,211.67	208.85	245.25	-89.45	-1,344.32	-7,466.56	1,392.21	938.52	453.70	3.069		
14,400.00	7,224.83	14,487.14	7,211.14	211.68	248.55	-89.44	-1,344.91	-7,566.56	1,392.03	932.21	459.82	3.027		
14,500.00	7,224.52	14,587.14	7,210.62	214.50	251.84	-89.43	-1,345.49	-7,666.55	1,391.85	925.90	465.95	2.987		
14,600.00	7,224.21	14,687.14	7,210.09	217.33	255.14	-89.42	-1,346.08	-7,766.55	1,391.67	919.59	472.08	2.948		
14,700.00	7,223.89	14,787.14	7,209.56	220.16	258.44	-89.41	-1,346.66	-7,866.55	1,391.49	913.27	478.21	2.910		
14,800.00	7,223.58	14,887.14	7,209.03	222.98	261.74	-89.40	-1,347.25	-7,966.54	1,391.31	906.96	484.35	2.873		
14,900.00	7,223.27	14,987.14	7,208.50	225.81	265.05	-89.39	-1,347.83	-8,066.54	1,391.13	900.65	490.48	2.836		
14,987.41	7,223.00	15,074.55	7,208.04	228.28	267.93	-89.38	-1,348.34	-8,153.95	1,390.97	895.12	495.84	2.805 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	0.00	0.00	3.28	3.28	-179.47	-60.10	-0.56	60.10					
100.00	100.00	100.00	100.00	3.28	3.28	-179.47	-60.10	-0.56	60.10	53.54	6.57	9.149		
200.00	200.00	200.00	200.00	3.34	3.34	-179.47	-60.10	-0.56	60.10	53.43	6.67	9.006		
300.00	300.00	300.00	300.00	3.44	3.44	-179.47	-60.10	-0.56	60.10	53.22	6.89	8.724		
400.00	400.00	400.00	400.00	3.60	3.60	-179.47	-60.10	-0.56	60.10	52.90	7.21	8.340		
500.00	500.00	500.00	500.00	3.81	3.81	-179.47	-60.10	-0.56	60.10	52.49	7.61	7.896 CC, ES		
600.00	600.00	598.00	597.98	4.05	4.03	-179.00	-61.69	-1.08	61.74	53.66	8.08	7.639		
700.00	699.98	695.73	695.58	4.32	4.28	-120.88	-66.45	-2.64	67.51	58.90	8.61	7.840		
800.00	799.94	805.34	794.22	4.61	4.59	-121.09	-73.69	-5.01	76.38	67.17	9.21	8.293		
900.00	899.89	905.75	893.50	4.92	4.89	-121.23	-81.11	-7.45	85.41	75.58	9.83	8.691		
1,000.00	999.85	1,006.15	992.79	5.25	5.22	-121.34	-88.54	-9.89	94.43	83.94	10.48	9.009		
1,100.00	1,099.80	1,106.56	1,092.07	5.60	5.57	-121.43	-95.96	-12.32	103.45	92.28	11.17	9.263		
1,200.00	1,199.76	1,206.97	1,191.36	5.96	5.93	-121.51	-103.39	-14.76	112.47	100.59	11.88	9.466		
1,300.00	1,299.72	1,307.38	1,290.64	6.33	6.30	-121.57	-110.81	-17.19	121.49	108.87	12.62	9.630		
1,400.00	1,399.67	1,407.79	1,389.93	6.71	6.69	-121.63	-118.24	-19.63	130.51	117.14	13.37	9.762		
1,500.00	1,499.63	1,508.19	1,489.21	7.10	7.08	-121.68	-125.66	-22.07	139.53	125.40	14.14	9.870		
1,600.00	1,599.58	1,591.40	1,588.50	7.49	7.41	-121.72	-133.09	-24.50	148.55	133.70	14.85	10.003		
1,700.00	1,699.54	1,709.01	1,687.78	7.88	7.88	-121.76	-140.51	-26.94	157.58	141.87	15.71	10.030		
1,800.00	1,799.50	1,809.42	1,787.07	8.28	8.29	-121.79	-147.94	-29.37	166.60	150.09	16.51	10.090		
1,900.00	1,899.45	1,909.83	1,886.35	8.69	8.71	-121.83	-155.36	-31.81	175.62	158.30	17.32	10.139		
2,000.00	1,999.41	1,989.77	1,985.64	9.10	9.04	-121.85	-162.79	-34.25	184.64	166.59	18.05	10.227		
2,100.00	2,099.36	2,089.36	2,084.92	9.51	9.46	-121.88	-170.21	-36.68	193.66	174.79	18.87	10.261		
2,200.00	2,199.32	2,188.95	2,184.21	9.92	9.88	-121.90	-177.63	-39.12	202.69	182.99	19.70	10.290		
2,300.00	2,299.28	2,288.54	2,283.49	10.34	10.30	-121.92	-185.06	-41.55	211.71	191.18	20.53	10.314		
2,400.00	2,399.23	2,388.14	2,382.78	10.75	10.72	-121.94	-192.48	-43.99	220.73	199.37	21.36	10.334		
2,500.00	2,499.19	2,487.73	2,482.06	11.17	11.15	-121.96	-199.91	-46.43	229.75	207.56	22.20	10.351		
2,600.00	2,599.14	2,587.32	2,581.35	11.60	11.58	-121.98	-207.33	-48.86	238.78	215.74	23.04	10.365		
2,700.00	2,699.10	2,686.91	2,680.63	12.02	12.01	-121.99	-214.76	-51.30	247.80	223.92	23.88	10.377		
2,800.00	2,799.06	2,786.50	2,779.92	12.44	12.44	-122.00	-222.18	-53.73	256.82	232.09	24.73	10.387		
2,900.00	2,899.01	2,886.10	2,879.20	12.87	12.87	-122.02	-229.61	-56.17	265.84	240.27	25.57	10.395		
3,000.00	2,998.97	2,985.69	2,978.49	13.29	13.31	-122.03	-237.03	-58.61	274.86	248.44	26.42	10.402		
3,100.00	3,098.92	3,085.28	3,077.77	13.72	13.74	-122.04	-244.46	-61.04	283.89	256.61	27.28	10.408		
3,200.00	3,198.88	3,184.87	3,177.06	14.14	14.18	-122.05	-251.88	-63.48	292.91	264.78	28.13	10.412		
3,300.00	3,298.84	3,284.47	3,276.34	14.57	14.62	-122.06	-259.31	-65.91	301.93	272.94	28.99	10.416		
3,400.00	3,398.79	3,384.06	3,375.63	15.00	15.05	-122.07	-266.73	-68.35	310.95	281.11	29.84	10.419		
3,500.00	3,498.75	3,483.65	3,474.91	15.43	15.49	-122.08	-274.16	-70.79	319.98	289.27	30.70	10.422		
3,600.00	3,598.70	3,583.24	3,574.20	15.86	15.93	-122.09	-281.58	-73.22	329.00	297.44	31.56	10.424		
3,700.00	3,698.66	3,682.83	3,673.48	16.29	16.37	-122.10	-289.01	-75.66	338.02	305.60	32.42	10.425		
3,800.00	3,798.62	3,782.43	3,772.77	16.72	16.81	-122.11	-296.43	-78.09	347.04	313.76	33.29	10.426		
3,900.00	3,898.57	3,882.02	3,872.05	17.15	17.25	-122.11	-303.86	-80.53	356.07	321.92	34.15	10.427		
4,000.00	3,998.53	3,981.61	3,971.34	17.59	17.69	-122.12	-311.28	-82.97	365.09	330.08	35.01	10.427		
4,100.00	4,098.48	4,081.20	4,070.62	18.02	18.13	-122.13	-318.71	-85.40	374.11	338.23	35.88	10.428		
4,200.00	4,198.44	4,180.79	4,169.91	18.45	18.58	-122.13	-326.13	-87.84	383.13	346.39	36.74	10.427		
4,300.00	4,298.40	4,280.39	4,269.19	18.88	19.02	-122.14	-333.56	-90.27	392.15	354.55	37.61	10.427		
4,400.00	4,398.35	4,379.98	4,368.48	19.32	19.46	-122.14	-340.98	-92.71	401.18	362.70	38.48	10.427		
4,500.00	4,498.31	4,479.57	4,467.76	19.75	19.90	-122.15	-348.41	-95.15	410.20	370.86	39.34	10.426		
4,600.00	4,598.26	4,579.16	4,567.05	20.19	20.35	-122.15	-355.83	-97.58	419.22	379.01	40.21	10.425		
4,700.00	4,698.22	4,678.76	4,666.33	20.62	20.79	-122.16	-363.26	-100.02	428.24	387.16	41.08	10.424		
4,800.00	4,798.18	4,778.35	4,765.62	21.05	21.23	-122.16	-370.68	-102.45	437.27	395.32	41.95	10.424		
4,900.00	4,898.13	4,877.94	4,864.90	21.49	21.68	-122.17	-378.11	-104.89	446.29	403.47	42.82	10.422		
5,000.00	4,998.09	4,977.53	4,964.19	21.92	22.12	-122.17	-385.53	-107.33	455.31	411.62	43.69	10.421		
5,100.00	5,098.04	5,077.12	5,063.48	22.36	22.57	-122.18	-392.96	-109.76	464.33	419.77	44.56	10.420		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,176.72	5,162.76	22.79	23.01	-122.18	-400.38	-112.20	473.36	427.92	45.43	10.419		
5,300.00	5,297.96	5,276.31	5,262.05	23.23	23.46	-122.19	-407.81	-114.63	482.38	436.08	46.30	10.418		
5,400.00	5,397.91	5,375.90	5,361.33	23.67	23.90	-122.19	-415.23	-117.07	491.40	444.23	47.18	10.416		
5,500.00	5,497.87	5,475.49	5,460.62	24.10	24.35	-122.19	-422.66	-119.51	500.42	452.38	48.05	10.415		
5,600.00	5,597.82	5,575.08	5,559.90	24.54	24.79	-122.20	-430.08	-121.94	509.45	460.53	48.92	10.414		
5,700.00	5,697.78	5,674.68	5,659.19	24.97	25.24	-122.20	-437.50	-124.38	518.47	468.68	49.79	10.412		
5,800.00	5,797.74	5,774.27	5,758.47	25.41	25.68	-122.20	-444.93	-126.81	527.49	476.82	50.67	10.411		
5,900.00	5,897.69	5,873.86	5,857.76	25.85	26.13	-122.21	-452.35	-129.25	536.51	484.97	51.54	10.410		
6,000.00	5,997.65	5,973.45	5,957.04	26.28	26.58	-122.21	-459.78	-131.69	545.54	493.12	52.41	10.408		
6,100.00	6,097.60	6,073.05	6,056.33	26.72	27.02	-122.21	-467.20	-134.12	554.56	501.27	53.29	10.407		
6,200.00	6,197.56	6,172.64	6,155.61	27.16	27.47	-122.22	-474.63	-136.56	563.58	509.42	54.16	10.406		
6,300.00	6,297.52	6,272.23	6,254.90	27.59	27.92	-122.22	-482.05	-138.99	572.60	517.57	55.04	10.404		
6,400.00	6,397.47	6,371.82	6,354.18	28.03	28.36	-122.22	-489.48	-141.43	581.62	525.71	55.91	10.403		
6,500.00	6,497.43	6,471.41	6,453.47	28.47	28.81	-122.22	-496.90	-143.87	590.65	533.86	56.79	10.401		
6,600.00	6,597.38	6,571.01	6,552.75	28.90	29.26	-122.23	-504.33	-146.30	599.67	542.01	57.66	10.400		
6,700.00	6,697.08	6,670.55	6,651.97	29.34	29.70	-96.12	-511.75	-149.35	608.67	550.13	58.54	10.398		
6,800.00	6,794.63	6,770.81	6,750.76	29.79	30.15	-92.50	-519.24	-164.04	617.55	558.12	59.43	10.391		
6,900.00	6,887.62	6,872.23	6,847.09	30.24	30.58	-91.31	-526.67	-194.52	626.10	565.77	60.33	10.378		
7,000.00	6,973.77	6,974.83	6,938.37	30.70	31.00	-90.69	-533.85	-240.56	634.10	572.85	61.24	10.354		
7,100.00	7,050.94	7,078.59	7,021.98	31.20	31.40	-90.31	-540.58	-301.44	641.33	579.12	62.21	10.309		
7,200.00	7,117.24	7,183.46	7,095.32	31.77	31.81	-90.06	-546.66	-375.98	647.61	584.30	63.31	10.229		
7,300.00	7,171.03	7,289.32	7,155.98	32.46	32.35	-89.89	-551.89	-462.43	652.76	588.13	64.63	10.100		
7,400.00	7,211.00	7,396.01	7,201.82	33.29	33.09	-89.78	-556.08	-558.54	656.63	590.36	66.26	9.909		
7,500.00	7,236.16	7,503.32	7,231.14	34.29	34.08	-89.74	-559.11	-661.60	659.10	590.84	68.26	9.656		
7,600.00	7,245.89	7,611.01	7,242.81	35.43	35.27	-89.74	-560.85	-768.51	660.11	589.51	70.60	9.351		
7,700.00	7,245.73	7,712.32	7,242.67	36.72	36.56	-89.73	-561.66	-869.82	660.14	586.96	73.19	9.020		
7,800.00	7,245.42	7,812.32	7,242.28	38.18	38.01	-89.73	-562.44	-969.81	660.16	584.05	76.11	8.674		
7,900.00	7,245.10	7,912.32	7,241.89	39.80	39.61	-89.72	-563.22	-1,069.81	660.17	580.84	79.33	8.322		
8,000.00	7,244.79	8,012.32	7,241.49	41.54	41.35	-89.71	-564.00	-1,169.80	660.19	577.37	82.82	7.971		
8,100.00	7,244.48	8,112.32	7,241.10	43.41	43.21	-89.71	-564.79	-1,269.80	660.20	573.65	86.55	7.628		
8,200.00	7,244.17	8,212.32	7,240.71	45.38	45.18	-89.70	-565.57	-1,369.80	660.22	569.73	90.49	7.296		
8,300.00	7,243.86	8,312.32	7,240.31	47.44	47.23	-89.69	-566.35	-1,469.79	660.23	565.62	94.61	6.978		
8,400.00	7,243.55	8,412.32	7,239.92	49.58	49.37	-89.69	-567.13	-1,569.79	660.25	561.36	98.89	6.677		
8,500.00	7,243.23	8,512.32	7,239.53	51.78	51.57	-89.68	-567.92	-1,669.79	660.27	556.96	103.31	6.391		
8,600.00	7,242.92	8,612.32	7,239.13	54.05	53.84	-89.67	-568.70	-1,769.78	660.28	552.43	107.85	6.122		
8,700.00	7,242.61	8,712.32	7,238.74	56.37	56.16	-89.66	-569.48	-1,869.78	660.30	547.80	112.49	5.870		
8,800.00	7,242.30	8,812.32	7,238.35	58.74	58.53	-89.66	-570.26	-1,969.77	660.31	543.08	117.23	5.632		
8,900.00	7,241.99	8,912.32	7,237.95	61.16	60.94	-89.65	-571.04	-2,069.77	660.33	538.27	122.06	5.410		
9,000.00	7,241.67	9,012.32	7,237.56	63.61	63.39	-89.64	-571.83	-2,169.77	660.34	533.38	126.96	5.201		
9,100.00	7,241.36	9,112.32	7,237.17	66.09	65.87	-89.64	-572.61	-2,269.76	660.36	528.43	131.92	5.006		
9,200.00	7,241.05	9,212.32	7,236.77	68.60	68.38	-89.63	-573.39	-2,369.76	660.37	523.42	136.95	4.822		
9,300.00	7,240.74	9,312.32	7,236.38	71.13	70.92	-89.62	-574.17	-2,469.75	660.39	518.36	142.02	4.650		
9,400.00	7,240.43	9,412.32	7,235.99	73.70	73.48	-89.61	-574.96	-2,569.75	660.40	513.26	147.15	4.488		
9,500.00	7,240.11	9,512.32	7,235.59	76.28	76.06	-89.61	-575.74	-2,669.75	660.42	508.11	152.31	4.336		
9,600.00	7,239.80	9,612.32	7,235.20	78.88	78.67	-89.60	-576.52	-2,769.74	660.43	502.92	157.51	4.193		
9,700.00	7,239.49	9,712.32	7,234.81	81.50	81.28	-89.59	-577.30	-2,869.74	660.45	497.70	162.75	4.058		
9,800.00	7,239.18	9,812.32	7,234.41	84.13	83.92	-89.59	-578.08	-2,969.74	660.46	492.44	168.02	3.931		
9,900.00	7,238.87	9,912.32	7,234.02	86.78	86.57	-89.58	-578.87	-3,069.73	660.48	487.16	173.32	3.811		
10,000.00	7,238.55	10,012.32	7,233.63	89.44	89.23	-89.57	-579.65	-3,169.73	660.49	481.85	178.64	3.697		
10,100.00	7,238.24	10,112.32	7,233.23	92.11	91.90	-89.57	-580.43	-3,269.72	660.51	476.52	183.99	3.590		
10,200.00	7,237.93	10,212.32	7,232.84	94.80	94.58	-89.56	-581.21	-3,369.72	660.52	471.17	189.35	3.488		
10,300.00	7,237.62	10,312.32	7,232.45	97.49	97.28	-89.55	-581.99	-3,469.72	660.54	465.80	194.74	3.392		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	10,412.32	7,232.05	100.19	99.98	-89.54	-582.78	-3,569.71	660.55	460.40	200.15	3.300		
10,500.00	7,236.99	10,512.32	7,231.66	102.90	102.69	-89.54	-583.56	-3,669.71	660.57	455.00	205.57	3.213		
10,600.00	7,236.68	10,612.32	7,231.27	105.62	105.41	-89.53	-584.34	-3,769.70	660.58	449.57	211.01	3.131		
10,700.00	7,236.37	10,712.32	7,230.87	108.35	108.14	-89.52	-585.12	-3,869.70	660.60	444.14	216.46	3.052		
10,800.00	7,236.06	10,812.32	7,230.48	111.08	110.87	-89.52	-585.91	-3,969.70	660.61	438.69	221.93	2.977		
10,900.00	7,235.75	10,912.32	7,230.09	113.82	113.61	-89.51	-586.69	-4,069.69	660.63	433.22	227.41	2.905		
11,000.00	7,235.44	11,012.32	7,229.69	116.56	116.36	-89.50	-587.47	-4,169.69	660.65	427.75	232.90	2.837		
11,100.00	7,235.12	11,112.32	7,229.30	119.31	119.11	-89.49	-588.25	-4,269.69	660.66	422.26	238.40	2.771		
11,200.00	7,234.81	11,212.32	7,228.91	122.07	121.86	-89.49	-589.03	-4,369.68	660.68	416.77	243.91	2.709		
11,300.00	7,234.50	11,312.32	7,228.51	124.83	124.62	-89.48	-589.82	-4,469.68	660.69	411.27	249.43	2.649		
11,400.00	7,234.19	11,412.32	7,228.12	127.59	127.39	-89.47	-590.60	-4,569.67	660.71	405.75	254.95	2.591		
11,500.00	7,233.88	11,512.32	7,227.73	130.36	130.15	-89.47	-591.38	-4,669.67	660.72	400.23	260.49	2.536		
11,600.00	7,233.56	11,612.32	7,227.33	133.13	132.93	-89.46	-592.16	-4,769.67	660.74	394.70	266.03	2.484		
11,700.00	7,233.25	11,712.32	7,226.94	135.91	135.70	-89.45	-592.95	-4,869.66	660.75	389.17	271.58	2.433		
11,800.00	7,232.94	11,812.32	7,226.55	138.68	138.48	-89.45	-593.73	-4,969.66	660.77	383.63	277.14	2.384		
11,900.00	7,232.63	11,912.32	7,226.15	141.47	141.26	-89.44	-594.51	-5,069.65	660.78	378.08	282.71	2.337		
12,000.00	7,232.32	12,012.32	7,225.76	144.25	144.05	-89.43	-595.29	-5,169.65	660.80	372.52	288.28	2.292		
12,100.00	7,232.00	12,112.32	7,225.37	147.04	146.84	-89.42	-596.07	-5,269.65	660.81	366.96	293.85	2.249		
12,200.00	7,231.69	12,212.32	7,224.97	149.83	149.63	-89.42	-596.86	-5,369.64	660.83	361.40	299.43	2.207		
12,300.00	7,231.38	12,312.32	7,224.58	152.62	152.42	-89.41	-597.64	-5,469.64	660.85	355.83	305.02	2.167		
12,400.00	7,231.07	12,412.32	7,224.19	155.42	155.22	-89.40	-598.42	-5,569.63	660.86	350.25	310.61	2.128		
12,500.00	7,230.76	12,512.32	7,223.79	158.22	158.01	-89.40	-599.20	-5,669.63	660.88	344.67	316.20	2.090		
12,600.00	7,230.44	12,612.32	7,223.40	161.01	160.81	-89.39	-599.99	-5,769.63	660.89	339.09	321.80	2.054		
12,700.00	7,230.13	12,712.32	7,223.01	163.82	163.61	-89.38	-600.77	-5,869.62	660.91	333.50	327.40	2.019		
12,800.00	7,229.82	12,812.32	7,222.61	166.62	166.42	-89.38	-601.55	-5,969.62	660.92	327.91	333.01	1.985		
12,900.00	7,229.51	12,912.32	7,222.22	169.43	169.22	-89.37	-602.33	-6,069.62	660.94	322.32	338.62	1.952		
13,000.00	7,229.20	13,012.32	7,221.83	172.23	172.03	-89.36	-603.11	-6,169.61	660.95	316.72	344.24	1.920		
13,100.00	7,228.88	13,112.32	7,221.43	175.04	174.84	-89.35	-603.90	-6,269.61	660.97	311.12	349.85	1.889		
13,200.00	7,228.57	13,212.32	7,221.04	177.85	177.65	-89.35	-604.68	-6,369.60	660.99	305.51	355.47	1.859		
13,300.00	7,228.26	13,312.32	7,220.65	180.66	180.46	-89.34	-605.46	-6,469.60	661.00	299.90	361.10	1.831		
13,400.00	7,227.95	13,412.32	7,220.25	183.48	183.28	-89.33	-606.24	-6,569.60	661.02	294.29	366.72	1.802		
13,500.00	7,227.64	13,512.32	7,219.86	186.29	186.09	-89.33	-607.03	-6,669.59	661.03	288.68	372.35	1.775		
13,600.00	7,227.33	13,612.32	7,219.47	189.11	188.91	-89.32	-607.81	-6,769.59	661.05	283.07	377.98	1.749		
13,700.00	7,227.01	13,712.32	7,219.07	191.92	191.73	-89.31	-608.59	-6,869.58	661.06	277.45	383.62	1.723		
13,800.00	7,226.70	13,812.32	7,218.68	194.74	194.54	-89.30	-609.37	-6,969.58	661.08	271.83	389.25	1.698		
13,900.00	7,226.39	13,912.32	7,218.29	197.56	197.36	-89.30	-610.15	-7,069.58	661.09	266.20	394.89	1.674		
14,000.00	7,226.08	14,012.32	7,217.89	200.38	200.18	-89.29	-610.94	-7,169.57	661.11	260.58	400.53	1.651		
14,100.00	7,225.77	14,112.32	7,217.50	203.21	203.01	-89.28	-611.72	-7,269.57	661.13	254.95	406.17	1.628		
14,200.00	7,225.45	14,212.32	7,217.11	206.03	205.83	-89.28	-612.50	-7,369.57	661.14	249.32	411.82	1.605		
14,300.00	7,225.14	14,312.32	7,216.71	208.85	208.65	-89.27	-613.28	-7,469.56	661.16	243.69	417.47	1.584		
14,400.00	7,224.83	14,412.32	7,216.32	211.68	211.48	-89.26	-614.07	-7,569.56	661.17	238.06	423.11	1.563		
14,500.00	7,224.52	14,512.32	7,215.93	214.50	214.30	-89.26	-614.85	-7,669.55	661.19	232.42	428.76	1.542		
14,600.00	7,224.21	14,612.32	7,215.53	217.33	217.13	-89.25	-615.63	-7,769.55	661.20	226.79	434.42	1.522		
14,700.00	7,223.89	14,712.32	7,215.14	220.16	219.96	-89.24	-616.41	-7,869.55	661.22	221.15	440.07	1.503		
14,800.00	7,223.58	14,812.32	7,214.75	222.98	222.79	-89.23	-617.19	-7,969.54	661.24	215.51	445.72	1.484 Level 3		
14,900.00	7,223.27	14,912.32	7,214.35	225.81	225.61	-89.23	-617.98	-8,069.54	661.25	209.87	451.38	1.465 Level 3		
14,987.41	7,223.00	14,999.73	7,214.01	228.28	228.09	-89.22	-618.66	-8,156.95	661.27	204.94	456.33	1.449 Level 3, SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1.00	0.00	3.28	3.28	-179.50	-159.92	-1.39	159.93					
100.00	100.00	101.00	100.00	3.28	3.28	-179.50	-159.92	-1.39	159.93	153.36	6.57	24.344		
200.00	200.00	201.00	200.00	3.34	3.34	-179.50	-159.92	-1.39	159.93	153.25	6.67	23.960		
300.00	300.00	299.00	300.00	3.44	3.44	-179.50	-159.92	-1.39	159.93	153.04	6.89	23.217 CC, ES		
400.00	400.00	393.80	394.78	3.60	3.59	-179.41	-161.43	-1.65	161.53	154.33	7.20	22.444		
500.00	500.00	488.34	489.20	3.81	3.76	-179.15	-166.02	-2.45	166.39	158.79	7.60	21.903		
600.00	600.00	582.47	583.01	4.05	3.98	-178.76	-173.63	-3.77	174.50	166.43	8.07	21.611		
700.00	699.98	675.90	675.82	4.32	4.22	-120.51	-184.19	-5.60	186.71	178.09	8.61	21.675		
800.00	799.94	772.71	771.68	4.61	4.50	-120.65	-197.52	-7.92	202.02	192.84	9.18	22.005		
900.00	899.89	871.50	869.48	4.92	4.82	-120.76	-211.29	-10.31	217.51	207.72	9.79	22.226		
1,000.00	999.85	970.29	967.28	5.25	5.16	-120.86	-225.06	-12.70	233.00	222.57	10.43	22.331		
1,100.00	1,099.80	1,069.08	1,065.07	5.60	5.53	-120.95	-238.83	-15.09	248.49	237.38	11.11	22.358		
1,200.00	1,199.76	1,167.88	1,162.87	5.96	5.90	-121.03	-252.60	-17.48	263.98	252.16	11.82	22.330		
1,300.00	1,299.72	1,266.67	1,260.67	6.33	6.29	-121.09	-266.37	-19.87	279.47	266.92	12.55	22.265		
1,400.00	1,399.67	1,365.46	1,358.47	6.71	6.69	-121.16	-280.15	-22.26	294.97	281.66	13.30	22.176		
1,500.00	1,499.63	1,464.25	1,456.27	7.10	7.10	-121.21	-293.92	-24.65	310.46	296.39	14.07	22.071		
1,600.00	1,599.58	1,563.04	1,554.07	7.49	7.51	-121.26	-307.69	-27.04	325.95	311.11	14.84	21.957		
1,700.00	1,699.54	1,661.84	1,651.86	7.88	7.93	-121.30	-321.46	-29.44	341.44	325.81	15.63	21.839		
1,800.00	1,799.50	1,760.63	1,749.66	8.28	8.36	-121.35	-335.23	-31.83	356.94	340.50	16.43	21.719		
1,900.00	1,899.45	1,859.42	1,847.46	8.69	8.79	-121.38	-349.00	-34.22	372.43	355.19	17.24	21.599		
2,000.00	1,999.41	1,958.21	1,945.26	9.10	9.23	-121.42	-362.77	-36.61	387.92	369.86	18.06	21.482		
2,100.00	2,099.36	2,057.01	2,043.06	9.51	9.66	-121.45	-376.55	-39.00	403.42	384.54	18.88	21.367		
2,200.00	2,199.32	2,155.80	2,140.86	9.92	10.10	-121.48	-390.32	-41.39	418.91	399.20	19.71	21.256		
2,300.00	2,299.28	2,254.59	2,238.66	10.34	10.55	-121.51	-404.09	-43.78	434.40	413.86	20.54	21.149		
2,400.00	2,399.23	2,353.38	2,336.45	10.75	10.99	-121.53	-417.86	-46.17	449.90	428.52	21.38	21.046		
2,500.00	2,499.19	2,452.18	2,434.25	11.17	11.44	-121.56	-431.63	-48.56	465.39	443.17	22.22	20.947		
2,600.00	2,599.14	2,550.97	2,532.05	11.60	11.89	-121.58	-445.40	-50.95	480.89	457.82	23.06	20.853		
2,700.00	2,699.10	2,649.76	2,629.85	12.02	12.34	-121.60	-459.17	-53.34	496.38	472.47	23.91	20.762		
2,800.00	2,799.06	2,748.55	2,727.65	12.44	12.79	-121.62	-472.94	-55.73	511.87	487.12	24.76	20.676		
2,900.00	2,899.01	2,847.34	2,825.45	12.87	13.24	-121.64	-486.72	-58.13	527.37	501.76	25.61	20.593		
3,000.00	2,998.97	2,946.14	2,923.24	13.29	13.70	-121.66	-500.49	-60.52	542.86	516.40	26.46	20.513		
3,100.00	3,098.92	3,044.93	3,021.04	13.72	14.15	-121.67	-514.26	-62.91	558.36	531.04	27.32	20.437		
3,200.00	3,198.88	3,143.72	3,118.84	14.14	14.61	-121.69	-528.03	-65.30	573.85	545.67	28.18	20.365		
3,300.00	3,298.84	3,242.51	3,216.64	14.57	15.06	-121.70	-541.80	-67.69	589.34	560.31	29.04	20.295		
3,400.00	3,398.79	3,341.31	3,314.44	15.00	15.52	-121.72	-555.57	-70.08	604.84	574.94	29.90	20.229		
3,500.00	3,498.75	3,440.10	3,412.24	15.43	15.98	-121.73	-569.34	-72.47	620.33	589.57	30.76	20.165		
3,600.00	3,598.70	3,538.89	3,510.04	15.86	16.44	-121.74	-583.11	-74.86	635.83	604.20	31.63	20.104		
3,700.00	3,698.66	3,637.68	3,607.83	16.29	16.90	-121.76	-596.89	-77.25	651.32	618.83	32.49	20.046		
3,800.00	3,798.62	3,736.47	3,705.63	16.72	17.36	-121.77	-610.66	-79.64	666.82	633.46	33.36	19.990		
3,900.00	3,898.57	3,835.27	3,803.43	17.15	17.82	-121.78	-624.43	-82.03	682.31	648.09	34.23	19.936		
4,000.00	3,998.53	3,934.06	3,901.23	17.59	18.28	-121.79	-638.20	-84.43	697.81	662.71	35.09	19.884		
4,100.00	4,098.48	4,032.85	3,999.03	18.02	18.74	-121.80	-651.97	-86.82	713.30	677.34	35.96	19.834		
4,200.00	4,198.44	4,131.64	4,096.83	18.45	19.20	-121.81	-665.74	-89.21	728.79	691.96	36.83	19.787		
4,300.00	4,298.40	4,230.44	4,194.62	18.88	19.66	-121.82	-679.51	-91.60	744.29	706.59	37.70	19.741		
4,400.00	4,398.35	4,329.23	4,292.42	19.32	20.12	-121.83	-693.29	-93.99	759.78	721.21	38.57	19.696		
4,500.00	4,498.31	4,428.02	4,390.22	19.75	20.59	-121.84	-707.06	-96.38	775.28	735.83	39.45	19.654		
4,600.00	4,598.26	4,526.81	4,488.02	20.19	21.05	-121.84	-720.83	-98.77	790.77	750.45	40.32	19.613		
4,700.00	4,698.22	4,625.60	4,585.82	20.62	21.51	-121.85	-734.60	-101.16	806.27	765.07	41.19	19.573		
4,800.00	4,798.18	4,724.40	4,683.62	21.05	21.98	-121.86	-748.37	-103.55	821.76	779.70	42.07	19.535		
4,900.00	4,898.13	4,823.19	4,781.42	21.49	22.44	-121.87	-762.14	-105.94	837.26	794.32	42.94	19.498		
5,000.00	4,998.09	4,921.98	4,879.21	21.92	22.90	-121.87	-775.91	-108.33	852.75	808.94	43.82	19.462		
5,100.00	5,098.04	5,020.77	4,977.01	22.36	23.37	-121.88	-789.68	-110.72	868.25	823.56	44.69	19.428		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,119.57	5,074.81	22.79	23.83	-121.89	-803.46	-113.12	883.74	838.17	45.57	19.394		
5,300.00	5,297.96	5,218.36	5,172.61	23.23	24.30	-121.89	-817.23	-115.51	899.24	852.79	46.44	19.362		
5,400.00	5,397.91	5,317.15	5,270.41	23.67	24.76	-121.90	-831.00	-117.90	914.73	867.41	47.32	19.331		
5,500.00	5,497.87	5,415.94	5,368.21	24.10	25.23	-121.91	-844.77	-120.29	930.23	882.03	48.20	19.301		
5,600.00	5,597.82	5,514.73	5,466.00	24.54	25.69	-121.91	-858.54	-122.68	945.72	896.65	49.07	19.272		
5,700.00	5,697.78	5,613.53	5,563.80	24.97	26.16	-121.92	-872.31	-125.07	961.21	911.26	49.95	19.243		
5,800.00	5,797.74	5,712.32	5,661.60	25.41	26.62	-121.92	-886.08	-127.46	976.71	925.88	50.83	19.216		
5,900.00	5,897.69	5,811.11	5,759.40	25.85	27.09	-121.93	-899.85	-129.85	992.20	940.50	51.71	19.189		
6,000.00	5,997.65	5,909.90	5,857.20	26.28	27.55	-121.93	-913.63	-132.24	1,007.70	955.11	52.59	19.163		
6,100.00	6,097.60	6,008.70	5,955.00	26.72	28.02	-121.94	-927.40	-134.63	1,023.19	969.73	53.46	19.138		
6,200.00	6,197.56	6,107.49	6,052.80	27.16	28.48	-121.94	-941.17	-137.02	1,038.69	984.35	54.34	19.114		
6,300.00	6,297.52	6,206.28	6,150.59	27.59	28.95	-121.95	-954.94	-139.41	1,054.18	998.96	55.22	19.090		
6,400.00	6,397.47	6,305.07	6,248.39	28.03	29.42	-121.95	-968.71	-141.81	1,069.68	1,013.58	56.10	19.067		
6,500.00	6,497.43	6,403.86	6,346.19	28.47	29.88	-121.96	-982.48	-144.20	1,085.17	1,028.19	56.98	19.044		
6,600.00	6,597.38	6,502.66	6,443.99	28.90	30.35	-121.96	-996.25	-146.59	1,100.67	1,042.81	57.86	19.023		
6,700.00	6,697.08	6,600.40	6,540.29	29.34	30.81	-94.98	-1,009.87	-155.30	1,116.14	1,057.41	58.73	19.004		
6,800.00	6,794.63	6,697.72	6,633.74	29.79	31.24	-90.02	-1,023.21	-178.61	1,131.30	1,071.71	59.59	18.984		
6,900.00	6,887.62	6,794.85	6,722.38	30.24	31.66	-87.58	-1,036.00	-215.93	1,145.77	1,085.33	60.44	18.956		
7,000.00	6,973.77	6,881.90	6,804.31	30.70	32.03	-85.82	-1,047.95	-266.38	1,159.19	1,097.88	61.31	18.908		
7,100.00	7,050.94	6,988.98	6,877.71	31.20	32.39	-84.43	-1,058.82	-328.85	1,171.22	1,108.99	62.23	18.819		
7,200.00	7,117.24	7,086.18	6,940.91	31.77	32.72	-83.32	-1,068.34	-401.95	1,181.58	1,118.28	63.30	18.666		
7,300.00	7,171.03	7,183.55	6,992.44	32.46	33.10	-82.47	-1,076.29	-484.07	1,190.00	1,125.41	64.59	18.424		
7,400.00	7,211.00	7,281.11	7,031.03	33.29	33.64	-81.86	-1,082.49	-573.36	1,196.29	1,130.11	66.18	18.077		
7,500.00	7,236.16	7,378.87	7,055.69	34.29	34.41	-81.50	-1,086.78	-667.76	1,200.28	1,132.18	68.10	17.626		
7,600.00	7,245.89	7,476.80	7,065.77	35.43	35.42	-81.38	-1,089.04	-765.05	1,201.88	1,131.56	70.32	17.091		
7,700.00	7,245.73	7,576.39	7,065.68	36.72	36.64	-81.38	-1,089.89	-864.64	1,201.96	1,129.08	72.87	16.494		
7,800.00	7,245.42	7,676.39	7,065.29	38.18	38.05	-81.38	-1,090.70	-964.63	1,202.01	1,126.26	75.75	15.867		
7,900.00	7,245.10	7,776.39	7,064.90	39.80	39.62	-81.38	-1,091.51	-1,064.63	1,202.07	1,123.13	78.94	15.229		
8,000.00	7,244.79	7,876.39	7,064.50	41.54	41.34	-81.37	-1,092.33	-1,164.63	1,202.12	1,119.74	82.38	14.592		
8,100.00	7,244.48	7,976.39	7,064.11	43.41	43.18	-81.37	-1,093.14	-1,264.62	1,202.18	1,116.12	86.06	13.968		
8,200.00	7,244.17	8,076.39	7,063.72	45.38	45.12	-81.37	-1,093.95	-1,364.62	1,202.24	1,112.29	89.95	13.366		
8,300.00	7,243.86	8,176.39	7,063.32	47.44	47.16	-81.36	-1,094.76	-1,464.61	1,202.29	1,108.28	94.02	12.788		
8,400.00	7,243.55	8,276.39	7,062.93	49.58	49.28	-81.36	-1,095.57	-1,564.61	1,202.35	1,104.11	98.24	12.239		
8,500.00	7,243.23	8,376.39	7,062.54	51.78	51.48	-81.36	-1,096.38	-1,664.60	1,202.40	1,099.80	102.60	11.719		
8,600.00	7,242.92	8,476.39	7,062.14	54.05	53.73	-81.35	-1,097.20	-1,764.60	1,202.46	1,095.37	107.09	11.229		
8,700.00	7,242.61	8,576.39	7,061.75	56.37	56.05	-81.35	-1,098.01	-1,864.60	1,202.52	1,090.84	111.67	10.768		
8,800.00	7,242.30	8,676.39	7,061.36	58.74	58.41	-81.35	-1,098.82	-1,964.59	1,202.57	1,086.21	116.36	10.335		
8,900.00	7,241.99	8,776.39	7,060.97	61.16	60.81	-81.34	-1,099.63	-2,064.59	1,202.63	1,081.50	121.12	9.929		
9,000.00	7,241.67	8,876.39	7,060.57	63.61	63.25	-81.34	-1,100.44	-2,164.58	1,202.68	1,076.72	125.96	9.548		
9,100.00	7,241.36	8,976.39	7,060.18	66.09	65.73	-81.34	-1,101.25	-2,264.58	1,202.74	1,071.87	130.87	9.190		
9,200.00	7,241.05	9,076.39	7,059.79	68.60	68.23	-81.33	-1,102.07	-2,364.58	1,202.79	1,066.96	135.83	8.855		
9,300.00	7,240.74	9,176.39	7,059.39	71.13	70.77	-81.33	-1,102.88	-2,464.57	1,202.85	1,062.00	140.85	8.540		
9,400.00	7,240.43	9,276.39	7,059.00	73.70	73.32	-81.33	-1,103.69	-2,564.57	1,202.91	1,057.00	145.91	8.244		
9,500.00	7,240.11	9,376.39	7,058.61	76.28	75.90	-81.32	-1,104.50	-2,664.56	1,202.96	1,051.95	151.01	7.966		
9,600.00	7,239.80	9,476.39	7,058.21	78.88	78.50	-81.32	-1,105.31	-2,764.56	1,203.02	1,046.86	156.16	7.704		
9,700.00	7,239.49	9,576.39	7,057.82	81.50	81.11	-81.31	-1,106.13	-2,864.56	1,203.07	1,041.74	161.33	7.457		
9,800.00	7,239.18	9,676.39	7,057.43	84.13	83.74	-81.31	-1,106.94	-2,964.55	1,203.13	1,036.59	166.54	7.224		
9,900.00	7,238.87	9,776.39	7,057.03	86.78	86.39	-81.31	-1,107.75	-3,064.55	1,203.19	1,031.41	171.78	7.004		
10,000.00	7,238.55	9,876.39	7,056.64	89.44	89.05	-81.30	-1,108.56	-3,164.54	1,203.24	1,026.20	177.04	6.797		
10,100.00	7,238.24	9,976.39	7,056.25	92.11	91.72	-81.30	-1,109.37	-3,264.54	1,203.30	1,020.98	182.32	6.600		
10,200.00	7,237.93	10,076.39	7,055.85	94.80	94.40	-81.30	-1,110.18	-3,364.54	1,203.35	1,015.73	187.63	6.413		
10,300.00	7,237.62	10,176.39	7,055.46	97.49	97.09	-81.29	-1,111.00	-3,464.53	1,203.41	1,010.46	192.95	6.237		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	10,276.39	7,055.07	100.19	99.79	-81.29	-1,111.81	-3,564.53	1,203.47	1,005.17	198.30	6.069		
10,500.00	7,236.99	10,376.39	7,054.67	102.90	102.50	-81.29	-1,112.62	-3,664.52	1,203.52	999.86	203.66	5.909		
10,600.00	7,236.68	10,476.39	7,054.28	105.62	105.22	-81.28	-1,113.43	-3,764.52	1,203.58	994.54	209.03	5.758		
10,700.00	7,236.37	10,576.39	7,053.89	108.35	107.94	-81.28	-1,114.24	-3,864.51	1,203.63	989.21	214.43	5.613		
10,800.00	7,236.06	10,676.39	7,053.50	111.08	110.68	-81.28	-1,115.05	-3,964.51	1,203.69	983.86	219.83	5.476		
10,900.00	7,235.75	10,776.39	7,053.10	113.82	113.41	-81.27	-1,115.87	-4,064.51	1,203.75	978.50	225.24	5.344		
11,000.00	7,235.44	10,876.39	7,052.71	116.56	116.16	-81.27	-1,116.68	-4,164.50	1,203.80	973.13	230.67	5.219		
11,100.00	7,235.12	10,976.39	7,052.32	119.31	118.91	-81.27	-1,117.49	-4,264.50	1,203.86	967.75	236.11	5.099		
11,200.00	7,234.81	11,076.39	7,051.92	122.07	121.66	-81.26	-1,118.30	-4,364.49	1,203.91	962.36	241.56	4.984		
11,300.00	7,234.50	11,176.39	7,051.53	124.83	124.42	-81.26	-1,119.11	-4,464.49	1,203.97	956.96	247.01	4.874		
11,400.00	7,234.19	11,276.39	7,051.14	127.59	127.18	-81.26	-1,119.92	-4,564.49	1,204.03	951.55	252.48	4.769		
11,500.00	7,233.88	11,376.39	7,050.74	130.36	129.95	-81.25	-1,120.74	-4,664.48	1,204.08	946.13	257.95	4.668		
11,600.00	7,233.56	11,476.39	7,050.35	133.13	132.72	-81.25	-1,121.55	-4,764.48	1,204.14	940.71	263.43	4.571		
11,700.00	7,233.25	11,576.39	7,049.96	135.91	135.49	-81.24	-1,122.36	-4,864.47	1,204.19	935.27	268.92	4.478		
11,800.00	7,232.94	11,676.39	7,049.56	138.68	138.27	-81.24	-1,123.17	-4,964.47	1,204.25	929.84	274.41	4.388		
11,900.00	7,232.63	11,776.39	7,049.17	141.47	141.05	-81.24	-1,123.98	-5,064.47	1,204.31	924.39	279.91	4.302		
12,000.00	7,232.32	11,876.39	7,048.78	144.25	143.84	-81.23	-1,124.79	-5,164.46	1,204.36	918.94	285.42	4.220		
12,100.00	7,232.00	11,976.39	7,048.38	147.04	146.62	-81.23	-1,125.61	-5,264.46	1,204.42	913.49	290.93	4.140		
12,200.00	7,231.69	12,076.39	7,047.99	149.83	149.41	-81.23	-1,126.42	-5,364.45	1,204.47	908.03	296.45	4.063		
12,300.00	7,231.38	12,176.39	7,047.60	152.62	152.21	-81.22	-1,127.23	-5,464.45	1,204.53	902.56	301.97	3.989		
12,400.00	7,231.07	12,276.39	7,047.20	155.42	155.00	-81.22	-1,128.04	-5,564.44	1,204.59	897.09	307.50	3.917		
12,500.00	7,230.76	12,376.39	7,046.81	158.22	157.80	-81.22	-1,128.85	-5,664.44	1,204.64	891.61	313.03	3.848		
12,600.00	7,230.44	12,476.39	7,046.42	161.01	160.60	-81.21	-1,129.67	-5,764.44	1,204.70	886.13	318.56	3.782		
12,700.00	7,230.13	12,576.39	7,046.03	163.82	163.40	-81.21	-1,130.48	-5,864.43	1,204.75	880.65	324.10	3.717		
12,800.00	7,229.82	12,676.39	7,045.63	166.62	166.20	-81.21	-1,131.29	-5,964.43	1,204.81	875.17	329.64	3.655		
12,900.00	7,229.51	12,776.39	7,045.24	169.43	169.01	-81.20	-1,132.10	-6,064.42	1,204.87	869.67	335.19	3.595		
13,000.00	7,229.20	12,876.39	7,044.85	172.23	171.81	-81.20	-1,132.91	-6,164.42	1,204.92	864.18	340.74	3.536		
13,100.00	7,228.88	12,976.39	7,044.45	175.04	174.62	-81.20	-1,133.72	-6,264.42	1,204.98	858.68	346.29	3.480		
13,200.00	7,228.57	13,076.39	7,044.06	177.85	177.43	-81.19	-1,134.54	-6,364.41	1,205.03	853.18	351.85	3.425		
13,300.00	7,228.26	13,176.39	7,043.67	180.66	180.24	-81.19	-1,135.35	-6,464.41	1,205.09	847.68	357.41	3.372		
13,400.00	7,227.95	13,276.39	7,043.27	183.48	183.06	-81.19	-1,136.16	-6,564.40	1,205.15	842.18	362.97	3.320		
13,500.00	7,227.64	13,376.39	7,042.88	186.29	185.87	-81.18	-1,136.97	-6,664.40	1,205.20	836.67	368.53	3.270		
13,600.00	7,227.33	13,476.39	7,042.49	189.11	188.69	-81.18	-1,137.78	-6,764.40	1,205.26	831.16	374.10	3.222		
13,700.00	7,227.01	13,576.39	7,042.09	191.92	191.50	-81.17	-1,138.59	-6,864.39	1,205.31	825.64	379.67	3.175		
13,800.00	7,226.70	13,676.39	7,041.70	194.74	194.32	-81.17	-1,139.41	-6,964.39	1,205.37	820.13	385.24	3.129		
13,900.00	7,226.39	13,776.39	7,041.31	197.56	197.14	-81.17	-1,140.22	-7,064.38	1,205.43	814.61	390.81	3.084		
14,000.00	7,226.08	13,876.39	7,040.91	200.38	199.96	-81.16	-1,141.03	-7,164.38	1,205.48	809.09	396.39	3.041		
14,100.00	7,225.77	13,976.39	7,040.52	203.21	202.78	-81.16	-1,141.84	-7,264.37	1,205.54	803.57	401.97	2.999		
14,200.00	7,225.45	14,076.39	7,040.13	206.03	205.60	-81.16	-1,142.65	-7,364.37	1,205.59	798.05	407.55	2.958		
14,300.00	7,225.14	14,176.39	7,039.73	208.85	208.43	-81.15	-1,143.46	-7,464.37	1,205.65	792.52	413.13	2.918		
14,400.00	7,224.83	14,276.39	7,039.34	211.68	211.25	-81.15	-1,144.28	-7,564.36	1,205.71	786.99	418.71	2.880		
14,500.00	7,224.52	14,376.39	7,038.95	214.50	214.08	-81.15	-1,145.09	-7,664.36	1,205.76	781.47	424.30	2.842		
14,600.00	7,224.21	14,476.39	7,038.56	217.33	216.90	-81.14	-1,145.90	-7,764.35	1,205.82	775.94	429.88	2.805		
14,700.00	7,223.89	14,576.39	7,038.16	220.16	219.73	-81.14	-1,146.71	-7,864.35	1,205.88	770.40	435.47	2.769		
14,800.00	7,223.58	14,676.39	7,037.77	222.98	222.56	-81.14	-1,147.52	-7,964.35	1,205.93	764.87	441.06	2.734		
14,900.00	7,223.27	14,776.39	7,037.38	225.81	225.39	-81.13	-1,148.33	-8,064.34	1,205.99	759.34	446.65	2.700		
14,987.41	7,223.00	14,863.80	7,037.03	228.28	227.86	-81.13	-1,149.04	-8,151.75	1,206.04	754.50	451.54	2.671 SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	0.00	0.00	3.28	3.28	-179.60	-79.77	-0.56	79.77					
100.00	100.00	100.00	100.00	3.28	3.28	-179.60	-79.77	-0.56	79.77	73.20	6.57	12.143		
200.00	200.00	200.00	200.00	3.34	3.34	-179.60	-79.77	-0.56	79.77	73.10	6.67	11.953		
300.00	300.00	300.00	300.00	3.44	3.44	-179.60	-79.77	-0.56	79.77	72.88	6.89	11.578		
400.00	400.00	400.00	400.00	3.60	3.60	-179.60	-79.77	-0.56	79.77	72.57	7.21	11.069		
500.00	500.00	500.00	500.00	3.81	3.81	-179.60	-79.77	-0.56	79.77	72.16	7.61	10.480		
508.33	508.33	508.33	508.33	3.82	3.82	-179.60	-79.77	-0.56	79.77	72.12	7.65	10.429 CC		
600.00	600.00	599.47	599.47	4.05	4.04	-179.59	-79.84	-0.57	79.84	71.75	8.09	9.870 ES		
700.00	699.98	696.72	696.69	4.32	4.28	-122.17	-82.09	-1.10	83.06	74.45	8.61	9.651		
800.00	799.94	793.62	793.42	4.61	4.55	-122.90	-87.52	-2.37	90.25	81.07	9.18	9.834		
900.00	899.89	889.96	889.35	4.92	4.84	-123.05	-96.08	-4.37	100.71	90.92	9.79	10.286		
1,000.00	999.85	988.91	987.70	5.25	5.16	-122.92	-106.75	-6.86	113.05	102.62	10.43	10.837		
1,100.00	1,099.80	1,088.14	1,086.32	5.60	5.50	-122.82	-117.47	-9.36	125.41	114.30	11.11	11.291		
1,200.00	1,199.76	1,187.38	1,184.94	5.96	5.86	-122.74	-128.18	-11.87	137.76	125.95	11.81	11.666		
1,300.00	1,299.72	1,286.61	1,283.56	6.33	6.23	-122.67	-138.89	-14.37	150.12	137.58	12.53	11.977		
1,400.00	1,399.67	1,385.84	1,382.18	6.71	6.61	-122.61	-149.61	-16.87	162.47	149.20	13.28	12.236		
1,500.00	1,499.63	1,485.08	1,480.81	7.10	7.00	-122.56	-160.32	-19.38	174.83	160.79	14.04	12.453		
1,600.00	1,599.58	1,584.31	1,579.43	7.49	7.40	-122.51	-171.03	-21.88	187.19	172.37	14.81	12.636		
1,700.00	1,699.54	1,683.54	1,678.05	7.88	7.80	-122.48	-181.74	-24.39	199.54	183.94	15.60	12.792		
1,800.00	1,799.50	1,782.78	1,776.67	8.28	8.21	-122.44	-192.46	-26.89	211.90	195.51	16.40	12.925		
1,900.00	1,899.45	1,882.01	1,875.29	8.69	8.63	-122.41	-203.17	-29.39	224.26	207.06	17.20	13.039		
2,000.00	1,999.41	1,981.24	1,973.91	9.10	9.05	-122.38	-213.88	-31.90	236.62	218.60	18.01	13.137		
2,100.00	2,099.36	2,080.48	2,072.54	9.51	9.47	-122.36	-224.60	-34.40	248.97	230.14	18.83	13.222		
2,200.00	2,199.32	2,179.71	2,171.16	9.92	9.90	-122.34	-235.31	-36.90	261.33	241.68	19.65	13.297		
2,300.00	2,299.28	2,278.95	2,269.78	10.34	10.33	-122.32	-246.02	-39.41	273.69	253.20	20.48	13.362		
2,400.00	2,399.23	2,378.18	2,368.40	10.75	10.76	-122.30	-256.74	-41.91	286.04	264.73	21.32	13.420		
2,500.00	2,499.19	2,477.41	2,467.02	11.17	11.20	-122.28	-267.45	-44.41	298.40	276.25	22.15	13.470		
2,600.00	2,599.14	2,576.65	2,566.64	11.60	11.63	-122.27	-278.16	-46.92	310.76	287.76	22.99	13.515		
2,700.00	2,699.10	2,675.88	2,664.27	12.02	12.07	-122.25	-288.87	-49.42	323.11	299.28	23.84	13.555		
2,800.00	2,799.06	2,775.11	2,762.89	12.44	12.51	-122.24	-299.59	-51.92	335.47	310.79	24.68	13.591		
2,900.00	2,899.01	2,874.35	2,861.51	12.87	12.95	-122.23	-310.30	-54.43	347.83	322.30	25.53	13.623		
3,000.00	2,998.97	2,973.58	2,960.13	13.29	13.39	-122.21	-321.01	-56.93	360.19	333.80	26.38	13.652		
3,100.00	3,098.92	3,072.81	3,058.75	13.72	13.83	-122.20	-331.73	-59.43	372.54	345.31	27.24	13.678		
3,200.00	3,198.88	3,172.05	3,157.38	14.14	14.28	-122.19	-342.44	-61.94	384.90	356.81	28.09	13.702		
3,300.00	3,298.84	3,271.28	3,256.00	14.57	14.72	-122.18	-353.15	-64.44	397.26	368.31	28.95	13.723		
3,400.00	3,398.79	3,370.51	3,354.62	15.00	15.17	-122.18	-363.86	-66.94	409.62	379.81	29.81	13.742		
3,500.00	3,498.75	3,469.75	3,453.24	15.43	15.61	-122.17	-374.58	-69.45	421.97	391.31	30.67	13.760		
3,600.00	3,598.70	3,568.98	3,551.86	15.86	16.06	-122.16	-385.29	-71.95	434.33	402.80	31.53	13.776		
3,700.00	3,698.66	3,668.21	3,650.48	16.29	16.51	-122.15	-396.00	-74.45	446.69	414.30	32.39	13.791		
3,800.00	3,798.62	3,767.45	3,749.11	16.72	16.96	-122.15	-406.72	-76.96	459.05	425.79	33.25	13.804		
3,900.00	3,898.57	3,866.68	3,847.73	17.15	17.41	-122.14	-417.43	-79.46	471.40	437.28	34.12	13.817		
4,000.00	3,998.53	3,965.92	3,946.35	17.59	17.86	-122.13	-428.14	-81.96	483.76	448.78	34.98	13.828		
4,100.00	4,098.48	4,065.15	4,044.97	18.02	18.30	-122.13	-438.86	-84.47	496.12	460.27	35.85	13.839		
4,200.00	4,198.44	4,164.38	4,143.59	18.45	18.76	-122.12	-449.57	-86.97	508.47	471.76	36.72	13.849		
4,300.00	4,298.40	4,263.62	4,242.22	18.88	19.21	-122.12	-460.28	-89.47	520.83	483.25	37.58	13.858		
4,400.00	4,398.35	4,362.85	4,340.84	19.32	19.66	-122.11	-470.99	-91.98	533.19	494.74	38.45	13.866		
4,500.00	4,498.31	4,462.08	4,439.46	19.75	20.11	-122.11	-481.71	-94.48	545.55	506.22	39.32	13.874		
4,600.00	4,598.26	4,561.32	4,538.08	20.19	20.56	-122.10	-492.42	-96.98	557.90	517.71	40.19	13.881		
4,700.00	4,698.22	4,660.55	4,636.70	20.62	21.01	-122.10	-503.13	-99.49	570.26	529.20	41.06	13.888		
4,800.00	4,798.18	4,759.78	4,735.32	21.05	21.46	-122.09	-513.85	-101.99	582.62	540.69	41.93	13.894		
4,900.00	4,898.13	4,859.02	4,833.95	21.49	21.92	-122.09	-524.56	-104.49	594.98	552.17	42.80	13.900		
5,000.00	4,998.09	4,958.25	4,932.57	21.92	22.37	-122.08	-535.27	-107.00	607.33	563.66	43.68	13.905		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,100.00	5,098.04	5,057.48	5,031.19	22.36	22.82	-122.08	-545.99	-109.50	619.69	575.14	44.55	13.910		
5,200.00	5,198.00	5,156.72	5,129.81	22.79	23.28	-122.08	-556.70	-112.00	632.05	586.63	45.42	13.915		
5,300.00	5,297.96	5,255.95	5,228.43	23.23	23.73	-122.07	-567.41	-114.51	644.41	598.11	46.30	13.919		
5,400.00	5,397.91	5,355.18	5,327.06	23.67	24.18	-122.07	-578.12	-117.01	656.76	609.59	47.17	13.924		
5,500.00	5,497.87	5,454.42	5,425.68	24.10	24.64	-122.07	-588.84	-119.51	669.12	621.08	48.04	13.927		
5,600.00	5,597.82	5,553.65	5,524.30	24.54	25.09	-122.06	-599.55	-122.02	681.48	632.56	48.92	13.931		
5,700.00	5,697.78	5,652.89	5,622.92	24.97	25.55	-122.06	-610.26	-124.52	693.84	644.04	49.79	13.935		
5,800.00	5,797.74	5,752.12	5,721.54	25.41	26.00	-122.06	-620.98	-127.02	706.19	655.53	50.67	13.938		
5,900.00	5,897.69	5,851.35	5,820.16	25.85	26.46	-122.05	-631.69	-129.53	718.55	667.01	51.54	13.941		
6,000.00	5,997.65	5,950.59	5,918.79	26.28	26.91	-122.05	-642.40	-132.03	730.91	678.49	52.42	13.944		
6,100.00	6,097.60	6,049.82	6,017.41	26.72	27.37	-122.05	-653.11	-134.53	743.26	689.97	53.29	13.946		
6,200.00	6,197.56	6,149.05	6,116.03	27.16	27.82	-122.05	-663.83	-137.04	755.62	701.45	54.17	13.949		
6,300.00	6,297.52	6,248.29	6,214.65	27.59	28.28	-122.04	-674.54	-139.54	767.98	712.93	55.05	13.951		
6,400.00	6,397.47	6,347.52	6,313.27	28.03	28.73	-122.04	-685.25	-142.04	780.34	724.41	55.92	13.954		
6,500.00	6,497.43	6,446.75	6,411.90	28.47	29.19	-122.04	-695.97	-144.55	792.69	735.89	56.80	13.956		
6,600.00	6,597.38	6,545.99	6,510.52	28.90	29.64	-122.04	-706.68	-147.05	805.05	747.37	57.68	13.958		
6,700.00	6,697.08	6,644.41	6,607.81	29.34	30.09	-95.17	-717.31	-156.49	817.40	758.85	58.54	13.962		
6,800.00	6,794.63	6,742.32	6,702.00	29.79	30.52	-90.39	-727.72	-180.71	829.50	770.10	59.40	13.964		
6,900.00	6,887.62	6,839.85	6,791.05	30.24	30.93	-88.12	-737.69	-218.99	841.06	780.81	60.25	13.960		
7,000.00	6,973.77	6,937.09	6,873.00	30.70	31.31	-86.51	-747.00	-270.32	851.78	790.67	61.11	13.939		
7,100.00	7,050.94	7,034.14	6,946.09	31.20	31.67	-85.26	-755.44	-333.47	861.39	799.35	62.03	13.886		
7,200.00	7,117.24	7,131.08	7,008.72	31.77	32.04	-84.27	-762.84	-406.97	869.65	806.55	63.10	13.782		
7,300.00	7,171.03	7,227.97	7,059.51	32.46	32.51	-83.51	-769.02	-489.13	876.37	811.98	64.40	13.609		
7,400.00	7,211.00	7,324.85	7,097.31	33.29	33.18	-82.97	-773.85	-578.09	881.38	815.39	65.99	13.356		
7,500.00	7,236.16	7,421.75	7,121.28	34.29	34.06	-82.65	-777.22	-671.83	884.55	816.64	67.92	13.024		
7,600.00	7,245.89	7,518.72	7,130.83	35.43	35.12	-82.54	-779.05	-768.21	885.81	815.66	70.14	12.628		
7,700.00	7,245.73	7,618.17	7,130.64	36.72	36.39	-82.54	-779.85	-867.66	885.85	813.14	72.71	12.184		
7,800.00	7,245.42	7,718.17	7,130.21	38.18	37.83	-82.53	-780.63	-967.66	885.88	810.27	75.61	11.716		
7,900.00	7,245.10	7,818.17	7,129.77	39.80	39.43	-82.52	-781.41	-1,067.66	885.90	807.09	78.81	11.241		
8,000.00	7,244.79	7,918.17	7,129.34	41.54	41.17	-82.51	-782.18	-1,167.65	885.93	803.65	82.28	10.767		
8,100.00	7,244.48	8,018.17	7,128.91	43.41	43.03	-82.50	-782.96	-1,267.65	885.95	799.97	85.98	10.304		
8,200.00	7,244.17	8,118.17	7,128.47	45.38	44.99	-82.50	-783.74	-1,367.64	885.98	796.09	89.89	9.856		
8,300.00	7,243.86	8,218.17	7,128.04	47.44	47.05	-82.49	-784.52	-1,467.64	886.00	792.02	93.98	9.427		
8,400.00	7,243.55	8,318.17	7,127.60	49.58	49.19	-82.48	-785.29	-1,567.64	886.03	787.80	98.23	9.020		
8,500.00	7,243.23	8,418.17	7,127.17	51.78	51.39	-82.47	-786.07	-1,667.63	886.06	783.45	102.61	8.635		
8,600.00	7,242.92	8,518.17	7,126.74	54.05	53.66	-82.47	-786.85	-1,767.63	886.08	778.97	107.11	8.272		
8,700.00	7,242.61	8,618.17	7,126.30	56.37	55.99	-82.46	-787.63	-1,867.62	886.11	774.38	111.72	7.931		
8,800.00	7,242.30	8,718.17	7,125.87	58.74	58.36	-82.45	-788.40	-1,967.62	886.13	769.71	116.43	7.611		
8,900.00	7,241.99	8,818.17	7,125.43	61.16	60.77	-82.44	-789.18	-2,067.62	886.16	764.95	121.21	7.311		
9,000.00	7,241.67	8,918.17	7,125.00	63.61	63.22	-82.43	-789.96	-2,167.61	886.18	760.11	126.07	7.029		
9,100.00	7,241.36	9,018.17	7,124.57	66.09	65.70	-82.43	-790.74	-2,267.61	886.21	755.21	131.00	6.765		
9,200.00	7,241.05	9,118.17	7,124.13	68.60	68.22	-82.42	-791.51	-2,367.60	886.24	750.26	135.98	6.517		
9,300.00	7,240.74	9,218.17	7,123.70	71.13	70.76	-82.41	-792.29	-2,467.60	886.26	745.25	141.01	6.285		
9,400.00	7,240.43	9,318.17	7,123.26	73.70	73.32	-82.40	-793.07	-2,567.60	886.29	740.20	146.09	6.067		
9,500.00	7,240.11	9,418.17	7,122.83	76.28	75.90	-82.40	-793.85	-2,667.59	886.31	735.10	151.21	5.861		
9,600.00	7,239.80	9,518.17	7,122.40	78.88	78.51	-82.39	-794.62	-2,767.59	886.34	729.97	156.37	5.668		
9,700.00	7,239.49	9,618.17	7,121.96	81.50	81.13	-82.38	-795.40	-2,867.58	886.37	724.80	161.57	5.486		
9,800.00	7,239.18	9,718.17	7,121.53	84.13	83.76	-82.37	-796.18	-2,967.58	886.39	719.60	166.79	5.314		
9,900.00	7,238.87	9,818.17	7,121.09	86.78	86.41	-82.36	-796.95	-3,067.58	886.42	714.38	172.04	5.152		
10,000.00	7,238.55	9,918.17	7,120.66	89.44	89.07	-82.36	-797.73	-3,167.57	886.44	709.12	177.32	4.999		
10,100.00	7,238.24	10,018.17	7,120.23	92.11	91.75	-82.35	-798.51	-3,267.57	886.47	703.85	182.62	4.854		
10,200.00	7,237.93	10,118.17	7,119.79	94.80	94.43	-82.34	-799.29	-3,367.56	886.49	698.55	187.94	4.717		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,300.00	7,237.62	10,218.17	7,119.36	97.49	97.13	-82.33	-800.06	-3,467.56	886.52	693.24	193.28	4.587		
10,400.00	7,237.31	10,318.17	7,118.92	100.19	99.83	-82.33	-800.84	-3,567.56	886.55	687.91	198.64	4.463		
10,500.00	7,236.99	10,418.17	7,118.49	102.90	102.55	-82.32	-801.62	-3,667.55	886.57	682.56	204.01	4.346		
10,600.00	7,236.68	10,518.17	7,118.06	105.62	105.27	-82.31	-802.40	-3,767.55	886.60	677.19	209.41	4.234		
10,700.00	7,236.37	10,618.17	7,117.62	108.35	107.99	-82.30	-803.17	-3,867.54	886.62	671.82	214.81	4.127		
10,800.00	7,236.06	10,718.17	7,117.19	111.08	110.73	-82.30	-803.95	-3,967.54	886.65	666.42	220.23	4.026		
10,900.00	7,235.75	10,818.17	7,116.76	113.82	113.47	-82.29	-804.73	-4,067.54	886.68	661.02	225.66	3.929		
11,000.00	7,235.44	10,918.17	7,116.32	116.56	116.21	-82.28	-805.51	-4,167.53	886.70	655.61	231.10	3.837		
11,100.00	7,235.12	11,018.17	7,115.89	119.31	118.97	-82.27	-806.28	-4,267.53	886.73	650.18	236.55	3.749		
11,200.00	7,234.81	11,118.17	7,115.45	122.07	121.72	-82.26	-807.06	-4,367.52	886.76	644.75	242.01	3.664		
11,300.00	7,234.50	11,218.17	7,115.02	124.83	124.48	-82.26	-807.84	-4,467.52	886.78	639.30	247.48	3.583		
11,400.00	7,234.19	11,318.17	7,114.59	127.59	127.25	-82.25	-808.62	-4,567.52	886.81	633.85	252.96	3.506		
11,500.00	7,233.88	11,418.17	7,114.15	130.36	130.02	-82.24	-809.39	-4,667.51	886.83	628.39	258.44	3.431		
11,600.00	7,233.56	11,518.17	7,113.72	133.13	132.79	-82.23	-810.17	-4,767.51	886.86	622.93	263.93	3.360		
11,700.00	7,233.25	11,618.17	7,113.28	135.91	135.57	-82.23	-810.95	-4,867.50	886.89	617.45	269.43	3.292		
11,800.00	7,232.94	11,718.17	7,112.85	138.68	138.35	-82.22	-811.72	-4,967.50	886.91	611.97	274.94	3.226		
11,900.00	7,232.63	11,818.17	7,112.42	141.47	141.13	-82.21	-812.50	-5,067.50	886.94	606.49	280.45	3.163		
12,000.00	7,232.32	11,918.17	7,111.98	144.25	143.91	-82.20	-813.28	-5,167.49	886.96	600.99	285.97	3.102		
12,100.00	7,232.00	12,018.17	7,111.55	147.04	146.70	-82.19	-814.06	-5,267.49	886.99	595.50	291.49	3.043		
12,200.00	7,231.69	12,118.17	7,111.11	149.83	149.49	-82.19	-814.83	-5,367.48	887.02	589.99	297.02	2.986		
12,300.00	7,231.38	12,218.17	7,110.68	152.62	152.29	-82.18	-815.61	-5,467.48	887.04	584.49	302.56	2.932		
12,400.00	7,231.07	12,318.17	7,110.25	155.42	155.08	-82.17	-816.39	-5,567.48	887.07	578.98	308.09	2.879		
12,500.00	7,230.76	12,418.17	7,109.81	158.22	157.88	-82.16	-817.17	-5,667.47	887.10	573.46	313.64	2.828		
12,600.00	7,230.44	12,518.17	7,109.38	161.01	160.68	-82.16	-817.94	-5,767.47	887.12	567.94	319.18	2.779		
12,700.00	7,230.13	12,618.17	7,108.94	163.82	163.49	-82.15	-818.72	-5,867.46	887.15	562.42	324.73	2.732		
12,800.00	7,229.82	12,718.17	7,108.51	166.62	166.29	-82.14	-819.50	-5,967.46	887.18	556.89	330.29	2.686		
12,900.00	7,229.51	12,818.17	7,108.08	169.43	169.10	-82.13	-820.28	-6,067.46	887.20	551.36	335.84	2.642		
13,000.00	7,229.20	12,918.17	7,107.64	172.23	171.90	-82.13	-821.05	-6,167.45	887.23	545.82	341.40	2.599		
13,100.00	7,228.88	13,018.17	7,107.21	175.04	174.71	-82.12	-821.83	-6,267.45	887.25	540.29	346.97	2.557		
13,200.00	7,228.57	13,118.17	7,106.78	177.85	177.52	-82.11	-822.61	-6,367.44	887.28	534.75	352.53	2.517		
13,300.00	7,228.26	13,218.17	7,106.34	180.66	180.34	-82.10	-823.38	-6,467.44	887.31	529.20	358.10	2.478		
13,400.00	7,227.95	13,318.17	7,105.91	183.48	183.15	-82.09	-824.16	-6,567.43	887.33	523.66	363.67	2.440		
13,500.00	7,227.64	13,418.17	7,105.47	186.29	185.97	-82.09	-824.94	-6,667.43	887.36	518.11	369.25	2.403		
13,600.00	7,227.33	13,518.17	7,105.04	189.11	188.78	-82.08	-825.72	-6,767.43	887.39	512.56	374.82	2.367		
13,700.00	7,227.01	13,618.17	7,104.61	191.92	191.60	-82.07	-826.49	-6,867.42	887.41	507.01	380.40	2.333		
13,800.00	7,226.70	13,718.17	7,104.17	194.74	194.42	-82.06	-827.27	-6,967.42	887.44	501.46	385.98	2.299		
13,900.00	7,226.39	13,818.17	7,103.74	197.56	197.24	-82.06	-828.05	-7,067.41	887.47	495.90	391.57	2.266		
14,000.00	7,226.08	13,918.17	7,103.30	200.38	200.06	-82.05	-828.83	-7,167.41	887.49	490.34	397.15	2.235		
14,100.00	7,225.77	14,018.17	7,102.87	203.21	202.88	-82.04	-829.60	-7,267.41	887.52	484.78	402.74	2.204		
14,200.00	7,225.45	14,118.17	7,102.44	206.03	205.71	-82.03	-830.38	-7,367.40	887.55	479.22	408.33	2.174		
14,300.00	7,225.14	14,218.17	7,102.00	208.85	208.53	-82.03	-831.16	-7,467.40	887.57	473.65	413.92	2.144		
14,400.00	7,224.83	14,318.17	7,101.57	211.68	211.36	-82.02	-831.94	-7,567.39	887.60	468.09	419.51	2.116		
14,500.00	7,224.52	14,418.17	7,101.13	214.50	214.18	-82.01	-832.71	-7,667.39	887.63	462.52	425.10	2.088		
14,600.00	7,224.21	14,518.17	7,100.70	217.33	217.01	-82.00	-833.49	-7,767.39	887.65	456.95	430.70	2.061		
14,700.00	7,223.89	14,618.17	7,100.27	220.16	219.84	-81.99	-834.27	-7,867.38	887.68	451.38	436.30	2.035		
14,800.00	7,223.58	14,718.17	7,099.83	222.98	222.66	-81.99	-835.05	-7,967.38	887.71	445.81	441.89	2.009		
14,900.00	7,223.27	14,818.17	7,099.40	225.81	225.49	-81.98	-835.82	-8,067.37	887.73	440.24	447.49	1.984		
14,987.41	7,223.00	14,905.58	7,099.02	228.28	227.97	-81.97	-836.50	-8,154.78	887.76	435.37	452.39	1.962 SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1.00	0.00	3.28	3.28	-179.54	-279.77	-2.23	279.78					
100.00	100.00	101.00	100.00	3.28	3.28	-179.54	-279.77	-2.23	279.78	273.21	6.57	42.587		
200.00	200.00	199.00	200.00	3.34	3.34	-179.54	-279.77	-2.23	279.78	273.11	6.67	41.926 CC, ES		
300.00	300.00	290.18	291.17	3.44	3.43	-179.52	-281.19	-2.33	281.34	274.46	6.88	40.882		
400.00	400.00	381.09	381.97	3.60	3.56	-179.47	-285.48	-2.66	286.06	278.87	7.19	39.763		
500.00	500.00	471.64	472.23	3.81	3.73	-179.37	-292.61	-3.21	293.94	286.34	7.60	38.695		
600.00	600.00	561.64	561.68	4.05	3.94	-179.25	-302.50	-3.97	304.95	296.87	8.07	37.780		
700.00	699.98	650.81	649.95	4.32	4.17	-121.13	-315.07	-4.93	319.93	311.32	8.60	37.184		
800.00	799.94	738.94	736.76	4.61	4.44	-121.35	-330.17	-6.09	338.60	329.43	9.17	36.919		
900.00	899.89	825.97	822.00	4.92	4.73	-121.51	-347.69	-7.44	360.26	350.49	9.77	36.881		
1,000.00	999.85	911.77	905.47	5.25	5.04	-121.63	-367.48	-8.96	384.86	374.47	10.38	37.061		
1,100.00	1,099.80	996.22	987.00	5.60	5.38	-121.70	-389.39	-10.64	412.31	401.30	11.01	37.434		
1,200.00	1,199.76	1,079.19	1,066.45	5.96	5.74	-121.74	-413.24	-12.47	442.56	430.91	11.65	37.984		
1,300.00	1,299.72	1,171.60	1,154.42	6.33	6.15	-121.77	-441.49	-14.63	474.62	462.29	12.33	38.481		
1,400.00	1,399.67	1,266.31	1,244.55	6.71	6.60	-121.79	-470.49	-16.86	506.73	493.68	13.05	38.824		
1,500.00	1,499.63	1,361.02	1,334.68	7.10	7.06	-121.80	-499.48	-19.08	538.84	525.04	13.79	39.069		
1,600.00	1,599.58	1,455.72	1,424.81	7.49	7.54	-121.82	-528.47	-21.31	570.94	556.39	14.55	39.238		
1,700.00	1,699.54	1,550.43	1,514.94	7.88	8.02	-121.83	-557.47	-23.53	603.05	587.73	15.33	39.349		
1,800.00	1,799.50	1,645.13	1,605.07	8.28	8.51	-121.84	-586.46	-25.76	635.16	619.04	16.11	39.415		
1,900.00	1,899.45	1,739.84	1,695.20	8.69	9.01	-121.85	-615.45	-27.98	667.27	650.35	16.91	39.448		
2,000.00	1,999.41	1,834.54	1,785.33	9.10	9.51	-121.86	-644.45	-30.21	699.37	681.65	17.73	39.456		
2,100.00	2,099.36	1,929.25	1,875.46	9.51	10.02	-121.87	-673.44	-32.43	731.48	712.94	18.54	39.444		
2,200.00	2,199.32	2,023.95	1,965.59	9.92	10.53	-121.88	-702.44	-34.66	763.59	744.22	19.37	39.417		
2,300.00	2,299.28	2,118.66	2,055.72	10.34	11.04	-121.89	-731.43	-36.88	795.70	775.49	20.21	39.380		
2,400.00	2,399.23	2,213.36	2,145.85	10.75	11.56	-121.90	-760.42	-39.11	827.80	806.76	21.05	39.334		
2,500.00	2,499.19	2,308.07	2,235.98	11.17	12.08	-121.90	-789.42	-41.33	859.91	838.02	21.89	39.283		
2,600.00	2,599.14	2,402.77	2,326.11	11.60	12.61	-121.91	-818.41	-43.55	892.02	869.28	22.74	39.227		
2,700.00	2,699.10	2,497.48	2,416.24	12.02	13.13	-121.91	-847.41	-45.78	924.13	900.53	23.59	39.169		
2,800.00	2,799.06	2,607.82	2,506.37	12.44	13.75	-121.92	-876.40	-48.00	956.24	931.71	24.53	38.986		
2,900.00	2,899.01	2,686.89	2,596.50	12.87	14.19	-121.92	-905.39	-50.23	988.34	963.03	25.31	39.047		
3,000.00	2,998.97	2,781.59	2,686.63	13.29	14.72	-121.93	-934.39	-52.45	1,020.45	994.28	26.18	38.985		
3,100.00	3,098.92	2,876.30	2,776.76	13.72	15.25	-121.93	-963.38	-54.68	1,052.56	1,025.52	27.04	38.923		
3,200.00	3,198.88	2,971.01	2,866.89	14.14	15.78	-121.94	-992.37	-56.90	1,084.67	1,056.76	27.91	38.861		
3,300.00	3,298.84	3,065.71	2,957.03	14.57	16.32	-121.94	-1,021.37	-59.13	1,116.77	1,087.99	28.78	38.800		
3,400.00	3,398.79	3,160.42	3,047.16	15.00	16.85	-121.95	-1,050.36	-61.35	1,148.88	1,119.23	29.66	38.740		
3,500.00	3,498.75	3,255.12	3,137.29	15.43	17.39	-121.95	-1,079.36	-63.58	1,180.99	1,150.46	30.53	38.681		
3,600.00	3,598.70	3,349.83	3,227.42	15.86	17.92	-121.95	-1,108.35	-65.80	1,213.10	1,181.69	31.41	38.624		
3,700.00	3,698.66	3,444.53	3,317.55	16.29	18.46	-121.96	-1,137.34	-68.03	1,245.20	1,212.92	32.29	38.567		
3,800.00	3,798.62	3,539.24	3,407.68	16.72	19.00	-121.96	-1,166.34	-70.25	1,277.31	1,244.15	33.17	38.512		
3,900.00	3,898.57	3,633.94	3,497.81	17.15	19.54	-121.96	-1,195.33	-72.48	1,309.42	1,275.37	34.05	38.458		
4,000.00	3,998.53	3,728.65	3,587.94	17.59	20.07	-121.96	-1,224.32	-74.70	1,341.53	1,306.60	34.93	38.406		
4,100.00	4,098.48	3,823.35	3,678.07	18.02	20.61	-121.97	-1,253.32	-76.93	1,373.64	1,337.82	35.81	38.354		
4,200.00	4,198.44	3,918.06	3,768.20	18.45	21.15	-121.97	-1,282.31	-79.15	1,405.74	1,369.04	36.70	38.304		
4,300.00	4,298.40	4,012.76	3,858.33	18.88	21.69	-121.97	-1,311.31	-81.37	1,437.85	1,400.27	37.59	38.256		
4,400.00	4,398.35	4,107.47	3,948.46	19.32	22.23	-121.97	-1,340.30	-83.60	1,469.96	1,431.49	38.47	38.209		
4,500.00	4,498.31	4,202.17	4,038.59	19.75	22.77	-121.98	-1,369.29	-85.82	1,502.07	1,462.71	39.36	38.163		
4,600.00	4,598.26	4,303.12	4,128.72	20.19	23.35	-121.98	-1,398.29	-88.05	1,534.17	1,493.89	40.28	38.088		
4,700.00	4,698.22	4,408.42	4,218.85	20.62	23.95	-121.98	-1,427.28	-90.27	1,566.28	1,525.06	41.22	37.996		
4,800.00	4,798.18	4,486.29	4,308.98	21.05	24.40	-121.98	-1,456.28	-92.50	1,598.39	1,556.36	42.03	38.032		
4,900.00	4,898.13	4,580.99	4,399.11	21.49	24.94	-121.98	-1,485.27	-94.72	1,630.50	1,587.58	42.92	37.991		
5,000.00	4,998.09	4,675.70	4,489.24	21.92	25.48	-121.98	-1,514.26	-96.95	1,662.61	1,618.80	43.81	37.951		
5,100.00	5,098.04	4,770.41	4,579.37	22.36	26.03	-121.99	-1,543.26	-99.17	1,694.71	1,650.01	44.70	37.911		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	4,865.11	4,669.50	22.79	26.57	-121.99	-1,572.25	-101.40	1,726.82	1,681.23	45.59	37.873		
5,300.00	5,297.96	4,959.82	4,759.63	23.23	27.11	-121.99	-1,601.24	-103.62	1,758.93	1,712.44	46.49	37.836		
5,400.00	5,397.91	5,054.52	4,849.77	23.67	27.66	-121.99	-1,630.24	-105.85	1,791.04	1,743.66	47.38	37.800		
5,500.00	5,497.87	5,149.23	4,939.90	24.10	28.20	-121.99	-1,659.23	-108.07	1,823.14	1,774.87	48.28	37.765		
5,600.00	5,597.82	5,243.93	5,030.03	24.54	28.74	-121.99	-1,688.23	-110.30	1,855.25	1,806.08	49.17	37.731		
5,700.00	5,697.78	5,338.64	5,120.16	24.97	29.29	-121.99	-1,717.22	-112.52	1,887.36	1,837.29	50.07	37.697		
5,800.00	5,797.74	5,433.34	5,210.29	25.41	29.83	-122.00	-1,746.21	-114.74	1,919.47	1,868.51	50.96	37.665		
5,900.00	5,897.69	5,528.05	5,300.42	25.85	30.38	-122.00	-1,775.21	-116.97	1,951.58	1,899.72	51.86	37.633		
6,000.00	5,997.65	5,622.75	5,390.55	26.28	30.92	-122.00	-1,804.20	-119.19	1,983.68	1,930.93	52.75	37.602		
6,100.00	6,097.60	5,717.46	5,480.68	26.72	31.46	-122.00	-1,833.19	-121.42	2,015.79	1,962.14	53.65	37.572		
6,200.00	6,197.56	5,812.16	5,570.81	27.16	32.01	-122.00	-1,862.19	-123.64	2,047.90	1,993.35	54.55	37.543		
6,300.00	6,297.52	5,906.87	5,660.94	27.59	32.55	-122.00	-1,891.18	-125.87	2,080.01	2,024.56	55.45	37.514		
6,400.00	6,397.47	6,001.57	5,751.07	28.03	33.10	-122.00	-1,920.18	-128.09	2,112.11	2,055.77	56.34	37.486		
6,500.00	6,497.43	6,103.72	5,841.20	28.47	33.69	-122.00	-1,949.17	-130.32	2,144.22	2,086.94	57.28	37.433		
6,600.00	6,597.38	6,209.02	5,931.33	28.90	34.29	-122.01	-1,978.16	-132.54	2,176.33	2,118.10	58.23	37.372		
6,700.00	6,697.08	6,285.55	6,021.33	29.34	34.73	-94.08	-2,007.12	-134.76	2,208.36	2,149.32	59.04	37.403		
6,800.00	6,794.63	6,378.47	6,109.76	29.79	35.27	-88.14	-2,035.56	-136.95	2,239.83	2,179.88	59.95	37.364		
6,900.00	6,887.62	6,467.46	6,194.45	30.24	35.78	-85.06	-2,062.81	-139.04	2,270.33	2,209.49	60.84	37.317		
7,000.00	6,973.77	6,550.32	6,273.31	30.70	36.26	-82.90	-2,088.17	-140.98	2,299.74	2,238.02	61.72	37.261		
7,100.00	7,050.94	6,625.03	6,344.41	31.20	36.69	-81.20	-2,111.05	-142.74	2,328.15	2,265.55	62.60	37.191		
7,200.00	7,117.24	6,689.73	6,405.99	31.77	37.06	-79.70	-2,130.85	-144.26	2,355.78	2,292.27	63.50	37.097		
7,300.00	7,171.03	6,742.84	6,456.53	32.46	37.37	-78.22	-2,147.11	-145.51	2,382.84	2,318.37	64.46	36.965		
7,400.00	7,211.00	6,801.14	6,511.99	33.29	37.70	-77.05	-2,164.96	-147.48	2,409.47	2,343.80	65.67	36.690		
7,500.00	7,236.16	6,951.18	6,652.01	34.29	38.53	-78.05	-2,210.19	-175.00	2,434.74	2,366.86	67.88	35.867		
7,600.00	7,245.89	7,452.82	7,008.16	35.43	40.49	-84.53	-2,327.11	-488.65	2,454.71	2,382.79	71.92	34.133		
7,700.00	7,245.73	7,833.87	7,075.75	36.72	41.88	-86.03	-2,351.69	-858.09	2,456.10	2,379.67	76.43	32.136		
7,800.00	7,245.42	7,933.87	7,075.43	38.18	42.63	-86.03	-2,352.36	-958.08	2,456.00	2,376.81	79.20	31.012		
7,900.00	7,245.10	8,033.87	7,075.10	39.80	43.66	-86.03	-2,353.03	-1,058.08	2,455.90	2,373.63	82.27	29.853		
8,000.00	7,244.79	8,133.87	7,074.78	41.54	44.95	-86.03	-2,353.70	-1,158.08	2,455.80	2,370.19	85.61	28.687		
8,100.00	7,244.48	8,233.87	7,074.46	43.41	46.45	-86.03	-2,354.36	-1,258.07	2,455.70	2,366.52	89.19	27.534		
8,200.00	7,244.17	8,333.87	7,074.13	45.38	48.13	-86.03	-2,355.03	-1,358.07	2,455.61	2,362.62	92.98	26.410		
8,300.00	7,243.86	8,433.87	7,073.81	47.44	49.94	-86.03	-2,355.70	-1,458.07	2,455.51	2,358.55	96.96	25.325		
8,400.00	7,243.55	8,533.87	7,073.48	49.58	51.87	-86.03	-2,356.37	-1,558.07	2,455.41	2,354.30	101.11	24.286		
8,500.00	7,243.23	8,633.87	7,073.16	51.78	53.89	-86.03	-2,357.03	-1,658.06	2,455.31	2,349.91	105.40	23.296		
8,600.00	7,242.92	8,733.87	7,072.83	54.05	56.00	-86.03	-2,357.70	-1,758.06	2,455.21	2,345.39	109.81	22.358		
8,700.00	7,242.61	8,833.87	7,072.51	56.37	58.17	-86.03	-2,358.37	-1,858.06	2,455.11	2,340.76	114.35	21.471		
8,800.00	7,242.30	8,933.87	7,072.18	58.74	60.41	-86.03	-2,359.04	-1,958.05	2,455.01	2,336.03	118.98	20.634		
8,900.00	7,241.99	9,033.87	7,071.86	61.16	62.70	-86.03	-2,359.70	-2,058.05	2,454.91	2,331.21	123.70	19.845		
9,000.00	7,241.67	9,133.87	7,071.53	63.61	65.04	-86.03	-2,360.37	-2,158.05	2,454.81	2,326.31	128.50	19.103		
9,100.00	7,241.36	9,233.87	7,071.21	66.09	67.42	-86.03	-2,361.04	-2,258.05	2,454.71	2,321.34	133.38	18.404		
9,200.00	7,241.05	9,333.87	7,070.88	68.60	69.84	-86.02	-2,361.71	-2,358.04	2,454.62	2,316.30	138.31	17.747		
9,300.00	7,240.74	9,433.87	7,070.56	71.13	72.29	-86.02	-2,362.37	-2,458.04	2,454.52	2,311.21	143.31	17.128		
9,400.00	7,240.43	9,533.87	7,070.23	73.70	74.77	-86.02	-2,363.04	-2,558.04	2,454.42	2,306.07	148.35	16.545		
9,500.00	7,240.11	9,633.87	7,069.91	76.28	77.28	-86.02	-2,363.71	-2,658.03	2,454.32	2,300.88	153.44	15.995		
9,600.00	7,239.80	9,733.87	7,069.58	78.88	79.81	-86.02	-2,364.38	-2,758.03	2,454.22	2,295.65	158.57	15.477		
9,700.00	7,239.49	9,833.87	7,069.26	81.50	82.36	-86.02	-2,365.04	-2,858.03	2,454.12	2,290.38	163.74	14.988		
9,800.00	7,239.18	9,933.87	7,068.93	84.13	84.94	-86.02	-2,365.71	-2,958.03	2,454.02	2,285.08	168.95	14.525		
9,900.00	7,238.87	10,033.87	7,068.61	86.78	87.53	-86.02	-2,366.38	-3,058.02	2,453.92	2,279.74	174.18	14.088		
10,000.00	7,238.55	10,133.87	7,068.28	89.44	90.13	-86.02	-2,367.05	-3,158.02	2,453.82	2,274.38	179.45	13.674		
10,100.00	7,238.24	10,233.87	7,067.96	92.11	92.76	-86.02	-2,367.71	-3,258.02	2,453.72	2,268.99	184.74	13.282		
10,200.00	7,237.93	10,333.87	7,067.63	94.80	95.39	-86.02	-2,368.38	-3,358.02	2,453.63	2,263.58	190.05	12.910		
10,300.00	7,237.62	10,433.87	7,067.31	97.49	98.04	-86.02	-2,369.05	-3,458.01	2,453.53	2,258.14	195.39	12.557		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	10,533.87	7,066.98	100.19	100.70	-86.02	-2,369.72	-3,558.01	2,453.43	2,252.69	200.74	12.222		
10,500.00	7,236.99	10,633.87	7,066.66	102.90	103.37	-86.02	-2,370.38	-3,658.01	2,453.33	2,247.21	206.12	11.903		
10,600.00	7,236.68	10,733.87	7,066.33	105.62	106.06	-86.02	-2,371.05	-3,758.00	2,453.23	2,241.72	211.51	11.599		
10,700.00	7,236.37	10,833.87	7,066.01	108.35	108.75	-86.02	-2,371.72	-3,858.00	2,453.13	2,236.21	216.92	11.309		
10,800.00	7,236.06	10,933.87	7,065.68	111.08	111.45	-86.02	-2,372.38	-3,958.00	2,453.03	2,230.69	222.34	11.033		
10,900.00	7,235.75	11,033.87	7,065.36	113.82	114.15	-86.02	-2,373.05	-4,058.00	2,452.93	2,225.16	227.77	10.769		
11,000.00	7,235.44	11,133.87	7,065.03	116.56	116.87	-86.02	-2,373.72	-4,157.99	2,452.83	2,219.61	233.22	10.517		
11,100.00	7,235.12	11,233.87	7,064.71	119.31	119.59	-86.02	-2,374.39	-4,257.99	2,452.74	2,214.05	238.68	10.276		
11,200.00	7,234.81	11,333.87	7,064.38	122.07	122.31	-86.02	-2,375.05	-4,357.99	2,452.64	2,208.48	244.16	10.045		
11,300.00	7,234.50	11,433.87	7,064.06	124.83	125.05	-86.02	-2,375.72	-4,457.98	2,452.54	2,202.90	249.64	9.824		
11,400.00	7,234.19	11,533.87	7,063.73	127.59	127.79	-86.01	-2,376.39	-4,557.98	2,452.44	2,197.31	255.13	9.612		
11,500.00	7,233.88	11,633.87	7,063.41	130.36	130.53	-86.01	-2,377.06	-4,657.98	2,452.34	2,191.71	260.63	9.409		
11,600.00	7,233.56	11,733.87	7,063.08	133.13	133.28	-86.01	-2,377.72	-4,757.98	2,452.24	2,186.10	266.14	9.214		
11,700.00	7,233.25	11,833.87	7,062.76	135.91	136.03	-86.01	-2,378.39	-4,857.97	2,452.14	2,180.48	271.66	9.027		
11,800.00	7,232.94	11,933.87	7,062.43	138.68	138.79	-86.01	-2,379.06	-4,957.97	2,452.04	2,174.86	277.18	8.846		
11,900.00	7,232.63	12,033.87	7,062.11	141.47	141.55	-86.01	-2,379.73	-5,057.97	2,451.94	2,169.23	282.72	8.673		
12,000.00	7,232.32	12,133.87	7,061.78	144.25	144.32	-86.01	-2,380.39	-5,157.96	2,451.84	2,163.59	288.26	8.506		
12,100.00	7,232.00	12,233.87	7,061.46	147.04	147.08	-86.01	-2,381.06	-5,257.96	2,451.75	2,157.95	293.80	8.345		
12,200.00	7,231.69	12,333.87	7,061.13	149.83	149.86	-86.01	-2,381.73	-5,357.96	2,451.65	2,152.30	299.35	8.190		
12,300.00	7,231.38	12,433.87	7,060.81	152.62	152.63	-86.01	-2,382.40	-5,457.96	2,451.55	2,146.64	304.91	8.040		
12,400.00	7,231.07	12,533.87	7,060.48	155.42	155.41	-86.01	-2,383.06	-5,557.95	2,451.45	2,140.98	310.47	7.896		
12,500.00	7,230.76	12,633.87	7,060.16	158.22	158.19	-86.01	-2,383.73	-5,657.95	2,451.35	2,135.31	316.04	7.757		
12,600.00	7,230.44	12,733.87	7,059.83	161.01	160.98	-86.01	-2,384.40	-5,757.95	2,451.25	2,129.64	321.61	7.622		
12,700.00	7,230.13	12,833.87	7,059.51	163.82	163.76	-86.01	-2,385.07	-5,857.95	2,451.15	2,123.97	327.19	7.492		
12,800.00	7,229.82	12,933.87	7,059.18	166.62	166.55	-86.01	-2,385.73	-5,957.94	2,451.05	2,118.29	332.77	7.366		
12,900.00	7,229.51	13,033.87	7,058.86	169.43	169.34	-86.01	-2,386.40	-6,057.94	2,450.95	2,112.60	338.35	7.244		
13,000.00	7,229.20	13,133.87	7,058.53	172.23	172.14	-86.01	-2,387.07	-6,157.94	2,450.85	2,106.92	343.94	7.126		
13,100.00	7,228.88	13,233.87	7,058.21	175.04	174.93	-86.01	-2,387.74	-6,257.93	2,450.76	2,101.22	349.53	7.012		
13,200.00	7,228.57	13,333.87	7,057.89	177.85	177.73	-86.01	-2,388.40	-6,357.93	2,450.66	2,095.53	355.13	6.901		
13,300.00	7,228.26	13,433.87	7,057.56	180.66	180.53	-86.01	-2,389.07	-6,457.93	2,450.56	2,089.83	360.73	6.793		
13,400.00	7,227.95	13,533.87	7,057.24	183.48	183.33	-86.01	-2,389.74	-6,557.93	2,450.46	2,084.13	366.33	6.689		
13,500.00	7,227.64	13,633.87	7,056.91	186.29	186.13	-86.00	-2,390.41	-6,657.92	2,450.36	2,078.43	371.93	6.588		
13,600.00	7,227.33	13,733.87	7,056.59	189.11	188.94	-86.00	-2,391.07	-6,757.92	2,450.26	2,072.72	377.54	6.490		
13,700.00	7,227.01	13,833.87	7,056.26	191.92	191.75	-86.00	-2,391.74	-6,857.92	2,450.16	2,067.01	383.15	6.395		
13,800.00	7,226.70	13,933.87	7,055.94	194.74	194.55	-86.00	-2,392.41	-6,957.91	2,450.06	2,061.30	388.77	6.302		
13,900.00	7,226.39	14,033.87	7,055.61	197.56	197.36	-86.00	-2,393.08	-7,057.91	2,449.96	2,055.58	394.38	6.212		
14,000.00	7,226.08	14,133.87	7,055.29	200.38	200.17	-86.00	-2,393.74	-7,157.91	2,449.87	2,049.86	400.00	6.125		
14,100.00	7,225.77	14,233.87	7,054.96	203.21	202.99	-86.00	-2,394.41	-7,257.91	2,449.77	2,044.14	405.62	6.040		
14,200.00	7,225.45	14,333.87	7,054.64	206.03	205.80	-86.00	-2,395.08	-7,357.90	2,449.67	2,038.42	411.25	5.957		
14,300.00	7,225.14	14,433.87	7,054.31	208.85	208.62	-86.00	-2,395.75	-7,457.90	2,449.57	2,032.70	416.87	5.876		
14,400.00	7,224.83	14,533.87	7,053.99	211.68	211.43	-86.00	-2,396.41	-7,557.90	2,449.47	2,026.97	422.50	5.798		
14,500.00	7,224.52	14,633.86	7,053.66	214.50	214.25	-86.00	-2,397.08	-7,657.89	2,449.37	2,021.24	428.13	5.721		
14,600.00	7,224.21	14,733.86	7,053.34	217.33	217.07	-86.00	-2,397.75	-7,757.89	2,449.27	2,015.51	433.76	5.647		
14,700.00	7,223.89	14,833.86	7,053.01	220.16	219.89	-86.00	-2,398.42	-7,857.89	2,449.17	2,009.78	439.39	5.574		
14,800.00	7,223.58	14,933.86	7,052.69	222.98	222.71	-86.00	-2,399.08	-7,957.89	2,449.07	2,004.04	445.03	5.503		
14,900.00	7,223.27	15,033.86	7,052.36	225.81	225.53	-86.00	-2,399.75	-8,057.88	2,448.97	1,998.31	450.67	5.434		
14,987.41	7,223.00	15,121.28	7,052.08	228.28	227.99	-86.00	-2,400.33	-8,145.29	2,448.89	1,993.29	455.60	5.375 SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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						
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	2.00	0.00	3.28	3.28	-179.52	-299.83	-2.50	299.84				
100.00	100.00	102.00	100.00	3.28	3.29	-179.52	-299.83	-2.50	299.84	293.27	6.57	45.638	
200.00	200.00	198.00	200.00	3.34	3.34	-179.52	-299.83	-2.50	299.84	293.17	6.67	44.937 CC, ES	
300.00	300.00	288.70	290.69	3.44	3.43	-179.51	-301.20	-2.60	301.35	294.47	6.88	43.803	
400.00	400.00	379.04	380.92	3.60	3.56	-179.46	-305.41	-2.89	306.02	298.83	7.19	42.561	
500.00	500.00	469.02	470.62	3.81	3.73	-179.38	-312.42	-3.37	313.82	306.23	7.59	41.347	
600.00	600.00	558.47	559.54	4.05	3.93	-179.28	-322.17	-4.05	324.73	316.67	8.06	40.276	
700.00	699.98	647.10	647.28	4.32	4.16	-121.17	-334.56	-4.91	339.60	331.01	8.59	39.525	
800.00	799.94	734.71	733.61	4.61	4.42	-121.39	-349.46	-5.94	358.14	348.99	9.16	39.112	
900.00	899.89	821.24	818.38	4.92	4.71	-121.57	-366.76	-7.13	379.66	369.91	9.75	38.935	
1,000.00	999.85	906.56	901.42	5.25	5.02	-121.70	-386.31	-8.49	404.10	393.74	10.36	38.988	
1,100.00	1,099.80	990.55	982.55	5.60	5.36	-121.79	-407.96	-9.98	431.39	420.40	10.99	39.243	
1,200.00	1,199.76	1,073.09	1,061.64	5.96	5.71	-121.85	-431.53	-11.61	461.46	449.83	11.63	39.687	
1,300.00	1,299.72	1,154.10	1,138.56	6.33	6.08	-121.88	-456.87	-13.37	494.23	481.97	12.26	40.302	
1,400.00	1,399.67	1,245.99	1,225.28	6.71	6.51	-121.90	-487.16	-15.46	528.67	515.71	12.96	40.792	
1,500.00	1,499.63	1,339.86	1,313.87	7.10	6.98	-121.91	-518.13	-17.60	563.15	549.46	13.69	41.133	
1,600.00	1,599.58	1,433.73	1,402.46	7.49	7.46	-121.93	-549.10	-19.75	597.62	583.18	14.44	41.381	
1,700.00	1,699.54	1,527.60	1,491.05	7.88	7.95	-121.94	-580.07	-21.89	632.09	616.88	15.21	41.557	
1,800.00	1,799.50	1,621.47	1,579.63	8.28	8.44	-121.95	-611.04	-24.03	666.57	650.57	15.99	41.678	
1,900.00	1,899.45	1,715.34	1,668.22	8.69	8.95	-121.96	-642.02	-26.17	701.04	684.25	16.79	41.756	
2,000.00	1,999.41	1,809.21	1,756.81	9.10	9.46	-121.97	-672.99	-28.32	735.51	717.92	17.60	41.801	
2,100.00	2,099.36	1,903.08	1,845.40	9.51	9.98	-121.97	-703.96	-30.46	769.99	751.58	18.41	41.821	
2,200.00	2,199.32	2,003.05	1,933.98	9.92	10.54	-121.98	-734.93	-32.60	804.46	785.20	19.27	41.757	
2,300.00	2,299.28	2,109.18	2,022.57	10.34	11.13	-121.99	-765.90	-34.74	838.93	818.78	20.16	41.621	
2,400.00	2,399.23	2,184.69	2,111.16	10.75	11.56	-121.99	-796.87	-36.89	873.41	852.50	20.91	41.778	
2,500.00	2,499.19	2,278.56	2,199.75	11.17	12.09	-122.00	-827.84	-39.03	907.88	886.13	21.75	41.742	
2,600.00	2,599.14	2,372.43	2,288.34	11.60	12.62	-122.01	-858.81	-41.17	942.35	919.76	22.60	41.700	
2,700.00	2,699.10	2,466.30	2,376.92	12.02	13.16	-122.01	-889.78	-43.31	976.83	953.38	23.45	41.653	
2,800.00	2,799.06	2,560.17	2,465.51	12.44	13.70	-122.01	-920.75	-45.45	1,011.30	986.99	24.31	41.603	
2,900.00	2,899.01	2,654.04	2,554.10	12.87	14.24	-122.02	-951.72	-47.60	1,045.77	1,020.61	25.17	41.550	
3,000.00	2,998.97	2,747.91	2,642.69	13.29	14.78	-122.02	-982.69	-49.74	1,080.25	1,054.21	26.03	41.495	
3,100.00	3,098.92	2,841.78	2,731.28	13.72	15.33	-122.03	-1,013.66	-51.88	1,114.72	1,087.82	26.90	41.440	
3,200.00	3,198.88	2,935.65	2,819.86	14.14	15.87	-122.03	-1,044.63	-54.02	1,149.19	1,121.43	27.77	41.384	
3,300.00	3,298.84	3,029.52	2,908.45	14.57	16.42	-122.03	-1,075.61	-56.17	1,183.67	1,155.03	28.64	41.328	
3,400.00	3,398.79	3,123.39	2,997.04	15.00	16.96	-122.04	-1,106.58	-58.31	1,218.14	1,188.63	29.52	41.272	
3,500.00	3,498.75	3,217.26	3,085.63	15.43	17.51	-122.04	-1,137.55	-60.45	1,252.61	1,222.22	30.39	41.216	
3,600.00	3,598.70	3,311.13	3,174.21	15.86	18.06	-122.04	-1,168.52	-62.59	1,287.09	1,255.82	31.27	41.162	
3,700.00	3,698.66	3,405.00	3,262.80	16.29	18.61	-122.05	-1,199.49	-64.74	1,321.56	1,289.41	32.15	41.108	
3,800.00	3,798.62	3,501.13	3,351.39	16.72	19.17	-122.05	-1,230.46	-66.88	1,356.04	1,322.99	33.04	41.041	
3,900.00	3,898.57	3,592.74	3,439.98	17.15	19.71	-122.05	-1,261.43	-69.02	1,390.51	1,356.60	33.91	41.003	
4,000.00	3,998.53	3,686.61	3,528.57	17.59	20.26	-122.05	-1,292.40	-71.16	1,424.98	1,390.19	34.80	40.952	
4,100.00	4,098.48	3,780.48	3,617.15	18.02	20.81	-122.05	-1,323.37	-73.30	1,459.46	1,423.77	35.68	40.902	
4,200.00	4,198.44	3,874.35	3,705.74	18.45	21.37	-122.06	-1,354.34	-75.45	1,493.93	1,457.36	36.57	40.854	
4,300.00	4,298.40	3,968.22	3,794.33	18.88	21.92	-122.06	-1,385.31	-77.59	1,528.40	1,490.95	37.46	40.806	
4,400.00	4,398.35	4,062.09	3,882.92	19.32	22.47	-122.06	-1,416.28	-79.73	1,562.88	1,524.53	38.34	40.760	
4,500.00	4,498.31	4,155.96	3,971.51	19.75	23.03	-122.06	-1,447.25	-81.87	1,597.35	1,558.12	39.23	40.715	
4,600.00	4,598.26	4,249.83	4,060.09	20.19	23.58	-122.06	-1,478.22	-84.02	1,631.82	1,591.70	40.12	40.670	
4,700.00	4,698.22	4,343.70	4,148.68	20.62	24.14	-122.07	-1,509.20	-86.16	1,666.30	1,625.28	41.01	40.627	
4,800.00	4,798.18	4,437.57	4,237.27	21.05	24.69	-122.07	-1,540.17	-88.30	1,700.77	1,658.86	41.91	40.585	
4,900.00	4,898.13	4,531.44	4,325.86	21.49	25.24	-122.07	-1,571.14	-90.44	1,735.24	1,692.44	42.80	40.544	
5,000.00	4,998.09	4,625.31	4,414.44	21.92	25.80	-122.07	-1,602.11	-92.59	1,769.72	1,726.02	43.69	40.504	
5,100.00	5,098.04	4,719.18	4,503.03	22.36	26.36	-122.07	-1,633.08	-94.73	1,804.19	1,759.60	44.59	40.465	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
5,200.00	5,198.00	4,813.05	4,591.62	22.79	26.91	-122.07	-1,664.05	-96.87	1,838.66	1,793.18	45.48	40.427		
5,300.00	5,297.96	4,906.92	4,680.21	23.23	27.47	-122.07	-1,695.02	-99.01	1,873.14	1,826.76	46.38	40.390		
5,400.00	5,397.91	5,000.79	4,768.80	23.67	28.02	-122.08	-1,725.99	-101.15	1,907.61	1,860.34	47.27	40.354		
5,500.00	5,497.87	5,105.34	4,857.38	24.10	28.64	-122.08	-1,756.96	-103.30	1,942.08	1,893.86	48.22	40.273		
5,600.00	5,597.82	5,188.53	4,945.97	24.54	29.14	-122.08	-1,787.93	-105.44	1,976.56	1,927.49	49.07	40.284		
5,700.00	5,697.78	5,282.40	5,034.56	24.97	29.69	-122.08	-1,818.90	-107.58	2,011.03	1,961.07	49.96	40.251		
5,800.00	5,797.74	5,376.27	5,123.15	25.41	30.25	-122.08	-1,849.87	-109.72	2,045.50	1,994.64	50.86	40.218		
5,900.00	5,897.69	5,470.14	5,211.74	25.85	30.81	-122.08	-1,880.84	-111.87	2,079.98	2,028.22	51.76	40.186		
6,000.00	5,997.65	5,564.01	5,300.32	26.28	31.37	-122.08	-1,911.81	-114.01	2,114.45	2,061.79	52.66	40.155		
6,100.00	6,097.60	5,657.88	5,388.91	26.72	31.92	-122.08	-1,942.79	-116.15	2,148.92	2,095.37	53.56	40.124		
6,200.00	6,197.56	5,751.75	5,477.50	27.16	32.48	-122.08	-1,973.76	-118.29	2,183.40	2,128.94	54.46	40.094		
6,300.00	6,297.52	5,845.62	5,566.09	27.59	33.04	-122.09	-2,004.73	-120.44	2,217.87	2,162.51	55.36	40.065		
6,400.00	6,397.47	5,939.49	5,654.67	28.03	33.60	-122.09	-2,035.70	-122.58	2,252.34	2,196.09	56.26	40.037		
6,500.00	6,497.43	6,033.36	5,743.26	28.47	34.15	-122.09	-2,066.67	-124.72	2,286.82	2,229.66	57.16	40.009		
6,600.00	6,597.38	6,127.23	5,831.85	28.90	34.71	-122.09	-2,097.64	-126.86	2,321.29	2,263.23	58.06	39.982		
6,700.00	6,697.08	6,220.96	5,920.31	29.34	35.27	-93.97	-2,128.56	-129.00	2,355.69	2,296.73	58.96	39.952		
6,800.00	6,794.63	6,313.05	6,007.22	29.79	35.82	-87.76	-2,158.95	-131.10	2,389.50	2,329.63	59.87	39.913		
6,900.00	6,887.62	6,401.25	6,090.45	30.24	36.34	-84.40	-2,188.05	-133.12	2,422.23	2,361.46	60.76	39.864		
7,000.00	6,973.77	6,483.37	6,167.95	30.70	36.83	-81.98	-2,215.14	-134.99	2,453.67	2,392.02	61.64	39.805		
7,100.00	7,050.94	6,557.40	6,237.82	31.20	37.27	-80.03	-2,239.57	-136.68	2,483.81	2,421.28	62.52	39.727		
7,200.00	7,117.24	6,621.51	6,298.32	31.77	37.65	-78.33	-2,260.72	-138.14	2,512.75	2,449.33	63.43	39.617		
7,300.00	7,171.03	6,674.13	6,347.98	32.46	37.97	-76.72	-2,278.08	-139.34	2,540.64	2,476.26	64.38	39.462		
7,400.00	7,211.00	6,713.96	6,385.57	33.29	38.20	-75.06	-2,291.22	-140.25	2,567.58	2,502.17	65.41	39.253		
7,500.00	7,236.16	6,740.02	6,410.16	34.29	38.36	-73.28	-2,299.82	-140.85	2,593.55	2,527.04	66.51	38.994		
7,600.00	7,245.89	6,751.67	6,421.15	35.43	38.43	-71.34	-2,303.66	-141.11	2,618.37	2,550.71	67.66	38.701		
7,700.00	7,245.73	6,754.06	6,423.41	36.72	38.44	-71.10	-2,304.45	-141.17	2,643.61	2,574.75	68.86	38.392		
7,800.00	7,245.42	8,061.82	7,145.00	38.18	44.13	-87.84	-2,563.21	-958.11	2,662.85	2,582.99	79.86	33.344		
7,900.00	7,245.10	8,161.82	7,144.43	39.80	44.99	-87.83	-2,563.82	-1,058.10	2,662.71	2,579.80	82.91	32.117		
8,000.00	7,244.79	8,261.82	7,143.86	41.54	46.13	-87.83	-2,564.44	-1,158.10	2,662.56	2,576.34	86.23	30.879		
8,100.00	7,244.48	8,361.82	7,143.30	43.41	47.52	-87.82	-2,565.05	-1,258.10	2,662.42	2,572.63	89.79	29.653		
8,200.00	7,244.17	8,461.82	7,142.73	45.38	49.10	-87.82	-2,565.66	-1,358.09	2,662.27	2,568.71	93.56	28.456		
8,300.00	7,243.86	8,561.82	7,142.16	47.44	50.84	-87.81	-2,566.28	-1,458.09	2,662.13	2,564.61	97.52	27.299		
8,400.00	7,243.55	8,661.82	7,141.59	49.58	52.71	-87.81	-2,566.89	-1,558.08	2,661.98	2,560.34	101.65	26.189		
8,500.00	7,243.23	8,761.82	7,141.02	51.78	54.68	-87.80	-2,567.50	-1,658.08	2,661.84	2,555.92	105.92	25.131		
8,600.00	7,242.92	8,861.82	7,140.45	54.05	56.75	-87.79	-2,568.11	-1,758.08	2,661.69	2,551.37	110.32	24.126		
8,700.00	7,242.61	8,961.82	7,139.89	56.37	58.88	-87.79	-2,568.73	-1,858.07	2,661.55	2,546.70	114.84	23.175		
8,800.00	7,242.30	9,061.82	7,139.32	58.74	61.09	-87.78	-2,569.34	-1,958.07	2,661.40	2,541.94	119.47	22.278		
8,900.00	7,241.99	9,161.82	7,138.75	61.16	63.35	-87.78	-2,569.95	-2,058.06	2,661.26	2,537.08	124.18	21.431		
9,000.00	7,241.67	9,261.82	7,138.18	63.61	65.66	-87.77	-2,570.57	-2,158.06	2,661.11	2,532.14	128.97	20.634		
9,100.00	7,241.36	9,361.81	7,137.61	66.09	68.01	-87.77	-2,571.18	-2,258.06	2,660.97	2,527.14	133.83	19.882		
9,200.00	7,241.05	9,461.81	7,137.04	68.60	70.41	-87.76	-2,571.79	-2,358.05	2,660.83	2,522.06	138.76	19.175		
9,300.00	7,240.74	9,561.81	7,136.47	71.13	72.84	-87.75	-2,572.41	-2,458.05	2,660.68	2,516.93	143.75	18.509		
9,400.00	7,240.43	9,661.81	7,135.91	73.70	75.30	-87.75	-2,573.02	-2,558.04	2,660.54	2,511.75	148.79	17.881		
9,500.00	7,240.11	9,761.81	7,135.34	76.28	77.79	-87.74	-2,573.63	-2,658.04	2,660.39	2,506.52	153.88	17.289		
9,600.00	7,239.80	9,861.81	7,134.77	78.88	80.30	-87.74	-2,574.24	-2,758.04	2,660.25	2,501.24	159.01	16.730		
9,700.00	7,239.49	9,961.81	7,134.20	81.50	82.84	-87.73	-2,574.86	-2,858.03	2,660.10	2,495.93	164.17	16.203		
9,800.00	7,239.18	10,061.81	7,133.63	84.13	85.40	-87.73	-2,575.47	-2,958.03	2,659.96	2,490.58	169.38	15.705		
9,900.00	7,238.87	10,161.81	7,133.06	86.78	87.97	-87.72	-2,576.08	-3,058.02	2,659.82	2,485.21	174.61	15.233		
10,000.00	7,238.55	10,261.81	7,132.50	89.44	90.57	-87.71	-2,576.70	-3,158.02	2,659.67	2,479.80	179.87	14.786		
10,100.00	7,238.24	10,361.81	7,131.93	92.11	93.18	-87.71	-2,577.31	-3,258.02	2,659.53	2,474.36	185.16	14.363		
10,200.00	7,237.93	10,461.81	7,131.36	94.80	95.80	-87.70	-2,577.92	-3,358.01	2,659.38	2,468.91	190.48	13.962		
10,300.00	7,237.62	10,561.81	7,130.79	97.49	98.44	-87.70	-2,578.54	-3,458.01	2,659.24	2,463.43	195.81	13.581		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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		
10,400.00	7,237.31	10,661.81	7,130.22	100.19	101.09	-87.69	-2,579.15	-3,558.00	2,659.09	2,457.92	201.17	13.218		
10,500.00	7,236.99	10,761.81	7,129.65	102.90	103.75	-87.69	-2,579.76	-3,658.00	2,658.95	2,452.40	206.54	12.873		
10,600.00	7,236.68	10,861.81	7,129.08	105.62	106.42	-87.68	-2,580.37	-3,758.00	2,658.81	2,446.87	211.94	12.545		
10,700.00	7,236.37	10,961.81	7,128.52	108.35	109.11	-87.68	-2,580.99	-3,857.99	2,658.66	2,441.31	217.35	12.232		
10,800.00	7,236.06	11,061.81	7,127.95	111.08	111.80	-87.67	-2,581.60	-3,957.99	2,658.52	2,435.74	222.77	11.934		
10,900.00	7,235.75	11,161.81	7,127.38	113.82	114.49	-87.66	-2,582.21	-4,057.98	2,658.37	2,430.16	228.21	11.649		
11,000.00	7,235.44	11,261.81	7,126.81	116.56	117.20	-87.66	-2,582.83	-4,157.98	2,658.23	2,424.57	233.66	11.376		
11,100.00	7,235.12	11,361.81	7,126.24	119.31	119.91	-87.65	-2,583.44	-4,257.98	2,658.09	2,418.96	239.13	11.116		
11,200.00	7,234.81	11,461.81	7,125.67	122.07	122.63	-87.65	-2,584.05	-4,357.97	2,657.94	2,413.34	244.60	10.866		
11,300.00	7,234.50	11,561.81	7,125.11	124.83	125.36	-87.64	-2,584.66	-4,457.97	2,657.80	2,407.71	250.09	10.627		
11,400.00	7,234.19	11,661.80	7,124.54	127.59	128.09	-87.64	-2,585.28	-4,557.97	2,657.65	2,402.07	255.58	10.398		
11,500.00	7,233.88	11,761.80	7,123.97	130.36	130.83	-87.63	-2,585.89	-4,657.96	2,657.51	2,396.42	261.09	10.179		
11,600.00	7,233.56	11,861.80	7,123.40	133.13	133.57	-87.62	-2,586.50	-4,757.96	2,657.37	2,390.76	266.60	9.968		
11,700.00	7,233.25	11,961.80	7,122.83	135.91	136.32	-87.62	-2,587.12	-4,857.95	2,657.22	2,385.10	272.12	9.765		
11,800.00	7,232.94	12,061.80	7,122.26	138.68	139.07	-87.61	-2,587.73	-4,957.95	2,657.08	2,379.43	277.65	9.570		
11,900.00	7,232.63	12,161.80	7,121.69	141.47	141.83	-87.61	-2,588.34	-5,057.95	2,656.93	2,373.75	283.19	9.382		
12,000.00	7,232.32	12,261.80	7,121.13	144.25	144.59	-87.60	-2,588.96	-5,157.94	2,656.79	2,368.06	288.73	9.202		
12,100.00	7,232.00	12,361.80	7,120.56	147.04	147.35	-87.60	-2,589.57	-5,257.94	2,656.65	2,362.37	294.28	9.028		
12,200.00	7,231.69	12,461.80	7,119.99	149.83	150.12	-87.59	-2,590.18	-5,357.93	2,656.50	2,356.67	299.84	8.860		
12,300.00	7,231.38	12,561.80	7,119.42	152.62	152.89	-87.58	-2,590.79	-5,457.93	2,656.36	2,350.96	305.40	8.698		
12,400.00	7,231.07	12,661.80	7,118.85	155.42	155.67	-87.58	-2,591.41	-5,557.93	2,656.22	2,345.25	310.96	8.542		
12,500.00	7,230.76	12,761.80	7,118.28	158.22	158.44	-87.57	-2,592.02	-5,657.92	2,656.07	2,339.54	316.54	8.391		
12,600.00	7,230.44	12,861.80	7,117.72	161.01	161.22	-87.57	-2,592.63	-5,757.92	2,655.93	2,333.82	322.11	8.245		
12,700.00	7,230.13	12,961.80	7,117.15	163.82	164.01	-87.56	-2,593.25	-5,857.91	2,655.79	2,328.09	327.69	8.104		
12,800.00	7,229.82	13,061.80	7,116.58	166.62	166.79	-87.56	-2,593.86	-5,957.91	2,655.64	2,322.36	333.28	7.968		
12,900.00	7,229.51	13,161.80	7,116.01	169.43	169.58	-87.55	-2,594.47	-6,057.91	2,655.50	2,316.63	338.87	7.836		
13,000.00	7,229.20	13,261.80	7,115.44	172.23	172.37	-87.54	-2,595.09	-6,157.90	2,655.35	2,310.89	344.46	7.709		
13,100.00	7,228.88	13,361.80	7,114.87	175.04	175.16	-87.54	-2,595.70	-6,257.90	2,655.21	2,305.15	350.06	7.585		
13,200.00	7,228.57	13,461.80	7,114.30	177.85	177.96	-87.53	-2,596.31	-6,357.89	2,655.07	2,299.41	355.66	7.465		
13,300.00	7,228.26	13,561.80	7,113.74	180.66	180.75	-87.53	-2,596.92	-6,457.89	2,654.92	2,293.66	361.26	7.349		
13,400.00	7,227.95	13,661.80	7,113.17	183.48	183.55	-87.52	-2,597.54	-6,557.89	2,654.78	2,287.91	366.87	7.236		
13,500.00	7,227.64	13,761.80	7,112.60	186.29	186.35	-87.52	-2,598.15	-6,657.88	2,654.64	2,282.15	372.48	7.127		
13,600.00	7,227.33	13,861.79	7,112.03	189.11	189.15	-87.51	-2,598.76	-6,757.88	2,654.49	2,276.40	378.10	7.021		
13,700.00	7,227.01	13,961.79	7,111.46	191.92	191.96	-87.51	-2,599.38	-6,857.87	2,654.35	2,270.64	383.71	6.918		
13,800.00	7,226.70	14,061.79	7,110.89	194.74	194.76	-87.50	-2,599.99	-6,957.87	2,654.21	2,264.88	389.33	6.817		
13,900.00	7,226.39	14,161.79	7,110.33	197.56	197.57	-87.49	-2,600.60	-7,057.87	2,654.06	2,259.11	394.95	6.720		
14,000.00	7,226.08	14,261.79	7,109.76	200.38	200.38	-87.49	-2,601.21	-7,157.86	2,653.92	2,253.34	400.58	6.625		
14,100.00	7,225.77	14,361.79	7,109.19	203.21	203.19	-87.48	-2,601.83	-7,257.86	2,653.78	2,247.57	406.20	6.533		
14,200.00	7,225.45	14,461.79	7,108.62	206.03	206.00	-87.48	-2,602.44	-7,357.85	2,653.63	2,241.80	411.83	6.443		
14,300.00	7,225.14	14,561.79	7,108.05	208.85	208.81	-87.47	-2,603.05	-7,457.85	2,653.49	2,236.03	417.46	6.356		
14,400.00	7,224.83	14,661.79	7,107.48	211.68	211.63	-87.47	-2,603.67	-7,557.85	2,653.35	2,230.25	423.10	6.271		
14,500.00	7,224.52	14,761.79	7,106.92	214.50	214.44	-87.46	-2,604.28	-7,657.84	2,653.21	2,224.47	428.73	6.188		
14,600.00	7,224.21	14,861.79	7,106.35	217.33	217.26	-87.45	-2,604.89	-7,757.84	2,653.06	2,218.69	434.37	6.108		
14,700.00	7,223.89	14,961.79	7,105.78	220.16	220.07	-87.45	-2,605.51	-7,857.84	2,652.92	2,212.91	440.01	6.029		
14,800.00	7,223.58	15,061.79	7,105.21	222.98	222.89	-87.44	-2,606.12	-7,957.83	2,652.78	2,207.13	445.65	5.953		
14,900.00	7,223.27	15,161.79	7,104.64	225.81	225.71	-87.44	-2,606.73	-8,057.83	2,652.63	2,201.34	451.29	5.878		
14,987.41	7,223.00	15,249.20	7,104.14	228.28	228.18	-87.43	-2,607.27	-8,145.23	2,652.51	2,196.29	456.22	5.814 SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	2.00	0.00	3.28	3.28	-179.51	-359.93	-3.06	359.94					
100.00	100.00	102.00	100.00	3.28	3.29	-179.51	-359.93	-3.06	359.94	353.37	6.57	54.786		
200.00	200.00	198.00	200.00	3.34	3.34	-179.51	-359.93	-3.06	359.94	353.27	6.67	53.944	CC, ES	
300.00	300.00	287.04	289.03	3.44	3.42	-179.50	-361.25	-3.13	361.43	354.55	6.88	52.553		
400.00	400.00	375.70	377.59	3.60	3.55	-179.47	-365.30	-3.35	366.01	358.82	7.18	50.950		
500.00	500.00	464.02	465.65	3.81	3.72	-179.43	-372.06	-3.72	373.67	366.09	7.58	49.311		
600.00	600.00	551.84	552.95	4.05	3.91	-179.36	-381.47	-4.24	384.38	376.34	8.04	47.787		
700.00	699.98	638.87	639.16	4.32	4.14	-121.26	-393.43	-4.89	399.01	390.44	8.57	46.581		
800.00	799.94	724.93	724.00	4.61	4.39	-121.48	-407.81	-5.68	417.26	408.14	9.12	45.735		
900.00	899.89	809.97	807.37	4.92	4.67	-121.66	-424.52	-6.60	438.44	428.73	9.71	45.150		
1,000.00	999.85	893.86	889.10	5.25	4.98	-121.81	-443.42	-7.63	462.50	452.18	10.32	44.829		
1,100.00	1,099.80	976.48	969.01	5.60	5.30	-121.92	-464.36	-8.78	489.36	478.42	10.94	44.734		
1,200.00	1,199.76	1,057.73	1,046.97	5.96	5.64	-122.01	-487.18	-10.03	518.96	507.40	11.57	44.860		
1,300.00	1,299.72	1,137.50	1,122.86	6.33	6.00	-122.07	-511.73	-11.37	551.24	539.04	12.20	45.186		
1,400.00	1,399.67	1,215.73	1,196.58	6.71	6.37	-122.11	-537.85	-12.80	586.10	573.28	12.83	45.690		
1,500.00	1,499.63	1,292.34	1,268.07	7.10	6.75	-122.13	-565.36	-14.31	623.49	610.03	13.45	46.352		
1,600.00	1,599.58	1,367.28	1,337.25	7.49	7.15	-122.14	-594.11	-15.88	663.30	649.24	14.07	47.151		
1,700.00	1,699.54	1,449.04	1,411.98	7.88	7.60	-122.14	-627.23	-17.69	705.21	690.47	14.74	47.852		
1,800.00	1,799.50	1,539.69	1,494.72	8.28	8.11	-122.14	-664.21	-19.72	747.44	731.95	15.49	48.252		
1,900.00	1,899.45	1,630.34	1,577.45	8.69	8.64	-122.13	-701.19	-21.74	789.66	773.40	16.26	48.564		
2,000.00	1,999.41	1,720.99	1,660.19	9.10	9.18	-122.13	-738.17	-23.77	831.89	814.84	17.04	48.807		
2,100.00	2,099.36	1,811.63	1,742.93	9.51	9.72	-122.13	-775.15	-25.79	874.11	856.27	17.84	48.994		
2,200.00	2,199.32	1,902.28	1,825.66	9.92	10.27	-122.12	-812.13	-27.82	916.34	897.69	18.65	49.136		
2,300.00	2,299.28	2,007.07	1,908.40	10.34	10.91	-122.12	-849.11	-29.84	958.57	939.03	19.54	49.061		
2,400.00	2,399.23	2,083.58	1,991.14	10.75	11.39	-122.12	-886.09	-31.87	1,000.79	980.50	20.29	49.319		
2,500.00	2,499.19	2,174.22	2,073.87	11.17	11.95	-122.12	-923.07	-33.89	1,043.02	1,021.89	21.13	49.373		
2,600.00	2,599.14	2,264.87	2,156.61	11.60	12.52	-122.12	-960.05	-35.92	1,085.24	1,063.28	21.96	49.408		
2,700.00	2,699.10	2,355.52	2,239.35	12.02	13.09	-122.11	-997.03	-37.94	1,127.47	1,104.66	22.81	49.429		
2,800.00	2,799.06	2,446.17	2,322.08	12.44	13.67	-122.11	-1,034.01	-39.97	1,169.70	1,146.04	23.66	49.437		
2,900.00	2,899.01	2,536.81	2,404.82	12.87	14.25	-122.11	-1,070.99	-41.99	1,211.92	1,187.41	24.52	49.435		
3,000.00	2,998.97	2,627.46	2,487.56	13.29	14.83	-122.11	-1,107.97	-44.02	1,254.15	1,228.77	25.37	49.425		
3,100.00	3,098.92	2,718.11	2,570.29	13.72	15.41	-122.11	-1,144.95	-46.04	1,296.37	1,270.14	26.24	49.409		
3,200.00	3,198.88	2,808.76	2,653.03	14.14	15.99	-122.11	-1,181.93	-48.07	1,338.60	1,311.50	27.10	49.388		
3,300.00	3,298.84	2,900.60	2,735.77	14.57	16.58	-122.11	-1,218.91	-50.09	1,380.82	1,352.85	27.98	49.352		
3,400.00	3,398.79	2,990.05	2,818.50	15.00	17.16	-122.11	-1,255.89	-52.12	1,423.05	1,394.21	28.84	49.334		
3,500.00	3,498.75	3,080.70	2,901.24	15.43	17.75	-122.11	-1,292.87	-54.14	1,465.28	1,435.56	29.72	49.303		
3,600.00	3,598.70	3,171.35	2,983.98	15.86	18.34	-122.11	-1,329.85	-56.16	1,507.50	1,476.91	30.60	49.270		
3,700.00	3,698.66	3,261.99	3,066.71	16.29	18.93	-122.10	-1,366.83	-58.19	1,549.73	1,518.25	31.48	49.236		
3,800.00	3,798.62	3,352.64	3,149.45	16.72	19.52	-122.10	-1,403.81	-60.21	1,591.95	1,559.60	32.36	49.200		
3,900.00	3,898.57	3,443.29	3,232.19	17.15	20.11	-122.10	-1,440.79	-62.24	1,634.18	1,600.94	33.24	49.164		
4,000.00	3,998.53	3,533.94	3,314.92	17.59	20.70	-122.10	-1,477.77	-64.26	1,676.41	1,642.28	34.12	49.127		
4,100.00	4,098.48	3,624.58	3,397.66	18.02	21.29	-122.10	-1,514.75	-66.29	1,718.63	1,683.62	35.01	49.089		
4,200.00	4,198.44	3,715.23	3,480.40	18.45	21.89	-122.10	-1,551.73	-68.31	1,760.86	1,724.96	35.90	49.052		
4,300.00	4,298.40	3,805.88	3,563.13	18.88	22.48	-122.10	-1,588.71	-70.34	1,803.08	1,766.30	36.79	49.014		
4,400.00	4,398.35	3,903.47	3,645.87	19.32	23.12	-122.10	-1,625.69	-72.36	1,845.31	1,807.59	37.72	48.927		
4,500.00	4,498.31	3,987.17	3,728.61	19.75	23.67	-122.10	-1,662.67	-74.39	1,887.54	1,848.97	38.57	48.940		
4,600.00	4,598.26	4,077.82	3,811.34	20.19	24.26	-122.10	-1,699.65	-76.41	1,929.76	1,890.30	39.46	48.903		
4,700.00	4,698.22	4,168.47	3,894.08	20.62	24.86	-122.10	-1,736.63	-78.44	1,971.99	1,931.63	40.35	48.866		
4,800.00	4,798.18	4,259.12	3,976.82	21.05	25.46	-122.10	-1,773.61	-80.46	2,014.21	1,972.96	41.25	48.830		
4,900.00	4,898.13	4,349.76	4,059.55	21.49	26.05	-122.10	-1,810.59	-82.49	2,056.44	2,014.29	42.14	48.795		
5,000.00	4,998.09	4,440.41	4,142.29	21.92	26.65	-122.10	-1,847.57	-84.51	2,098.66	2,055.62	43.04	48.759		
5,100.00	5,098.04	4,531.06	4,225.03	22.36	27.25	-122.10	-1,884.55	-86.54	2,140.89	2,096.95	43.94	48.725		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	4,621.71	4,307.76	22.79	27.85	-122.10	-1,921.53	-88.56	2,183.12	2,138.28	44.84	48.691		
5,300.00	5,297.96	4,712.35	4,390.50	23.23	28.44	-122.10	-1,958.51	-90.58	2,225.34	2,179.61	45.74	48.657		
5,400.00	5,397.91	4,803.00	4,473.24	23.67	29.04	-122.10	-1,995.49	-92.61	2,267.57	2,220.93	46.63	48.624		
5,500.00	5,497.87	4,906.35	4,555.97	24.10	29.72	-122.09	-2,032.47	-94.63	2,309.79	2,262.19	47.61	48.519		
5,600.00	5,597.82	4,984.30	4,638.71	24.54	30.24	-122.09	-2,069.45	-96.66	2,352.02	2,303.58	48.44	48.559		
5,700.00	5,697.78	5,074.95	4,721.45	24.97	30.84	-122.09	-2,106.43	-98.68	2,394.25	2,344.91	49.34	48.528		
5,800.00	5,797.74	5,165.59	4,804.18	25.41	31.44	-122.09	-2,143.41	-100.71	2,436.47	2,386.23	50.24	48.497		
5,900.00	5,897.69	5,256.24	4,886.92	25.85	32.04	-122.09	-2,180.39	-102.73	2,478.70	2,427.55	51.14	48.466		
6,000.00	5,997.65	5,346.89	4,969.66	26.28	32.63	-122.09	-2,217.37	-104.76	2,520.92	2,468.88	52.05	48.436		
6,100.00	6,097.60	5,437.54	5,052.39	26.72	33.23	-122.09	-2,254.35	-106.78	2,563.15	2,510.20	52.95	48.407		
6,200.00	6,197.56	5,528.18	5,135.13	27.16	33.83	-122.09	-2,291.33	-108.81	2,605.37	2,551.52	53.85	48.378		
6,300.00	6,297.52	5,618.83	5,217.87	27.59	34.43	-122.09	-2,328.31	-110.83	2,647.60	2,592.84	54.76	48.350		
6,400.00	6,397.47	5,709.48	5,300.60	28.03	35.03	-122.09	-2,365.29	-112.86	2,689.83	2,634.16	55.66	48.322		
6,500.00	6,497.43	5,800.13	5,383.34	28.47	35.63	-122.09	-2,402.27	-114.88	2,732.05	2,675.48	56.57	48.294		
6,600.00	6,597.38	5,909.23	5,466.08	28.90	36.36	-122.09	-2,439.25	-116.91	2,774.28	2,716.70	57.58	48.181		
6,700.00	6,697.08	5,981.29	5,548.70	29.34	36.83	-93.33	-2,476.18	-118.93	2,816.42	2,758.03	58.39	48.238		
6,800.00	6,794.63	6,070.24	5,629.88	29.79	37.42	-86.19	-2,512.47	-120.91	2,857.81	2,798.52	59.29	48.197		
6,900.00	6,887.62	6,155.44	5,707.65	30.24	37.99	-81.95	-2,547.22	-122.82	2,897.73	2,837.54	60.19	48.142		
7,000.00	6,973.77	6,234.79	5,780.07	30.70	38.51	-78.70	-2,579.60	-124.59	2,935.70	2,874.63	61.07	48.069		
7,100.00	7,050.94	6,306.34	5,845.38	31.20	38.99	-76.03	-2,608.78	-126.19	2,971.40	2,909.45	61.95	47.966		
7,200.00	7,117.24	6,368.33	5,901.95	31.77	39.40	-73.76	-2,634.07	-127.57	3,004.68	2,941.83	62.84	47.811		
7,300.00	7,171.03	6,419.22	5,948.41	32.46	39.74	-71.74	-2,654.83	-128.71	3,035.42	2,971.63	63.79	47.584		
7,400.00	7,211.00	6,457.77	5,983.59	33.29	39.99	-69.89	-2,670.56	-129.57	3,063.55	2,998.74	64.81	47.271		
7,500.00	7,236.16	6,483.03	6,006.65	34.29	40.16	-68.13	-2,680.86	-130.13	3,088.92	3,023.02	65.90	46.872		
7,600.00	7,245.89	6,505.63	6,017.00	35.43	40.31	-66.43	-2,685.49	-130.39	3,111.32	3,044.21	67.11	46.362		
7,700.00	7,245.73	6,503.22	6,019.20	36.72	40.29	-66.23	-2,686.47	-130.44	3,132.82	3,064.53	68.29	45.873		
7,800.00	7,245.42	6,500.96	6,021.26	38.18	40.28	-66.28	-2,687.40	-130.49	3,157.28	3,087.68	69.61	45.359		
7,900.00	7,245.10	6,501.30	6,023.32	39.80	40.28	-66.32	-2,688.32	-130.54	3,184.70	3,113.66	71.04	44.833		
8,000.00	7,244.79	6,503.56	6,025.39	41.54	40.30	-66.36	-2,689.24	-130.59	3,214.99	3,142.44	72.55	44.314		
8,100.00	7,244.48	6,505.83	6,027.45	43.41	40.31	-66.40	-2,690.16	-130.64	3,248.07	3,173.95	74.12	43.822		
8,200.00	7,244.17	6,508.09	6,029.52	45.38	40.33	-66.45	-2,691.09	-130.69	3,283.87	3,208.14	75.72	43.366		
8,300.00	7,243.86	8,771.15	7,142.36	47.44	53.32	-88.24	-3,199.25	-1,455.06	3,294.72	3,195.72	99.00	33.279		
8,400.00	7,243.55	8,871.15	7,141.82	49.58	54.91	-88.23	-3,199.83	-1,555.06	3,294.55	3,191.49	103.06	31.966		
8,500.00	7,243.23	8,971.14	7,141.28	51.78	56.67	-88.23	-3,200.42	-1,655.05	3,294.38	3,187.10	107.28	30.709		
8,600.00	7,242.92	9,071.14	7,140.74	54.05	58.57	-88.22	-3,201.01	-1,755.05	3,294.21	3,182.59	111.62	29.512		
8,700.00	7,242.61	9,171.14	7,140.20	56.37	60.57	-88.22	-3,201.60	-1,855.05	3,294.03	3,177.95	116.08	28.376		
8,800.00	7,242.30	9,271.14	7,139.66	58.74	62.65	-88.21	-3,202.19	-1,955.04	3,293.86	3,173.21	120.65	27.300		
8,900.00	7,241.99	9,371.14	7,139.12	61.16	64.81	-88.21	-3,202.77	-2,055.04	3,293.69	3,168.38	125.31	26.284		
9,000.00	7,241.67	9,471.14	7,138.58	63.61	67.03	-88.21	-3,203.36	-2,155.04	3,293.52	3,163.46	130.06	25.323		
9,100.00	7,241.36	9,571.14	7,138.03	66.09	69.31	-88.20	-3,203.95	-2,255.03	3,293.34	3,158.47	134.88	24.417		
9,200.00	7,241.05	9,671.14	7,137.49	68.60	71.63	-88.20	-3,204.54	-2,355.03	3,293.17	3,153.41	139.77	23.562		
9,300.00	7,240.74	9,771.14	7,136.95	71.13	74.00	-88.19	-3,205.13	-2,455.02	3,293.00	3,148.29	144.71	22.755		
9,400.00	7,240.43	9,871.14	7,136.41	73.70	76.40	-88.19	-3,205.71	-2,555.02	3,292.83	3,143.11	149.72	21.994		
9,500.00	7,240.11	9,971.14	7,135.87	76.28	78.84	-88.19	-3,206.30	-2,655.02	3,292.66	3,137.89	154.77	21.275		
9,600.00	7,239.80	10,071.14	7,135.33	78.88	81.30	-88.18	-3,206.89	-2,755.01	3,292.48	3,132.62	159.86	20.596		
9,700.00	7,239.49	10,171.14	7,134.79	81.50	83.80	-88.18	-3,207.48	-2,855.01	3,292.31	3,127.31	165.00	19.954		
9,800.00	7,239.18	10,271.14	7,134.25	84.13	86.31	-88.17	-3,208.06	-2,955.01	3,292.14	3,121.97	170.17	19.346		
9,900.00	7,238.87	10,371.14	7,133.71	86.78	88.85	-88.17	-3,208.65	-3,055.00	3,291.97	3,116.59	175.38	18.771		
10,000.00	7,238.55	10,471.14	7,133.16	89.44	91.41	-88.17	-3,209.24	-3,155.00	3,291.79	3,111.18	180.61	18.226		
10,100.00	7,238.24	10,571.14	7,132.62	92.11	93.98	-88.16	-3,209.83	-3,255.00	3,291.62	3,105.74	185.88	17.708		
10,200.00	7,237.93	10,671.14	7,132.08	94.80	96.58	-88.16	-3,210.42	-3,354.99	3,291.45	3,100.28	191.17	17.217		
10,300.00	7,237.62	10,771.14	7,131.54	97.49	99.18	-88.15	-3,211.00	-3,454.99	3,291.28	3,094.79	196.48	16.751		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	10,871.14	7,131.00	100.19	101.81	-88.15	-3,211.59	-3,554.99	3,291.11	3,089.29	201.82	16.307		
10,500.00	7,236.99	10,971.14	7,130.46	102.90	104.44	-88.15	-3,212.18	-3,654.98	3,290.93	3,083.76	207.18	15.885		
10,600.00	7,236.68	11,071.14	7,129.92	105.62	107.09	-88.14	-3,212.77	-3,754.98	3,290.76	3,078.21	212.55	15.482		
10,700.00	7,236.37	11,171.14	7,129.38	108.35	109.74	-88.14	-3,213.36	-3,854.97	3,290.59	3,072.65	217.94	15.098		
10,800.00	7,236.06	11,271.14	7,128.84	111.08	112.41	-88.13	-3,213.94	-3,954.97	3,290.42	3,067.07	223.35	14.732		
10,900.00	7,235.75	11,371.13	7,128.30	113.82	115.09	-88.13	-3,214.53	-4,054.97	3,290.24	3,061.47	228.77	14.382		
11,000.00	7,235.44	11,471.13	7,127.75	116.56	117.77	-88.12	-3,215.12	-4,154.96	3,290.07	3,055.86	234.21	14.048		
11,100.00	7,235.12	11,571.13	7,127.21	119.31	120.47	-88.12	-3,215.71	-4,254.96	3,289.90	3,050.24	239.66	13.727		
11,200.00	7,234.81	11,671.13	7,126.67	122.07	123.17	-88.12	-3,216.30	-4,354.96	3,289.73	3,044.61	245.12	13.421		
11,300.00	7,234.50	11,771.13	7,126.13	124.83	125.88	-88.11	-3,216.88	-4,454.95	3,289.56	3,038.96	250.59	13.127		
11,400.00	7,234.19	11,871.13	7,125.59	127.59	128.59	-88.11	-3,217.47	-4,554.95	3,289.38	3,033.31	256.08	12.845		
11,500.00	7,233.88	11,971.13	7,125.05	130.36	131.31	-88.10	-3,218.06	-4,654.95	3,289.21	3,027.64	261.57	12.575		
11,600.00	7,233.56	12,071.13	7,124.51	133.13	134.04	-88.10	-3,218.65	-4,754.94	3,289.04	3,021.97	267.07	12.315		
11,700.00	7,233.25	12,171.13	7,123.97	135.91	136.77	-88.10	-3,219.24	-4,854.94	3,288.87	3,016.29	272.58	12.066		
11,800.00	7,232.94	12,271.13	7,123.43	138.68	139.51	-88.09	-3,219.82	-4,954.93	3,288.70	3,010.60	278.10	11.826		
11,900.00	7,232.63	12,371.13	7,122.88	141.47	142.25	-88.09	-3,220.41	-5,054.93	3,288.52	3,004.90	283.63	11.595		
12,000.00	7,232.32	12,471.13	7,122.34	144.25	145.00	-88.08	-3,221.00	-5,154.93	3,288.35	2,999.19	289.16	11.372		
12,100.00	7,232.00	12,571.13	7,121.80	147.04	147.75	-88.08	-3,221.59	-5,254.92	3,288.18	2,993.48	294.70	11.158		
12,200.00	7,231.69	12,671.13	7,121.26	149.83	150.51	-88.08	-3,222.18	-5,354.92	3,288.01	2,987.76	300.25	10.951		
12,300.00	7,231.38	12,771.13	7,120.72	152.62	153.27	-88.07	-3,222.76	-5,454.92	3,287.84	2,982.03	305.80	10.751		
12,400.00	7,231.07	12,871.13	7,120.18	155.42	156.03	-88.07	-3,223.35	-5,554.91	3,287.67	2,976.30	311.36	10.559		
12,500.00	7,230.76	12,971.13	7,119.64	158.22	158.80	-88.06	-3,223.94	-5,654.91	3,287.49	2,970.57	316.93	10.373		
12,600.00	7,230.44	13,071.13	7,119.10	161.01	161.57	-88.06	-3,224.53	-5,754.91	3,287.32	2,964.83	322.50	10.193		
12,700.00	7,230.13	13,171.13	7,118.56	163.82	164.34	-88.06	-3,225.11	-5,854.90	3,287.15	2,959.08	328.07	10.020		
12,800.00	7,229.82	13,271.13	7,118.01	166.62	167.12	-88.05	-3,225.70	-5,954.90	3,286.98	2,953.33	333.65	9.852		
12,900.00	7,229.51	13,371.13	7,117.47	169.43	169.89	-88.05	-3,226.29	-6,054.89	3,286.81	2,947.57	339.23	9.689		
13,000.00	7,229.20	13,471.13	7,116.93	172.23	172.68	-88.04	-3,226.88	-6,154.89	3,286.63	2,941.81	344.82	9.531		
13,100.00	7,228.88	13,571.13	7,116.39	175.04	175.46	-88.04	-3,227.47	-6,254.89	3,286.46	2,936.05	350.41	9.379		
13,200.00	7,228.57	13,671.12	7,115.85	177.85	178.24	-88.03	-3,228.05	-6,354.88	3,286.29	2,930.28	356.01	9.231		
13,300.00	7,228.26	13,771.12	7,115.31	180.66	181.03	-88.03	-3,228.64	-6,454.88	3,286.12	2,924.51	361.61	9.088		
13,400.00	7,227.95	13,871.12	7,114.77	183.48	183.82	-88.03	-3,229.23	-6,554.88	3,285.95	2,918.74	367.21	8.948		
13,500.00	7,227.64	13,971.12	7,114.23	186.29	186.62	-88.02	-3,229.82	-6,654.87	3,285.78	2,912.96	372.82	8.813		
13,600.00	7,227.33	14,071.12	7,113.69	189.11	189.41	-88.02	-3,230.41	-6,754.87	3,285.60	2,907.18	378.43	8.682		
13,700.00	7,227.01	14,171.12	7,113.14	191.92	192.21	-88.01	-3,230.99	-6,854.87	3,285.43	2,901.39	384.04	8.555		
13,800.00	7,226.70	14,271.12	7,112.60	194.74	195.01	-88.01	-3,231.58	-6,954.86	3,285.26	2,895.61	389.65	8.431		
13,900.00	7,226.39	14,371.12	7,112.06	197.56	197.81	-88.01	-3,232.17	-7,054.86	3,285.09	2,889.82	395.27	8.311		
14,000.00	7,226.08	14,471.12	7,111.52	200.38	200.61	-88.00	-3,232.76	-7,154.85	3,284.92	2,884.03	400.89	8.194		
14,100.00	7,225.77	14,571.12	7,110.98	203.21	203.41	-88.00	-3,233.35	-7,254.85	3,284.75	2,878.23	406.52	8.080		
14,200.00	7,225.45	14,671.12	7,110.44	206.03	206.22	-87.99	-3,233.93	-7,354.85	3,284.58	2,872.43	412.14	7.970		
14,300.00	7,225.14	14,771.12	7,109.90	208.85	209.02	-87.99	-3,234.52	-7,454.84	3,284.40	2,866.63	417.77	7.862		
14,400.00	7,224.83	14,871.12	7,109.36	211.68	211.83	-87.99	-3,235.11	-7,554.84	3,284.23	2,860.83	423.40	7.757		
14,500.00	7,224.52	14,971.12	7,108.82	214.50	214.64	-87.98	-3,235.70	-7,654.84	3,284.06	2,855.03	429.03	7.655		
14,600.00	7,224.21	15,071.12	7,108.28	217.33	217.45	-87.98	-3,236.29	-7,754.83	3,283.89	2,849.22	434.67	7.555		
14,700.00	7,223.89	15,171.12	7,107.73	220.16	220.26	-87.97	-3,236.87	-7,854.83	3,283.72	2,843.41	440.30	7.458		
14,800.00	7,223.58	15,271.12	7,107.19	222.98	223.07	-87.97	-3,237.46	-7,954.83	3,283.55	2,837.60	445.94	7.363		
14,900.00	7,223.27	15,371.12	7,106.65	225.81	225.89	-87.96	-3,238.05	-8,054.82	3,283.38	2,831.79	451.58	7.271		
14,987.41	7,223.00	15,458.53	7,106.18	228.28	228.35	-87.96	-3,238.56	-8,142.23	3,283.23	2,826.71	456.51	7.192 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	1.00	0.00	3.28	0.00	0.48	100.18	0.83	100.19					
100.00	100.00	101.00	100.00	3.28	0.18	0.48	100.18	0.83	100.19	96.72	3.46	28.918		
200.00	200.00	201.00	200.00	3.34	0.62	0.48	100.18	0.83	100.19	96.23	3.96	25.327		
300.00	300.00	301.00	300.00	3.44	1.06	0.48	100.18	0.83	100.19	95.69	4.50	22.252		
400.00	400.00	401.00	400.00	3.60	1.50	0.48	100.18	0.83	100.19	95.09	5.10	19.646		
500.00	500.00	501.00	500.00	3.81	1.93	0.48	100.18	0.83	100.19	94.45	5.74	17.451	CC, ES	
600.00	600.00	597.58	596.56	4.05	2.36	0.34	101.83	0.61	101.89	95.47	6.42	15.879		
700.00	699.98	694.03	692.88	4.32	2.79	58.67	106.69	-0.05	106.04	98.90	7.13	14.870		
800.00	799.94	790.17	788.67	4.61	3.21	59.30	114.73	-1.14	112.86	104.98	7.87	14.336		
900.00	899.89	885.77	883.61	4.92	3.64	59.61	125.88	-2.66	122.98	114.34	8.63	14.247		
1,000.00	999.85	980.64	977.39	5.25	4.07	59.64	140.04	-4.59	136.36	126.96	9.40	14.506		
1,100.00	1,099.80	1,076.80	1,071.97	5.60	4.50	59.49	157.19	-6.92	152.63	142.46	10.17	15.013		
1,200.00	1,199.76	1,175.38	1,168.86	5.96	4.94	59.34	175.25	-9.38	169.39	158.44	10.95	15.471		
1,300.00	1,299.72	1,273.97	1,265.74	6.33	5.38	59.21	193.30	-11.83	186.15	174.40	11.75	15.848		
1,400.00	1,399.67	1,372.55	1,362.63	6.71	5.84	59.11	211.35	-14.29	202.91	190.35	12.55	16.162		
1,500.00	1,499.63	1,471.13	1,459.52	7.10	6.29	59.02	229.40	-16.74	219.67	206.30	13.37	16.426		
1,600.00	1,599.58	1,569.72	1,556.40	7.49	6.75	58.95	247.46	-19.20	236.43	222.23	14.20	16.649		
1,700.00	1,699.54	1,668.30	1,653.29	7.88	7.21	58.88	265.51	-21.66	253.19	238.16	15.04	16.839		
1,800.00	1,799.50	1,766.89	1,750.18	8.28	7.68	58.82	283.56	-24.11	269.96	254.08	15.88	17.002		
1,900.00	1,899.45	1,865.47	1,847.06	8.69	8.14	58.77	301.62	-26.57	286.72	269.99	16.72	17.144		
2,000.00	1,999.41	1,964.06	1,943.95	9.10	8.60	58.73	319.67	-29.02	303.48	285.91	17.58	17.267		
2,100.00	2,099.36	2,062.64	2,040.84	9.51	9.07	58.69	337.72	-31.48	320.24	301.81	18.43	17.375		
2,200.00	2,199.32	2,161.23	2,137.72	9.92	9.53	58.65	355.78	-33.94	337.01	317.72	19.29	17.470		
2,300.00	2,299.28	2,259.81	2,234.61	10.34	10.00	58.62	373.83	-36.39	353.77	333.62	20.15	17.555		
2,400.00	2,399.23	2,358.40	2,331.50	10.75	10.47	58.59	391.88	-38.85	370.53	349.52	21.02	17.630		
2,500.00	2,499.19	2,456.98	2,428.38	11.17	10.93	58.56	409.94	-41.30	387.30	365.41	21.88	17.698		
2,600.00	2,599.14	2,555.57	2,525.27	11.60	11.40	58.53	427.99	-43.76	404.06	381.31	22.75	17.759		
2,700.00	2,699.10	2,654.15	2,622.16	12.02	11.87	58.51	446.04	-46.22	420.82	397.20	23.62	17.813		
2,800.00	2,799.06	2,752.74	2,719.04	12.44	12.34	58.49	464.09	-48.67	437.59	413.09	24.50	17.863		
2,900.00	2,899.01	2,851.32	2,815.93	12.87	12.80	58.47	482.15	-51.13	454.35	428.98	25.37	17.908		
3,000.00	2,998.97	2,949.91	2,912.82	13.29	13.27	58.45	500.20	-53.58	471.11	444.87	26.25	17.949		
3,100.00	3,098.92	3,048.49	3,009.70	13.72	13.74	58.43	518.25	-56.04	487.88	460.75	27.12	17.987		
3,200.00	3,198.88	3,147.08	3,106.59	14.14	14.21	58.42	536.31	-58.50	504.64	476.64	28.00	18.021		
3,300.00	3,298.84	3,245.66	3,203.48	14.57	14.68	58.40	554.36	-60.95	521.41	492.52	28.88	18.053		
3,400.00	3,398.79	3,344.25	3,300.36	15.00	15.15	58.39	572.41	-63.41	538.17	508.41	29.76	18.083		
3,500.00	3,498.75	3,442.83	3,397.25	15.43	15.62	58.38	590.47	-65.86	554.93	524.29	30.64	18.110		
3,600.00	3,598.70	3,541.42	3,494.14	15.86	16.09	58.36	608.52	-68.32	571.70	540.17	31.52	18.135		
3,700.00	3,698.66	3,640.00	3,591.02	16.29	16.56	58.35	626.57	-70.78	588.46	556.05	32.41	18.158		
3,800.00	3,798.62	3,738.58	3,687.91	16.72	17.02	58.34	644.63	-73.23	605.23	571.93	33.29	18.180		
3,900.00	3,898.57	3,837.17	3,784.80	17.15	17.49	58.33	662.68	-75.69	621.99	587.81	34.17	18.200		
4,000.00	3,998.53	3,935.75	3,881.68	17.59	17.96	58.32	680.73	-78.14	638.75	603.69	35.06	18.219		
4,100.00	4,098.48	4,034.34	3,978.57	18.02	18.43	58.31	698.78	-80.60	655.52	619.57	35.94	18.237		
4,200.00	4,198.44	4,132.92	4,075.46	18.45	18.90	58.30	716.84	-83.06	672.28	635.45	36.83	18.254		
4,300.00	4,298.40	4,231.51	4,172.34	18.88	19.37	58.29	734.89	-85.51	689.05	651.33	37.72	18.269		
4,400.00	4,398.35	4,330.09	4,269.23	19.32	19.84	58.29	752.94	-87.97	705.81	667.21	38.60	18.284		
4,500.00	4,498.31	4,428.68	4,366.12	19.75	20.31	58.28	771.00	-90.42	722.57	683.08	39.49	18.298		
4,600.00	4,598.26	4,527.26	4,463.00	20.19	20.78	58.27	789.05	-92.88	739.34	698.96	40.38	18.311		
4,700.00	4,698.22	4,625.85	4,559.89	20.62	21.25	58.26	807.10	-95.34	756.10	714.84	41.26	18.323		
4,800.00	4,798.18	4,724.43	4,656.78	21.05	21.72	58.26	825.16	-97.79	772.87	730.71	42.15	18.335		
4,900.00	4,898.13	4,823.02	4,753.66	21.49	22.19	58.25	843.21	-100.25	789.63	746.59	43.04	18.346		
5,000.00	4,998.09	4,921.60	4,850.55	21.92	22.66	58.24	861.26	-102.70	806.39	762.46	43.93	18.357		
5,100.00	5,098.04	5,020.19	4,947.44	22.36	23.13	58.24	879.32	-105.16	823.16	778.34	44.82	18.367		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	5,198.00	5,118.77	5,044.32	22.79	23.60	58.23	897.37	-107.62	839.92	794.21	45.71	18.376		
5,300.00	5,297.96	5,217.36	5,141.21	23.23	24.07	58.23	915.42	-110.07	856.69	810.09	46.60	18.385		
5,400.00	5,397.91	5,315.94	5,238.10	23.67	24.54	58.22	933.47	-112.53	873.45	825.96	47.49	18.394		
5,500.00	5,497.87	5,414.53	5,334.98	24.10	25.01	58.22	951.53	-114.98	890.21	841.84	48.38	18.402		
5,600.00	5,597.82	5,513.11	5,431.87	24.54	25.48	58.21	969.58	-117.44	906.98	857.71	49.27	18.410		
5,700.00	5,697.78	5,611.70	5,528.76	24.97	25.95	58.21	987.63	-119.89	923.74	873.59	50.16	18.417		
5,800.00	5,797.74	5,710.28	5,625.64	25.41	26.43	58.20	1,005.69	-122.35	940.51	889.46	51.05	18.424		
5,900.00	5,897.69	5,808.86	5,722.53	25.85	26.90	58.20	1,023.74	-124.81	957.27	905.33	51.94	18.431		
6,000.00	5,997.65	5,907.45	5,819.41	26.28	27.37	58.19	1,041.79	-127.26	974.03	921.21	52.83	18.437		
6,100.00	6,097.60	6,006.03	5,916.30	26.72	27.84	58.19	1,059.85	-129.72	990.80	937.08	53.72	18.444		
6,200.00	6,197.56	6,104.62	6,013.19	27.16	28.31	58.19	1,077.90	-132.17	1,007.56	952.95	54.61	18.450		
6,300.00	6,297.52	6,203.20	6,110.07	27.59	28.78	58.18	1,095.95	-134.63	1,024.33	968.82	55.50	18.455		
6,400.00	6,397.47	6,301.79	6,206.96	28.03	29.25	58.18	1,114.01	-137.09	1,041.09	984.70	56.39	18.461		
6,500.00	6,497.43	6,400.37	6,303.85	28.47	29.72	58.17	1,132.06	-139.54	1,057.86	1,000.57	57.29	18.466		
6,600.00	6,597.38	6,501.04	6,400.73	28.90	30.20	58.17	1,150.11	-142.00	1,074.62	1,016.43	58.19	18.468		
6,700.00	6,697.08	6,597.39	6,497.47	29.34	30.66	83.13	1,168.14	-144.45	1,091.41	1,032.34	59.07	18.476		
6,800.00	6,794.63	6,694.05	6,592.46	29.79	31.12	86.02	1,185.84	-146.86	1,108.28	1,048.31	59.97	18.481		
6,900.00	6,887.62	6,791.74	6,688.42	30.24	31.59	87.17	1,203.70	-150.56	1,125.51	1,064.61	60.91	18.480		
7,000.00	6,973.77	6,901.34	6,794.45	30.70	32.11	88.05	1,223.20	-169.52	1,142.62	1,080.64	61.98	18.434		
7,100.00	7,050.94	7,019.68	6,903.56	31.20	32.64	88.77	1,242.92	-210.38	1,158.89	1,095.74	63.15	18.352		
7,200.00	7,117.24	7,147.92	7,011.25	31.77	33.19	89.43	1,261.98	-276.94	1,173.60	1,109.20	64.40	18.224		
7,300.00	7,171.03	7,286.61	7,110.48	32.46	33.79	90.02	1,279.01	-371.93	1,185.97	1,120.16	65.80	18.023		
7,400.00	7,211.00	7,435.04	7,191.68	33.29	34.61	90.48	1,292.23	-495.07	1,195.16	1,127.65	67.52	17.702		
7,500.00	7,236.16	7,590.73	7,244.44	34.29	35.89	90.73	1,299.77	-640.94	1,200.47	1,130.75	69.72	17.218		
7,600.00	7,245.89	7,746.04	7,260.98	35.43	37.57	90.71	1,300.43	-794.99	1,201.46	1,129.01	72.45	16.582		
7,700.00	7,245.73	7,846.04	7,260.56	36.72	38.85	90.71	1,298.77	-894.97	1,200.57	1,125.52	75.05	15.997		
7,800.00	7,245.42	7,946.03	7,260.14	38.18	40.28	90.70	1,297.11	-994.95	1,199.67	1,121.71	77.96	15.388		
7,900.00	7,245.10	8,046.03	7,259.72	39.80	41.86	90.70	1,295.45	-1,094.93	1,198.78	1,117.61	81.17	14.769		
8,000.00	7,244.79	8,146.03	7,259.30	41.54	43.57	90.70	1,293.79	-1,194.91	1,197.89	1,113.25	84.64	14.152		
8,100.00	7,244.48	8,246.02	7,258.88	43.41	45.39	90.69	1,292.13	-1,294.89	1,197.00	1,108.65	88.35	13.548		
8,200.00	7,244.17	8,346.02	7,258.46	45.38	47.32	90.69	1,290.48	-1,394.87	1,196.10	1,103.84	92.26	12.964		
8,300.00	7,243.86	8,446.01	7,258.04	47.44	49.34	90.68	1,288.82	-1,494.85	1,195.21	1,098.86	96.36	12.404		
8,400.00	7,243.55	8,546.01	7,257.62	49.58	51.43	90.68	1,287.16	-1,594.84	1,194.32	1,093.71	100.61	11.871		
8,500.00	7,243.23	8,646.01	7,257.20	51.78	53.60	90.67	1,285.50	-1,694.82	1,193.43	1,088.43	105.00	11.366		
8,600.00	7,242.92	8,746.00	7,256.78	54.05	55.83	90.67	1,283.84	-1,794.80	1,192.54	1,083.03	109.51	10.890		
8,700.00	7,242.61	8,846.00	7,256.35	56.37	58.12	90.66	1,282.18	-1,894.78	1,191.64	1,077.51	114.13	10.441		
8,800.00	7,242.30	8,945.99	7,255.93	58.74	60.45	90.66	1,280.52	-1,994.76	1,190.75	1,071.91	118.84	10.019		
8,900.00	7,241.99	9,045.99	7,255.51	61.16	62.83	90.65	1,278.87	-2,094.74	1,189.86	1,066.22	123.64	9.623		
9,000.00	7,241.67	9,145.99	7,255.09	63.61	65.24	90.65	1,277.21	-2,194.72	1,188.97	1,060.45	128.52	9.251		
9,100.00	7,241.36	9,245.98	7,254.67	66.09	67.69	90.64	1,275.55	-2,294.70	1,188.07	1,054.62	133.46	8.902		
9,200.00	7,241.05	9,345.98	7,254.25	68.60	70.17	90.64	1,273.89	-2,394.69	1,187.18	1,048.72	138.46	8.574		
9,300.00	7,240.74	9,445.97	7,253.83	71.13	72.68	90.63	1,272.23	-2,494.67	1,186.29	1,042.78	143.51	8.266		
9,400.00	7,240.43	9,545.97	7,253.41	73.70	75.21	90.63	1,270.57	-2,594.65	1,185.40	1,036.79	148.61	7.976		
9,500.00	7,240.11	9,645.97	7,252.99	76.28	77.76	90.62	1,268.91	-2,694.63	1,184.51	1,030.75	153.76	7.704		
9,600.00	7,239.80	9,745.96	7,252.57	78.88	80.34	90.62	1,267.26	-2,794.61	1,183.61	1,024.67	158.94	7.447		
9,700.00	7,239.49	9,845.96	7,252.15	81.50	82.93	90.62	1,265.60	-2,894.59	1,182.72	1,018.56	164.16	7.205		
9,800.00	7,239.18	9,945.95	7,251.73	84.13	85.54	90.61	1,263.94	-2,994.57	1,181.83	1,012.42	169.41	6.976		
9,900.00	7,238.87	10,045.95	7,251.31	86.78	88.17	90.61	1,262.28	-3,094.56	1,180.94	1,006.25	174.69	6.760		
10,000.00	7,238.55	10,145.95	7,250.89	89.44	90.81	90.60	1,260.62	-3,194.54	1,180.04	1,000.05	179.99	6.556		
10,100.00	7,238.24	10,245.94	7,250.47	92.11	93.46	90.60	1,258.96	-3,294.52	1,179.15	993.83	185.32	6.363		
10,200.00	7,237.93	10,345.94	7,250.05	94.80	96.12	90.59	1,257.30	-3,394.50	1,178.26	987.58	190.68	6.179		
10,300.00	7,237.62	10,445.93	7,249.63	97.49	98.80	90.59	1,255.65	-3,494.48	1,177.37	981.32	196.05	6.005		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design HARVESTERS STATE 7-15 PAD - HARVESTERS 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	7,237.31	10,545.93	7,249.21	100.19	101.48	90.58	1,253.99	-3,594.46	1,176.48	975.04	201.44	5.840		
10,500.00	7,236.99	10,645.92	7,248.79	102.90	104.17	90.58	1,252.33	-3,694.44	1,175.58	968.73	206.85	5.683		
10,600.00	7,236.68	10,745.92	7,248.37	105.62	106.88	90.57	1,250.67	-3,794.42	1,174.69	962.42	212.27	5.534		
10,700.00	7,236.37	10,845.92	7,247.95	108.35	109.59	90.57	1,249.01	-3,894.41	1,173.80	956.09	217.71	5.391		
10,800.00	7,236.06	10,945.91	7,247.53	111.08	112.30	90.56	1,247.35	-3,994.39	1,172.91	949.74	223.17	5.256		
10,900.00	7,235.75	11,045.91	7,247.11	113.82	115.03	90.56	1,245.69	-4,094.37	1,172.01	943.38	228.63	5.126		
11,000.00	7,235.44	11,145.90	7,246.69	116.56	117.75	90.55	1,244.04	-4,194.35	1,171.12	937.01	234.11	5.002		
11,100.00	7,235.12	11,245.90	7,246.27	119.31	120.49	90.55	1,242.38	-4,294.33	1,170.23	930.63	239.60	4.884		
11,200.00	7,234.81	11,345.90	7,245.85	122.07	123.23	90.54	1,240.72	-4,394.31	1,169.34	924.24	245.10	4.771		
11,300.00	7,234.50	11,445.89	7,245.43	124.83	125.98	90.54	1,239.06	-4,494.29	1,168.45	917.84	250.61	4.662		
11,400.00	7,234.19	11,545.89	7,245.01	127.59	128.73	90.53	1,237.40	-4,594.28	1,167.55	911.43	256.12	4.559		
11,500.00	7,233.88	11,645.88	7,244.59	130.36	131.48	90.53	1,235.74	-4,694.26	1,166.66	905.01	261.65	4.459		
11,600.00	7,233.56	11,745.88	7,244.17	133.13	134.24	90.52	1,234.08	-4,794.24	1,165.77	898.59	267.18	4.363		
11,700.00	7,233.25	11,845.88	7,243.75	135.91	137.01	90.52	1,232.43	-4,894.22	1,164.88	892.15	272.73	4.271		
11,800.00	7,232.94	11,945.87	7,243.33	138.68	139.77	90.51	1,230.77	-4,994.20	1,163.99	885.71	278.27	4.183		
11,900.00	7,232.63	12,045.87	7,242.91	141.47	142.54	90.51	1,229.11	-5,094.18	1,163.09	879.26	283.83	4.098		
12,000.00	7,232.32	12,145.86	7,242.49	144.25	145.32	90.50	1,227.45	-5,194.16	1,162.20	872.81	289.39	4.016		
12,100.00	7,232.00	12,245.86	7,242.06	147.04	148.09	90.50	1,225.79	-5,294.14	1,161.31	866.35	294.96	3.937		
12,200.00	7,231.69	12,345.86	7,241.64	149.83	150.87	90.49	1,224.13	-5,394.13	1,160.42	859.89	300.53	3.861		
12,300.00	7,231.38	12,445.85	7,241.22	152.62	153.66	90.49	1,222.48	-5,494.11	1,159.53	853.42	306.11	3.788		
12,400.00	7,231.07	12,545.85	7,240.80	155.42	156.44	90.48	1,220.82	-5,594.09	1,158.63	846.94	311.69	3.717		
12,500.00	7,230.76	12,645.84	7,240.38	158.22	159.23	90.48	1,219.16	-5,694.07	1,157.74	840.46	317.28	3.649		
12,600.00	7,230.44	12,745.84	7,239.96	161.01	162.02	90.47	1,217.50	-5,794.05	1,156.85	833.98	322.87	3.583		
12,700.00	7,230.13	12,845.84	7,239.54	163.82	164.81	90.47	1,215.84	-5,894.03	1,155.96	827.49	328.47	3.519		
12,800.00	7,229.82	12,945.83	7,239.12	166.62	167.61	90.46	1,214.18	-5,994.01	1,155.07	821.00	334.07	3.458		
12,900.00	7,229.51	13,045.83	7,238.70	169.43	170.40	90.46	1,212.52	-6,094.00	1,154.17	814.50	339.67	3.398		
13,000.00	7,229.20	13,145.82	7,238.28	172.23	173.20	90.45	1,210.87	-6,193.98	1,153.28	808.01	345.28	3.340		
13,100.00	7,228.88	13,245.82	7,237.86	175.04	176.00	90.45	1,209.21	-6,293.96	1,152.39	801.50	350.89	3.284		
13,200.00	7,228.57	13,345.82	7,237.44	177.85	178.80	90.44	1,207.55	-6,393.94	1,151.50	795.00	356.50	3.230		
13,300.00	7,228.26	13,445.81	7,237.02	180.66	181.61	90.44	1,205.89	-6,493.92	1,150.61	788.49	362.12	3.177		
13,400.00	7,227.95	13,545.81	7,236.60	183.48	184.41	90.43	1,204.23	-6,593.90	1,149.71	781.98	367.74	3.126		
13,500.00	7,227.64	13,645.80	7,236.18	186.29	187.22	90.43	1,202.57	-6,693.88	1,148.82	775.46	373.36	3.077		
13,600.00	7,227.33	13,745.80	7,235.76	189.11	190.03	90.42	1,200.91	-6,793.86	1,147.93	768.94	378.99	3.029		
13,700.00	7,227.01	13,845.80	7,235.34	191.92	192.83	90.42	1,199.26	-6,893.85	1,147.04	762.42	384.62	2.982		
13,800.00	7,226.70	13,945.79	7,234.92	194.74	195.65	90.41	1,197.60	-6,993.83	1,146.15	755.90	390.25	2.937		
13,900.00	7,226.39	14,045.79	7,234.50	197.56	198.46	90.41	1,195.94	-7,093.81	1,145.26	749.38	395.88	2.893		
14,000.00	7,226.08	14,145.78	7,234.08	200.38	201.27	90.40	1,194.28	-7,193.79	1,144.36	742.85	401.52	2.850		
14,100.00	7,225.77	14,245.78	7,233.66	203.21	204.09	90.40	1,192.62	-7,293.77	1,143.47	736.32	407.15	2.808		
14,200.00	7,225.45	14,345.78	7,233.24	206.03	206.90	90.39	1,190.96	-7,393.75	1,142.58	729.79	412.79	2.768		
14,300.00	7,225.14	14,445.77	7,232.82	208.85	209.72	90.39	1,189.30	-7,493.73	1,141.69	723.25	418.43	2.728		
14,400.00	7,224.83	14,545.77	7,232.40	211.68	212.54	90.38	1,187.65	-7,593.72	1,140.80	716.72	424.08	2.690		
14,500.00	7,224.52	14,645.76	7,231.98	214.50	215.35	90.38	1,185.99	-7,693.70	1,139.90	710.18	429.72	2.653		
14,600.00	7,224.21	14,745.76	7,231.56	217.33	218.17	90.37	1,184.33	-7,793.68	1,139.01	703.64	435.37	2.616		
14,700.00	7,223.89	14,845.76	7,231.14	220.16	220.99	90.37	1,182.67	-7,893.66	1,138.12	697.10	441.02	2.581		
14,800.00	7,223.58	14,945.75	7,230.72	222.98	223.82	90.36	1,181.01	-7,993.64	1,137.23	690.56	446.67	2.546		
14,900.00	7,223.27	15,045.75	7,230.30	225.81	226.64	90.36	1,179.35	-8,093.62	1,136.34	684.01	452.32	2.512		
14,980.49	7,223.02	15,116.21	7,230.00	228.09	228.63	90.35	1,178.18	-8,164.08	1,135.66	679.02	456.64	2.487		
14,987.41	7,223.00	15,116.21	7,230.00	228.28	228.63	90.35	1,178.18	-8,164.08	1,135.68	678.83	456.85	2.486 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	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	300.00	300.00	300.00	3.44	3.44	0.53	60.11	0.56	60.12	53.23	6.89	8.726		
400.00	400.00	400.00	400.00	3.60	3.60	0.53	60.11	0.56	60.12	52.91	7.21	8.342		
500.00	500.00	500.00	500.00	3.81	3.81	0.53	60.11	0.56	60.12	52.51	7.61	7.898		
600.00	600.00	600.00	600.00	4.05	4.05	0.53	60.11	0.56	60.12	52.02	8.09	7.429 CC, ES		
700.00	699.98	697.99	697.97	4.32	4.31	59.48	61.74	0.17	60.89	52.26	8.63	7.055		
800.00	799.94	795.86	795.71	4.61	4.61	60.56	66.62	-1.00	64.35	55.13	9.22	6.977		
900.00	899.89	893.43	892.91	4.92	4.92	60.73	74.72	-2.94	71.10	61.24	9.86	7.211		
1,000.00	999.85	1,008.00	990.85	5.25	5.31	60.32	85.58	-5.54	80.54	69.96	10.58	7.614		
1,100.00	1,099.80	1,108.47	1,089.70	5.60	5.66	59.94	96.82	-8.24	90.25	78.98	11.27	8.006		
1,200.00	1,199.76	1,208.95	1,188.56	5.96	6.03	59.63	108.06	-10.93	99.97	87.97	12.00	8.334		
1,300.00	1,299.72	1,309.42	1,287.41	6.33	6.41	59.38	119.30	-13.62	109.69	96.95	12.74	8.610		
1,400.00	1,399.67	1,409.90	1,386.26	6.71	6.80	59.17	130.54	-16.31	119.41	105.91	13.50	8.844		
1,500.00	1,499.63	1,489.63	1,485.11	7.10	7.11	58.99	141.78	-19.00	129.14	114.94	14.20	9.097		
1,600.00	1,599.58	1,589.15	1,583.96	7.49	7.51	58.84	153.02	-21.70	138.86	123.88	14.98	9.270		
1,700.00	1,699.54	1,688.68	1,682.82	7.88	7.91	58.71	164.25	-24.39	148.59	132.81	15.78	9.419		
1,800.00	1,799.50	1,788.20	1,781.67	8.28	8.32	58.59	175.49	-27.08	158.32	141.74	16.58	9.549		
1,900.00	1,899.45	1,887.73	1,880.52	8.69	8.73	58.49	186.73	-29.77	168.04	150.65	17.39	9.662		
2,000.00	1,999.41	1,987.25	1,979.37	9.10	9.15	58.40	197.97	-32.47	177.77	159.56	18.21	9.761		
2,100.00	2,099.36	2,086.78	2,078.22	9.51	9.57	58.31	209.21	-35.16	187.50	168.46	19.04	9.849		
2,200.00	2,199.32	2,186.30	2,177.08	9.92	9.99	58.24	220.45	-37.85	197.23	177.36	19.87	9.927		
2,300.00	2,299.28	2,285.83	2,275.93	10.34	10.41	58.17	231.69	-40.54	206.96	186.25	20.70	9.996		
2,400.00	2,399.23	2,385.36	2,374.78	10.75	10.84	58.11	242.93	-43.23	216.69	195.14	21.54	10.058		
2,500.00	2,499.19	2,484.88	2,473.63	11.17	11.27	58.05	254.17	-45.93	226.42	204.03	22.39	10.114		
2,600.00	2,599.14	2,584.41	2,572.48	11.60	11.70	58.00	265.41	-48.62	236.14	212.91	23.23	10.164		
2,700.00	2,699.10	2,683.93	2,671.34	12.02	12.13	57.95	276.65	-51.31	245.87	221.79	24.08	10.210		
2,800.00	2,799.06	2,783.46	2,770.19	12.44	12.57	57.91	287.89	-54.00	255.60	230.67	24.93	10.251		
2,900.00	2,899.01	2,882.98	2,869.04	12.87	13.00	57.87	299.13	-56.70	265.33	239.55	25.79	10.289		
3,000.00	2,998.97	2,982.51	2,967.89	13.29	13.44	57.83	310.37	-59.39	275.06	248.42	26.64	10.324		
3,100.00	3,098.92	3,082.03	3,066.74	13.72	13.87	57.80	321.61	-62.08	284.79	257.29	27.50	10.355		
3,200.00	3,198.88	3,181.56	3,165.60	14.14	14.31	57.77	332.85	-64.77	294.52	266.16	28.36	10.384		
3,300.00	3,298.84	3,281.08	3,264.45	14.57	14.75	57.73	344.09	-67.47	304.26	275.03	29.22	10.411		
3,400.00	3,398.79	3,380.61	3,363.30	15.00	15.19	57.71	355.33	-70.16	313.99	283.90	30.09	10.436		
3,500.00	3,498.75	3,480.13	3,462.15	15.43	15.63	57.68	366.57	-72.85	323.72	292.76	30.95	10.459		
3,600.00	3,598.70	3,579.66	3,561.00	15.86	16.07	57.65	377.81	-75.54	333.45	301.63	31.82	10.480		
3,700.00	3,698.66	3,679.18	3,659.86	16.29	16.51	57.63	389.05	-78.23	343.18	310.49	32.68	10.500		
3,800.00	3,798.62	3,778.71	3,758.71	16.72	16.95	57.61	400.29	-80.93	352.91	319.36	33.55	10.518		
3,900.00	3,898.57	3,878.24	3,857.56	17.15	17.39	57.58	411.53	-83.62	362.64	328.22	34.42	10.535		
4,000.00	3,998.53	3,977.76	3,956.41	17.59	17.83	57.56	422.76	-86.31	372.37	337.08	35.29	10.551		
4,100.00	4,098.48	4,077.29	4,055.26	18.02	18.27	57.55	434.00	-89.00	382.10	345.94	36.16	10.566		
4,200.00	4,198.44	4,176.81	4,154.12	18.45	18.72	57.53	445.24	-91.70	391.83	354.80	37.03	10.580		
4,300.00	4,298.40	4,276.34	4,252.97	18.88	19.16	57.51	456.48	-94.39	401.56	363.66	37.91	10.594		
4,400.00	4,398.35	4,375.86	4,351.82	19.32	19.60	57.49	467.72	-97.08	411.29	372.52	38.78	10.606		
4,500.00	4,498.31	4,475.39	4,450.67	19.75	20.05	57.48	478.96	-99.77	421.03	381.37	39.65	10.618		
4,600.00	4,598.26	4,574.91	4,549.52	20.19	20.49	57.46	490.20	-102.46	430.76	390.23	40.53	10.629		
4,700.00	4,698.22	4,674.44	4,648.38	20.62	20.94	57.45	501.44	-105.16	440.49	399.09	41.40	10.640		
4,800.00	4,798.18	4,773.96	4,747.23	21.05	21.38	57.43	512.68	-107.85	450.22	407.94	42.28	10.650		
4,900.00	4,898.13	4,873.49	4,846.08	21.49	21.83	57.42	523.92	-110.54	459.95	416.80	43.15	10.659		
5,000.00	4,998.09	4,973.01	4,944.93	21.92	22.27	57.41	535.16	-113.23	469.68	425.65	44.03	10.668		
5,100.00	5,098.04	5,072.54	5,043.78	22.36	22.72	57.39	546.40	-115.93	479.41	434.51	44.90	10.676		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,172.06	5,142.64	22.79	23.16	57.38	557.64	-118.62	489.14	443.36	45.78	10.685	
5,300.00	5,297.96	5,271.59	5,241.49	23.23	23.61	57.37	568.88	-121.31	498.87	452.22	46.66	10.692	
5,400.00	5,397.91	5,371.12	5,340.34	23.67	24.05	57.36	580.12	-124.00	508.61	461.07	47.54	10.700	
5,500.00	5,497.87	5,470.64	5,439.19	24.10	24.50	57.35	591.36	-126.69	518.34	469.92	48.41	10.706	
5,600.00	5,597.82	5,570.17	5,538.04	24.54	24.95	57.34	602.60	-129.39	528.07	478.78	49.29	10.713	
5,700.00	5,697.78	5,669.69	5,636.90	24.97	25.39	57.33	613.84	-132.08	537.80	487.63	50.17	10.719	
5,800.00	5,797.74	5,769.22	5,735.75	25.41	25.84	57.32	625.08	-134.77	547.53	496.48	51.05	10.726	
5,900.00	5,897.69	5,868.74	5,834.60	25.85	26.29	57.31	636.32	-137.46	557.26	505.33	51.93	10.731	
6,000.00	5,997.65	5,968.27	5,933.45	26.28	26.73	57.30	647.56	-140.16	566.99	514.19	52.81	10.737	
6,100.00	6,097.60	6,067.79	6,032.30	26.72	27.18	57.30	658.80	-142.85	576.73	523.04	53.69	10.742	
6,200.00	6,197.56	6,167.32	6,131.16	27.16	27.63	57.29	670.04	-145.54	586.46	531.89	54.57	10.747	
6,300.00	6,297.52	6,266.84	6,230.01	27.59	28.08	57.28	681.28	-148.23	596.19	540.74	55.45	10.752	
6,400.00	6,397.47	6,366.37	6,328.86	28.03	28.52	57.27	692.51	-150.93	605.92	549.59	56.33	10.757	
6,500.00	6,497.43	6,464.96	6,426.29	28.47	28.97	56.64	703.55	-160.26	615.71	558.51	57.20	10.764	
6,600.00	6,597.38	6,559.27	6,517.10	28.90	29.39	54.76	713.73	-183.22	626.12	568.11	58.01	10.793	
6,700.00	6,697.08	6,647.27	6,597.96	29.34	29.77	77.32	722.70	-216.60	638.12	579.40	58.71	10.868	
6,800.00	6,794.63	6,731.90	6,670.70	29.79	30.14	77.41	730.69	-258.98	651.15	591.83	59.32	10.977	
6,900.00	6,887.62	6,813.93	6,735.29	30.24	30.52	75.40	737.69	-308.97	664.54	604.71	59.82	11.109	
7,000.00	6,973.77	6,893.88	6,791.60	30.70	30.94	73.17	743.71	-365.33	677.63	617.37	60.26	11.245	
7,100.00	7,050.94	6,972.17	6,839.53	31.20	31.42	71.12	748.73	-426.97	689.83	629.13	60.70	11.364	
7,200.00	7,117.24	7,050.00	6,879.37	31.77	31.98	69.34	752.80	-493.65	700.64	639.39	61.25	11.438	
7,300.00	7,171.03	7,125.15	6,909.90	32.46	32.62	67.92	755.80	-562.20	709.62	647.64	61.99	11.448	
7,400.00	7,211.00	7,200.00	6,932.13	33.29	33.34	66.87	757.83	-633.60	716.44	653.42	63.02	11.369	
7,500.00	7,236.16	7,275.19	6,945.93	34.29	34.17	66.20	758.88	-707.47	720.83	656.41	64.43	11.188	
7,600.00	7,245.89	7,350.00	6,950.98	35.43	35.06	65.92	758.93	-782.06	722.65	656.46	66.20	10.917	
7,700.00	7,245.73	7,446.92	6,950.73	36.72	36.37	65.91	758.22	-878.98	722.72	654.09	68.63	10.531	
7,800.00	7,245.42	7,546.92	6,950.44	38.18	37.86	65.91	757.48	-978.98	722.74	651.35	71.39	10.124	
7,900.00	7,245.10	7,646.92	6,950.14	39.80	39.50	65.91	756.74	-1,078.97	722.76	648.33	74.43	9.711	
8,000.00	7,244.79	7,746.92	6,949.84	41.54	41.27	65.92	756.00	-1,178.97	722.78	645.08	77.70	9.302	
8,100.00	7,244.48	7,846.92	6,949.54	43.41	43.16	65.92	755.27	-1,278.97	722.80	641.61	81.19	8.902	
8,200.00	7,244.17	7,946.92	6,949.24	45.38	45.16	65.92	754.53	-1,378.96	722.82	637.95	84.87	8.517	
8,300.00	7,243.86	8,046.92	6,948.94	47.44	47.24	65.92	753.79	-1,478.96	722.85	634.14	88.71	8.149	
8,400.00	7,243.55	8,146.92	6,948.65	49.58	49.40	65.92	753.05	-1,578.96	722.87	630.18	92.69	7.799	
8,500.00	7,243.23	8,246.92	6,948.35	51.78	51.62	65.93	752.32	-1,678.95	722.89	626.09	96.79	7.468	
8,600.00	7,242.92	8,346.92	6,948.05	54.05	53.91	65.93	751.58	-1,778.95	722.91	621.90	101.01	7.157	
8,700.00	7,242.61	8,446.92	6,947.75	56.37	56.25	65.93	750.84	-1,878.95	722.93	617.61	105.32	6.864	
8,800.00	7,242.30	8,546.92	6,947.45	58.74	58.63	65.93	750.10	-1,978.94	722.95	613.23	109.72	6.589	
8,900.00	7,241.99	8,646.92	6,947.15	61.16	61.06	65.93	749.36	-2,078.94	722.98	608.78	114.19	6.331	
9,000.00	7,241.67	8,746.92	6,946.86	63.61	63.52	65.93	748.63	-2,178.94	723.00	604.26	118.74	6.089	
9,100.00	7,241.36	8,846.92	6,946.56	66.09	66.01	65.94	747.89	-2,278.94	723.02	599.68	123.34	5.862	
9,200.00	7,241.05	8,946.92	6,946.26	68.60	68.54	65.94	747.15	-2,378.93	723.04	595.05	127.99	5.649	
9,300.00	7,240.74	9,046.92	6,945.96	71.13	71.08	65.94	746.41	-2,478.93	723.06	590.37	132.69	5.449	
9,400.00	7,240.43	9,146.92	6,945.66	73.70	73.65	65.94	745.68	-2,578.93	723.08	585.65	137.43	5.261	
9,500.00	7,240.11	9,246.92	6,945.36	76.28	76.25	65.94	744.94	-2,678.92	723.11	580.89	142.21	5.085	
9,600.00	7,239.80	9,346.92	6,945.07	78.88	78.85	65.95	744.20	-2,778.92	723.13	576.10	147.03	4.918	
9,700.00	7,239.49	9,446.92	6,944.77	81.50	81.48	65.95	743.46	-2,878.92	723.15	571.27	151.88	4.761	
9,800.00	7,239.18	9,546.92	6,944.47	84.13	84.12	65.95	742.72	-2,978.91	723.17	566.42	156.76	4.613	
9,900.00	7,238.87	9,646.92	6,944.17	86.78	86.78	65.95	741.99	-3,078.91	723.19	561.53	161.66	4.474	
10,000.00	7,238.55	9,746.92	6,943.87	89.44	89.45	65.95	741.25	-3,178.91	723.21	556.63	166.58	4.341	
10,100.00	7,238.24	9,846.92	6,943.57	92.11	92.12	65.96	740.51	-3,278.90	723.24	551.70	171.53	4.216	
10,200.00	7,237.93	9,946.92	6,943.28	94.80	94.81	65.96	739.77	-3,378.90	723.26	546.76	176.50	4.098	
10,300.00	7,237.62	10,046.92	6,942.98	97.49	97.51	65.96	739.04	-3,478.90	723.28	541.79	181.49	3.985	

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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
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	
10,400.00	7,237.31	10,146.92	6,942.68	100.19	100.22	65.96	738.30	-3,578.89	723.30	536.81	186.49	3.879		
10,500.00	7,236.99	10,246.92	6,942.38	102.90	102.94	65.96	737.56	-3,678.89	723.32	531.82	191.51	3.777		
10,600.00	7,236.68	10,346.92	6,942.08	105.62	105.66	65.97	736.82	-3,778.89	723.35	526.81	196.54	3.680		
10,700.00	7,236.37	10,446.92	6,941.78	108.35	108.39	65.97	736.08	-3,878.88	723.37	521.78	201.58	3.588		
10,800.00	7,236.06	10,546.92	6,941.49	111.08	111.13	65.97	735.35	-3,978.88	723.39	516.75	206.64	3.501		
10,900.00	7,235.75	10,646.92	6,941.19	113.82	113.87	65.97	734.61	-4,078.88	723.41	511.70	211.71	3.417		
11,000.00	7,235.44	10,746.92	6,940.89	116.56	116.62	65.97	733.87	-4,178.88	723.43	506.64	216.79	3.337		
11,100.00	7,235.12	10,846.92	6,940.59	119.31	119.37	65.98	733.13	-4,278.87	723.45	501.57	221.88	3.261		
11,200.00	7,234.81	10,946.92	6,940.29	122.07	122.13	65.98	732.40	-4,378.87	723.48	496.50	226.98	3.187		
11,300.00	7,234.50	11,046.92	6,939.99	124.83	124.90	65.98	731.66	-4,478.87	723.50	491.41	232.09	3.117		
11,400.00	7,234.19	11,146.92	6,939.69	127.59	127.66	65.98	730.92	-4,578.86	723.52	486.32	237.20	3.050		
11,500.00	7,233.88	11,246.92	6,939.40	130.36	130.43	65.98	730.18	-4,678.86	723.54	481.21	242.33	2.986		
11,600.00	7,233.56	11,346.92	6,939.10	133.13	133.21	65.99	729.45	-4,778.86	723.56	476.11	247.46	2.924		
11,700.00	7,233.25	11,446.92	6,938.80	135.91	135.99	65.99	728.71	-4,878.85	723.58	470.99	252.59	2.865		
11,800.00	7,232.94	11,546.92	6,938.50	138.68	138.77	65.99	727.97	-4,978.85	723.61	465.87	257.74	2.808		
11,900.00	7,232.63	11,646.92	6,938.20	141.47	141.55	65.99	727.23	-5,078.85	723.63	460.74	262.89	2.753		
12,000.00	7,232.32	11,746.92	6,937.90	144.25	144.34	65.99	726.49	-5,178.84	723.65	455.61	268.04	2.700		
12,100.00	7,232.00	11,846.92	6,937.61	147.04	147.13	66.00	725.76	-5,278.84	723.67	450.47	273.20	2.649		
12,200.00	7,231.69	11,946.92	6,937.31	149.83	149.92	66.00	725.02	-5,378.84	723.69	445.33	278.37	2.600		
12,300.00	7,231.38	12,046.92	6,937.01	152.62	152.72	66.00	724.28	-5,478.83	723.71	440.18	283.54	2.552		
12,400.00	7,231.07	12,146.92	6,936.71	155.42	155.52	66.00	723.54	-5,578.83	723.74	435.02	288.71	2.507		
12,500.00	7,230.76	12,246.92	6,936.41	158.22	158.32	66.00	722.81	-5,678.83	723.76	429.87	293.89	2.463		
12,600.00	7,230.44	12,346.92	6,936.11	161.01	161.12	66.00	722.07	-5,778.82	723.78	424.71	299.07	2.420		
12,700.00	7,230.13	12,446.92	6,935.82	163.82	163.92	66.01	721.33	-5,878.82	723.80	419.54	304.26	2.379		
12,800.00	7,229.82	12,546.92	6,935.52	166.62	166.73	66.01	720.59	-5,978.82	723.82	414.37	309.45	2.339		
12,900.00	7,229.51	12,646.92	6,935.22	169.43	169.53	66.01	719.85	-6,078.81	723.84	409.20	314.64	2.301		
13,000.00	7,229.20	12,746.92	6,934.92	172.23	172.34	66.01	719.12	-6,178.81	723.87	404.03	319.84	2.263		
13,100.00	7,228.88	12,846.92	6,934.62	175.04	175.15	66.01	718.38	-6,278.81	723.89	398.85	325.04	2.227		
13,200.00	7,228.57	12,946.92	6,934.32	177.85	177.97	66.02	717.64	-6,378.81	723.91	393.66	330.25	2.192		
13,300.00	7,228.26	13,046.92	6,934.03	180.66	180.78	66.02	716.90	-6,478.80	723.93	388.48	335.45	2.158		
13,400.00	7,227.95	13,146.92	6,933.73	183.48	183.59	66.02	716.17	-6,578.80	723.95	383.29	340.66	2.125		
13,500.00	7,227.64	13,246.92	6,933.43	186.29	186.41	66.02	715.43	-6,678.80	723.98	378.10	345.87	2.093		
13,600.00	7,227.33	13,346.92	6,933.13	189.11	189.23	66.02	714.69	-6,778.79	724.00	372.91	351.09	2.062		
13,700.00	7,227.01	13,446.92	6,932.83	191.92	192.05	66.03	713.95	-6,878.79	724.02	367.72	356.30	2.032		
13,800.00	7,226.70	13,546.92	6,932.53	194.74	194.87	66.03	713.21	-6,978.79	724.04	362.52	361.52	2.003		
13,900.00	7,226.39	13,646.92	6,932.24	197.56	197.69	66.03	712.48	-7,078.78	724.06	357.32	366.74	1.974		
14,000.00	7,226.08	13,746.92	6,931.94	200.38	200.51	66.03	711.74	-7,178.78	724.08	352.12	371.97	1.947		
14,100.00	7,225.77	13,846.92	6,931.64	203.21	203.33	66.03	711.00	-7,278.78	724.11	346.91	377.19	1.920		
14,200.00	7,225.45	13,946.92	6,931.34	206.03	206.16	66.04	710.26	-7,378.77	724.13	341.71	382.42	1.894		
14,300.00	7,225.14	14,046.92	6,931.04	208.85	208.98	66.04	709.53	-7,478.77	724.15	336.50	387.65	1.868		
14,400.00	7,224.83	14,146.92	6,930.74	211.68	211.81	66.04	708.79	-7,578.77	724.17	331.29	392.88	1.843		
14,500.00	7,224.52	14,246.92	6,930.45	214.50	214.63	66.04	708.05	-7,678.76	724.19	326.08	398.11	1.819		
14,600.00	7,224.21	14,346.92	6,930.15	217.33	217.46	66.04	707.31	-7,778.76	724.21	320.87	403.35	1.796		
14,700.00	7,223.89	14,446.92	6,929.85	220.16	220.29	66.05	706.57	-7,878.76	724.24	315.65	408.58	1.773		
14,800.00	7,223.58	14,546.92	6,929.55	222.98	223.12	66.05	705.84	-7,978.75	724.26	310.44	413.82	1.750		
14,900.00	7,223.27	14,646.92	6,929.25	225.81	225.95	66.05	705.10	-8,078.75	724.28	305.22	419.06	1.728		
14,987.41	7,223.00	14,734.34	6,928.99	228.28	228.42	66.05	704.45	-8,166.16	724.30	300.66	423.64	1.710 SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	0.00	0.00	3.28	3.28	0.40	80.16	0.56	80.16					
100.00	100.00	100.00	100.00	3.28	3.28	0.40	80.16	0.56	80.16	73.59	6.57	12.202		
200.00	200.00	200.00	200.00	3.34	3.34	0.40	80.16	0.56	80.16	73.49	6.67	12.011		
300.00	300.00	300.00	300.00	3.44	3.44	0.40	80.16	0.56	80.16	73.27	6.89	11.635		
400.00	400.00	400.00	400.00	3.60	3.60	0.40	80.16	0.56	80.16	72.95	7.21	11.123		
500.00	500.00	500.00	500.00	3.81	3.81	0.40	80.16	0.56	80.16	72.55	7.61	10.531		
600.00	600.00	600.00	600.00	4.05	4.05	0.40	80.16	0.56	80.16	72.07	8.09	9.906 CC, ES		
700.00	699.98	697.30	697.28	4.32	4.31	59.19	81.79	0.29	80.95	72.32	8.63	9.381		
800.00	799.94	794.47	794.32	4.61	4.60	60.27	86.67	-0.49	84.46	75.23	9.22	9.159		
900.00	899.89	891.33	890.83	4.92	4.91	60.82	94.77	-1.80	91.29	81.44	9.85	9.266		
1,000.00	999.85	987.65	986.47	5.25	5.24	60.88	106.01	-3.61	101.42	90.91	10.51	9.646		
1,100.00	1,099.80	1,083.92	1,081.63	5.60	5.58	60.60	120.36	-5.92	114.75	103.55	11.20	10.249		
1,200.00	1,199.76	1,182.88	1,179.29	5.96	5.94	60.27	136.16	-8.46	129.15	117.25	11.90	10.851		
1,300.00	1,299.72	1,281.83	1,276.94	6.33	6.31	60.01	151.97	-11.01	143.56	130.92	12.64	11.361		
1,400.00	1,399.67	1,380.79	1,374.59	6.71	6.69	59.80	167.77	-13.56	157.96	144.58	13.39	11.799		
1,500.00	1,499.63	1,479.74	1,472.24	7.10	7.09	59.62	183.58	-16.10	172.37	158.22	14.16	12.177		
1,600.00	1,599.58	1,578.70	1,569.89	7.49	7.49	59.47	199.38	-18.65	186.78	171.85	14.94	12.505		
1,700.00	1,699.54	1,677.65	1,667.54	7.88	7.90	59.34	215.19	-21.19	201.20	185.46	15.73	12.790		
1,800.00	1,799.50	1,776.61	1,765.20	8.28	8.32	59.23	230.99	-23.74	215.61	199.07	16.53	13.040		
1,900.00	1,899.45	1,875.56	1,862.85	8.69	8.74	59.13	246.80	-26.28	230.02	212.67	17.35	13.260		
2,000.00	1,999.41	1,974.52	1,960.50	9.10	9.16	59.04	262.60	-28.83	244.43	226.27	18.17	13.455		
2,100.00	2,099.36	2,073.47	2,058.15	9.51	9.59	58.96	278.41	-31.38	258.85	239.86	18.99	13.629		
2,200.00	2,199.32	2,172.43	2,155.80	9.92	10.02	58.90	294.21	-33.92	273.26	253.44	19.82	13.784		
2,300.00	2,299.28	2,271.39	2,253.45	10.34	10.46	58.83	310.02	-36.47	287.68	267.02	20.66	13.923		
2,400.00	2,399.23	2,370.34	2,351.11	10.75	10.90	58.78	325.82	-39.01	302.09	280.59	21.50	14.049		
2,500.00	2,499.19	2,469.30	2,448.76	11.17	11.33	58.73	341.63	-41.56	316.51	294.16	22.35	14.162		
2,600.00	2,599.14	2,568.25	2,546.41	11.60	11.78	58.68	357.43	-44.10	330.92	307.73	23.20	14.265		
2,700.00	2,699.10	2,667.21	2,644.06	12.02	12.22	58.64	373.24	-46.65	345.34	321.29	24.05	14.359		
2,800.00	2,799.06	2,766.16	2,741.71	12.44	12.66	58.60	389.04	-49.20	359.76	334.85	24.90	14.445		
2,900.00	2,899.01	2,865.12	2,839.36	12.87	13.11	58.56	404.85	-51.74	374.17	348.41	25.76	14.524		
3,000.00	2,998.97	2,964.07	2,937.02	13.29	13.55	58.53	420.65	-54.29	388.59	361.97	26.62	14.597		
3,100.00	3,098.92	3,063.03	3,034.67	13.72	14.00	58.50	436.46	-56.83	403.00	375.52	27.48	14.663		
3,200.00	3,198.88	3,161.98	3,132.32	14.14	14.45	58.47	452.26	-59.38	417.42	389.07	28.35	14.725		
3,300.00	3,298.84	3,260.94	3,229.97	14.57	14.90	58.44	468.07	-61.92	431.84	402.62	29.21	14.782		
3,400.00	3,398.79	3,359.89	3,327.62	15.00	15.35	58.42	483.87	-64.47	446.25	416.17	30.08	14.836		
3,500.00	3,498.75	3,458.85	3,425.27	15.43	15.80	58.39	499.68	-67.01	460.67	429.72	30.95	14.885		
3,600.00	3,598.70	3,557.80	3,522.93	15.86	16.25	58.37	515.48	-69.56	475.09	443.27	31.82	14.931		
3,700.00	3,698.66	3,656.76	3,620.58	16.29	16.70	58.35	531.28	-72.11	489.50	456.82	32.69	14.974		
3,800.00	3,798.62	3,755.71	3,718.23	16.72	17.16	58.33	547.09	-74.65	503.92	470.36	33.56	15.015		
3,900.00	3,898.57	3,854.67	3,815.88	17.15	17.61	58.31	562.89	-77.20	518.34	483.90	34.43	15.053		
4,000.00	3,998.53	3,953.62	3,913.53	17.59	18.06	58.29	578.70	-79.74	532.76	497.45	35.31	15.088		
4,100.00	4,098.48	4,052.58	4,011.18	18.02	18.52	58.28	594.50	-82.29	547.17	510.99	36.18	15.122		
4,200.00	4,198.44	4,151.53	4,108.84	18.45	18.97	58.26	610.31	-84.83	561.59	524.53	37.06	15.154		
4,300.00	4,298.40	4,250.49	4,206.49	18.88	19.43	58.25	626.11	-87.38	576.01	538.07	37.94	15.184		
4,400.00	4,398.35	4,349.44	4,304.14	19.32	19.88	58.23	641.92	-89.93	590.42	551.61	38.81	15.212		
4,500.00	4,498.31	4,448.40	4,401.79	19.75	20.34	58.22	657.72	-92.47	604.84	565.15	39.69	15.238		
4,600.00	4,598.26	4,547.35	4,499.44	20.19	20.80	58.20	673.53	-95.02	619.26	578.69	40.57	15.264		
4,700.00	4,698.22	4,646.31	4,597.09	20.62	21.25	58.19	689.33	-97.56	633.68	592.23	41.45	15.288		
4,800.00	4,798.18	4,745.26	4,694.75	21.05	21.71	58.18	705.14	-100.11	648.09	605.76	42.33	15.311		
4,900.00	4,898.13	4,844.22	4,792.40	21.49	22.17	58.17	720.94	-102.65	662.51	619.30	43.21	15.332		
5,000.00	4,998.09	4,943.17	4,890.05	21.92	22.62	58.16	736.75	-105.20	676.93	632.84	44.09	15.353		
5,100.00	5,098.04	5,042.13	4,987.70	22.36	23.08	58.15	752.55	-107.75	691.35	646.37	44.97	15.373		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,141.08	5,085.35	22.79	23.54	58.14	768.36	-110.29	705.76	659.91	45.85	15.392		
5,300.00	5,297.96	5,240.04	5,183.00	23.23	24.00	58.13	784.16	-112.84	720.18	673.45	46.74	15.409		
5,400.00	5,397.91	5,338.99	5,280.66	23.67	24.46	58.12	799.97	-115.38	734.60	686.98	47.62	15.427		
5,500.00	5,497.87	5,437.95	5,378.31	24.10	24.91	58.11	815.77	-117.93	749.02	700.51	48.50	15.443		
5,600.00	5,597.82	5,536.91	5,475.96	24.54	25.37	58.10	831.58	-120.47	763.43	714.05	49.39	15.459		
5,700.00	5,697.78	5,635.86	5,573.61	24.97	25.83	58.09	847.38	-123.02	777.85	727.58	50.27	15.474		
5,800.00	5,797.74	5,734.82	5,671.26	25.41	26.29	58.09	863.19	-125.57	792.27	741.12	51.15	15.488		
5,900.00	5,897.69	5,833.77	5,768.91	25.85	26.75	58.08	878.99	-128.11	806.69	754.65	52.04	15.502		
6,000.00	5,997.65	5,932.73	5,866.57	26.28	27.21	58.07	894.80	-130.66	821.10	768.18	52.92	15.516		
6,100.00	6,097.60	6,031.68	5,964.22	26.72	27.67	58.06	910.60	-133.20	835.52	781.72	53.81	15.528		
6,200.00	6,197.56	6,130.64	6,061.87	27.16	28.13	58.06	926.41	-135.75	849.94	795.25	54.69	15.541		
6,300.00	6,297.52	6,229.59	6,159.52	27.59	28.59	58.05	942.21	-138.29	864.36	808.78	55.58	15.552		
6,400.00	6,397.47	6,328.55	6,257.17	28.03	29.05	58.04	958.02	-140.84	878.77	822.31	56.46	15.564		
6,500.00	6,497.43	6,427.50	6,354.82	28.47	29.51	58.04	973.82	-143.39	893.19	835.84	57.35	15.575		
6,600.00	6,597.38	6,526.46	6,452.48	28.90	29.97	58.03	989.63	-145.93	907.61	849.38	58.23	15.585		
6,700.00	6,697.08	6,626.86	6,551.54	29.34	30.43	83.16	1,005.64	-149.07	922.03	862.89	59.14	15.591		
6,800.00	6,794.63	6,732.66	6,654.75	29.79	30.92	85.81	1,021.90	-164.90	935.91	875.80	60.11	15.570		
6,900.00	6,887.62	6,839.90	6,755.36	30.24	31.40	86.07	1,037.14	-198.35	948.74	887.65	61.09	15.529		
7,000.00	6,973.77	6,948.46	6,850.19	30.70	31.86	85.82	1,050.85	-249.09	960.19	898.08	62.11	15.460		
7,100.00	7,050.94	7,058.12	6,936.04	31.20	32.32	85.43	1,062.55	-316.09	969.93	906.74	63.19	15.350		
7,200.00	7,117.24	7,168.57	7,009.84	31.77	32.84	85.01	1,071.79	-397.56	977.71	913.30	64.42	15.178		
7,300.00	7,171.03	7,279.45	7,068.90	32.46	33.53	84.61	1,078.23	-491.01	983.33	917.45	65.88	14.925		
7,400.00	7,211.00	7,390.31	7,111.13	33.29	34.43	84.27	1,081.64	-593.31	986.65	918.98	67.66	14.581		
7,500.00	7,236.16	7,500.72	7,135.19	34.29	35.54	84.01	1,081.90	-700.93	987.58	917.80	69.78	14.153		
7,600.00	7,245.89	7,608.57	7,140.92	35.43	36.79	83.86	1,079.19	-808.47	986.14	913.97	72.17	13.665		
7,700.00	7,245.73	7,708.53	7,140.49	36.72	38.10	83.86	1,075.73	-908.37	983.49	908.72	74.76	13.155		
7,800.00	7,245.42	7,808.49	7,140.06	38.18	39.59	83.84	1,072.27	-1,008.28	980.82	903.11	77.71	12.621		
7,900.00	7,245.10	7,908.46	7,139.62	39.80	41.21	83.81	1,068.81	-1,108.18	978.16	897.22	80.94	12.085		
8,000.00	7,244.79	8,008.42	7,139.19	41.54	42.95	83.79	1,065.35	-1,208.08	975.49	891.06	84.43	11.554		
8,100.00	7,244.48	8,108.38	7,138.76	43.41	44.81	83.76	1,061.89	-1,307.98	972.83	884.68	88.14	11.037		
8,200.00	7,244.17	8,208.35	7,138.32	45.38	46.78	83.74	1,058.43	-1,407.89	970.16	878.10	92.06	10.538		
8,300.00	7,243.86	8,308.31	7,137.89	47.44	48.82	83.71	1,054.97	-1,507.79	967.50	871.35	96.15	10.062		
8,400.00	7,243.55	8,408.28	7,137.46	49.58	50.94	83.69	1,051.51	-1,607.69	964.84	864.45	100.39	9.611		
8,500.00	7,243.23	8,508.24	7,137.02	51.78	53.14	83.66	1,048.06	-1,707.60	962.17	857.40	104.78	9.183		
8,600.00	7,242.92	8,608.20	7,136.59	54.05	55.39	83.64	1,044.60	-1,807.50	959.51	850.24	109.27	8.781		
8,700.00	7,242.61	8,708.17	7,136.15	56.37	57.69	83.61	1,041.14	-1,907.40	956.85	842.97	113.87	8.403		
8,800.00	7,242.30	8,808.13	7,135.72	58.74	60.05	83.59	1,037.68	-2,007.30	954.18	835.61	118.57	8.047		
8,900.00	7,241.99	8,908.09	7,135.29	61.16	62.44	83.56	1,034.22	-2,107.21	951.52	828.17	123.35	7.714		
9,000.00	7,241.67	9,008.06	7,134.85	63.61	64.87	83.54	1,030.76	-2,207.11	948.86	820.66	128.20	7.401		
9,100.00	7,241.36	9,108.02	7,134.42	66.09	67.33	83.51	1,027.30	-2,307.01	946.20	813.08	133.12	7.108		
9,200.00	7,241.05	9,207.98	7,133.99	68.60	69.82	83.49	1,023.84	-2,406.92	943.54	805.45	138.09	6.833		
9,300.00	7,240.74	9,307.95	7,133.55	71.13	72.34	83.46	1,020.38	-2,506.82	940.87	797.76	143.11	6.574		
9,400.00	7,240.43	9,407.91	7,133.12	73.70	74.88	83.43	1,016.92	-2,606.72	938.21	790.03	148.18	6.332		
9,500.00	7,240.11	9,507.88	7,132.69	76.28	77.45	83.41	1,013.46	-2,706.62	935.55	782.26	153.29	6.103		
9,600.00	7,239.80	9,607.84	7,132.25	78.88	80.03	83.38	1,010.01	-2,806.53	932.89	774.45	158.44	5.888		
9,700.00	7,239.49	9,707.80	7,131.82	81.50	82.63	83.36	1,006.55	-2,906.43	930.23	766.61	163.62	5.685		
9,800.00	7,239.18	9,807.77	7,131.38	84.13	85.24	83.33	1,003.09	-3,006.33	927.57	758.73	168.83	5.494		
9,900.00	7,238.87	9,907.73	7,130.95	86.78	87.87	83.30	999.63	-3,106.24	924.91	750.83	174.08	5.313		
10,000.00	7,238.55	10,007.69	7,130.52	89.44	90.52	83.27	996.17	-3,206.14	922.25	742.90	179.34	5.142		
10,100.00	7,238.24	10,107.66	7,130.08	92.11	93.17	83.25	992.71	-3,306.04	919.59	734.95	184.63	4.981		
10,200.00	7,237.93	10,207.62	7,129.65	94.80	95.84	83.22	989.25	-3,405.94	916.93	726.98	189.94	4.827		
10,300.00	7,237.62	10,307.58	7,129.22	97.49	98.51	83.19	985.79	-3,505.85	914.27	718.99	195.27	4.682		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	10,407.55	7,128.78	100.19	101.20	83.17	982.33	-3,605.75	911.61	710.99	200.62	4.544	
10,500.00	7,236.99	10,507.51	7,128.35	102.90	103.89	83.14	978.87	-3,705.65	908.95	702.96	205.98	4.413	
10,600.00	7,236.68	10,607.48	7,127.92	105.62	106.60	83.11	975.41	-3,805.56	906.29	694.93	211.36	4.288	
10,700.00	7,236.37	10,707.44	7,127.48	108.35	109.31	83.08	971.96	-3,905.46	903.63	686.88	216.75	4.169	
10,800.00	7,236.06	10,807.40	7,127.05	111.08	112.02	83.05	968.50	-4,005.36	900.97	678.81	222.16	4.056	
10,900.00	7,235.75	10,907.37	7,126.61	113.82	114.75	83.02	965.04	-4,105.26	898.31	670.74	227.58	3.947	
11,000.00	7,235.44	11,007.33	7,126.18	116.56	117.47	83.00	961.58	-4,205.17	895.65	662.65	233.00	3.844	
11,100.00	7,235.12	11,107.29	7,125.75	119.31	120.21	82.97	958.12	-4,305.07	893.00	654.55	238.44	3.745	
11,200.00	7,234.81	11,207.26	7,125.31	122.07	122.95	82.94	954.66	-4,404.97	890.34	646.45	243.89	3.651	
11,300.00	7,234.50	11,307.22	7,124.88	124.83	125.69	82.91	951.20	-4,504.88	887.68	638.34	249.34	3.560	
11,400.00	7,234.19	11,407.18	7,124.45	127.59	128.44	82.88	947.74	-4,604.78	885.02	630.21	254.81	3.473	
11,500.00	7,233.88	11,507.15	7,124.01	130.36	131.19	82.85	944.28	-4,704.68	882.37	622.09	260.28	3.390	
11,600.00	7,233.56	11,607.11	7,123.58	133.13	133.95	82.82	940.82	-4,804.58	879.71	613.95	265.76	3.310	
11,700.00	7,233.25	11,707.08	7,123.15	135.91	136.71	82.79	937.36	-4,904.49	877.05	605.81	271.24	3.233	
11,800.00	7,232.94	11,807.04	7,122.71	138.68	139.48	82.76	933.91	-5,004.39	874.39	597.66	276.73	3.160	
11,900.00	7,232.63	11,907.00	7,122.28	141.47	142.24	82.73	930.45	-5,104.29	871.74	589.51	282.23	3.089	
12,000.00	7,232.32	12,006.97	7,121.85	144.25	145.01	82.70	926.99	-5,204.20	869.08	581.35	287.73	3.020	
12,100.00	7,232.00	12,106.93	7,121.41	147.04	147.79	82.67	923.53	-5,304.10	866.43	573.19	293.24	2.955	
12,200.00	7,231.69	12,206.89	7,120.98	149.83	150.56	82.64	920.07	-5,404.00	863.77	565.02	298.75	2.891	
12,300.00	7,231.38	12,306.86	7,120.54	152.62	153.34	82.61	916.61	-5,503.90	861.12	556.85	304.27	2.830	
12,400.00	7,231.07	12,406.82	7,120.11	155.42	156.12	82.58	913.15	-5,603.81	858.46	548.68	309.79	2.771	
12,500.00	7,230.76	12,506.79	7,119.68	158.22	158.91	82.54	909.69	-5,703.71	855.81	540.50	315.31	2.714	
12,600.00	7,230.44	12,606.75	7,119.24	161.01	161.69	82.51	906.23	-5,803.61	853.15	532.32	320.83	2.659	
12,700.00	7,230.13	12,706.71	7,118.81	163.82	164.48	82.48	902.77	-5,903.52	850.50	524.13	326.36	2.606	
12,800.00	7,229.82	12,806.68	7,118.38	166.62	167.27	82.45	899.31	-6,003.42	847.84	515.95	331.90	2.555	
12,900.00	7,229.51	12,906.64	7,117.94	169.43	170.06	82.42	895.86	-6,103.32	845.19	507.76	337.43	2.505	
13,000.00	7,229.20	13,006.60	7,117.51	172.23	172.86	82.38	892.40	-6,203.22	842.54	499.57	342.97	2.457	
13,100.00	7,228.88	13,106.57	7,117.08	175.04	175.65	82.35	888.94	-6,303.13	839.88	491.37	348.51	2.410	
13,200.00	7,228.57	13,206.53	7,116.64	177.85	178.45	82.32	885.48	-6,403.03	837.23	483.18	354.05	2.365	
13,300.00	7,228.26	13,306.49	7,116.21	180.66	181.25	82.29	882.02	-6,502.93	834.58	474.98	359.60	2.321	
13,400.00	7,227.95	13,406.46	7,115.77	183.48	184.05	82.25	878.56	-6,602.84	831.93	466.78	365.15	2.278	
13,500.00	7,227.64	13,506.42	7,115.34	186.29	186.85	82.22	875.10	-6,702.74	829.27	458.58	370.70	2.237	
13,600.00	7,227.33	13,606.39	7,114.91	189.11	189.65	82.19	871.64	-6,802.64	826.62	450.38	376.25	2.197	
13,700.00	7,227.01	13,706.35	7,114.47	191.92	192.46	82.15	868.18	-6,902.54	823.97	442.17	381.80	2.158	
13,800.00	7,226.70	13,806.31	7,114.04	194.74	195.26	82.12	864.72	-7,002.45	821.32	433.97	387.35	2.120	
13,900.00	7,226.39	13,906.28	7,113.61	197.56	198.07	82.08	861.26	-7,102.35	818.67	425.76	392.90	2.084	
14,000.00	7,226.08	14,006.24	7,113.17	200.38	200.88	82.05	857.81	-7,202.25	816.02	417.56	398.46	2.048	
14,100.00	7,225.77	14,106.20	7,112.74	203.21	203.69	82.01	854.35	-7,302.16	813.37	409.35	404.02	2.013	
14,200.00	7,225.45	14,206.17	7,112.31	206.03	206.50	81.98	850.89	-7,402.06	810.72	401.14	409.57	1.979	
14,300.00	7,225.14	14,306.13	7,111.87	208.85	209.31	81.94	847.43	-7,501.96	808.07	392.94	415.13	1.947	
14,400.00	7,224.83	14,406.09	7,111.44	211.68	212.12	81.91	843.97	-7,601.86	805.42	384.73	420.69	1.915	
14,500.00	7,224.52	14,506.06	7,111.00	214.50	214.93	81.87	840.51	-7,701.77	802.77	376.52	426.25	1.883	
14,600.00	7,224.21	14,606.02	7,110.57	217.33	217.75	81.84	837.05	-7,801.67	800.12	368.31	431.81	1.853	
14,700.00	7,223.89	14,705.99	7,110.14	220.16	220.56	81.80	833.59	-7,901.57	797.47	360.10	437.37	1.823	
14,800.00	7,223.58	14,805.95	7,109.70	222.98	223.38	81.76	830.13	-8,001.48	794.83	351.89	442.93	1.794	
14,900.00	7,223.27	14,905.91	7,109.27	225.81	226.19	81.73	826.67	-8,101.38	792.18	343.68	448.49	1.766	
14,984.20	7,223.01	14,969.16	7,109.00	228.19	227.97	81.70	824.48	-8,164.59	790.23	337.51	452.71	1.746	
14,987.41	7,223.00	14,969.16	7,109.00	228.28	227.97	81.70	824.48	-8,164.59	790.23	337.44	452.79	1.745 SF	



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	0.00	0.00	3.28	3.28	-179.60	-40.06	-0.28	40.06					
100.00	100.00	100.00	100.00	3.28	3.28	-179.60	-40.06	-0.28	40.06	33.49	6.57	6.098		
200.00	200.00	200.00	200.00	3.34	3.34	-179.60	-40.06	-0.28	40.06	33.39	6.67	6.003		
300.00	300.00	300.00	300.00	3.44	3.44	-179.60	-40.06	-0.28	40.06	33.17	6.89	5.815		
400.00	400.00	400.00	400.00	3.60	3.60	-179.60	-40.06	-0.28	40.06	32.86	7.21	5.559 CC		
500.00	500.00	498.87	498.85	3.81	3.79	-178.16	-41.40	-1.33	41.44	33.83	7.61	5.448		
600.00	600.00	601.40	598.50	4.05	4.03	-175.15	-44.51	-3.78	44.70	36.62	8.08	5.533		
700.00	699.98	701.49	698.33	4.32	4.28	-116.28	-47.66	-6.26	48.83	40.23	8.60	5.675		
800.00	799.94	801.60	798.14	4.61	4.57	-116.82	-50.81	-8.74	53.53	44.35	9.18	5.830		
900.00	899.89	901.72	897.94	4.92	4.88	-117.27	-53.96	-11.22	58.24	48.43	9.81	5.939		
1,000.00	999.85	1,001.83	997.75	5.25	5.21	-117.65	-57.11	-13.70	62.94	52.48	10.47	6.014		
1,100.00	1,099.80	1,101.94	1,097.56	5.60	5.56	-117.98	-60.26	-16.18	67.65	56.50	11.16	6.064		
1,200.00	1,199.76	1,202.05	1,197.37	5.96	5.92	-118.27	-63.41	-18.65	72.37	60.49	11.87	6.096		
1,300.00	1,299.72	1,302.16	1,297.18	6.33	6.29	-118.52	-66.56	-21.13	77.08	64.47	12.61	6.113		
1,400.00	1,399.67	1,402.27	1,396.98	6.71	6.67	-118.75	-69.71	-23.61	81.80	68.43	13.36	6.121		
1,500.00	1,499.63	1,502.39	1,496.79	7.10	7.05	-118.95	-72.86	-26.09	86.51	72.38	14.13	6.122		
1,600.00	1,599.58	1,602.50	1,596.60	7.49	7.44	-119.13	-76.01	-28.57	91.23	76.31	14.91	6.117		
1,700.00	1,699.54	1,702.61	1,696.41	7.88	7.84	-119.29	-79.17	-31.05	95.95	80.24	15.71	6.109		
1,800.00	1,799.50	1,802.72	1,796.21	8.28	8.25	-119.43	-82.32	-33.53	100.66	84.16	16.51	6.099		
1,900.00	1,899.45	1,902.83	1,896.02	8.69	8.65	-119.56	-85.47	-36.01	105.38	88.07	17.31	6.086		
2,000.00	1,999.41	2,002.94	1,995.83	9.10	9.06	-119.69	-88.62	-38.49	110.10	91.97	18.13	6.073		
2,100.00	2,099.36	2,103.06	2,095.64	9.51	9.48	-119.80	-91.77	-40.97	114.82	95.87	18.95	6.059		
2,200.00	2,199.32	2,196.83	2,195.45	9.92	9.87	-119.90	-94.92	-43.44	119.54	99.79	19.75	6.052		
2,300.00	2,299.28	2,303.28	2,295.25	10.34	10.31	-119.99	-98.07	-45.92	124.26	103.66	20.61	6.030		
2,400.00	2,399.23	2,403.39	2,395.06	10.75	10.73	-120.08	-101.22	-48.40	128.98	107.54	21.44	6.015		
2,500.00	2,499.19	2,503.50	2,494.87	11.17	11.15	-120.16	-104.37	-50.88	133.71	111.42	22.28	6.001		
2,600.00	2,599.14	2,603.61	2,594.68	11.60	11.58	-120.24	-107.52	-53.36	138.43	115.30	23.12	5.986		
2,700.00	2,699.10	2,703.73	2,694.49	12.02	12.00	-120.31	-110.67	-55.84	143.15	119.18	23.97	5.973		
2,800.00	2,799.06	2,803.84	2,794.29	12.44	12.43	-120.38	-113.82	-58.32	147.87	123.06	24.81	5.959		
2,900.00	2,899.01	2,903.95	2,894.10	12.87	12.85	-120.44	-116.97	-60.80	152.59	126.93	25.66	5.946		
3,000.00	2,998.97	3,004.06	2,993.91	13.29	13.28	-120.50	-120.12	-63.28	157.32	130.80	26.52	5.933		
3,100.00	3,098.92	3,104.17	3,093.72	13.72	13.71	-120.55	-123.27	-65.76	162.04	134.67	27.37	5.921		
3,200.00	3,198.88	3,204.29	3,193.52	14.14	14.14	-120.61	-126.42	-68.23	166.76	138.54	28.22	5.909		
3,300.00	3,298.84	3,304.40	3,293.33	14.57	14.57	-120.66	-129.57	-70.71	171.48	142.40	29.08	5.897		
3,400.00	3,398.79	3,404.51	3,393.14	15.00	15.01	-120.70	-132.72	-73.19	176.21	146.27	29.94	5.886		
3,500.00	3,498.75	3,504.62	3,492.95	15.43	15.44	-120.75	-135.87	-75.67	180.93	150.13	30.80	5.875		
3,600.00	3,598.70	3,604.73	3,592.76	15.86	15.87	-120.79	-139.02	-78.15	185.65	154.00	31.66	5.864		
3,700.00	3,698.66	3,704.84	3,692.56	16.29	16.31	-120.83	-142.17	-80.63	190.38	157.86	32.52	5.854		
3,800.00	3,798.62	3,804.96	3,792.37	16.72	16.74	-120.87	-145.32	-83.11	195.10	161.72	33.38	5.845		
3,900.00	3,898.57	3,905.07	3,892.18	17.15	17.17	-120.90	-148.47	-85.59	199.82	165.58	34.24	5.835		
4,000.00	3,998.53	4,005.18	3,991.99	17.59	17.61	-120.94	-151.62	-88.07	204.55	169.44	35.11	5.826		
4,100.00	4,098.48	4,105.29	4,091.80	18.02	18.05	-120.97	-154.77	-90.55	209.27	173.30	35.97	5.817		
4,200.00	4,198.44	4,205.40	4,191.60	18.45	18.48	-121.00	-157.92	-93.03	213.99	177.15	36.84	5.809		
4,300.00	4,298.40	4,305.51	4,291.41	18.88	18.92	-121.03	-161.07	-95.50	218.72	181.01	37.71	5.801		
4,400.00	4,398.35	4,405.63	4,391.22	19.32	19.35	-121.06	-164.22	-97.98	223.44	184.87	38.57	5.793		
4,500.00	4,498.31	4,505.74	4,491.03	19.75	19.79	-121.09	-167.37	-100.46	228.16	188.72	39.44	5.785		
4,600.00	4,598.26	4,605.85	4,590.83	20.19	20.23	-121.11	-170.52	-102.94	232.89	192.58	40.31	5.778		
4,700.00	4,698.22	4,694.04	4,690.64	20.62	20.61	-121.14	-173.67	-105.42	237.61	196.49	41.13	5.778		
4,800.00	4,798.18	4,806.07	4,790.45	21.05	21.10	-121.16	-176.82	-107.90	242.34	200.29	42.05	5.763		
4,900.00	4,898.13	4,906.18	4,890.26	21.49	21.54	-121.19	-179.97	-110.38	247.06	204.14	42.92	5.757		
5,000.00	4,998.09	5,006.30	4,990.07	21.92	21.98	-121.21	-183.12	-112.86	251.78	208.00	43.79	5.750		
5,100.00	5,098.04	5,106.41	5,089.87	22.36	22.42	-121.23	-186.27	-115.34	256.51	211.85	44.66	5.744		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,206.52	5,189.68	22.79	22.86	-121.25	-189.42	-117.82	261.23	215.70	45.53	5.738		
5,300.00	5,297.96	5,306.63	5,289.49	23.23	23.30	-121.27	-192.57	-120.29	265.96	219.55	46.40	5.732		
5,400.00	5,397.91	5,406.74	5,389.30	23.67	23.74	-121.29	-195.72	-122.77	270.68	223.41	47.27	5.726		
5,500.00	5,497.87	5,506.85	5,489.10	24.10	24.17	-121.31	-198.88	-125.25	275.40	227.26	48.15	5.720		
5,600.00	5,597.82	5,606.97	5,589.91	24.54	24.61	-121.33	-202.03	-127.73	280.13	231.11	49.02	5.715		
5,700.00	5,697.78	5,707.08	5,688.72	24.97	25.05	-121.35	-205.18	-130.21	284.85	234.96	49.89	5.710		
5,800.00	5,797.74	5,807.19	5,788.53	25.41	25.49	-121.36	-208.33	-132.69	289.58	238.81	50.76	5.704		
5,900.00	5,897.69	5,907.30	5,888.34	25.85	25.93	-121.38	-211.48	-135.17	294.30	242.66	51.64	5.699		
6,000.00	5,997.65	6,007.41	5,988.14	26.28	26.37	-121.40	-214.63	-137.65	299.02	246.51	52.51	5.695		
6,100.00	6,097.60	6,107.52	6,087.95	26.72	26.81	-121.41	-217.78	-140.13	303.75	250.36	53.38	5.690		
6,200.00	6,197.56	6,207.64	6,187.76	27.16	27.25	-121.43	-220.93	-142.61	308.47	254.22	54.26	5.685		
6,300.00	6,297.52	6,307.75	6,287.57	27.59	27.69	-121.44	-224.08	-145.08	313.20	258.07	55.13	5.681		
6,400.00	6,397.47	6,392.14	6,387.38	28.03	28.06	-121.46	-227.23	-147.56	317.92	261.98	55.94	5.683		
6,500.00	6,497.43	6,491.61	6,486.68	28.47	28.50	-121.17	-230.37	-151.71	322.67	265.87	56.81	5.680		
6,600.00	6,597.38	6,588.41	6,581.88	28.90	28.93	-118.68	-233.46	-168.39	328.02	270.39	57.63	5.692		
6,700.00	6,697.08	6,680.18	6,668.84	29.34	29.32	-88.40	-236.37	-197.37	335.28	276.95	58.33	5.748		
6,800.00	6,794.63	6,768.86	6,748.06	29.79	29.70	-80.66	-239.10	-236.96	344.01	285.15	58.86	5.845		
6,900.00	6,887.62	6,855.06	6,819.08	30.24	30.06	-75.80	-241.63	-285.64	353.53	294.37	59.15	5.977		
7,000.00	6,973.77	6,939.22	6,881.45	30.70	30.44	-72.01	-243.94	-341.99	363.18	303.95	59.23	6.131		
7,100.00	7,050.94	7,021.71	6,934.86	31.20	30.88	-68.95	-246.00	-404.74	372.40	313.21	59.19	6.291		
7,200.00	7,117.24	7,102.86	6,979.07	31.77	31.40	-66.52	-247.80	-472.70	380.66	321.49	59.17	6.434		
7,300.00	7,171.03	7,182.98	7,013.89	32.46	32.02	-64.66	-249.34	-544.79	387.54	328.21	59.33	6.532		
7,400.00	7,211.00	7,262.35	7,039.20	33.29	32.75	-63.34	-250.59	-619.95	392.73	332.87	59.85	6.561		
7,500.00	7,236.16	7,341.21	7,054.89	34.29	33.58	-62.54	-251.56	-697.17	395.98	335.12	60.86	6.507		
7,600.00	7,245.89	7,419.81	7,060.93	35.43	34.51	-62.24	-252.23	-775.49	397.15	334.74	62.41	6.364		
7,700.00	7,245.73	7,516.41	7,060.63	36.72	35.80	-62.21	-252.81	-872.09	397.07	332.35	64.71	6.136		
7,800.00	7,245.42	7,616.41	7,060.20	38.18	37.29	-62.19	-253.41	-972.08	396.97	329.61	67.37	5.893		
7,900.00	7,245.10	7,716.41	7,059.76	39.80	38.93	-62.16	-254.01	-1,072.08	396.88	326.58	70.30	5.646		
8,000.00	7,244.79	7,816.41	7,059.33	41.54	40.71	-62.13	-254.61	-1,172.08	396.79	323.32	73.47	5.401		
8,100.00	7,244.48	7,916.41	7,058.89	43.41	42.61	-62.11	-255.21	-1,272.07	396.70	319.86	76.84	5.162		
8,200.00	7,244.17	8,016.41	7,058.46	45.38	44.61	-62.08	-255.81	-1,372.07	396.61	316.20	80.40	4.933		
8,300.00	7,243.86	8,116.41	7,058.03	47.44	46.70	-62.05	-256.40	-1,472.07	396.51	312.39	84.12	4.714		
8,400.00	7,243.55	8,216.41	7,057.59	49.58	48.87	-62.03	-257.00	-1,572.06	396.42	308.45	87.97	4.506		
8,500.00	7,243.23	8,316.41	7,057.16	51.78	51.10	-62.00	-257.60	-1,672.06	396.33	304.38	91.95	4.310		
8,600.00	7,242.92	8,416.41	7,056.72	54.05	53.40	-61.97	-258.20	-1,772.06	396.24	300.21	96.03	4.126		
8,700.00	7,242.61	8,516.41	7,056.29	56.37	55.75	-61.94	-258.80	-1,872.06	396.15	295.94	100.21	3.953		
8,800.00	7,242.30	8,616.41	7,055.86	58.74	58.14	-61.92	-259.40	-1,972.05	396.05	291.60	104.46	3.791		
8,900.00	7,241.99	8,716.41	7,055.42	61.16	60.57	-61.89	-260.00	-2,072.05	395.96	287.18	108.78	3.640		
9,000.00	7,241.67	8,816.41	7,054.99	63.61	63.04	-61.86	-260.60	-2,172.05	395.87	282.70	113.17	3.498		
9,100.00	7,241.36	8,916.40	7,054.55	66.09	65.55	-61.84	-261.19	-2,272.04	395.78	278.17	117.61	3.365		
9,200.00	7,241.05	9,016.40	7,054.12	68.60	68.08	-61.81	-261.79	-2,372.04	395.69	273.59	122.10	3.241		
9,300.00	7,240.74	9,116.40	7,053.69	71.13	70.63	-61.78	-262.39	-2,472.04	395.60	268.96	126.64	3.124		
9,400.00	7,240.43	9,216.40	7,053.25	73.70	73.21	-61.75	-262.99	-2,572.04	395.51	264.30	131.21	3.014		
9,500.00	7,240.11	9,316.40	7,052.82	76.28	75.80	-61.73	-263.59	-2,672.03	395.42	259.60	135.82	2.911		
9,600.00	7,239.80	9,416.40	7,052.38	78.88	78.42	-61.70	-264.19	-2,772.03	395.33	254.87	140.45	2.815		
9,700.00	7,239.49	9,516.40	7,051.95	81.50	81.05	-61.67	-264.79	-2,872.03	395.24	250.12	145.12	2.724		
9,800.00	7,239.18	9,616.40	7,051.52	84.13	83.70	-61.65	-265.39	-2,972.02	395.14	245.34	149.81	2.638		
9,900.00	7,238.87	9,716.40	7,051.08	86.78	86.36	-61.62	-265.98	-3,072.02	395.05	240.53	154.52	2.557		
10,000.00	7,238.55	9,816.40	7,050.65	89.44	89.03	-61.59	-266.58	-3,172.02	394.96	235.71	159.25	2.480		
10,100.00	7,238.24	9,916.40	7,050.21	92.11	91.72	-61.56	-267.18	-3,272.01	394.87	230.87	164.00	2.408		
10,200.00	7,237.93	10,016.40	7,049.78	94.80	94.41	-61.54	-267.78	-3,372.01	394.78	226.01	168.77	2.339		
10,300.00	7,237.62	10,116.40	7,049.35	97.49	97.11	-61.51	-268.38	-3,472.01	394.69	221.14	173.55	2.274		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	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)			
10,400.00	7,237.31	10,216.40	7,048.91	100.19	99.83	-61.48	-268.98	-3,572.01	394.60	216.26	178.35	2.213		
10,500.00	7,236.99	10,316.40	7,048.48	102.90	102.55	-61.46	-269.58	-3,672.00	394.51	211.36	183.15	2.154		
10,600.00	7,236.68	10,416.40	7,048.04	105.62	105.28	-61.43	-270.18	-3,772.00	394.42	206.45	187.97	2.098		
10,700.00	7,236.37	10,516.40	7,047.61	108.35	108.01	-61.40	-270.77	-3,872.00	394.33	201.53	192.80	2.045		
10,800.00	7,236.06	10,616.40	7,047.18	111.08	110.75	-61.37	-271.37	-3,971.99	394.24	196.61	197.64	1.995		
10,900.00	7,235.75	10,716.40	7,046.74	113.82	113.50	-61.35	-271.97	-4,071.99	394.15	191.67	202.48	1.947		
11,000.00	7,235.44	10,816.40	7,046.31	116.56	116.25	-61.32	-272.57	-4,171.99	394.06	186.73	207.34	1.901		
11,100.00	7,235.12	10,916.40	7,045.87	119.31	119.01	-61.29	-273.17	-4,271.99	393.97	181.78	212.20	1.857		
11,200.00	7,234.81	11,016.40	7,045.44	122.07	121.77	-61.26	-273.77	-4,371.98	393.88	176.82	217.06	1.815		
11,300.00	7,234.50	11,116.40	7,045.01	124.83	124.53	-61.24	-274.37	-4,471.98	393.80	171.86	221.93	1.774		
11,400.00	7,234.19	11,216.40	7,044.57	127.59	127.30	-61.21	-274.97	-4,571.98	393.71	166.90	226.81	1.736		
11,500.00	7,233.88	11,316.40	7,044.14	130.36	130.08	-61.18	-275.57	-4,671.97	393.62	161.93	231.69	1.699		
11,600.00	7,233.56	11,416.40	7,043.70	133.13	132.86	-61.15	-276.16	-4,771.97	393.53	156.95	236.58	1.663		
11,700.00	7,233.25	11,516.40	7,043.27	135.91	135.64	-61.13	-276.76	-4,871.97	393.44	151.97	241.47	1.629		
11,800.00	7,232.94	11,616.40	7,042.84	138.68	138.42	-61.10	-277.36	-4,971.96	393.35	146.99	246.36	1.597		
11,900.00	7,232.63	11,716.40	7,042.40	141.47	141.21	-61.07	-277.96	-5,071.96	393.26	142.01	251.26	1.565		
12,000.00	7,232.32	11,816.40	7,041.97	144.25	144.00	-61.04	-278.56	-5,171.96	393.17	137.02	256.15	1.535		
12,100.00	7,232.00	11,916.40	7,041.53	147.04	146.79	-61.02	-279.16	-5,271.96	393.08	132.03	261.06	1.506		
12,200.00	7,231.69	12,016.40	7,041.10	149.83	149.59	-60.99	-279.76	-5,371.95	393.00	127.04	265.96	1.478 Level 3		
12,300.00	7,231.38	12,116.40	7,040.67	152.62	152.38	-60.96	-280.36	-5,471.95	392.91	122.04	270.86	1.451 Level 3		
12,400.00	7,231.07	12,216.40	7,040.23	155.42	155.18	-60.93	-280.95	-5,571.95	392.82	117.05	275.77	1.424 Level 3		
12,500.00	7,230.76	12,316.40	7,039.80	158.22	157.98	-60.91	-281.55	-5,671.94	392.73	112.05	280.68	1.399 Level 3		
12,600.00	7,230.44	12,416.40	7,039.37	161.01	160.79	-60.88	-282.15	-5,771.94	392.64	107.06	285.59	1.375 Level 3		
12,700.00	7,230.13	12,516.40	7,038.93	163.82	163.59	-60.85	-282.75	-5,871.94	392.56	102.06	290.50	1.351 Level 3		
12,800.00	7,229.82	12,616.40	7,038.50	166.62	166.40	-60.82	-283.35	-5,971.94	392.47	97.06	295.41	1.329 Level 3		
12,900.00	7,229.51	12,716.40	7,038.06	169.43	169.21	-60.80	-283.95	-6,071.93	392.38	92.06	300.32	1.307 Level 3		
13,000.00	7,229.20	12,816.40	7,037.63	172.23	172.02	-60.77	-284.55	-6,171.93	392.29	87.06	305.23	1.285 Level 3		
13,100.00	7,228.88	12,916.40	7,037.20	175.04	174.83	-60.74	-285.15	-6,271.93	392.20	82.06	310.15	1.265 Level 3		
13,200.00	7,228.57	13,016.40	7,036.76	177.85	177.65	-60.71	-285.74	-6,371.92	392.12	77.06	315.06	1.245 Level 2		
13,300.00	7,228.26	13,116.40	7,036.33	180.66	180.46	-60.69	-286.34	-6,471.92	392.03	72.06	319.97	1.225 Level 2		
13,400.00	7,227.95	13,216.40	7,035.89	183.48	183.28	-60.66	-286.94	-6,571.92	391.94	67.05	324.89	1.206 Level 2		
13,500.00	7,227.64	13,316.40	7,035.46	186.29	186.10	-60.63	-287.54	-6,671.91	391.85	62.05	329.80	1.188 Level 2		
13,600.00	7,227.33	13,416.40	7,035.03	189.11	188.92	-60.60	-288.14	-6,771.91	391.77	57.05	334.71	1.170 Level 2		
13,700.00	7,227.01	13,516.39	7,034.59	191.92	191.74	-60.58	-288.74	-6,871.91	391.68	52.05	339.63	1.153 Level 2		
13,800.00	7,226.70	13,616.39	7,034.16	194.74	194.56	-60.55	-289.34	-6,971.91	391.59	47.05	344.54	1.137 Level 2		
13,900.00	7,226.39	13,716.39	7,033.72	197.56	197.38	-60.52	-289.94	-7,071.90	391.51	42.06	349.45	1.120 Level 2		
14,000.00	7,226.08	13,816.39	7,033.29	200.38	200.21	-60.49	-290.53	-7,171.90	391.42	37.06	354.36	1.105 Level 2		
14,100.00	7,225.77	13,916.39	7,032.86	203.21	203.03	-60.46	-291.13	-7,271.90	391.33	32.06	359.27	1.089 Level 2		
14,200.00	7,225.45	14,016.39	7,032.42	206.03	205.86	-60.44	-291.73	-7,371.89	391.25	27.06	364.18	1.074 Level 2		
14,300.00	7,225.14	14,116.39	7,031.99	208.85	208.68	-60.41	-292.33	-7,471.89	391.16	22.07	369.09	1.060 Level 2		
14,400.00	7,224.83	14,216.39	7,031.55	211.68	211.51	-60.38	-292.93	-7,571.89	391.07	17.07	374.00	1.046 Level 2		
14,500.00	7,224.52	14,316.39	7,031.12	214.50	214.34	-60.35	-293.53	-7,671.89	390.99	12.08	378.90	1.032 Level 2		
14,600.00	7,224.21	14,416.39	7,030.69	217.33	217.17	-60.33	-294.13	-7,771.88	390.90	7.09	383.81	1.018 Level 2		
14,700.00	7,223.89	14,516.39	7,030.25	220.16	220.00	-60.30	-294.73	-7,871.88	390.81	2.10	388.72	1.005 Level 2		
14,800.00	7,223.58	14,616.39	7,029.82	222.98	222.83	-60.27	-295.32	-7,971.88	390.73	-2.89	393.62	0.993 Level 1		
14,900.00	7,223.27	14,716.39	7,029.38	225.81	225.66	-60.24	-295.92	-8,071.87	390.64	-7.88	398.52	0.980 Level 1		
14,987.41	7,223.00	14,803.80	7,029.00	228.28	228.13	-60.22	-296.45	-8,159.28	390.57	-12.24	402.81	0.970 Level 1, ES, SF		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	0.00	0.00	3.28	3.28	-179.20	-20.03	-0.28	20.03					
100.00	100.00	100.00	100.00	3.28	3.28	-179.20	-20.03	-0.28	20.03	13.46	6.57	3.049		
200.00	200.00	200.00	200.00	3.34	3.34	-179.20	-20.03	-0.28	20.03	13.36	6.67	3.001		
300.00	300.00	300.00	300.00	3.44	3.44	-179.20	-20.03	-0.28	20.03	13.14	6.89	2.907		
400.00	400.00	400.00	400.00	3.60	3.60	-179.20	-20.03	-0.28	20.03	12.82	7.21	2.779		
500.00	500.00	500.00	500.00	3.81	3.81	-179.20	-20.03	-0.28	20.03	12.42	7.61	2.631 CC		
600.00	600.00	600.03	599.95	4.05	4.04	-174.63	-20.03	-1.88	20.12	12.03	8.09	2.488		
700.00	699.98	700.04	699.91	4.32	4.30	-114.01	-20.03	-4.38	21.14	12.52	8.62	2.453		
800.00	799.94	800.06	799.86	4.61	4.59	-114.60	-20.03	-6.88	22.69	13.50	9.20	2.467		
900.00	899.89	900.07	899.82	4.92	4.90	-115.12	-20.03	-9.38	24.25	14.43	9.82	2.469		
1,000.00	999.85	1,000.08	999.78	5.25	5.23	-115.58	-20.03	-11.88	25.81	15.32	10.49	2.461		
1,100.00	1,099.80	1,100.09	1,099.73	5.60	5.58	-115.98	-20.03	-14.37	27.37	16.19	11.18	2.448		
1,200.00	1,199.76	1,200.11	1,199.69	5.96	5.94	-116.34	-20.03	-16.87	28.93	17.04	11.90	2.432		
1,300.00	1,299.72	1,300.12	1,299.65	6.33	6.30	-116.67	-20.03	-19.37	30.50	17.86	12.63	2.414		
1,400.00	1,399.67	1,400.13	1,399.60	6.71	6.68	-116.96	-20.03	-21.87	32.06	18.67	13.39	2.395		
1,500.00	1,499.63	1,500.14	1,499.56	7.10	7.07	-117.22	-20.03	-24.37	33.63	19.47	14.16	2.375		
1,600.00	1,599.58	1,600.16	1,599.52	7.49	7.46	-117.47	-20.03	-26.87	35.19	20.25	14.94	2.355		
1,700.00	1,699.54	1,700.17	1,699.47	7.88	7.85	-117.69	-20.03	-29.36	36.76	21.03	15.73	2.336		
1,800.00	1,799.50	1,800.18	1,799.43	8.28	8.25	-117.89	-20.03	-31.86	38.33	21.79	16.53	2.318		
1,900.00	1,899.45	1,900.19	1,899.38	8.69	8.66	-118.08	-20.03	-34.36	39.89	22.55	17.34	2.300		
2,000.00	1,999.41	1,999.79	1,999.34	9.10	9.06	-118.25	-20.03	-36.86	41.46	23.30	18.16	2.283		
2,100.00	2,099.36	2,100.22	2,099.30	9.51	9.48	-118.41	-20.03	-39.36	43.03	24.05	18.98	2.267		
2,200.00	2,199.32	2,200.23	2,199.25	9.92	9.89	-118.56	-20.03	-41.86	44.60	24.79	19.81	2.252		
2,300.00	2,299.28	2,300.24	2,299.21	10.34	10.30	-118.70	-20.03	-44.35	46.16	25.53	20.64	2.237		
2,400.00	2,399.23	2,400.26	2,399.17	10.75	10.72	-118.83	-20.03	-46.85	47.73	26.26	21.47	2.223		
2,500.00	2,499.19	2,500.27	2,499.12	11.17	11.14	-118.95	-20.03	-49.35	49.30	26.99	22.31	2.210		
2,600.00	2,599.14	2,600.28	2,599.08	11.60	11.56	-119.06	-20.03	-51.85	50.87	27.72	23.15	2.198		
2,700.00	2,699.10	2,700.29	2,699.04	12.02	11.98	-119.17	-20.03	-54.35	52.44	28.45	23.99	2.186		
2,800.00	2,799.06	2,800.30	2,798.99	12.44	12.41	-119.27	-20.03	-56.85	54.01	29.17	24.84	2.174		
2,900.00	2,899.01	2,900.32	2,898.95	12.87	12.83	-119.37	-20.03	-59.34	55.58	29.89	25.69	2.164		
3,000.00	2,998.97	3,000.33	2,998.91	13.29	13.26	-119.46	-20.03	-61.84	57.15	30.61	26.54	2.153		
3,100.00	3,098.92	3,100.34	3,098.86	13.72	13.68	-119.54	-20.03	-64.34	58.72	31.33	27.39	2.144		
3,200.00	3,198.88	3,200.35	3,198.82	14.14	14.11	-119.62	-20.03	-66.84	60.29	32.04	28.25	2.134		
3,300.00	3,298.84	3,300.37	3,298.77	14.57	14.54	-119.70	-20.03	-69.34	61.86	32.76	29.10	2.126		
3,400.00	3,398.79	3,400.38	3,398.73	15.00	14.97	-119.77	-20.03	-71.84	63.43	33.47	29.96	2.117		
3,500.00	3,498.75	3,500.39	3,498.69	15.43	15.40	-119.84	-20.03	-74.34	65.00	34.18	30.82	2.109		
3,600.00	3,598.70	3,600.40	3,598.64	15.86	15.83	-119.91	-20.03	-76.83	66.57	34.89	31.68	2.102		
3,700.00	3,698.66	3,700.42	3,698.60	16.29	16.26	-119.97	-20.03	-79.33	68.14	35.60	32.54	2.094		
3,800.00	3,798.62	3,800.43	3,798.56	16.72	16.69	-120.03	-20.03	-81.83	69.71	36.31	33.40	2.087		
3,900.00	3,898.57	3,900.44	3,898.51	17.15	17.12	-120.09	-20.03	-84.33	71.28	37.02	34.26	2.081		
4,000.00	3,998.53	4,000.45	3,998.47	17.59	17.55	-120.14	-20.03	-86.83	72.86	37.73	35.13	2.074		
4,100.00	4,098.48	4,100.47	4,098.43	18.02	17.99	-120.19	-20.03	-89.33	74.43	38.44	35.99	2.068		
4,200.00	4,198.44	4,200.48	4,198.38	18.45	18.42	-120.24	-20.03	-91.82	76.00	39.14	36.86	2.062		
4,300.00	4,298.40	4,300.49	4,298.34	18.88	18.85	-120.29	-20.03	-94.32	77.57	39.85	37.72	2.056		
4,400.00	4,398.35	4,400.50	4,398.30	19.32	19.28	-120.34	-20.03	-96.82	79.14	40.55	38.59	2.051		
4,500.00	4,498.31	4,500.51	4,498.25	19.75	19.72	-120.38	-20.03	-99.32	80.71	41.26	39.45	2.046		
4,600.00	4,598.26	4,600.53	4,598.21	20.19	20.15	-120.43	-20.03	-101.82	82.28	41.96	40.32	2.041		
4,700.00	4,698.22	4,700.54	4,698.16	20.62	20.59	-120.47	-20.03	-104.32	83.85	42.66	41.19	2.036		
4,800.00	4,798.18	4,800.55	4,798.12	21.05	21.02	-120.51	-20.03	-106.81	85.42	43.36	42.06	2.031		
4,900.00	4,898.13	4,900.56	4,898.08	21.49	21.46	-120.55	-20.03	-109.31	87.00	44.07	42.93	2.027		
5,000.00	4,998.09	5,000.58	4,998.03	21.92	21.89	-120.58	-20.03	-111.81	88.57	44.77	43.80	2.022		
5,100.00	5,098.04	5,100.59	5,097.99	22.36	22.33	-120.62	-20.03	-114.31	90.14	45.47	44.67	2.018		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,200.60	5,197.95	22.79	22.76	-120.65	-20.03	-116.81	91.71	46.17	45.54	2.014		
5,300.00	5,297.96	5,300.61	5,297.90	23.23	23.20	-120.69	-20.03	-119.31	93.28	46.87	46.41	2.010		
5,400.00	5,397.91	5,400.63	5,397.86	23.67	23.63	-120.72	-20.03	-121.80	94.85	47.57	47.28	2.006		
5,500.00	5,497.87	5,500.64	5,497.82	24.10	24.07	-120.75	-20.03	-124.30	96.42	48.27	48.15	2.003		
5,600.00	5,597.82	5,600.65	5,597.77	24.54	24.51	-120.78	-20.03	-126.80	98.00	48.97	49.02	1.999		
5,700.00	5,697.78	5,700.66	5,697.73	24.97	24.94	-120.81	-20.03	-129.30	99.57	49.67	49.89	1.996		
5,800.00	5,797.74	5,800.68	5,797.69	25.41	25.38	-120.84	-20.03	-131.80	101.14	50.37	50.77	1.992		
5,900.00	5,897.69	5,900.69	5,897.64	25.85	25.82	-120.87	-20.03	-134.30	102.71	51.07	51.64	1.989		
6,000.00	5,997.65	6,000.70	5,997.60	26.28	26.25	-120.89	-20.03	-136.79	104.28	51.77	52.51	1.986		
6,100.00	6,097.60	6,100.71	6,097.55	26.72	26.69	-120.92	-20.03	-139.29	105.85	52.47	53.39	1.983		
6,200.00	6,197.56	6,200.72	6,197.51	27.16	27.13	-120.94	-20.03	-141.79	107.42	53.17	54.26	1.980		
6,300.00	6,297.52	6,300.74	6,297.47	27.59	27.56	-120.97	-20.03	-144.29	109.00	53.86	55.13	1.977		
6,400.00	6,397.47	6,400.75	6,397.42	28.03	28.00	-120.99	-20.03	-146.79	110.57	54.56	56.01	1.974		
6,500.00	6,497.43	6,500.76	6,497.38	28.47	28.44	-121.02	-20.03	-149.29	112.14	55.26	56.88	1.972		
6,600.00	6,597.38	6,598.14	6,595.85	28.90	28.87	-118.12	-20.14	-157.55	114.08	56.35	57.73	1.976		
6,700.00	6,697.08	6,693.94	6,688.91	29.34	29.30	-84.18	-20.53	-179.85	118.36	59.92	58.44	2.025		
6,800.00	6,794.63	6,787.33	6,775.44	29.79	29.72	-73.31	-21.17	-214.80	124.88	66.14	58.74	2.126		
6,900.00	6,887.62	6,878.72	6,854.26	30.24	30.14	-66.09	-22.04	-260.87	132.77	74.35	58.43	2.273		
7,000.00	6,973.77	6,968.38	6,924.42	30.70	30.57	-60.63	-23.09	-316.58	141.23	83.74	57.49	2.457		
7,100.00	7,050.94	7,056.60	6,985.13	31.20	31.06	-56.49	-24.31	-380.46	149.57	93.47	56.10	2.666		
7,200.00	7,117.24	7,143.63	7,035.82	31.77	31.61	-53.39	-25.67	-451.11	157.23	102.70	54.54	2.883		
7,300.00	7,171.03	7,229.73	7,076.03	32.46	32.27	-51.18	-27.14	-527.16	163.81	110.66	53.15	3.082		
7,400.00	7,211.00	7,315.14	7,105.42	33.29	33.04	-49.72	-28.69	-607.28	168.99	116.70	52.29	3.232		
7,500.00	7,236.16	7,400.10	7,123.76	34.29	33.93	-48.93	-30.30	-690.15	172.57	120.31	52.26	3.302		
7,600.00	7,245.89	7,484.82	7,130.90	35.43	34.92	-48.77	-31.95	-774.50	174.43	121.16	53.28	3.274		
7,700.00	7,245.73	7,582.33	7,130.69	36.72	36.20	-49.00	-33.85	-871.98	175.35	119.89	55.47	3.161		
7,800.00	7,245.42	7,682.32	7,130.33	38.18	37.67	-49.24	-35.81	-971.96	176.29	118.28	58.01	3.039		
7,900.00	7,245.10	7,782.32	7,129.96	39.80	39.30	-49.48	-37.76	-1,071.93	177.22	116.42	60.81	2.915		
8,000.00	7,244.79	7,882.31	7,129.60	41.54	41.06	-49.71	-39.72	-1,171.90	178.16	114.34	63.83	2.791		
8,100.00	7,244.48	7,982.30	7,129.23	43.41	42.94	-49.94	-41.67	-1,271.88	179.11	112.06	67.04	2.671		
8,200.00	7,244.17	8,082.30	7,128.86	45.38	44.92	-50.17	-43.63	-1,371.85	180.05	109.61	70.44	2.556		
8,300.00	7,243.86	8,182.29	7,128.50	47.44	46.99	-50.40	-45.59	-1,471.82	181.00	107.01	73.99	2.446		
8,400.00	7,243.55	8,282.28	7,128.13	49.58	49.14	-50.63	-47.54	-1,571.79	181.95	104.27	77.68	2.342		
8,500.00	7,243.23	8,382.28	7,127.77	51.78	51.36	-50.85	-49.50	-1,671.77	182.91	101.41	81.49	2.244		
8,600.00	7,242.92	8,482.27	7,127.40	54.05	53.63	-51.07	-51.45	-1,771.74	183.86	98.45	85.41	2.153		
8,700.00	7,242.61	8,582.26	7,127.03	56.37	55.96	-51.29	-53.41	-1,871.71	184.82	95.39	89.43	2.067		
8,800.00	7,242.30	8,682.25	7,126.67	58.74	58.34	-51.50	-55.36	-1,971.69	185.79	92.24	93.54	1.986		
8,900.00	7,241.99	8,782.25	7,126.30	61.16	60.76	-51.72	-57.32	-2,071.66	186.75	89.02	97.73	1.911		
9,000.00	7,241.67	8,882.24	7,125.93	63.61	63.22	-51.93	-59.27	-2,171.63	187.72	85.72	101.99	1.840		
9,100.00	7,241.36	8,982.23	7,125.57	66.09	65.70	-52.14	-61.23	-2,271.61	188.69	82.37	106.32	1.775		
9,200.00	7,241.05	9,082.23	7,125.20	68.60	68.22	-52.35	-63.18	-2,371.58	189.66	78.95	110.71	1.713		
9,300.00	7,240.74	9,182.22	7,124.84	71.13	70.76	-52.55	-65.14	-2,471.55	190.64	75.48	115.16	1.655		
9,400.00	7,240.43	9,282.21	7,124.47	73.70	73.33	-52.76	-67.10	-2,571.53	191.61	71.96	119.65	1.601		
9,500.00	7,240.11	9,382.20	7,124.10	76.28	75.91	-52.96	-69.05	-2,671.50	192.59	68.40	124.20	1.551		
9,600.00	7,239.80	9,482.20	7,123.74	78.88	78.52	-53.16	-71.01	-2,771.47	193.58	64.79	128.78	1.503		
9,700.00	7,239.49	9,582.19	7,123.37	81.50	81.14	-53.35	-72.96	-2,871.45	194.56	61.15	133.41	1.458 Level 3		
9,800.00	7,239.18	9,682.18	7,123.01	84.13	83.77	-53.55	-74.92	-2,971.42	195.55	57.47	138.08	1.416 Level 3		
9,900.00	7,238.87	9,782.18	7,122.64	86.78	86.42	-53.74	-76.87	-3,071.39	196.54	53.75	142.78	1.376 Level 3		
10,000.00	7,238.55	9,882.17	7,122.27	89.44	89.08	-53.93	-78.83	-3,171.37	197.53	50.01	147.52	1.339 Level 3		
10,100.00	7,238.24	9,982.16	7,121.91	92.11	91.76	-54.12	-80.78	-3,271.34	198.52	46.23	152.29	1.304 Level 3		
10,200.00	7,237.93	10,082.15	7,121.54	94.80	94.44	-54.31	-82.74	-3,371.31	199.52	42.43	157.09	1.270 Level 3		
10,300.00	7,237.62	10,182.15	7,121.17	97.49	97.14	-54.49	-84.69	-3,471.28	200.51	38.60	161.92	1.238 Level 2		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	10,282.14	7,120.81	100.19	99.84	-54.68	-86.65	-3,571.26	201.51	34.74	166.77	1.208	Level 2	
10,500.00	7,236.99	10,382.13	7,120.44	102.90	102.55	-54.86	-88.60	-3,671.23	202.51	30.86	171.65	1.180	Level 2	
10,600.00	7,236.68	10,482.13	7,120.08	105.62	105.27	-55.04	-90.56	-3,771.20	203.52	26.96	176.56	1.153	Level 2	
10,700.00	7,236.37	10,582.12	7,119.71	108.35	108.00	-55.22	-92.52	-3,871.18	204.52	23.04	181.49	1.127	Level 2	
10,800.00	7,236.06	10,682.11	7,119.34	111.08	110.73	-55.39	-94.47	-3,971.15	205.53	19.09	186.44	1.102	Level 2	
10,900.00	7,235.75	10,782.11	7,118.98	113.82	113.47	-55.57	-96.43	-4,071.12	206.54	15.13	191.41	1.079	Level 2	
11,000.00	7,235.44	10,882.10	7,118.61	116.56	116.21	-55.74	-98.38	-4,171.10	207.55	11.14	196.41	1.057	Level 2	
11,100.00	7,235.12	10,982.09	7,118.25	119.31	118.96	-55.91	-100.34	-4,271.07	208.57	7.14	201.42	1.035	Level 2	
11,200.00	7,234.81	11,082.08	7,117.88	122.07	121.71	-56.08	-102.29	-4,371.04	209.58	3.13	206.46	1.015	Level 2	
11,300.00	7,234.50	11,182.08	7,117.51	124.83	124.47	-56.25	-104.25	-4,471.02	210.60	-0.91	211.51	0.996	Level 1	
11,400.00	7,234.19	11,282.07	7,117.15	127.59	127.24	-56.42	-106.20	-4,570.99	211.62	-4.96	216.57	0.977	Level 1	
11,500.00	7,233.88	11,382.06	7,116.78	130.36	130.00	-56.58	-108.16	-4,670.96	212.64	-9.02	221.66	0.959	Level 1	
11,600.00	7,233.56	11,482.06	7,116.41	133.13	132.77	-56.75	-110.11	-4,770.94	213.66	-13.10	226.76	0.942	Level 1	
11,700.00	7,233.25	11,582.05	7,116.05	135.91	135.55	-56.91	-112.07	-4,870.91	214.69	-17.19	231.88	0.926	Level 1	
11,800.00	7,232.94	11,682.04	7,115.68	138.68	138.32	-57.07	-114.03	-4,970.88	215.71	-21.30	237.01	0.910	Level 1	
11,900.00	7,232.63	11,782.03	7,115.32	141.47	141.10	-57.23	-115.98	-5,070.85	216.74	-25.42	242.16	0.895	Level 1	
12,000.00	7,232.32	11,882.03	7,114.95	144.25	143.89	-57.38	-117.94	-5,170.83	217.77	-29.55	247.32	0.881	Level 1	
12,100.00	7,232.00	11,982.02	7,114.58	147.04	146.67	-57.54	-119.89	-5,270.80	218.80	-33.70	252.50	0.867	Level 1	
12,200.00	7,231.69	12,082.01	7,114.22	149.83	149.46	-57.69	-121.85	-5,370.77	219.83	-37.86	257.69	0.853	Level 1	
12,300.00	7,231.38	12,182.01	7,113.85	152.62	152.25	-57.85	-123.80	-5,470.75	220.86	-42.02	262.89	0.840	Level 1	
12,400.00	7,231.07	12,282.00	7,113.49	155.42	155.04	-58.00	-125.76	-5,570.72	221.90	-46.20	268.10	0.828	Level 1	
12,500.00	7,230.76	12,381.99	7,113.12	158.22	157.84	-58.15	-127.71	-5,670.69	222.94	-50.39	273.33	0.816	Level 1	
12,600.00	7,230.44	12,481.99	7,112.75	161.01	160.64	-58.30	-129.67	-5,770.67	223.98	-54.59	278.57	0.804	Level 1	
12,700.00	7,230.13	12,581.98	7,112.39	163.82	163.44	-58.44	-131.62	-5,870.64	225.02	-58.80	283.82	0.793	Level 1	
12,800.00	7,229.82	12,681.97	7,112.02	166.62	166.24	-58.59	-133.58	-5,970.61	226.06	-63.02	289.08	0.782	Level 1	
12,900.00	7,229.51	12,781.96	7,111.65	169.43	169.04	-58.73	-135.53	-6,070.59	227.10	-67.25	294.35	0.772	Level 1	
13,000.00	7,229.20	12,881.96	7,111.29	172.23	171.84	-58.88	-137.49	-6,170.56	228.15	-71.49	299.64	0.761	Level 1	
13,100.00	7,228.88	12,981.95	7,110.92	175.04	174.65	-59.02	-139.45	-6,270.53	229.19	-75.74	304.93	0.752	Level 1	
13,200.00	7,228.57	13,081.94	7,110.56	177.85	177.46	-59.16	-141.40	-6,370.51	230.24	-79.99	310.23	0.742	Level 1	
13,300.00	7,228.26	13,181.94	7,110.19	180.66	180.27	-59.30	-143.36	-6,470.48	231.29	-84.26	315.54	0.733	Level 1	
13,400.00	7,227.95	13,281.93	7,109.82	183.48	183.08	-59.44	-145.31	-6,570.45	232.34	-88.53	320.86	0.724	Level 1	
13,500.00	7,227.64	13,381.92	7,109.46	186.29	185.89	-59.57	-147.27	-6,670.42	233.39	-92.81	326.20	0.715	Level 1	
13,600.00	7,227.33	13,481.91	7,109.09	189.11	188.70	-59.71	-149.22	-6,770.40	234.44	-97.09	331.54	0.707	Level 1	
13,700.00	7,227.01	13,581.91	7,108.73	191.92	191.52	-59.84	-151.18	-6,870.37	235.49	-101.39	336.88	0.699	Level 1	
13,800.00	7,226.70	13,681.90	7,108.36	194.74	194.33	-59.98	-153.13	-6,970.34	236.55	-105.69	342.24	0.691	Level 1	
13,900.00	7,226.39	13,781.89	7,107.99	197.56	197.15	-60.11	-155.09	-7,070.32	237.61	-110.00	347.61	0.684	Level 1	
14,000.00	7,226.08	13,881.89	7,107.63	200.38	199.97	-60.24	-157.04	-7,170.29	238.66	-114.32	352.98	0.676	Level 1	
14,100.00	7,225.77	13,981.88	7,107.26	203.21	202.78	-60.37	-159.00	-7,270.26	239.72	-118.64	358.36	0.669	Level 1	
14,200.00	7,225.45	14,081.87	7,106.89	206.03	205.60	-60.50	-160.96	-7,370.24	240.78	-122.97	363.75	0.662	Level 1	
14,300.00	7,225.14	14,181.87	7,106.53	208.85	208.42	-60.63	-162.91	-7,470.21	241.84	-127.30	369.15	0.655	Level 1	
14,400.00	7,224.83	14,281.86	7,106.16	211.68	211.25	-60.75	-164.87	-7,570.18	242.91	-131.64	374.55	0.649	Level 1	
14,500.00	7,224.52	14,381.85	7,105.80	214.50	214.07	-60.88	-166.82	-7,670.16	243.97	-135.99	379.96	0.642	Level 1	
14,600.00	7,224.21	14,481.84	7,105.43	217.33	216.89	-61.00	-168.78	-7,770.13	245.04	-140.34	385.38	0.636	Level 1	
14,700.00	7,223.89	14,581.84	7,105.06	220.16	219.72	-61.12	-170.73	-7,870.10	246.10	-144.70	390.80	0.630	Level 1	
14,800.00	7,223.58	14,681.83	7,104.70	222.98	222.54	-61.25	-172.69	-7,970.08	247.17	-149.07	396.23	0.624	Level 1	
14,900.00	7,223.27	14,781.82	7,104.33	225.81	225.37	-61.37	-174.64	-8,070.05	248.24	-153.44	401.67	0.618	Level 1	
14,987.41	7,223.00	14,869.23	7,104.01	228.28	227.84	-61.47	-176.35	-8,157.44	249.17	-157.26	406.43	0.613	Level 1, ES, SF	



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	61.00	3.28	3.28	-115.53	-4,295.70	-8,995.15	9,968.42					
100.00	100.00	39.00	100.00	3.28	3.35	-115.53	-4,295.70	-8,995.15	9,968.23	9,961.60	6.63	1,502.457		
200.00	200.00	139.00	200.00	3.34	4.52	-115.53	-4,295.70	-8,995.15	9,968.23	9,960.38	7.85	1,269.035		
300.00	300.00	239.00	300.00	3.44	7.37	-115.53	-4,295.70	-8,995.15	9,968.23	9,957.42	10.81	921.857		
400.00	400.00	339.00	400.00	3.60	10.61	-115.53	-4,295.70	-8,995.15	9,968.23	9,954.02	14.21	701.390		
500.00	500.00	439.00	500.00	3.81	13.97	-115.53	-4,295.70	-8,995.15	9,968.23	9,950.46	17.78	560.753		
600.00	600.00	539.00	600.00	4.05	17.38	-115.53	-4,295.70	-8,995.15	9,968.23	9,946.81	21.43	465.163		
700.00	699.98	638.98	699.98	4.32	20.82	-57.55	-4,295.70	-8,995.15	9,967.32	9,942.18	25.14	396.538		
800.00	799.94	738.94	799.94	4.61	24.27	-57.56	-4,295.70	-8,995.15	9,965.73	9,936.85	28.88	345.078		
900.00	899.89	838.89	899.89	4.92	27.73	-57.58	-4,295.70	-8,995.15	9,964.14	9,931.48	32.65	305.137		
1,000.00	999.85	938.85	999.85	5.25	31.20	-57.59	-4,295.70	-8,995.15	9,962.54	9,926.09	36.45	273.292		
1,100.00	1,099.80	1,038.80	1,099.80	5.60	34.67	-57.60	-4,295.70	-8,995.15	9,960.95	9,920.68	40.27	247.341		
1,200.00	1,199.76	1,138.76	1,199.76	5.96	38.15	-57.62	-4,295.70	-8,995.15	9,959.36	9,915.26	44.11	225.806		
1,300.00	1,299.72	1,238.72	1,299.72	6.33	41.63	-57.63	-4,295.70	-8,995.15	9,957.77	9,909.82	47.95	207.661		
1,400.00	1,399.67	1,338.67	1,399.67	6.71	45.11	-57.65	-4,295.70	-8,995.15	9,956.19	9,904.38	51.81	192.172		
1,500.00	1,499.63	1,438.63	1,499.63	7.10	48.59	-57.66	-4,295.70	-8,995.15	9,954.60	9,898.92	55.67	178.803		
1,600.00	1,599.58	1,538.58	1,599.58	7.49	52.07	-57.68	-4,295.70	-8,995.15	9,953.01	9,893.47	59.55	167.149		
1,700.00	1,699.54	1,638.54	1,699.54	7.88	55.55	-57.69	-4,295.70	-8,995.15	9,951.42	9,888.00	63.42	156.903		
1,800.00	1,799.50	1,738.50	1,799.50	8.28	59.04	-57.71	-4,295.70	-8,995.15	9,949.84	9,882.53	67.31	147.826		
1,900.00	1,899.45	1,838.45	1,899.45	8.69	62.52	-57.72	-4,295.70	-8,995.15	9,948.25	9,877.06	71.20	139.732		
2,000.00	1,999.41	1,938.41	1,999.41	9.10	66.01	-57.73	-4,295.70	-8,995.15	9,946.67	9,871.58	75.09	132.468		
2,100.00	2,099.36	2,038.36	2,099.36	9.51	69.49	-57.75	-4,295.70	-8,995.15	9,945.08	9,866.10	78.98	125.916		
2,200.00	2,199.32	2,138.32	2,199.32	9.92	72.98	-57.76	-4,295.70	-8,995.15	9,943.50	9,860.62	82.88	119.975		
2,300.00	2,299.28	2,238.28	2,299.28	10.34	76.46	-57.78	-4,295.70	-8,995.15	9,941.92	9,855.14	86.78	114.564		
2,400.00	2,399.23	2,338.23	2,399.23	10.75	79.95	-57.79	-4,295.70	-8,995.15	9,940.34	9,849.65	90.68	109.616		
2,500.00	2,499.19	2,438.19	2,499.19	11.17	83.44	-57.81	-4,295.70	-8,995.15	9,938.75	9,844.17	94.59	105.075		
2,600.00	2,599.14	2,538.14	2,599.14	11.60	86.92	-57.82	-4,295.70	-8,995.15	9,937.17	9,838.68	98.49	100.891		
2,700.00	2,699.10	2,638.10	2,699.10	12.02	90.41	-57.84	-4,295.70	-8,995.15	9,935.59	9,833.19	102.40	97.026		
2,800.00	2,799.06	2,738.06	2,799.06	12.44	93.90	-57.85	-4,295.70	-8,995.15	9,934.01	9,827.70	106.31	93.443		
2,900.00	2,899.01	2,838.01	2,899.01	12.87	97.38	-57.86	-4,295.70	-8,995.15	9,932.43	9,822.21	110.22	90.113		
3,000.00	2,998.97	2,937.97	2,998.97	13.29	100.87	-57.88	-4,295.70	-8,995.15	9,930.86	9,816.72	114.13	87.011		
3,100.00	3,098.92	3,037.92	3,098.92	13.72	104.36	-57.89	-4,295.70	-8,995.15	9,929.28	9,811.23	118.05	84.113		
3,200.00	3,198.88	3,137.88	3,198.88	14.14	107.85	-57.91	-4,295.70	-8,995.15	9,927.70	9,805.74	121.96	81.401		
3,300.00	3,298.84	3,237.84	3,298.84	14.57	111.34	-57.92	-4,295.70	-8,995.15	9,926.12	9,800.25	125.87	78.857		
3,400.00	3,398.79	3,337.79	3,398.79	15.00	114.82	-57.94	-4,295.70	-8,995.15	9,924.55	9,794.76	129.79	76.466		
3,500.00	3,498.75	3,437.75	3,498.75	15.43	118.31	-57.95	-4,295.70	-8,995.15	9,922.97	9,789.27	133.71	74.215		
3,600.00	3,598.70	3,537.70	3,598.70	15.86	121.80	-57.97	-4,295.70	-8,995.15	9,921.40	9,783.78	137.62	72.091		
3,700.00	3,698.66	3,637.66	3,698.66	16.29	125.29	-57.98	-4,295.70	-8,995.15	9,919.83	9,778.28	141.54	70.085		
3,800.00	3,798.62	3,737.62	3,798.62	16.72	128.78	-58.00	-4,295.70	-8,995.15	9,918.25	9,772.79	145.46	68.186		
3,900.00	3,898.57	3,837.57	3,898.57	17.15	132.27	-58.01	-4,295.70	-8,995.15	9,916.68	9,767.30	149.38	66.387		
4,000.00	3,998.53	3,937.53	3,998.53	17.59	135.75	-58.02	-4,295.70	-8,995.15	9,915.11	9,761.81	153.30	64.679		
4,100.00	4,098.48	4,037.48	4,098.48	18.02	139.24	-58.04	-4,295.70	-8,995.15	9,913.54	9,756.32	157.22	63.057		
4,200.00	4,198.44	4,137.44	4,198.44	18.45	142.73	-58.05	-4,295.70	-8,995.15	9,911.97	9,750.83	161.14	61.513		
4,300.00	4,298.40	4,237.40	4,298.40	18.88	146.22	-58.07	-4,295.70	-8,995.15	9,910.40	9,745.34	165.06	60.043		
4,400.00	4,398.35	4,337.35	4,398.35	19.32	149.71	-58.08	-4,295.70	-8,995.15	9,908.83	9,739.85	168.98	58.640		
4,500.00	4,498.31	4,437.31	4,498.31	19.75	153.20	-58.10	-4,295.70	-8,995.15	9,907.26	9,734.36	172.90	57.301		
4,600.00	4,598.26	4,537.26	4,598.26	20.19	156.69	-58.11	-4,295.70	-8,995.15	9,905.69	9,728.87	176.82	56.022		
4,700.00	4,698.22	4,637.22	4,698.22	20.62	160.17	-58.13	-4,295.70	-8,995.15	9,904.12	9,723.38	180.74	54.797		
4,800.00	4,798.18	4,737.18	4,798.18	21.05	163.66	-58.14	-4,295.70	-8,995.15	9,902.55	9,717.89	184.66	53.625		
4,900.00	4,898.13	4,837.13	4,898.13	21.49	167.15	-58.16	-4,295.70	-8,995.15	9,900.99	9,712.40	188.58	52.502		
5,000.00	4,998.09	4,937.09	4,998.09	21.92	170.64	-58.17	-4,295.70	-8,995.15	9,899.42	9,706.92	192.51	51.424		
5,100.00	5,098.04	5,037.04	5,098.04	22.36	174.13	-58.18	-4,295.70	-8,995.15	9,897.86	9,701.43	196.43	50.389		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,137.00	5,198.00	22.79	177.62	-58.20	-4,295.70	-8,995.15	9,896.29	9,695.94	200.35	49.394		
5,300.00	5,297.96	5,236.96	5,297.96	23.23	181.11	-58.21	-4,295.70	-8,995.15	9,894.73	9,690.45	204.28	48.438		
5,400.00	5,397.91	5,336.91	5,397.91	23.67	184.60	-58.23	-4,295.70	-8,995.15	9,893.17	9,684.97	208.20	47.518		
5,500.00	5,497.87	5,436.87	5,497.87	24.10	188.08	-58.24	-4,295.70	-8,995.15	9,891.60	9,679.48	212.12	46.632		
5,600.00	5,597.82	5,536.82	5,597.82	24.54	191.57	-58.26	-4,295.70	-8,995.15	9,890.04	9,674.00	216.05	45.778		
5,700.00	5,697.78	5,636.78	5,697.78	24.97	195.06	-58.27	-4,295.70	-8,995.15	9,888.48	9,668.51	219.97	44.954		
5,800.00	5,797.74	5,736.74	5,797.74	25.41	198.55	-58.29	-4,295.70	-8,995.15	9,886.92	9,663.03	223.89	44.159		
5,900.00	5,897.69	5,836.69	5,897.69	25.85	202.04	-58.30	-4,295.70	-8,995.15	9,885.36	9,657.54	227.82	43.392		
6,000.00	5,997.65	5,936.65	5,997.65	26.28	205.53	-58.32	-4,295.70	-8,995.15	9,883.80	9,652.06	231.74	42.650		
6,100.00	6,097.60	6,036.60	6,097.60	26.72	209.02	-58.33	-4,295.70	-8,995.15	9,882.24	9,646.58	235.67	41.933		
6,200.00	6,197.56	6,136.56	6,197.56	27.16	212.51	-58.35	-4,295.70	-8,995.15	9,880.69	9,641.10	239.59	41.240		
6,300.00	6,297.52	6,236.52	6,297.52	27.59	216.00	-58.36	-4,295.70	-8,995.15	9,879.13	9,635.61	243.51	40.569		
6,400.00	6,397.47	6,336.47	6,397.47	28.03	219.49	-58.37	-4,295.70	-8,995.15	9,877.57	9,630.13	247.44	39.919		
6,500.00	6,497.43	6,436.43	6,497.43	28.47	222.97	-58.39	-4,295.70	-8,995.15	9,876.02	9,624.65	251.36	39.290		
6,600.00	6,597.38	6,536.38	6,597.38	28.90	226.46	-58.40	-4,295.70	-8,995.15	9,874.46	9,619.17	255.29	38.680		
6,700.00	6,697.08	6,636.08	6,697.08	29.34	229.94	-32.77	-4,295.70	-8,995.15	9,869.25	9,610.05	259.21	38.075		
6,800.00	6,794.63	6,733.63	6,794.63	29.79	233.35	-30.13	-4,295.70	-8,995.15	9,850.64	9,587.60	263.04	37.449		
6,900.00	6,887.62	6,826.62	6,887.62	30.24	236.60	-30.61	-4,295.70	-8,995.15	9,818.54	9,551.83	266.70	36.814		
7,000.00	6,973.77	6,912.77	6,973.77	30.70	239.60	-32.51	-4,295.70	-8,995.15	9,773.77	9,503.68	270.10	36.186		
7,100.00	7,050.94	6,989.94	7,050.94	31.20	242.30	-35.74	-4,295.70	-8,995.15	9,717.49	9,444.35	273.15	35.576		
7,200.00	7,117.24	7,056.24	7,117.24	31.77	244.61	-40.62	-4,295.70	-8,995.15	9,651.13	9,375.34	275.79	34.994		
7,300.00	7,171.03	7,110.03	7,171.03	32.46	246.49	-47.72	-4,295.70	-8,995.15	9,576.37	9,298.39	277.98	34.450		
7,400.00	7,211.00	7,150.00	7,211.00	33.29	247.88	-57.82	-4,295.70	-8,995.15	9,495.10	9,215.42	279.67	33.951		
7,500.00	7,236.16	7,175.16	7,236.16	34.29	248.76	-71.46	-4,295.70	-8,995.15	9,409.35	9,128.50	280.86	33.503		
7,600.00	7,245.89	7,184.89	7,245.89	35.43	249.10	-87.93	-4,295.70	-8,995.15	9,321.28	9,039.77	281.51	33.111		
7,700.00	7,245.73	7,184.73	7,245.73	36.72	249.10	-90.34	-4,295.70	-8,995.15	9,232.85	8,950.99	281.86	32.757		
7,800.00	7,245.42	7,184.42	7,245.42	38.18	249.08	-90.33	-4,295.70	-8,995.15	9,144.66	8,862.39	282.27	32.397		
7,900.00	7,245.10	7,184.10	7,245.10	39.80	249.07	-90.33	-4,295.70	-8,995.15	9,056.72	8,773.97	282.74	32.031		
8,000.00	7,244.79	7,183.79	7,244.79	41.54	249.06	-90.32	-4,295.70	-8,995.15	8,969.02	8,685.74	283.29	31.661		
8,100.00	7,244.48	7,183.48	7,244.48	43.41	249.05	-90.32	-4,295.70	-8,995.15	8,881.59	8,597.70	283.90	31.285		
8,200.00	7,244.17	7,183.17	7,244.17	45.38	249.04	-90.32	-4,295.70	-8,995.15	8,794.43	8,509.85	284.57	30.904		
8,300.00	7,243.86	7,182.86	7,243.86	47.44	249.03	-90.31	-4,295.70	-8,995.15	8,707.54	8,422.22	285.32	30.519		
8,400.00	7,243.55	7,182.55	7,243.55	49.58	249.02	-90.31	-4,295.70	-8,995.15	8,620.93	8,334.80	286.13	30.129		
8,500.00	7,243.23	7,182.23	7,243.23	51.78	249.01	-90.30	-4,295.70	-8,995.15	8,534.62	8,247.61	287.02	29.736		
8,600.00	7,242.92	7,181.92	7,242.92	54.05	249.00	-90.30	-4,295.70	-8,995.15	8,448.61	8,160.64	287.97	29.339		
8,700.00	7,242.61	7,181.61	7,242.61	56.37	248.99	-90.30	-4,295.70	-8,995.15	8,362.91	8,073.93	288.99	28.939		
8,800.00	7,242.30	7,181.30	7,242.30	58.74	248.98	-90.29	-4,295.70	-8,995.15	8,277.54	7,987.46	290.07	28.536		
8,900.00	7,241.99	7,180.99	7,241.99	61.16	248.96	-90.29	-4,295.70	-8,995.15	8,192.49	7,901.26	291.23	28.131		
9,000.00	7,241.67	7,180.67	7,241.67	63.61	248.95	-90.28	-4,295.70	-8,995.15	8,107.78	7,815.33	292.45	27.724		
9,100.00	7,241.36	7,180.36	7,241.36	66.09	248.94	-90.28	-4,295.70	-8,995.15	8,023.43	7,729.70	293.74	27.315		
9,200.00	7,241.05	7,180.05	7,241.05	68.60	248.93	-90.27	-4,295.70	-8,995.15	7,939.44	7,644.35	295.09	26.905		
9,300.00	7,240.74	7,179.74	7,240.74	71.13	248.92	-90.27	-4,295.70	-8,995.15	7,855.82	7,559.32	296.50	26.495		
9,400.00	7,240.43	7,179.43	7,240.43	73.70	248.91	-90.27	-4,295.70	-8,995.15	7,772.60	7,474.61	297.98	26.084		
9,500.00	7,240.11	7,179.11	7,240.11	76.28	248.90	-90.26	-4,295.70	-8,995.15	7,689.77	7,390.24	299.53	25.673		
9,600.00	7,239.80	7,178.80	7,239.80	78.88	248.89	-90.26	-4,295.70	-8,995.15	7,607.35	7,306.21	301.14	25.262		
9,700.00	7,239.49	7,178.49	7,239.49	81.50	248.88	-90.25	-4,295.70	-8,995.15	7,525.36	7,222.55	302.81	24.852		
9,800.00	7,239.18	7,178.18	7,239.18	84.13	248.87	-90.25	-4,295.70	-8,995.15	7,443.81	7,139.27	304.55	24.442		
9,900.00	7,238.87	7,177.87	7,238.87	86.78	248.86	-90.25	-4,295.70	-8,995.15	7,362.72	7,056.37	306.35	24.034		
10,000.00	7,238.55	7,177.55	7,238.55	89.44	248.85	-90.24	-4,295.70	-8,995.15	7,282.09	6,973.89	308.21	23.627		
10,100.00	7,238.24	7,177.24	7,238.24	92.11	248.83	-90.24	-4,295.70	-8,995.15	7,201.96	6,891.82	310.13	23.222		
10,200.00	7,237.93	7,176.93	7,237.93	94.80	248.82	-90.23	-4,295.70	-8,995.15	7,122.32	6,810.20	312.12	22.819		
10,300.00	7,237.62	7,176.62	7,237.62	97.49	248.81	-90.23	-4,295.70	-8,995.15	7,043.20	6,729.03	314.17	22.418		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,176.31	7,237.31	100.19	248.80	-90.23	-4,295.70	-8,995.15	6,964.62	6,648.34	316.29	22.020		
10,500.00	7,236.99	7,175.99	7,236.99	102.90	248.79	-90.22	-4,295.70	-8,995.15	6,886.60	6,568.14	318.47	21.624		
10,600.00	7,236.68	7,175.68	7,236.68	105.62	248.78	-90.22	-4,295.70	-8,995.15	6,809.15	6,488.45	320.71	21.232		
10,700.00	7,236.37	7,175.37	7,236.37	108.35	248.77	-90.21	-4,295.70	-8,995.15	6,732.30	6,409.29	323.01	20.842		
10,800.00	7,236.06	7,175.06	7,236.06	111.08	248.76	-90.21	-4,295.70	-8,995.15	6,656.06	6,330.68	325.38	20.456		
10,900.00	7,235.75	7,174.75	7,235.75	113.82	248.75	-90.20	-4,295.70	-8,995.15	6,580.45	6,252.64	327.81	20.074		
11,000.00	7,235.44	7,174.44	7,235.44	116.56	248.74	-90.20	-4,295.70	-8,995.15	6,505.51	6,175.20	330.31	19.695		
11,100.00	7,235.12	7,174.12	7,235.12	119.31	248.73	-90.20	-4,295.70	-8,995.15	6,431.24	6,098.37	332.87	19.321		
11,200.00	7,234.81	7,173.81	7,234.81	122.07	248.71	-90.19	-4,295.70	-8,995.15	6,357.69	6,022.19	335.50	18.950		
11,300.00	7,234.50	7,173.50	7,234.50	124.83	248.70	-90.19	-4,295.70	-8,995.15	6,284.86	5,946.67	338.19	18.584		
11,400.00	7,234.19	7,173.19	7,234.19	127.59	248.69	-90.18	-4,295.70	-8,995.15	6,212.79	5,871.84	340.95	18.222		
11,500.00	7,233.88	7,172.88	7,233.88	130.36	248.68	-90.18	-4,295.70	-8,995.15	6,141.50	5,797.73	343.77	17.865		
11,600.00	7,233.56	7,172.56	7,233.56	133.13	248.67	-90.18	-4,295.70	-8,995.15	6,071.02	5,724.36	346.66	17.513		
11,700.00	7,233.25	7,172.25	7,233.25	135.91	248.66	-90.17	-4,295.70	-8,995.15	6,001.38	5,651.77	349.61	17.166		
11,800.00	7,232.94	7,171.94	7,232.94	138.68	248.65	-90.17	-4,295.70	-8,995.15	5,932.61	5,579.97	352.63	16.824		
11,900.00	7,232.63	7,171.63	7,232.63	141.47	248.64	-90.16	-4,295.70	-8,995.15	5,864.73	5,509.02	355.72	16.487		
12,000.00	7,232.32	7,171.32	7,232.32	144.25	248.63	-90.16	-4,295.70	-8,995.15	5,797.79	5,438.92	358.86	16.156		
12,100.00	7,232.00	7,171.00	7,232.00	147.04	248.62	-90.15	-4,295.70	-8,995.15	5,731.81	5,369.73	362.08	15.830		
12,200.00	7,231.69	7,170.69	7,231.69	149.83	248.61	-90.15	-4,295.70	-8,995.15	5,666.82	5,301.47	365.36	15.510		
12,300.00	7,231.38	7,170.38	7,231.38	152.62	248.59	-90.15	-4,295.70	-8,995.15	5,602.87	5,234.17	368.70	15.196		
12,400.00	7,231.07	7,170.07	7,231.07	155.42	248.58	-90.14	-4,295.70	-8,995.15	5,539.98	5,167.88	372.10	14.888		
12,500.00	7,230.76	7,169.76	7,230.76	158.22	248.57	-90.14	-4,295.70	-8,995.15	5,478.20	5,102.64	375.56	14.587		
12,600.00	7,230.44	7,169.44	7,230.44	161.01	248.56	-90.13	-4,295.70	-8,995.15	5,417.56	5,038.47	379.09	14.291		
12,700.00	7,230.13	7,169.13	7,230.13	163.82	248.55	-90.13	-4,295.70	-8,995.15	5,358.10	4,975.43	382.67	14.002		
12,800.00	7,229.82	7,168.82	7,229.82	166.62	248.54	-90.13	-4,295.70	-8,995.15	5,299.86	4,913.55	386.31	13.719		
12,900.00	7,229.51	7,168.51	7,229.51	169.43	248.53	-90.12	-4,295.70	-8,995.15	5,242.88	4,852.88	390.00	13.443		
13,000.00	7,229.20	7,168.20	7,229.20	172.23	248.52	-90.12	-4,295.70	-8,995.15	5,187.20	4,793.45	393.75	13.174		
13,100.00	7,228.88	7,167.88	7,228.88	175.04	248.51	-90.11	-4,295.70	-8,995.15	5,132.87	4,735.32	397.54	12.912		
13,200.00	7,228.57	7,167.57	7,228.57	177.85	248.50	-90.11	-4,295.70	-8,995.15	5,079.92	4,678.54	401.38	12.656		
13,300.00	7,228.26	7,167.26	7,228.26	180.66	248.49	-90.11	-4,295.70	-8,995.15	5,028.40	4,623.14	405.27	12.408		
13,400.00	7,227.95	7,166.95	7,227.95	183.48	248.47	-90.10	-4,295.70	-8,995.15	4,978.36	4,569.18	409.19	12.166		
13,500.00	7,227.64	7,166.64	7,227.64	186.29	248.46	-90.10	-4,295.70	-8,995.15	4,929.85	4,516.70	413.15	11.932		
13,600.00	7,227.33	7,166.33	7,227.33	189.11	248.45	-90.09	-4,295.70	-8,995.15	4,882.89	4,465.76	417.13	11.706		
13,700.00	7,227.01	7,166.01	7,227.01	191.92	248.44	-90.09	-4,295.70	-8,995.15	4,837.55	4,416.41	421.15	11.487		
13,800.00	7,226.70	7,165.70	7,226.70	194.74	248.43	-90.08	-4,295.70	-8,995.15	4,793.87	4,368.69	425.18	11.275		
13,900.00	7,226.39	7,165.39	7,226.39	197.56	248.42	-90.08	-4,295.70	-8,995.15	4,751.89	4,322.66	429.23	11.071		
14,000.00	7,226.08	7,165.08	7,226.08	200.38	248.41	-90.08	-4,295.70	-8,995.15	4,711.66	4,278.37	433.29	10.874		
14,100.00	7,225.77	7,164.77	7,225.77	203.21	248.40	-90.07	-4,295.70	-8,995.15	4,673.22	4,235.87	437.35	10.685		
14,200.00	7,225.45	7,164.45	7,225.45	206.03	248.39	-90.07	-4,295.70	-8,995.15	4,636.62	4,195.22	441.40	10.504		
14,300.00	7,225.14	7,164.14	7,225.14	208.85	248.38	-90.06	-4,295.70	-8,995.15	4,601.90	4,156.45	445.45	10.331		
14,400.00	7,224.83	7,163.83	7,224.83	211.68	248.37	-90.06	-4,295.70	-8,995.15	4,569.11	4,119.64	449.48	10.165		
14,500.00	7,224.52	7,163.52	7,224.52	214.50	248.36	-90.06	-4,295.70	-8,995.15	4,538.29	4,084.81	453.48	10.008		
14,600.00	7,224.21	7,163.21	7,224.21	217.33	248.34	-90.05	-4,295.70	-8,995.15	4,509.47	4,052.03	457.44	9.858		
14,700.00	7,223.89	7,162.89	7,223.89	220.16	248.33	-90.05	-4,295.70	-8,995.15	4,482.70	4,021.33	461.37	9.716		
14,800.00	7,223.58	7,162.58	7,223.58	222.98	248.32	-90.04	-4,295.70	-8,995.15	4,458.01	3,992.77	465.24	9.582		
14,900.00	7,223.27	7,162.27	7,223.27	225.81	248.31	-90.04	-4,295.70	-8,995.15	4,435.44	3,966.38	469.06	9.456		
14,987.41	7,223.00	7,162.00	7,223.00	228.28	248.30	-90.04	-4,295.70	-8,995.15	4,417.47	3,945.13	472.34	9.352 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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-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	671.24	705.11	3.28	4.33	-108.38	-2,968.77	-8,937.16	9,443.71					
100.00	100.00	724.00	757.32	3.28	4.49	-108.42	-2,973.90	-8,931.56	9,436.57	9,428.82	7.75	1,217.872		
200.00	200.00	724.00	757.32	3.34	4.49	-108.42	-2,973.90	-8,931.56	9,430.13	9,422.34	7.79	1,210.647		
300.00	300.00	724.00	757.32	3.44	4.49	-108.42	-2,973.90	-8,931.56	9,424.75	9,416.86	7.89	1,194.791		
400.00	400.00	763.11	795.97	3.60	4.62	-108.45	-2,978.50	-8,927.81	9,419.87	9,411.70	8.17	1,153.279		
500.00	500.00	777.50	810.18	3.81	4.67	-108.46	-2,980.48	-8,926.58	9,416.12	9,407.71	8.41	1,119.188		
600.00	600.00	818.00	850.05	4.05	4.81	-108.51	-2,986.90	-8,923.59	9,413.53	9,404.74	8.79	1,070.921		
700.00	699.98	818.00	850.05	4.32	4.81	-50.55	-2,986.90	-8,923.59	9,410.32	9,401.27	9.06	1,039.061		
800.00	799.94	818.00	850.05	4.61	4.81	-50.55	-2,986.90	-8,923.59	9,407.37	9,398.03	9.35	1,006.492		
900.00	899.89	818.00	850.05	4.92	4.81	-50.55	-2,986.90	-8,923.59	9,405.49	9,395.83	9.66	973.667		
1,000.00	999.85	818.00	850.05	5.25	4.81	-50.55	-2,986.90	-8,923.59	9,404.66	9,394.67	9.99	941.240		
1,068.15	1,067.97	859.55	890.87	5.49	4.96	-50.60	-2,994.34	-8,921.35	9,404.09	9,393.72	10.38	906.216		
1,100.00	1,099.80	864.20	895.43	5.60	4.98	-50.61	-2,995.19	-8,921.16	9,404.14	9,393.63	10.51	895.101		
1,200.00	1,199.76	912.00	942.33	5.96	5.15	-50.67	-3,004.34	-8,919.88	9,405.28	9,394.24	11.04	851.597		
1,300.00	1,299.72	912.00	942.33	6.33	5.15	-50.67	-3,004.34	-8,919.88	9,406.67	9,395.26	11.41	824.260		
1,400.00	1,399.67	912.00	942.33	6.71	5.15	-50.67	-3,004.34	-8,919.88	9,409.12	9,397.33	11.79	798.172		
1,500.00	1,499.63	912.00	942.33	7.10	5.15	-50.67	-3,004.34	-8,919.88	9,412.63	9,400.46	12.17	773.372		
1,600.00	1,599.58	912.00	942.33	7.49	5.15	-50.67	-3,004.34	-8,919.88	9,417.21	9,404.65	12.56	749.856		
1,700.00	1,699.54	912.00	942.33	7.88	5.15	-50.67	-3,004.34	-8,919.88	9,422.84	9,409.89	12.95	727.601		
1,800.00	1,799.50	964.57	993.88	8.28	5.34	-50.73	-3,014.62	-8,920.13	9,428.52	9,414.97	13.55	695.912		
1,900.00	1,899.45	1,006.00	1,034.51	8.69	5.50	-50.78	-3,022.58	-8,921.66	9,435.92	9,421.81	14.11	668.772		
2,000.00	1,999.41	1,006.00	1,034.51	9.10	5.50	-50.78	-3,022.58	-8,921.66	9,443.74	9,429.24	14.51	650.941		
2,100.00	2,099.36	1,006.00	1,034.51	9.51	5.50	-50.78	-3,022.58	-8,921.66	9,452.62	9,437.71	14.91	634.084		
2,200.00	2,199.32	1,006.00	1,034.51	9.92	5.50	-50.78	-3,022.58	-8,921.66	9,462.55	9,447.24	15.31	618.148		
2,300.00	2,299.28	1,045.61	1,073.35	10.34	5.64	-50.83	-3,029.94	-8,924.13	9,473.09	9,457.23	15.86	597.168		
2,400.00	2,399.23	1,101.00	1,127.68	10.75	5.85	-50.88	-3,039.55	-8,929.03	9,484.95	9,468.47	16.49	575.366		
2,500.00	2,499.19	1,101.00	1,127.68	11.17	5.85	-50.88	-3,039.55	-8,929.03	9,497.02	9,480.14	16.88	562.455		
2,600.00	2,599.14	1,101.00	1,127.68	11.60	5.85	-50.88	-3,039.55	-8,929.03	9,510.13	9,492.85	17.28	550.228		
2,700.00	2,699.10	1,101.00	1,127.68	12.02	5.85	-50.88	-3,039.55	-8,929.03	9,524.27	9,506.59	17.68	538.645		
2,800.00	2,799.06	1,101.00	1,127.68	12.44	5.85	-50.88	-3,039.55	-8,929.03	9,539.44	9,521.36	18.08	527.669		
2,900.00	2,899.01	1,154.14	1,179.63	12.87	6.05	-50.93	-3,048.89	-8,935.10	9,554.78	9,536.09	18.69	511.190		
3,000.00	2,998.97	1,197.00	1,221.30	13.29	6.23	-50.97	-3,057.17	-8,940.78	9,571.56	9,552.30	19.26	496.858		
3,100.00	3,098.92	1,197.00	1,221.30	13.72	6.23	-50.97	-3,057.17	-8,940.78	9,588.80	9,569.15	19.66	487.837		
3,200.00	3,198.88	1,197.00	1,221.30	14.14	6.23	-50.97	-3,057.17	-8,940.78	9,607.06	9,587.01	20.05	479.272		
3,300.00	3,298.84	1,197.00	1,221.30	14.57	6.23	-50.97	-3,057.17	-8,940.78	9,626.32	9,605.89	20.43	471.137		
3,400.00	3,398.79	1,243.17	1,265.93	15.00	6.42	-51.02	-3,066.77	-8,947.64	9,646.00	9,624.98	21.02	458.836		
3,500.00	3,498.75	1,292.00	1,312.86	15.43	6.64	-51.07	-3,077.63	-8,955.67	9,666.94	9,645.32	21.63	446.952		
3,600.00	3,598.70	1,292.00	1,312.86	15.86	6.64	-51.07	-3,077.63	-8,955.67	9,688.24	9,666.23	22.01	440.207		
3,700.00	3,698.66	1,292.00	1,312.86	16.29	6.64	-51.07	-3,077.63	-8,955.67	9,710.51	9,688.13	22.39	433.792		
3,800.00	3,798.62	1,292.00	1,312.86	16.72	6.64	-51.07	-3,077.63	-8,955.67	9,733.76	9,711.00	22.76	427.691		
3,900.00	3,898.57	1,335.30	1,354.21	17.15	6.86	-51.12	-3,087.86	-8,963.45	9,757.48	9,734.15	23.33	418.180		
4,000.00	3,998.53	1,387.00	1,403.23	17.59	7.12	-51.18	-3,100.80	-8,973.56	9,782.45	9,758.49	23.97	408.185		
4,100.00	4,098.48	1,387.00	1,403.23	18.02	7.12	-51.18	-3,100.80	-8,973.56	9,807.67	9,783.34	24.33	403.097		
4,200.00	4,198.44	1,397.27	1,412.92	18.45	7.18	-51.19	-3,103.46	-8,975.65	9,833.83	9,809.08	24.75	397.345		
4,300.00	4,298.40	1,468.20	1,479.79	18.88	7.58	-51.28	-3,122.26	-8,990.02	9,860.51	9,835.02	25.49	386.909		
4,400.00	4,398.35	1,507.92	1,517.13	19.32	7.83	-51.33	-3,133.17	-8,998.04	9,887.57	9,861.51	26.07	379.337		
4,500.00	4,498.31	1,540.58	1,547.72	19.75	8.04	-51.38	-3,142.46	-9,004.72	9,915.25	9,888.65	26.61	372.682		
4,600.00	4,598.26	1,600.00	1,626.17	20.19	32.73	-51.50	-3,167.83	-9,021.74	9,943.42	9,889.80	53.63	185.423		
4,700.00	4,698.22	1,713.10	1,708.22	20.62	9.25	-51.63	-3,195.66	-9,038.87	9,971.47	9,943.11	28.36	351.651		
4,800.00	4,798.18	1,760.00	1,751.48	21.05	9.60	-51.71	-3,211.47	-9,047.73	9,999.97	9,970.96	29.01	344.729		
7,800.00	7,245.42	7,413.29	7,002.12	38.18	53.66	-87.50	-4,932.22	-9,555.47	9,949.06	9,871.36	77.70	128.048		
7,900.00	7,245.10	7,415.16	7,003.99	39.80	53.66	-87.53	-4,932.24	-9,555.51	9,862.55	9,784.42	78.14	126.224		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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-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		
8,000.00	7,244.79	7,417.04	7,005.87	41.54	53.67	-87.55	-4,932.27	-9,555.55	9,776.30	9,697.66	78.64	124.315		
8,100.00	7,244.48	7,418.92	7,007.75	43.41	53.67	-87.57	-4,932.29	-9,555.59	9,690.31	9,611.09	79.22	122.327		
8,200.00	7,244.17	7,420.82	7,009.65	45.38	53.68	-87.59	-4,932.31	-9,555.63	9,604.59	9,524.73	79.86	120.267		
8,300.00	7,243.86	7,422.72	7,011.55	47.44	53.68	-87.61	-4,932.33	-9,555.67	9,519.15	9,438.58	80.57	118.143		
8,400.00	7,243.55	7,424.62	7,013.45	49.58	53.69	-87.63	-4,932.35	-9,555.72	9,433.99	9,352.64	81.35	115.962		
8,500.00	7,243.23	7,426.54	7,015.37	51.78	53.69	-87.66	-4,932.37	-9,555.76	9,349.13	9,266.93	82.20	113.734		
8,600.00	7,242.92	7,428.46	7,017.29	54.05	53.70	-87.68	-4,932.39	-9,555.80	9,264.57	9,181.46	83.12	111.465		
8,700.00	7,242.61	7,430.40	7,019.22	56.37	53.70	-87.70	-4,932.41	-9,555.84	9,180.33	9,096.23	84.10	109.165		
8,800.00	7,242.30	7,432.33	7,021.16	58.74	53.71	-87.72	-4,932.43	-9,555.89	9,096.39	9,011.25	85.14	106.840		
8,900.00	7,241.99	7,434.28	7,023.11	61.16	53.72	-87.75	-4,932.45	-9,555.93	9,012.79	8,926.54	86.25	104.498		
9,000.00	7,241.67	7,436.24	7,025.06	63.61	53.72	-87.77	-4,932.47	-9,555.97	8,929.52	8,842.11	87.42	102.147		
9,100.00	7,241.36	7,438.20	7,027.02	66.09	53.73	-87.79	-4,932.49	-9,556.02	8,846.60	8,757.95	88.65	99.793		
9,200.00	7,241.05	7,440.17	7,028.99	68.60	53.73	-87.81	-4,932.51	-9,556.06	8,764.04	8,674.10	89.94	97.442		
9,300.00	7,240.74	7,442.15	7,030.97	71.13	53.74	-87.84	-4,932.53	-9,556.11	8,681.84	8,590.55	91.29	95.099		
9,400.00	7,240.43	7,444.14	7,032.96	73.70	53.74	-87.86	-4,932.55	-9,556.15	8,600.02	8,507.32	92.70	92.770		
9,500.00	7,240.11	7,446.13	7,034.95	76.28	53.75	-87.88	-4,932.57	-9,556.20	8,518.59	8,424.42	94.17	90.459		
9,600.00	7,239.80	7,448.13	7,036.96	78.88	53.75	-87.91	-4,932.59	-9,556.24	8,437.55	8,341.86	95.70	88.170		
9,700.00	7,239.49	7,450.15	7,038.97	81.50	53.76	-87.93	-4,932.61	-9,556.29	8,356.93	8,259.65	97.28	85.908		
9,800.00	7,239.18	7,452.17	7,040.99	84.13	53.76	-87.95	-4,932.63	-9,556.33	8,276.73	8,177.81	98.91	83.675		
9,900.00	7,238.87	7,454.19	7,043.01	86.78	53.77	-87.98	-4,932.65	-9,556.38	8,196.96	8,096.35	100.61	81.474		
10,000.00	7,238.55	7,456.23	7,045.05	89.44	53.78	-88.00	-4,932.67	-9,556.43	8,117.64	8,015.28	102.36	79.308		
10,100.00	7,238.24	7,458.28	7,047.09	92.11	53.78	-88.02	-4,932.69	-9,556.47	8,038.78	7,934.62	104.16	77.178		
10,200.00	7,237.93	7,460.33	7,049.15	94.80	53.79	-88.05	-4,932.70	-9,556.52	7,960.39	7,854.38	106.02	75.087		
10,300.00	7,237.62	7,462.39	7,051.21	97.49	53.79	-88.07	-4,932.72	-9,556.57	7,882.50	7,774.57	107.93	73.036		
10,400.00	7,237.31	7,464.46	7,053.28	100.19	53.80	-88.09	-4,932.74	-9,556.61	7,805.11	7,695.21	109.89	71.025		
10,500.00	7,236.99	7,466.54	7,055.36	102.90	53.80	-88.12	-4,932.76	-9,556.66	7,728.23	7,616.32	111.91	69.057		
10,600.00	7,236.68	7,468.63	7,057.45	105.62	53.81	-88.14	-4,932.78	-9,556.71	7,651.89	7,537.91	113.98	67.131		
10,700.00	7,236.37	7,470.73	7,059.54	108.35	53.82	-88.17	-4,932.80	-9,556.76	7,576.10	7,459.99	116.11	65.249		
10,800.00	7,236.06	7,472.83	7,061.65	111.08	53.82	-88.19	-4,932.82	-9,556.81	7,500.88	7,382.59	118.29	63.410		
10,900.00	7,235.75	7,474.95	7,063.76	113.82	53.83	-88.21	-4,932.84	-9,556.86	7,426.24	7,305.71	120.53	61.616		
11,000.00	7,235.44	7,477.07	7,065.88	116.56	53.83	-88.24	-4,932.86	-9,556.91	7,352.20	7,229.39	122.81	59.865		
11,100.00	7,235.12	7,479.20	7,068.02	119.31	53.84	-88.26	-4,932.88	-9,556.95	7,278.78	7,153.63	125.16	58.158		
11,200.00	7,234.81	7,481.35	7,070.16	122.07	53.84	-88.29	-4,932.90	-9,557.00	7,206.01	7,078.45	127.55	56.494		
11,300.00	7,234.50	7,483.50	7,072.31	124.83	53.85	-88.31	-4,932.92	-9,557.05	7,133.89	7,003.88	130.00	54.875		
11,400.00	7,234.19	7,485.66	7,074.47	127.59	53.86	-88.34	-4,932.93	-9,557.11	7,062.45	6,929.94	132.51	53.298		
11,500.00	7,233.88	7,487.83	7,076.64	130.36	53.86	-88.36	-4,932.95	-9,557.16	6,991.71	6,856.64	135.07	51.764		
11,600.00	7,233.56	7,490.00	7,078.81	133.13	53.87	-88.39	-4,932.97	-9,557.21	6,921.69	6,784.01	137.68	50.273		
11,700.00	7,233.25	7,492.19	7,081.00	135.91	53.87	-88.41	-4,932.99	-9,557.26	6,852.41	6,712.06	140.35	48.823		
11,800.00	7,232.94	7,494.39	7,083.20	138.68	53.88	-88.44	-4,933.01	-9,557.31	6,783.90	6,640.83	143.07	47.415		
11,900.00	7,232.63	7,496.60	7,085.40	141.47	53.89	-88.46	-4,933.03	-9,557.36	6,716.18	6,570.33	145.85	46.048		
12,000.00	7,232.32	7,498.81	7,087.62	144.25	53.89	-88.49	-4,933.04	-9,557.41	6,649.27	6,500.59	148.68	44.721		
12,100.00	7,232.00	7,501.04	7,089.84	147.04	53.90	-88.52	-4,933.06	-9,557.47	6,583.21	6,431.63	151.57	43.433		
12,200.00	7,231.69	7,503.28	7,092.08	149.83	53.90	-88.54	-4,933.08	-9,557.52	6,518.00	6,363.49	154.51	42.184		
12,300.00	7,231.38	7,505.52	7,094.32	152.62	53.91	-88.57	-4,933.10	-9,557.57	6,453.69	6,296.18	157.51	40.973		
12,400.00	7,231.07	7,507.78	7,096.58	155.42	53.92	-88.59	-4,933.12	-9,557.63	6,390.29	6,229.73	160.56	39.800		
12,500.00	7,230.76	7,510.04	7,098.84	158.22	53.92	-88.62	-4,933.14	-9,557.68	6,327.83	6,164.17	163.66	38.664		
12,600.00	7,230.44	7,512.32	7,101.12	161.01	53.93	-88.65	-4,933.15	-9,557.74	6,266.35	6,099.54	166.82	37.564		
12,700.00	7,230.13	7,514.60	7,103.40	163.82	53.94	-88.67	-4,933.17	-9,557.79	6,205.87	6,035.85	170.03	36.499		
12,800.00	7,229.82	7,516.90	7,105.70	166.62	53.94	-88.70	-4,933.19	-9,557.85	6,146.43	5,973.14	173.29	35.470		
12,900.00	7,229.51	7,519.20	7,108.00	169.43	53.95	-88.72	-4,933.21	-9,557.90	6,088.04	5,911.44	176.60	34.474		
13,000.00	7,229.20	7,521.52	7,110.31	172.23	53.95	-88.75	-4,933.22	-9,557.96	6,030.75	5,850.79	179.96	33.512		
13,100.00	7,228.88	7,523.84	7,112.64	175.04	53.96	-88.78	-4,933.24	-9,558.01	5,974.58	5,791.20	183.37	32.582		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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-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 +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
13,200.00	7,228.57	7,526.18	7,114.97	177.85	53.97	-88.81	-4,933.26	-9,558.07	5,919.56	5,732.73	186.83	31.684			
13,300.00	7,228.26	7,528.52	7,117.32	180.66	53.97	-88.83	-4,933.27	-9,558.13	5,865.73	5,675.40	190.33	30.818			
13,400.00	7,227.95	7,530.88	7,119.68	183.48	53.98	-88.86	-4,933.29	-9,558.18	5,813.13	5,619.24	193.88	29.983			
13,500.00	7,227.64	7,533.25	7,122.04	186.29	53.99	-88.89	-4,933.31	-9,558.24	5,761.78	5,564.30	197.48	29.177			
13,600.00	7,227.33	7,535.63	7,124.42	189.11	53.99	-88.91	-4,933.33	-9,558.30	5,711.71	5,510.60	201.11	28.401			
13,700.00	7,227.01	7,538.01	7,126.81	191.92	54.00	-88.94	-4,933.34	-9,558.36	5,662.97	5,458.19	204.78	27.653			
13,800.00	7,226.70	7,540.41	7,129.21	194.74	54.01	-88.97	-4,933.36	-9,558.42	5,615.59	5,407.10	208.49	26.934			
13,900.00	7,226.39	7,542.82	7,131.62	197.56	54.01	-89.00	-4,933.37	-9,558.47	5,569.60	5,357.36	212.24	26.242			
14,000.00	7,226.08	7,545.24	7,134.04	200.38	54.02	-89.03	-4,933.39	-9,558.53	5,525.03	5,309.02	216.01	25.577			
14,100.00	7,225.77	7,547.68	7,136.47	203.21	54.03	-89.05	-4,933.41	-9,558.59	5,481.93	5,262.11	219.82	24.939			
14,200.00	7,225.45	7,550.12	7,138.91	206.03	54.03	-89.08	-4,933.42	-9,558.65	5,440.32	5,216.67	223.65	24.326			
14,300.00	7,225.14	7,552.57	7,141.36	208.85	54.04	-89.11	-4,933.44	-9,558.71	5,400.24	5,172.74	227.50	23.738			
14,400.00	7,224.83	7,555.04	7,143.83	211.68	54.05	-89.14	-4,933.46	-9,558.78	5,361.73	5,130.36	231.36	23.174			
14,500.00	7,224.52	7,557.52	7,146.30	214.50	54.05	-89.17	-4,933.47	-9,558.84	5,324.81	5,089.57	235.25	22.635			
14,600.00	7,224.21	7,560.00	7,148.79	217.33	54.06	-89.20	-4,933.49	-9,558.90	5,289.53	5,050.39	239.14	22.119			
14,700.00	7,223.89	7,562.50	7,151.29	220.16	54.07	-89.22	-4,933.50	-9,558.96	5,255.91	5,012.87	243.04	21.626			
14,800.00	7,223.58	7,565.01	7,153.80	222.98	54.07	-89.25	-4,933.52	-9,559.02	5,223.99	4,977.05	246.94	21.155			
14,900.00	7,223.27	7,567.54	7,156.32	225.81	54.08	-89.28	-4,933.53	-9,559.09	5,193.80	4,942.97	250.83	20.706			
14,987.41	7,223.00	7,569.75	7,158.53	228.28	54.09	-89.31	-4,933.55	-9,559.14	5,168.85	4,914.62	254.23	20.331	CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	64.00	3.28	3.28	-130.66	-4,222.89	-4,916.93	6,481.75					
100.00	100.00	48.39	112.39	3.28	3.28	-130.66	-4,222.73	-4,917.00	6,481.40	6,474.83	6.57	987.041		
200.00	200.00	182.30	246.29	3.34	3.33	-130.64	-4,220.87	-4,917.80	6,480.94	6,474.27	6.67	971.749		
300.00	300.00	277.57	341.54	3.44	3.43	-130.62	-4,219.03	-4,918.48	6,480.23	6,473.35	6.87	942.725		
400.00	400.00	375.33	439.28	3.60	3.57	-130.61	-4,217.47	-4,919.03	6,479.62	6,472.44	7.18	902.896		
500.00	500.00	478.82	542.76	3.81	3.77	-130.60	-4,216.02	-4,919.42	6,478.99	6,471.42	7.58	855.249		
600.00	600.00	597.65	661.57	4.05	4.04	-130.59	-4,214.41	-4,919.57	6,478.21	6,470.12	8.09	800.833		
700.00	699.98	685.90	749.82	4.32	4.27	-72.61	-4,213.30	-4,919.51	6,476.83	6,468.25	8.59	754.165		
800.00	799.94	787.82	851.73	4.61	4.56	-72.63	-4,212.22	-4,919.41	6,475.18	6,466.01	9.17	706.078		
900.00	899.89	876.88	940.79	4.92	4.84	-72.65	-4,211.30	-4,919.34	6,473.56	6,463.81	9.76	663.530		
1,000.00	999.85	970.74	1,034.65	5.25	5.14	-72.66	-4,210.40	-4,919.40	6,472.11	6,461.72	10.39	622.945		
1,100.00	1,099.80	1,079.02	1,142.92	5.60	5.50	-72.68	-4,209.35	-4,919.49	6,470.65	6,459.55	11.10	582.945		
1,200.00	1,199.76	1,171.95	1,235.85	5.96	5.83	-72.70	-4,208.39	-4,919.52	6,469.13	6,457.34	11.78	549.058		
1,300.00	1,299.72	1,257.97	1,321.86	6.33	6.14	-72.72	-4,207.57	-4,919.71	6,467.79	6,455.33	12.46	519.153		
1,400.00	1,399.67	1,345.02	1,408.90	6.71	6.45	-72.73	-4,207.02	-4,919.92	6,466.67	6,453.52	13.15	491.670		
1,500.00	1,499.63	1,443.64	1,507.53	7.10	6.82	-72.75	-4,206.62	-4,920.15	6,465.70	6,451.80	13.90	465.078		
1,600.00	1,599.58	1,547.69	1,611.58	7.49	7.22	-72.78	-4,206.14	-4,920.30	6,464.63	6,449.95	14.69	440.210		
1,700.00	1,699.54	1,648.08	1,711.96	7.88	7.60	-72.80	-4,205.87	-4,920.31	6,463.59	6,448.13	15.47	417.940		
1,800.00	1,799.50	1,748.27	1,812.16	8.28	7.99	-72.82	-4,205.50	-4,920.34	6,462.49	6,446.24	16.25	397.603		
1,900.00	1,899.45	1,833.58	1,897.47	8.69	8.33	-72.84	-4,205.31	-4,920.37	6,461.50	6,444.51	16.99	380.295		
2,000.00	1,999.41	1,910.86	1,974.74	9.10	8.63	-72.86	-4,205.31	-4,920.59	6,460.84	6,443.14	17.70	364.996		
2,100.00	2,099.36	1,999.55	2,063.43	9.51	8.98	-72.88	-4,205.43	-4,921.04	6,460.44	6,441.98	18.46	349.960		
2,200.00	2,199.32	2,094.76	2,158.64	9.92	9.36	-72.90	-4,205.66	-4,921.59	6,460.16	6,440.91	19.25	335.579		
2,300.00	2,299.28	2,194.82	2,258.70	10.34	9.76	-72.93	-4,205.92	-4,922.20	6,459.92	6,439.85	20.07	321.946		
2,400.00	2,399.23	2,286.10	2,349.98	10.75	10.13	-72.95	-4,206.08	-4,922.90	6,459.74	6,438.89	20.85	309.841		
2,500.00	2,499.19	2,387.45	2,451.32	11.17	10.54	-72.97	-4,206.26	-4,923.76	6,459.63	6,437.96	21.68	298.004		
2,600.00	2,599.14	2,481.74	2,545.60	11.60	10.92	-72.99	-4,206.43	-4,924.59	6,459.54	6,437.06	22.48	287.363		
2,637.92	2,637.04	2,517.13	2,581.00	11.76	11.07	-73.00	-4,206.51	-4,924.91	6,459.53	6,436.75	22.78	283.533		
2,700.00	2,699.10	2,575.28	2,639.15	12.02	11.30	-73.01	-4,206.60	-4,925.53	6,459.55	6,436.27	23.28	277.460		
2,800.00	2,799.06	2,661.44	2,725.30	12.44	11.66	-73.02	-4,206.67	-4,926.63	6,459.70	6,435.65	24.06	268.534		
2,900.00	2,899.01	2,748.74	2,812.58	12.87	12.02	-73.04	-4,206.87	-4,927.91	6,460.09	6,435.26	24.84	260.104		
3,000.00	2,998.97	2,839.53	2,903.36	13.29	12.39	-73.06	-4,207.22	-4,929.30	6,460.64	6,435.00	25.63	252.033		
3,100.00	3,098.92	2,931.08	2,994.90	13.72	12.77	-73.07	-4,207.81	-4,930.66	6,461.32	6,434.88	26.44	244.409		
3,200.00	3,198.88	3,028.96	3,092.77	14.14	13.18	-73.09	-4,208.47	-4,932.24	6,462.11	6,434.85	27.27	236.992		
3,300.00	3,298.84	3,300.00	3,236.41	14.57	14.30	-73.13	-4,209.23	-4,934.00	6,462.51	6,433.69	28.82	224.234		
3,400.00	3,398.79	3,292.78	3,356.57	15.00	14.27	-73.15	-4,209.52	-4,934.76	6,462.24	6,433.03	29.22	221.170		
3,500.00	3,498.75	3,414.77	3,478.56	15.43	14.78	-73.18	-4,209.60	-4,935.50	6,461.89	6,431.74	30.15	214.290		
3,600.00	3,598.70	3,501.23	3,565.02	15.86	15.14	-73.20	-4,209.72	-4,935.92	6,461.49	6,430.54	30.94	208.809		
3,698.93	3,697.59	3,578.46	3,642.24	16.29	15.46	-73.22	-4,209.91	-4,936.46	6,461.32	6,429.63	31.69	203.880		
3,700.00	3,698.66	3,579.29	3,643.08	16.29	15.47	-73.22	-4,209.91	-4,936.47	6,461.32	6,429.62	31.70	203.828		
3,800.00	3,798.62	3,658.66	3,722.44	16.72	15.80	-73.23	-4,210.08	-4,937.40	6,461.49	6,429.02	32.46	199.053		
3,900.00	3,898.57	3,742.58	3,806.35	17.15	16.15	-73.25	-4,210.28	-4,938.71	6,461.95	6,428.71	33.24	194.389		
4,000.00	3,998.53	3,831.18	3,894.94	17.59	16.52	-73.26	-4,210.61	-4,940.20	6,462.61	6,428.57	34.04	189.831		
4,100.00	4,098.48	3,915.32	3,979.06	18.02	16.88	-73.28	-4,211.17	-4,941.60	6,463.45	6,428.63	34.83	185.586		
4,200.00	4,198.44	3,982.72	4,046.45	18.45	17.16	-73.30	-4,211.87	-4,942.87	6,464.70	6,429.16	35.54	181.904		
4,300.00	4,298.40	4,053.46	4,117.17	18.88	17.46	-73.31	-4,212.90	-4,944.41	6,466.43	6,430.17	36.27	178.311		
4,400.00	4,398.35	4,124.57	4,188.24	19.32	17.76	-73.33	-4,214.28	-4,946.05	6,468.60	6,431.61	36.99	174.864		
4,500.00	4,498.31	4,200.01	4,263.63	19.75	18.08	-73.35	-4,216.05	-4,948.01	6,471.24	6,433.50	37.74	171.478		
4,600.00	4,598.26	4,337.20	4,400.75	20.19	18.66	-73.38	-4,219.05	-4,951.52	6,473.77	6,435.01	38.75	167.044		
4,700.00	4,698.22	4,456.11	4,519.61	20.62	19.16	-73.41	-4,220.91	-4,954.45	6,475.80	6,436.11	39.69	163.151		
4,800.00	4,798.18	4,605.87	4,669.32	21.05	19.79	-73.44	-4,222.55	-4,957.89	6,477.44	6,436.68	40.76	158.905		
4,900.00	4,898.13	4,748.25	4,811.68	21.49	20.39	-73.46	-4,223.54	-4,960.13	6,478.23	6,436.43	41.80	154.978		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,000.00	4,998.09	4,858.63	4,922.05	21.92	20.86	-73.49	-4,224.26	-4,961.27	6,478.58	6,435.87	42.70	151.716		
5,100.00	5,098.04	4,964.73	5,028.14	22.36	21.31	-73.51	-4,224.84	-4,962.39	6,478.89	6,435.30	43.59	148.649		
5,200.00	5,198.00	5,083.12	5,146.52	22.79	21.81	-73.54	-4,225.09	-4,963.67	6,479.00	6,434.48	44.52	145.528		
5,300.00	5,297.96	5,189.56	5,252.96	23.23	22.26	-73.56	-4,224.89	-4,964.88	6,478.89	6,433.48	45.41	142.689		
5,400.00	5,397.91	5,300.64	5,364.03	23.67	22.73	-73.57	-4,224.31	-4,966.31	6,478.66	6,432.35	46.31	139.897		
5,480.98	5,478.85	5,361.14	5,424.52	24.02	22.99	-73.58	-4,224.05	-4,967.09	6,478.53	6,431.62	46.92	138.080		
5,500.00	5,497.87	5,375.40	5,438.78	24.10	23.05	-73.58	-4,224.01	-4,967.29	6,478.54	6,431.48	47.06	137.660		
5,600.00	5,597.82	5,517.52	5,580.89	24.54	23.65	-73.61	-4,223.54	-4,969.05	6,478.46	6,430.36	48.10	134.692		
5,686.04	5,683.83	5,566.25	5,629.61	24.91	23.86	-73.61	-4,223.46	-4,969.59	6,478.29	6,429.61	48.68	133.080		
5,700.00	5,697.78	5,575.87	5,639.23	24.97	23.90	-73.62	-4,223.47	-4,969.69	6,478.30	6,429.51	48.78	132.803		
5,800.00	5,797.74	5,654.70	5,718.06	25.41	24.23	-73.63	-4,223.68	-4,970.66	6,478.55	6,429.00	49.55	130.747		
5,900.00	5,897.69	5,744.68	5,808.03	25.85	24.62	-73.65	-4,223.95	-4,972.03	6,479.05	6,428.68	50.37	128.637		
6,000.00	5,997.65	5,834.88	5,898.21	26.28	25.00	-73.67	-4,224.38	-4,973.37	6,479.64	6,428.46	51.18	126.593		
6,100.00	6,097.60	5,920.17	5,983.49	26.72	25.36	-73.68	-4,224.60	-4,975.09	6,480.48	6,428.50	51.98	124.668		
6,200.00	6,197.56	6,023.45	6,086.74	27.16	25.80	-73.69	-4,224.67	-4,977.45	6,481.40	6,428.54	52.86	122.622		
6,300.00	6,297.52	6,127.32	6,190.59	27.59	26.24	-73.71	-4,224.88	-4,979.53	6,482.20	6,428.46	53.73	120.634		
6,400.00	6,397.47	6,210.41	6,273.65	28.03	26.60	-73.72	-4,224.80	-4,981.57	6,483.14	6,428.62	54.52	118.908		
6,500.00	6,497.43	6,285.09	6,348.31	28.47	26.91	-73.72	-4,224.92	-4,983.58	6,484.41	6,429.14	55.27	117.316		
6,600.00	6,597.38	6,398.27	6,461.44	28.90	27.40	-73.74	-4,225.31	-4,986.64	6,485.84	6,429.65	56.19	115.422		
6,700.00	6,697.08	6,493.45	6,556.58	29.34	27.80	-48.04	-4,225.33	-4,989.33	6,484.08	6,427.05	57.03	113.689		
6,800.00	6,794.63	6,578.74	6,641.85	29.79	28.16	-45.46	-4,225.63	-4,991.66	6,471.22	6,413.39	57.83	111.899		
6,900.00	6,887.62	6,656.91	6,719.98	30.24	28.50	-46.12	-4,226.15	-4,993.79	6,447.23	6,388.64	58.59	110.043		
7,000.00	6,973.77	6,728.12	6,791.15	30.70	28.80	-48.21	-4,226.32	-4,996.25	6,412.83	6,353.53	59.30	108.136		
7,100.00	7,050.94	6,791.56	6,854.53	31.20	29.07	-51.51	-4,226.23	-4,998.89	6,368.97	6,308.99	59.98	106.187		
7,200.00	7,117.24	6,838.22	6,901.14	31.77	29.27	-55.99	-4,226.10	-5,001.07	6,316.86	6,256.27	60.59	104.254		
7,300.00	7,171.03	6,875.74	6,938.62	32.46	29.43	-61.73	-4,226.09	-5,002.93	6,257.92	6,196.72	61.20	102.257		
7,400.00	7,211.00	6,900.01	6,962.86	33.29	29.53	-68.68	-4,226.12	-5,004.18	6,193.66	6,131.86	61.81	100.210		
7,500.00	7,236.16	6,920.54	6,983.36	34.29	29.62	-76.79	-4,226.18	-5,005.28	6,125.73	6,063.25	62.48	98.045		
7,600.00	7,245.89	6,928.88	6,991.68	35.43	29.66	-85.54	-4,226.22	-5,005.73	6,055.84	5,992.66	63.18	95.845		
7,700.00	7,245.73	6,931.86	6,994.66	36.72	29.67	-86.83	-4,226.23	-5,005.90	5,985.85	5,921.88	63.97	93.573		
7,800.00	7,245.42	6,934.79	6,997.59	38.18	29.68	-86.86	-4,226.25	-5,006.06	5,916.71	5,851.81	64.89	91.175		
7,900.00	7,245.10	6,937.76	7,000.55	39.80	29.70	-86.90	-4,226.26	-5,006.23	5,848.46	5,782.50	65.96	88.673		
8,000.00	7,244.79	6,940.77	7,003.55	41.54	29.71	-86.94	-4,226.28	-5,006.40	5,781.13	5,713.97	67.15	86.090		
8,100.00	7,244.48	6,943.81	7,006.59	43.41	29.72	-86.98	-4,226.30	-5,006.57	5,714.75	5,646.27	68.48	83.451		
8,200.00	7,244.17	6,946.90	7,009.67	45.38	29.73	-87.03	-4,226.31	-5,006.75	5,649.36	5,579.42	69.94	80.778		
8,300.00	7,243.86	6,950.02	7,012.78	47.44	29.75	-87.07	-4,226.33	-5,006.93	5,584.99	5,513.47	71.52	78.092		
8,400.00	7,243.55	6,953.18	7,015.94	49.58	29.76	-87.11	-4,226.35	-5,007.11	5,521.68	5,448.46	73.22	75.414		
8,500.00	7,243.23	6,956.38	7,019.13	51.78	29.78	-87.15	-4,226.37	-5,007.30	5,459.47	5,384.43	75.03	72.759		
8,600.00	7,242.92	6,959.62	7,022.37	54.05	29.79	-87.19	-4,226.40	-5,007.49	5,398.38	5,321.42	76.96	70.145		
8,700.00	7,242.61	6,962.90	7,025.64	56.37	29.80	-87.24	-4,226.42	-5,007.68	5,338.47	5,259.48	78.99	67.582		
8,800.00	7,242.30	6,966.22	7,028.96	58.74	29.82	-87.28	-4,226.45	-5,007.88	5,279.77	5,198.64	81.13	65.081		
8,900.00	7,241.99	6,969.59	7,032.32	61.16	29.83	-87.33	-4,226.47	-5,008.08	5,222.32	5,138.97	83.36	62.651		
9,000.00	7,241.67	6,973.00	7,035.73	63.61	29.85	-87.37	-4,226.50	-5,008.28	5,166.16	5,080.49	85.68	60.298		
9,100.00	7,241.36	6,976.46	7,039.18	66.09	29.86	-87.42	-4,226.53	-5,008.49	5,111.34	5,023.26	88.09	58.026		
9,200.00	7,241.05	6,979.96	7,042.68	68.60	29.88	-87.47	-4,226.56	-5,008.70	5,057.90	4,967.32	90.58	55.838		
9,300.00	7,240.74	6,983.51	7,046.22	71.13	29.89	-87.51	-4,226.59	-5,008.92	5,005.88	4,912.73	93.15	53.737		
9,400.00	7,240.43	7,000.01	7,062.69	73.70	29.96	-87.73	-4,226.75	-5,009.95	4,955.36	4,859.50	95.86	51.693		
9,500.00	7,240.11	7,000.01	7,062.69	76.28	29.96	-87.73	-4,226.75	-5,009.95	4,906.31	4,807.75	98.56	49.778		
9,600.00	7,239.80	7,000.01	7,062.69	78.88	29.96	-87.73	-4,226.75	-5,009.95	4,858.82	4,757.49	101.33	47.949		
9,700.00	7,239.49	7,000.01	7,062.69	81.50	29.96	-87.73	-4,226.75	-5,009.95	4,812.95	4,708.78	104.16	46.206		
9,800.00	7,239.18	7,002.53	7,065.20	84.13	29.97	-87.77	-4,226.77	-5,010.11	4,768.72	4,661.66	107.06	44.541		
9,900.00	7,238.87	7,007.37	7,070.02	86.78	29.99	-87.83	-4,226.83	-5,010.41	4,726.20	4,616.17	110.03	42.955		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,000.00	7,238.55	7,012.20	7,074.85	89.44	30.01	-87.89	-4,226.88	-5,010.72	4,685.42	4,572.38	113.04	41.450		
10,100.00	7,238.24	7,017.04	7,079.68	92.11	30.03	-87.96	-4,226.93	-5,011.02	4,646.42	4,530.33	116.09	40.024		
10,200.00	7,237.93	7,021.89	7,084.52	94.80	30.05	-88.02	-4,226.99	-5,011.33	4,609.26	4,490.08	119.18	38.674		
10,300.00	7,237.62	7,026.74	7,089.36	97.49	30.08	-88.09	-4,227.04	-5,011.64	4,573.98	4,451.67	122.31	37.397		
10,400.00	7,237.31	7,031.59	7,094.20	100.19	30.10	-88.15	-4,227.10	-5,011.94	4,540.62	4,415.16	125.46	36.192		
10,500.00	7,236.99	7,036.45	7,099.05	102.90	30.12	-88.22	-4,227.16	-5,012.25	4,509.22	4,380.59	128.63	35.055		
10,600.00	7,236.68	7,041.31	7,103.90	105.62	30.14	-88.28	-4,227.22	-5,012.56	4,479.83	4,348.01	131.82	33.985		
10,700.00	7,236.37	7,046.18	7,108.76	108.35	30.16	-88.35	-4,227.28	-5,012.86	4,452.49	4,317.47	135.02	32.978		
10,800.00	7,236.06	7,051.05	7,113.62	111.08	30.18	-88.41	-4,227.35	-5,013.17	4,427.23	4,289.01	138.22	32.031		
10,900.00	7,235.75	7,055.92	7,118.48	113.82	30.20	-88.48	-4,227.41	-5,013.48	4,404.09	4,262.67	141.41	31.144		
11,000.00	7,235.44	7,060.80	7,123.35	116.56	30.22	-88.54	-4,227.48	-5,013.79	4,383.10	4,238.50	144.60	30.312		
11,100.00	7,235.12	7,065.68	7,128.22	119.31	30.24	-88.61	-4,227.55	-5,014.10	4,364.30	4,216.53	147.77	29.534		
11,200.00	7,234.81	7,070.57	7,133.09	122.07	30.26	-88.67	-4,227.61	-5,014.41	4,347.71	4,196.79	150.92	28.809		
11,300.00	7,234.50	7,075.46	7,137.97	124.83	30.28	-88.74	-4,227.68	-5,014.72	4,333.35	4,179.32	154.04	28.132		
11,400.00	7,234.19	7,080.35	7,142.86	127.59	30.30	-88.80	-4,227.76	-5,015.03	4,321.26	4,164.14	157.12	27.503		
11,500.00	7,233.88	7,085.25	7,147.74	130.36	30.33	-88.87	-4,227.83	-5,015.34	4,311.45	4,151.29	160.16	26.920		
11,600.00	7,233.56	7,090.15	7,152.64	133.13	30.35	-88.93	-4,227.90	-5,015.65	4,303.93	4,140.78	163.15	26.380		
11,700.00	7,233.25	7,095.06	7,157.53	135.91	30.37	-89.00	-4,227.98	-5,015.96	4,298.72	4,132.63	166.09	25.882		
11,800.00	7,232.94	7,100.01	7,162.48	138.68	30.39	-89.06	-4,228.05	-5,016.28	4,295.82	4,126.85	168.97	25.423		
11,874.88	7,232.71	7,104.49	7,166.94	140.77	30.41	-89.12	-4,228.13	-5,016.56	4,295.17	4,124.08	171.09	25.105 CC		
11,900.00	7,232.63	7,106.01	7,168.46	141.47	30.41	-89.14	-4,228.15	-5,016.66	4,295.24	4,123.45	171.79	25.003		
12,000.00	7,232.32	7,112.07	7,174.51	144.25	30.44	-89.22	-4,228.24	-5,017.04	4,296.99	4,122.44	174.54	24.618 ES		
12,100.00	7,232.00	7,118.12	7,180.55	147.04	30.47	-89.30	-4,228.34	-5,017.43	4,301.04	4,123.83	177.22	24.270		
12,200.00	7,231.69	7,124.18	7,186.59	149.83	30.49	-89.38	-4,228.44	-5,017.81	4,307.41	4,127.60	179.82	23.954		
12,300.00	7,231.38	7,130.23	7,192.63	152.62	30.52	-89.47	-4,228.53	-5,018.20	4,316.08	4,133.75	182.33	23.671		
12,400.00	7,231.07	7,136.29	7,198.68	155.42	30.54	-89.55	-4,228.63	-5,018.58	4,327.03	4,142.27	184.76	23.419		
12,500.00	7,230.76	7,142.34	7,204.72	158.22	30.57	-89.63	-4,228.72	-5,018.97	4,340.26	4,153.15	187.11	23.197		
12,600.00	7,230.44	7,148.40	7,210.76	161.01	30.60	-89.71	-4,228.82	-5,019.35	4,355.73	4,166.37	189.36	23.003		
12,700.00	7,230.13	7,154.45	7,216.80	163.82	30.62	-89.79	-4,228.91	-5,019.74	4,373.42	4,181.90	191.52	22.836		
12,800.00	7,229.82	7,160.51	7,222.84	166.62	30.65	-89.87	-4,229.01	-5,020.12	4,393.31	4,199.73	193.58	22.695		
12,900.00	7,229.51	7,166.56	7,228.88	169.43	30.67	-89.95	-4,229.10	-5,020.51	4,415.37	4,219.82	195.55	22.579		
13,000.00	7,229.20	7,172.61	7,234.92	172.23	30.70	-90.03	-4,229.20	-5,020.89	4,439.57	4,242.14	197.43	22.487		
13,100.00	7,228.88	7,178.67	7,240.96	175.04	30.73	-90.11	-4,229.30	-5,021.28	4,465.86	4,266.65	199.21	22.418		
13,200.00	7,228.57	7,184.72	7,247.00	177.85	30.75	-90.19	-4,229.39	-5,021.66	4,494.22	4,293.32	200.90	22.371		
13,300.00	7,228.26	7,190.77	7,253.04	180.66	30.78	-90.27	-4,229.49	-5,022.04	4,524.60	4,322.11	202.49	22.345		
13,400.00	7,227.95	7,196.82	7,259.08	183.48	30.80	-90.35	-4,229.58	-5,022.43	4,556.97	4,352.98	203.99	22.339 SF		
13,500.00	7,227.64	7,202.87	7,265.12	186.29	30.83	-90.43	-4,229.68	-5,022.81	4,591.28	4,385.88	205.40	22.353		
13,600.00	7,227.33	7,208.92	7,271.16	189.11	30.86	-90.51	-4,229.77	-5,023.20	4,627.48	4,420.77	206.72	22.386		
13,700.00	7,227.01	7,214.98	7,277.19	191.92	30.88	-90.59	-4,229.87	-5,023.58	4,665.55	4,457.60	207.95	22.436		
13,800.00	7,226.70	7,221.03	7,283.23	194.74	30.91	-90.67	-4,229.96	-5,023.97	4,705.42	4,496.32	209.10	22.503		
13,900.00	7,226.39	7,227.08	7,289.27	197.56	30.93	-90.75	-4,230.06	-5,024.35	4,747.06	4,536.89	210.16	22.587		
14,000.00	7,226.08	7,233.13	7,295.30	200.38	30.96	-90.84	-4,230.15	-5,024.73	4,790.41	4,579.26	211.15	22.687		
14,100.00	7,225.77	7,239.17	7,301.34	203.21	30.99	-90.92	-4,230.25	-5,025.12	4,835.44	4,623.38	212.06	22.802		
14,200.00	7,225.45	7,245.22	7,307.38	206.03	31.01	-91.00	-4,230.34	-5,025.50	4,882.09	4,669.20	212.89	22.932		
14,300.00	7,225.14	7,251.27	7,313.41	208.85	31.04	-91.08	-4,230.44	-5,025.89	4,930.33	4,716.67	213.66	23.076		
14,400.00	7,224.83	7,257.32	7,319.45	211.68	31.07	-91.16	-4,230.53	-5,026.27	4,980.09	4,765.74	214.35	23.233		
14,500.00	7,224.52	7,263.37	7,325.48	214.50	31.09	-91.24	-4,230.63	-5,026.66	5,031.35	4,816.36	214.99	23.403		
14,600.00	7,224.21	7,269.42	7,331.52	217.33	31.12	-91.32	-4,230.73	-5,027.04	5,084.05	4,868.49	215.56	23.586		
14,700.00	7,223.89	7,275.46	7,337.55	220.16	31.14	-91.40	-4,230.82	-5,027.42	5,138.14	4,922.08	216.07	23.781		
14,800.00	7,223.58	7,281.51	7,343.59	222.98	31.17	-91.48	-4,230.92	-5,027.81	5,193.60	4,977.08	216.52	23.987		
14,900.00	7,223.27	7,287.56	7,349.62	225.81	31.20	-91.56	-4,231.01	-5,028.19	5,250.36	5,033.44	216.92	24.204		
14,987.41	7,223.00	7,292.84	7,354.89	228.28	31.22	-91.63	-4,231.09	-5,028.53	5,301.02	5,083.79	217.23	24.403		

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



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	25.00	73.00	3.28	3.28	-148.40	-5,353.18	-3,293.87	6,285.81					
100.00	100.00	90.35	138.35	3.28	3.28	-148.40	-5,353.03	-3,293.74	6,285.31	6,278.74	6.57	956.955		
200.00	200.00	193.10	241.09	3.34	3.33	-148.39	-5,352.26	-3,293.55	6,284.57	6,277.91	6.67	942.722		
300.00	300.00	263.20	311.19	3.44	3.39	-148.39	-5,351.77	-3,293.76	6,284.14	6,277.30	6.84	919.005		
400.00	400.00	1,473.37	1,508.27	3.60	7.51	-147.47	-5,213.16	-3,324.43	6,281.49	6,270.46	11.02	569.754		
500.00	500.00	1,531.87	1,565.20	3.81	7.82	-147.39	-5,199.90	-3,326.59	6,264.16	6,252.69	11.48	545.797		
600.00	600.00	1,610.01	1,641.33	4.05	8.24	-147.28	-5,182.54	-3,329.67	6,247.38	6,235.31	12.07	517.585		
700.00	699.98	1,680.64	1,710.09	4.32	8.63	-89.47	-5,166.75	-3,332.93	6,230.87	6,218.20	12.66	491.982		
800.00	799.94	1,797.17	1,823.63	4.61	9.28	-89.33	-5,141.13	-3,338.57	6,214.84	6,201.32	13.52	459.613		
900.00	899.89	1,894.91	1,918.73	4.92	9.84	-89.21	-5,119.10	-3,343.35	6,198.34	6,184.02	14.32	432.896		
1,000.00	999.85	1,992.65	2,013.84	5.25	10.41	-89.08	-5,097.08	-3,348.12	6,181.87	6,166.73	15.14	408.302		
1,100.00	1,099.80	2,090.39	2,108.95	5.60	10.99	-88.96	-5,075.06	-3,352.90	6,165.43	6,149.44	15.98	385.720		
1,200.00	1,199.76	2,188.13	2,204.05	5.96	11.57	-88.83	-5,053.03	-3,357.67	6,149.01	6,132.17	16.85	365.009		
1,300.00	1,299.72	2,285.87	2,299.16	6.33	12.15	-88.71	-5,031.01	-3,362.45	6,132.63	6,114.90	17.72	346.012		
1,400.00	1,399.67	2,383.61	2,394.26	6.71	12.74	-88.58	-5,008.98	-3,367.23	6,116.27	6,097.66	18.61	328.575		
1,500.00	1,499.63	2,481.35	2,489.37	7.10	13.33	-88.46	-4,986.96	-3,372.00	6,099.95	6,080.43	19.52	312.549		
1,600.00	1,599.58	2,579.09	2,584.48	7.49	13.92	-88.33	-4,964.93	-3,376.78	6,083.65	6,063.22	20.43	297.797		
1,700.00	1,699.54	2,676.83	2,679.58	7.88	14.52	-88.20	-4,942.91	-3,381.56	6,067.38	6,046.03	21.35	284.192		
1,800.00	1,799.50	2,774.57	2,774.69	8.28	15.12	-88.07	-4,920.88	-3,386.33	6,051.15	6,028.87	22.28	271.620		
1,900.00	1,899.45	2,872.31	2,869.80	8.69	15.72	-87.94	-4,898.86	-3,391.11	6,034.94	6,011.73	23.21	259.981		
2,000.00	1,999.41	2,970.05	2,964.90	9.10	16.33	-87.81	-4,876.83	-3,395.88	6,018.76	5,994.61	24.15	249.182		
2,100.00	2,099.36	3,067.79	3,060.01	9.51	16.93	-87.68	-4,854.81	-3,400.66	6,002.62	5,977.52	25.10	239.143		
2,200.00	2,199.32	3,165.53	3,155.11	9.92	17.54	-87.55	-4,832.78	-3,405.44	5,986.51	5,960.45	26.05	229.792		
2,300.00	2,299.28	3,263.27	3,250.22	10.34	18.14	-87.42	-4,810.76	-3,410.21	5,970.42	5,943.42	27.01	221.066		
2,400.00	2,399.23	3,361.01	3,345.33	10.75	18.75	-87.29	-4,788.74	-3,414.99	5,954.37	5,926.41	27.97	212.906		
2,500.00	2,499.19	3,458.75	3,440.43	11.17	19.36	-87.15	-4,766.71	-3,419.76	5,938.36	5,909.42	28.93	205.263		
2,600.00	2,599.14	3,556.49	3,535.54	11.60	19.97	-87.02	-4,744.69	-3,424.54	5,922.37	5,892.47	29.90	198.091		
2,700.00	2,699.10	3,654.22	3,630.64	12.02	20.58	-86.89	-4,722.66	-3,429.32	5,906.41	5,875.55	30.87	191.350		
2,800.00	2,799.06	3,751.96	3,725.75	12.44	21.19	-86.75	-4,700.64	-3,434.09	5,890.49	5,858.65	31.84	185.005		
2,900.00	2,899.01	10,714.02	7,245.38	12.87	120.64	-124.85	-3,871.95	32.72	5,845.26	5,747.10	98.16	59.549		
3,000.00	2,998.97	10,709.75	7,245.45	13.29	120.51	-124.79	-3,871.96	28.45	5,772.42	5,673.15	99.27	58.147		
3,100.00	3,098.92	10,705.48	7,245.53	13.72	120.37	-124.73	-3,871.98	24.19	5,700.41	5,599.99	100.41	56.770		
3,200.00	3,198.88	10,701.22	7,245.60	14.14	120.24	-124.67	-3,871.99	19.92	5,629.24	5,527.67	101.58	55.419		
3,300.00	3,298.84	10,703.05	7,245.68	14.57	120.30	-124.61	-3,872.01	15.65	5,558.97	5,456.06	102.90	54.020		
3,400.00	3,398.79	10,692.68	7,245.75	15.00	119.97	-124.55	-3,872.02	11.38	5,489.61	5,385.64	103.97	52.798		
3,500.00	3,498.75	10,688.41	7,245.83	15.43	119.83	-124.48	-3,872.04	7.11	5,421.20	5,316.00	105.20	51.530		
3,600.00	3,598.70	10,684.14	7,245.90	15.86	119.70	-124.42	-3,872.05	2.84	5,353.79	5,247.33	106.46	50.290		
3,700.00	3,698.66	10,679.87	7,245.98	16.29	119.56	-124.36	-3,872.06	-1.42	5,287.40	5,179.67	107.73	49.080		
3,800.00	3,798.62	10,675.60	7,246.05	16.72	119.43	-124.30	-3,872.08	-5.69	5,222.08	5,113.06	109.02	47.900		
3,900.00	3,898.57	10,671.33	7,246.13	17.15	119.29	-124.24	-3,872.09	-9.96	5,157.87	5,047.55	110.33	46.750		
4,000.00	3,998.53	10,667.06	7,246.20	17.59	119.16	-124.18	-3,872.11	-14.23	5,094.81	4,983.16	111.65	45.632		
4,100.00	4,098.48	10,662.80	7,246.28	18.02	119.02	-124.12	-3,872.12	-18.50	5,032.95	4,919.96	112.99	44.544		
4,200.00	4,198.44	10,658.53	7,246.35	18.45	118.89	-124.05	-3,872.14	-22.77	4,972.32	4,857.98	114.34	43.488		
4,300.00	4,298.40	10,654.26	7,246.43	18.88	118.75	-123.99	-3,872.15	-27.03	4,912.97	4,797.28	115.70	42.464		
4,400.00	4,398.35	10,649.99	7,246.50	19.32	118.62	-123.93	-3,872.16	-31.30	4,854.96	4,737.89	117.07	41.472		
4,500.00	4,498.31	10,645.72	7,246.58	19.75	118.48	-123.87	-3,872.18	-35.57	4,798.32	4,679.88	118.44	40.512		
4,600.00	4,598.26	10,641.45	7,246.65	20.19	118.35	-123.81	-3,872.19	-39.84	4,743.12	4,623.30	119.82	39.586		
4,700.00	4,698.22	10,637.18	7,246.73	20.62	118.21	-123.75	-3,872.21	-44.11	4,689.39	4,568.19	121.20	38.692		
4,800.00	4,798.18	10,632.91	7,246.80	21.05	118.08	-123.69	-3,872.22	-48.37	4,637.19	4,514.62	122.58	37.831		
4,900.00	4,898.13	10,628.64	7,246.88	21.49	117.94	-123.62	-3,872.23	-52.64	4,586.58	4,462.63	123.95	37.004		
5,000.00	4,998.09	10,624.38	7,246.95	21.92	117.81	-123.56	-3,872.25	-56.91	4,537.60	4,412.28	125.31	36.210		
5,100.00	5,098.04	10,620.11	7,247.03	22.36	117.67	-123.50	-3,872.26	-61.18	4,490.30	4,363.64	126.67	35.450		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	10,615.84	7,247.10	22.79	117.54	-123.44	-3,872.28	-65.45	4,444.76	4,316.75	128.01	34.723		
5,300.00	5,297.96	10,611.57	7,247.18	23.23	117.40	-123.38	-3,872.29	-69.72	4,401.01	4,271.68	129.33	34.031		
5,400.00	5,397.91	10,607.30	7,247.26	23.67	117.27	-123.32	-3,872.31	-73.98	4,359.11	4,228.48	130.62	33.372		
5,500.00	5,497.87	10,603.03	7,247.33	24.10	117.13	-123.26	-3,872.32	-78.25	4,319.11	4,187.22	131.89	32.747		
5,600.00	5,597.82	10,601.24	7,247.41	24.54	117.07	-123.19	-3,872.33	-82.52	4,281.08	4,147.87	133.21	32.138		
5,700.00	5,697.78	10,594.49	7,247.48	24.97	116.86	-123.13	-3,872.35	-86.79	4,245.05	4,110.71	134.34	31.599		
5,800.00	5,797.74	10,590.22	7,247.56	25.41	116.73	-123.07	-3,872.36	-91.06	4,211.09	4,075.58	135.51	31.077		
5,900.00	5,897.69	10,585.96	7,247.63	25.85	116.59	-123.01	-3,872.38	-95.33	4,179.24	4,042.61	136.63	30.588		
6,000.00	5,997.65	10,581.69	7,247.71	26.28	116.46	-122.95	-3,872.39	-99.59	4,149.55	4,011.85	137.70	30.134		
6,100.00	6,097.60	10,577.42	7,247.78	26.72	116.32	-122.89	-3,872.41	-103.86	4,122.07	3,983.34	138.73	29.714		
6,200.00	6,197.56	10,573.15	7,247.86	27.16	116.19	-122.83	-3,872.42	-108.13	4,096.84	3,957.15	139.69	29.328		
6,300.00	6,297.52	10,568.88	7,247.93	27.59	116.05	-122.76	-3,872.43	-112.40	4,073.91	3,933.31	140.60	28.976		
6,400.00	6,397.47	10,564.61	7,248.01	28.03	115.92	-122.70	-3,872.45	-116.67	4,053.31	3,911.87	141.44	28.658		
6,500.00	6,497.43	10,560.34	7,248.08	28.47	115.78	-122.64	-3,872.46	-120.93	4,035.08	3,892.87	142.21	28.374		
6,600.00	6,597.38	10,556.07	7,248.16	28.90	115.65	-122.58	-3,872.48	-125.20	4,019.26	3,876.34	142.91	28.124		
6,700.00	6,697.08	10,556.29	7,248.30	29.34	115.65	-97.46	-3,872.50	-133.52	4,005.88	3,862.20	143.68	27.880		
6,800.00	6,794.63	10,524.56	7,248.71	29.79	114.65	-94.65	-3,872.58	-156.71	3,995.12	3,851.75	143.37	27.866		
6,900.00	6,887.62	10,486.45	7,249.38	30.24	113.45	-93.83	-3,872.71	-194.81	3,987.00	3,844.23	142.77	27.926		
7,000.00	6,973.77	10,434.37	7,250.30	30.70	111.82	-93.21	-3,872.88	-246.89	3,981.32	3,839.65	141.67	28.103		
7,100.00	7,050.94	10,368.49	7,251.41	31.20	109.75	-92.53	-3,873.10	-312.76	3,977.72	3,837.61	140.11	28.391		
7,200.00	7,117.24	10,291.34	7,251.62	31.77	107.33	-91.81	-3,873.36	-389.90	3,975.67	3,837.45	138.22	28.764 ES		
7,300.00	7,171.03	10,207.17	7,251.62	32.46	104.71	-91.14	-3,873.64	-474.07	3,974.71	3,838.50	136.21	29.181		
7,400.00	7,211.00	10,115.62	7,251.62	33.29	101.86	-90.58	-3,873.95	-565.63	3,974.34	3,840.22	134.12	29.632		
7,500.00	7,236.16	10,018.94	7,251.62	34.29	98.87	-90.20	-3,874.27	-662.30	3,974.15	3,842.09	132.06	30.093		
7,600.00	7,245.89	9,919.52	7,251.62	35.43	95.81	-90.08	-3,874.60	-761.72	3,973.85	3,843.76	130.09	30.546		
7,700.00	7,245.73	9,819.52	7,251.62	36.72	92.75	-90.09	-3,874.94	-861.72	3,973.42	3,845.14	128.28	30.974		
7,800.00	7,245.42	9,719.52	7,251.62	38.18	89.70	-90.09	-3,875.27	-961.72	3,972.99	3,846.33	126.66	31.367		
7,900.00	7,245.10	9,619.52	7,251.62	39.80	86.68	-90.09	-3,875.60	-1,061.72	3,972.56	3,847.34	125.21	31.726		
8,000.00	7,244.79	9,519.52	7,251.62	41.54	83.69	-90.10	-3,875.94	-1,161.72	3,972.12	3,848.21	123.92	32.054		
8,100.00	7,244.48	9,419.53	7,251.62	43.41	80.72	-90.10	-3,876.27	-1,261.71	3,971.69	3,848.93	122.77	32.352		
8,200.00	7,244.17	9,319.53	7,251.62	45.38	77.78	-90.11	-3,876.61	-1,361.71	3,971.26	3,849.52	121.74	32.620		
8,300.00	7,243.86	9,219.53	7,251.62	47.44	74.88	-90.11	-3,876.94	-1,461.71	3,970.82	3,849.99	120.84	32.860		
8,400.00	7,243.55	9,119.53	7,251.62	49.58	72.01	-90.12	-3,877.27	-1,561.71	3,970.39	3,850.34	120.05	33.073		
8,500.00	7,243.23	9,019.53	7,251.62	51.78	69.19	-90.12	-3,877.61	-1,661.71	3,969.96	3,850.60	119.36	33.259		
8,600.00	7,242.92	8,919.53	7,251.62	54.05	66.42	-90.13	-3,877.94	-1,761.70	3,969.53	3,850.74	118.78	33.418		
8,700.00	7,242.61	8,819.53	7,251.62	56.37	63.70	-90.13	-3,878.28	-1,861.70	3,969.09	3,850.79	118.30	33.550		
8,800.00	7,242.30	8,719.54	7,251.62	58.74	61.05	-90.14	-3,878.61	-1,961.70	3,968.66	3,850.73	117.93	33.653		
8,900.00	7,241.99	8,619.54	7,251.62	61.16	58.49	-90.14	-3,878.94	-2,061.70	3,968.23	3,850.57	117.66	33.728		
9,000.00	7,241.67	8,519.54	7,251.62	63.61	56.01	-90.14	-3,879.28	-2,161.70	3,967.79	3,850.30	117.49	33.770		
9,100.00	7,241.36	8,419.54	7,251.62	66.09	53.64	-90.15	-3,879.61	-2,261.69	3,967.36	3,849.91	117.45	33.780		
9,200.00	7,241.05	8,319.54	7,251.62	68.60	51.42	-90.15	-3,879.95	-2,361.69	3,966.93	3,849.40	117.53	33.753		
9,300.00	7,240.74	8,219.54	7,251.62	71.13	49.36	-90.16	-3,880.28	-2,461.69	3,966.50	3,848.75	117.75	33.687		
9,400.00	7,240.43	8,119.54	7,251.62	73.70	47.53	-90.16	-3,880.61	-2,561.69	3,966.06	3,847.95	118.12	33.578		
9,500.00	7,240.11	8,019.55	7,251.62	76.28	45.99	-90.17	-3,880.95	-2,661.69	3,965.63	3,846.97	118.66	33.421		
9,600.00	7,239.80	7,919.55	7,251.62	78.88	44.79	-90.17	-3,881.28	-2,761.68	3,965.20	3,845.81	119.39	33.212		
9,700.00	7,239.49	7,819.55	7,251.62	81.50	43.95	-90.18	-3,881.62	-2,861.68	3,964.77	3,844.43	120.33	32.948		
9,800.00	7,239.18	7,738.10	7,251.62	84.13	43.50	-90.18	-3,881.89	-2,943.14	3,964.38	3,842.60	121.78	32.553		
9,810.97	7,239.14	7,725.73	7,251.51	84.42	43.44	-90.18	-3,881.96	-2,955.50	3,964.35	3,842.45	121.90	32.521 CC		
9,900.00	7,238.87	7,700.00	7,250.51	86.78	43.34	-90.17	-3,882.27	-2,981.21	3,964.97	3,841.02	123.96	31.987		
10,000.00	7,238.55	7,652.02	7,245.96	89.44	43.18	-90.10	-3,883.49	-3,028.95	3,966.99	3,840.98	126.00	31.483		
10,100.00	7,238.24	7,600.00	7,237.09	92.11	43.03	-89.98	-3,885.71	-3,080.14	3,970.53	3,842.50	128.03	31.013		
10,200.00	7,237.93	7,566.81	7,229.31	94.80	42.95	-89.87	-3,887.62	-3,112.35	3,975.58	3,845.29	130.29	30.513		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	7,528.47	7,218.30	97.49	42.87	-89.71	-3,890.30	-3,148.96	3,982.21	3,849.71	132.50	30.055		
10,400.00	7,237.31	7,500.00	7,208.75	100.19	42.81	-89.57	-3,892.60	-3,175.68	3,990.46	3,855.67	134.78	29.606		
10,500.00	7,236.99	7,452.02	7,190.05	102.90	42.71	-89.30	-3,897.08	-3,219.64	4,000.32	3,863.42	136.89	29.222		
10,600.00	7,236.68	7,422.97	7,177.18	105.62	42.65	-89.12	-3,900.15	-3,245.49	4,011.88	3,872.71	139.17	28.828		
10,700.00	7,236.37	7,400.00	7,166.20	108.35	42.61	-88.96	-3,902.76	-3,265.49	4,025.21	3,883.79	141.41	28.464		
10,800.00	7,236.06	7,352.01	7,141.03	111.08	42.51	-88.61	-3,908.73	-3,305.89	4,040.30	3,896.81	143.49	28.157		
10,900.00	7,235.75	7,333.23	7,130.38	113.82	42.47	-88.46	-3,911.25	-3,321.16	4,057.16	3,911.45	145.71	27.843		
11,000.00	7,235.44	7,306.80	7,114.66	116.56	42.41	-88.23	-3,914.96	-3,342.08	4,075.91	3,928.07	147.84	27.570		
11,100.00	7,235.12	7,282.01	7,099.16	119.31	42.34	-88.01	-3,918.62	-3,361.08	4,096.51	3,946.58	149.93	27.322		
11,200.00	7,234.81	7,252.01	7,079.46	122.07	42.27	-87.73	-3,923.26	-3,383.21	4,119.02	3,967.08	151.94	27.109		
11,300.00	7,234.50	7,237.03	7,069.24	124.83	42.23	-87.59	-3,925.66	-3,393.90	4,143.39	3,989.42	153.97	26.911		
11,400.00	7,234.19	7,208.36	7,049.03	127.59	42.16	-87.31	-3,930.41	-3,413.66	4,169.71	4,013.83	155.87	26.751		
11,500.00	7,233.88	7,200.00	7,042.96	130.36	42.13	-87.22	-3,931.83	-3,419.25	4,197.86	4,040.07	157.79	26.604		
11,600.00	7,233.56	7,179.72	7,027.98	133.13	42.07	-87.01	-3,935.35	-3,432.45	4,227.92	4,068.32	159.61	26.490		
11,700.00	7,233.25	7,152.01	7,006.86	135.91	41.99	-86.71	-3,940.30	-3,449.68	4,259.92	4,098.60	161.33	26.406		
11,800.00	7,232.94	7,152.01	7,006.86	138.68	41.99	-86.71	-3,940.30	-3,449.68	4,293.68	4,130.61	163.06	26.331		
11,900.00	7,232.63	7,132.52	6,991.57	141.47	41.92	-86.50	-3,943.88	-3,461.22	4,329.30	4,164.62	164.68	26.289		
12,000.00	7,232.32	7,118.67	6,980.50	144.25	41.88	-86.35	-3,946.48	-3,469.14	4,366.74	4,200.50	166.24	26.267 SF		
12,100.00	7,232.00	7,100.00	6,965.32	147.04	41.82	-86.13	-3,950.03	-3,479.41	4,405.98	4,238.26	167.72	26.270		
12,200.00	7,231.69	7,100.00	6,965.32	149.83	41.82	-86.13	-3,950.03	-3,479.41	4,446.95	4,277.78	169.18	26.286		
12,300.00	7,231.38	7,081.83	6,950.26	152.62	41.75	-85.93	-3,953.55	-3,488.96	4,489.61	4,319.08	170.53	26.327		
12,400.00	7,231.07	7,070.93	6,941.11	155.42	41.71	-85.80	-3,955.69	-3,494.47	4,533.97	4,362.14	171.83	26.387		
12,500.00	7,230.76	7,052.01	6,925.01	158.22	41.65	-85.58	-3,959.45	-3,503.66	4,580.00	4,406.96	173.04	26.467		
12,600.00	7,230.44	7,050.90	6,924.05	161.01	41.64	-85.56	-3,959.68	-3,504.19	4,627.56	4,453.32	174.24	26.559		
12,700.00	7,230.13	7,049.69	6,923.02	163.82	41.64	-85.55	-3,959.92	-3,504.75	4,676.74	4,501.38	175.36	26.669		
12,800.00	7,229.82	7,032.96	6,908.53	166.62	41.57	-85.35	-3,963.30	-3,512.42	4,727.37	4,550.97	176.40	26.799		
12,900.00	7,229.51	7,010.76	6,889.02	169.43	41.48	-85.08	-3,967.85	-3,521.97	4,779.63	4,602.26	177.37	26.947		
13,000.00	7,229.20	7,010.76	6,889.02	172.23	41.48	-85.08	-3,967.85	-3,521.97	4,833.11	4,654.79	178.32	27.103		
13,100.00	7,228.88	7,010.76	6,889.02	175.04	41.48	-85.08	-3,967.85	-3,521.97	4,888.06	4,708.84	179.22	27.274		
13,200.00	7,228.57	7,000.00	6,879.45	177.85	41.44	-84.95	-3,970.09	-3,526.35	4,944.38	4,764.34	180.05	27.462		
13,300.00	7,228.26	7,000.00	6,879.45	180.66	41.44	-84.95	-3,970.09	-3,526.35	5,002.02	4,821.18	180.84	27.661		
13,400.00	7,227.95	7,000.00	6,879.45	183.48	41.44	-84.95	-3,970.09	-3,526.35	5,060.97	4,879.40	181.57	27.873		
13,500.00	7,227.64	7,000.00	6,879.45	186.29	41.44	-84.95	-3,970.09	-3,526.35	5,121.20	4,938.94	182.26	28.098		
13,600.00	7,227.33	6,976.99	6,858.75	189.11	41.34	-84.66	-3,974.91	-3,535.15	5,182.33	4,999.44	182.89	28.335		
13,700.00	7,227.01	6,952.01	6,835.94	191.92	41.23	-84.35	-3,980.23	-3,543.83	5,245.03	5,061.56	183.47	28.588		
13,800.00	7,226.70	6,952.01	6,835.94	194.74	41.23	-84.35	-3,980.23	-3,543.83	5,308.49	5,124.46	184.03	28.845		
13,900.00	7,226.39	6,952.01	6,835.94	197.56	41.23	-84.35	-3,980.23	-3,543.83	5,373.06	5,188.51	184.56	29.113		
14,000.00	7,226.08	6,952.01	6,835.94	200.38	41.23	-84.35	-3,980.23	-3,543.83	5,438.71	5,253.66	185.05	29.391		
14,100.00	7,225.77	6,952.01	6,835.94	203.21	41.23	-84.35	-3,980.23	-3,543.83	5,505.39	5,319.89	185.50	29.679		
14,200.00	7,225.45	6,952.01	6,835.94	206.03	41.23	-84.35	-3,980.23	-3,543.83	5,573.06	5,387.15	185.91	29.977		
14,300.00	7,225.14	6,952.01	6,835.94	208.85	41.23	-84.35	-3,980.23	-3,543.83	5,641.70	5,455.40	186.30	30.283		
14,400.00	7,224.83	6,952.01	6,835.94	211.68	41.23	-84.35	-3,980.23	-3,543.83	5,711.26	5,524.61	186.65	30.599		
14,500.00	7,224.52	6,952.01	6,835.94	214.50	41.23	-84.35	-3,980.23	-3,543.83	5,781.71	5,594.74	186.97	30.923		
14,600.00	7,224.21	6,952.01	6,835.94	217.33	41.23	-84.35	-3,980.23	-3,543.83	5,853.03	5,665.76	187.27	31.255		
14,700.00	7,223.89	6,926.52	6,812.33	220.16	41.11	-84.03	-3,985.73	-3,551.73	5,924.73	5,737.19	187.54	31.592		
14,800.00	7,223.58	6,922.93	6,808.98	222.98	41.09	-83.98	-3,986.51	-3,552.77	5,997.54	5,809.75	187.78	31.938		
14,900.00	7,223.27	6,900.00	6,787.47	225.81	40.98	-83.69	-3,991.51	-3,558.92	6,071.36	5,883.37	188.00	32.295		
14,987.41	7,223.00	6,900.00	6,787.47	228.28	40.98	-83.69	-3,991.51	-3,558.92	6,136.19	5,948.01	188.18	32.608		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	25.00	73.00	3.28	3.28	-148.30	-5,333.15	-3,293.86	6,268.76					
100.00	100.00	1,250.55	1,280.63	3.28	7.04	-147.20	-5,164.22	-3,327.60	6,255.88	6,245.68	10.20	613.390		
200.00	200.00	1,388.30	1,413.39	3.34	7.86	-146.96	-5,128.32	-3,335.37	6,236.72	6,225.77	10.95	569.464		
300.00	300.00	1,462.00	1,484.54	3.44	8.31	-146.84	-5,109.39	-3,338.86	6,217.47	6,206.05	11.42	544.620		
400.00	400.00	1,573.83	1,592.60	3.60	8.99	-146.65	-5,080.99	-3,343.43	6,198.17	6,186.03	12.14	510.565		
500.00	500.00	1,630.60	1,647.55	3.81	9.34	-146.56	-5,066.91	-3,345.56	6,179.26	6,166.65	12.61	490.023		
600.00	600.00	600.00	1,776.34	4.05	3.97	-146.35	-5,034.12	-3,350.76	6,160.66	6,152.48	8.17	753.772		
700.00	699.98	1,888.28	1,896.58	4.32	10.97	-88.49	-5,001.64	-3,356.47	6,141.13	6,126.65	14.48	424.193		
800.00	799.94	1,985.16	1,989.98	4.61	11.60	-88.35	-4,976.28	-3,360.97	6,121.58	6,106.29	15.29	400.355		
900.00	899.89	2,082.05	2,083.38	4.92	12.24	-88.20	-4,950.92	-3,365.47	6,102.06	6,085.93	16.13	378.266		
1,000.00	999.85	2,178.94	2,176.78	5.25	12.88	-88.06	-4,925.56	-3,369.97	6,082.59	6,065.59	17.00	357.868		
1,100.00	1,099.80	2,275.83	2,270.18	5.60	13.52	-87.91	-4,900.20	-3,374.47	6,063.15	6,045.27	17.88	339.067		
1,200.00	1,199.76	2,372.72	2,363.59	5.96	14.17	-87.77	-4,874.84	-3,378.97	6,043.75	6,024.97	18.78	321.749		
1,300.00	1,299.72	2,469.60	2,456.99	6.33	14.81	-87.62	-4,849.48	-3,383.47	6,024.39	6,004.69	19.70	305.794		
1,400.00	1,399.67	2,566.49	2,550.39	6.71	15.46	-87.47	-4,824.12	-3,387.97	6,005.07	5,984.44	20.63	291.083		
1,500.00	1,499.63	2,663.38	2,643.79	7.10	16.12	-87.32	-4,798.76	-3,392.47	5,985.79	5,964.22	21.57	277.503		
1,600.00	1,599.58	2,760.27	2,737.19	7.49	16.77	-87.17	-4,773.40	-3,396.97	5,966.56	5,944.04	22.52	264.947		
1,700.00	1,699.54	2,857.16	2,830.60	7.88	17.43	-87.02	-4,748.04	-3,401.47	5,947.36	5,923.88	23.48	253.319		
1,800.00	1,799.50	2,954.04	2,924.00	8.28	18.08	-86.87	-4,722.68	-3,405.97	5,928.20	5,903.76	24.44	242.531		
1,900.00	1,899.45	3,050.93	3,017.40	8.69	18.74	-86.71	-4,697.33	-3,410.47	5,909.09	5,883.67	25.41	232.504		
2,000.00	1,999.41	3,147.82	3,110.80	9.10	19.40	-86.56	-4,671.97	-3,414.97	5,890.01	5,863.62	26.39	223.168		
2,100.00	2,099.36	3,244.71	3,204.21	9.51	20.06	-86.41	-4,646.61	-3,419.47	5,870.98	5,843.61	27.38	214.458		
2,200.00	2,199.32	3,341.60	3,297.61	9.92	20.72	-86.25	-4,621.25	-3,423.97	5,851.99	5,823.63	28.36	206.318		
2,300.00	2,299.28	3,438.48	3,391.01	10.34	21.38	-86.09	-4,595.89	-3,428.47	5,833.05	5,803.69	29.36	198.697		
2,400.00	2,399.23	3,535.37	3,484.41	10.75	22.04	-85.93	-4,570.53	-3,432.97	5,814.15	5,783.79	30.35	191.551		
2,500.00	2,499.19	3,632.25	3,577.81	11.17	22.74	-85.78	-4,545.17	-3,437.47	5,795.29	5,763.90	31.39	184.644		
2,600.00	2,599.14	10,485.55	7,077.96	11.60	117.91	-123.52	-3,609.08	-62.71	5,771.35	5,679.19	92.16	62.626		
2,700.00	2,699.10	10,483.13	7,077.95	12.02	117.83	-123.48	-3,609.07	-65.13	5,695.13	5,601.90	93.23	61.089		
2,800.00	2,799.06	10,480.71	7,077.95	12.44	117.76	-123.45	-3,609.07	-67.55	5,619.65	5,525.32	94.33	59.576		
2,900.00	2,899.01	10,478.29	7,077.95	12.87	117.68	-123.41	-3,609.06	-69.97	5,544.95	5,449.49	95.46	58.088		
3,000.00	2,998.97	10,475.87	7,077.95	13.29	117.60	-123.37	-3,609.05	-72.39	5,471.05	5,374.44	96.62	56.626		
3,100.00	3,098.92	10,473.45	7,077.95	13.72	117.53	-123.33	-3,609.05	-74.81	5,398.00	5,300.19	97.81	55.191		
3,200.00	3,198.88	10,471.03	7,077.94	14.14	117.45	-123.30	-3,609.04	-77.23	5,325.82	5,226.79	99.02	53.784		
3,300.00	3,298.84	10,468.61	7,077.94	14.57	117.37	-123.26	-3,609.04	-79.65	5,254.55	5,154.28	100.27	52.407		
3,400.00	3,398.79	10,466.18	7,077.94	15.00	117.30	-123.22	-3,609.03	-82.07	5,184.22	5,082.69	101.53	51.059		
3,500.00	3,498.75	10,463.76	7,077.94	15.43	117.22	-123.19	-3,609.02	-84.49	5,114.89	5,012.06	102.83	49.742		
3,600.00	3,598.70	10,461.34	7,077.93	15.86	117.15	-123.15	-3,609.02	-86.91	5,046.58	4,942.44	104.15	48.457		
3,700.00	3,698.66	10,458.92	7,077.93	16.29	117.07	-123.11	-3,609.01	-89.33	4,979.35	4,873.86	105.49	47.203		
3,800.00	3,798.62	10,456.50	7,077.93	16.72	116.99	-123.07	-3,609.01	-91.75	4,913.22	4,806.37	106.85	45.983		
3,900.00	3,898.57	10,454.08	7,077.93	17.15	116.92	-123.04	-3,609.00	-94.18	4,848.26	4,740.03	108.23	44.795		
4,000.00	3,998.53	10,451.66	7,077.92	17.59	116.84	-123.00	-3,608.99	-96.60	4,784.50	4,674.87	109.63	43.641		
4,100.00	4,098.48	10,449.24	7,077.92	18.02	116.76	-122.96	-3,608.99	-99.02	4,722.00	4,610.95	111.05	42.521		
4,200.00	4,198.44	10,446.82	7,077.92	18.45	116.69	-122.92	-3,608.98	-101.44	4,660.81	4,548.32	112.48	41.435		
4,300.00	4,298.40	10,444.40	7,077.92	18.88	116.61	-122.89	-3,608.98	-103.86	4,600.97	4,487.04	113.93	40.384		
4,400.00	4,398.35	10,441.98	7,077.91	19.32	116.54	-122.85	-3,608.97	-106.28	4,542.55	4,427.16	115.38	39.369		
4,500.00	4,498.31	10,439.56	7,077.91	19.75	116.46	-122.81	-3,608.96	-108.70	4,485.59	4,368.75	116.85	38.388		
4,600.00	4,598.26	10,437.14	7,077.91	20.19	116.38	-122.77	-3,608.96	-111.12	4,430.16	4,311.85	118.32	37.444		
4,700.00	4,698.22	10,434.72	7,077.91	20.62	116.31	-122.74	-3,608.95	-113.54	4,376.31	4,256.53	119.78	36.535		
4,800.00	4,798.18	10,432.35	7,077.90	21.05	116.40	-122.70	-3,608.95	-115.96	4,324.10	4,202.70	121.40	35.618		
4,900.00	4,898.13	10,440.17	7,077.90	21.49	116.48	-122.66	-3,608.94	-118.38	4,273.59	4,150.60	123.00	34.745		
5,000.00	4,998.09	10,427.46	7,077.90	21.92	116.08	-122.62	-3,608.93	-120.80	4,224.85	4,100.68	124.17	34.025		
5,100.00	5,098.04	10,425.03	7,077.90	22.36	116.00	-122.59	-3,608.93	-123.22	4,177.93	4,052.32	125.61	33.262		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	10,422.61	7,077.89	22.79	115.93	-122.55	-3,608.92	-125.64	4,132.89	4,005.86	127.03	32.535		
5,300.00	5,297.96	10,420.19	7,077.89	23.23	115.85	-122.51	-3,608.92	-128.06	4,089.80	3,961.37	128.43	31.845		
5,400.00	5,397.91	10,417.77	7,077.89	23.67	115.77	-122.48	-3,608.91	-130.48	4,048.72	3,918.92	129.80	31.192		
5,500.00	5,497.87	10,415.35	7,077.89	24.10	115.70	-122.44	-3,608.90	-132.90	4,009.72	3,878.58	131.14	30.575		
5,600.00	5,597.82	10,412.93	7,077.88	24.54	115.62	-122.40	-3,608.90	-135.32	3,972.85	3,840.40	132.45	29.996		
5,700.00	5,697.78	10,410.51	7,077.88	24.97	115.55	-122.36	-3,608.89	-137.75	3,938.17	3,804.46	133.71	29.454		
5,800.00	5,797.74	10,408.09	7,077.88	25.41	115.47	-122.33	-3,608.89	-140.17	3,905.74	3,770.82	134.92	28.949		
5,900.00	5,897.69	10,405.67	7,077.88	25.85	115.39	-122.29	-3,608.88	-142.59	3,875.62	3,739.54	136.08	28.480		
6,000.00	5,997.65	10,403.25	7,077.88	26.28	115.32	-122.25	-3,608.87	-145.01	3,847.86	3,710.68	137.18	28.049		
6,100.00	6,097.60	10,400.83	7,077.87	26.72	115.24	-122.21	-3,608.87	-147.43	3,822.52	3,684.30	138.22	27.655		
6,200.00	6,197.56	10,401.59	7,077.87	27.16	115.27	-122.18	-3,608.86	-149.85	3,799.64	3,660.35	139.29	27.279		
6,300.00	6,297.52	10,395.99	7,077.87	27.59	115.09	-122.14	-3,608.86	-152.27	3,779.26	3,639.17	140.09	26.978		
6,400.00	6,397.47	10,393.57	7,077.87	28.03	115.01	-122.10	-3,608.85	-154.69	3,761.43	3,620.53	140.91	26.694		
6,500.00	6,497.43	10,391.15	7,077.86	28.47	114.94	-122.06	-3,608.84	-157.11	3,746.19	3,604.54	141.65	26.447		
6,600.00	6,597.38	10,388.73	7,077.86	28.90	114.86	-122.03	-3,608.84	-159.53	3,733.56	3,591.26	142.30	26.237		
6,700.00	6,697.08	10,382.25	7,077.85	29.34	114.66	-96.70	-3,608.82	-166.01	3,723.56	3,580.82	142.74	26.087		
6,800.00	6,794.63	10,360.86	7,077.83	29.79	113.99	-93.58	-3,608.77	-187.40	3,716.18	3,573.57	142.62	26.057		
6,900.00	6,887.62	10,324.47	7,077.80	30.24	112.85	-92.45	-3,608.68	-223.79	3,711.36	3,569.43	141.93	26.148		
7,000.00	6,973.77	10,273.97	7,077.75	30.70	111.27	-91.52	-3,608.55	-274.29	3,708.81	3,568.06	140.75	26.351		
7,100.00	7,050.94	10,210.61	7,077.68	31.20	109.29	-90.55	-3,608.40	-337.64	3,708.03	3,568.90	139.13	26.651		
7,106.29	7,055.44	10,206.24	7,077.68	31.24	109.15	-90.49	-3,608.39	-342.02	3,708.03	3,569.01	139.02	26.673		
7,200.00	7,117.24	10,135.96	7,077.61	31.77	106.96	-89.58	-3,608.21	-412.30	3,708.45	3,571.24	137.20	27.029		
7,300.00	7,171.03	10,051.84	7,077.53	32.46	104.35	-88.68	-3,608.00	-496.42	3,709.42	3,574.32	135.10	27.457		
7,400.00	7,211.00	9,960.32	7,077.43	33.29	101.52	-87.97	-3,607.78	-587.93	3,710.36	3,577.42	132.94	27.911		
7,500.00	7,236.16	9,863.67	7,077.34	34.29	98.55	-87.51	-3,607.54	-684.58	3,710.78	3,579.95	130.83	28.364		
7,600.00	7,245.89	9,764.26	7,077.24	35.43	95.51	-87.38	-3,607.29	-783.99	3,710.36	3,581.52	128.84	28.797		
7,700.00	7,245.73	9,664.27	7,077.14	36.72	92.47	-87.40	-3,607.05	-883.99	3,709.35	3,582.31	127.04	29.199		
7,800.00	7,245.42	9,564.27	7,077.04	38.18	89.46	-87.40	-3,606.80	-983.98	3,708.33	3,582.91	125.42	29.567		
7,900.00	7,245.10	9,464.28	7,076.94	39.80	86.47	-87.40	-3,606.55	-1,083.97	3,707.30	3,583.33	123.97	29.904		
8,000.00	7,244.79	9,364.28	7,076.84	41.54	83.51	-87.40	-3,606.31	-1,183.97	3,706.28	3,583.60	122.68	30.210		
8,100.00	7,244.48	9,264.29	7,076.74	43.41	80.57	-87.41	-3,606.06	-1,283.96	3,705.25	3,583.72	121.54	30.487		
8,200.00	7,244.17	9,165.52	7,076.62	45.38	77.71	-87.40	-3,605.81	-1,382.73	3,704.25	3,583.69	120.56	30.726		
8,300.00	7,243.86	9,065.52	7,075.43	47.44	74.85	-87.39	-3,605.57	-1,482.72	3,703.26	3,583.61	119.66	30.949		
8,400.00	7,243.55	8,965.53	7,074.60	49.58	72.04	-87.39	-3,605.32	-1,582.71	3,702.27	3,583.40	118.87	31.146		
8,500.00	7,243.23	8,865.54	7,073.78	51.78	69.28	-87.38	-3,605.07	-1,682.70	3,701.28	3,583.10	118.19	31.318		
8,600.00	7,242.92	8,765.54	7,072.95	54.05	66.57	-87.37	-3,604.82	-1,782.69	3,700.29	3,582.68	117.61	31.463		
8,700.00	7,242.61	8,665.55	7,072.12	56.37	63.94	-87.36	-3,604.58	-1,882.68	3,699.30	3,582.17	117.13	31.582		
8,800.00	7,242.30	8,565.55	7,071.30	58.74	61.40	-87.35	-3,604.33	-1,982.67	3,698.31	3,581.55	116.77	31.673		
8,900.00	7,241.99	8,465.56	7,070.47	61.16	58.96	-87.34	-3,604.08	-2,082.66	3,697.32	3,580.82	116.50	31.736		
9,000.00	7,241.67	8,365.57	7,069.64	63.61	56.65	-87.33	-3,603.84	-2,182.65	3,696.33	3,579.98	116.35	31.768		
9,100.00	7,241.36	8,265.57	7,068.81	66.09	54.49	-87.33	-3,603.59	-2,282.64	3,695.34	3,579.02	116.32	31.768		
9,200.00	7,241.05	8,165.58	7,067.99	68.60	52.54	-87.32	-3,603.34	-2,382.63	3,694.35	3,577.93	116.42	31.733		
9,300.00	7,240.74	8,065.59	7,067.16	71.13	50.83	-87.31	-3,603.09	-2,482.62	3,693.36	3,576.70	116.66	31.659		
9,400.00	7,240.43	7,965.59	7,066.33	73.70	49.42	-87.30	-3,602.85	-2,582.61	3,692.37	3,575.31	117.06	31.542		
9,500.00	7,240.11	7,865.60	7,065.51	76.28	48.33	-87.29	-3,602.60	-2,682.60	3,691.38	3,573.75	117.64	31.380		
9,600.00	7,239.80	7,765.61	7,064.68	78.88	47.55	-87.28	-3,602.35	-2,782.59	3,690.39	3,571.98	118.41	31.166		
9,700.00	7,239.49	7,665.61	7,063.85	81.50	47.02	-87.27	-3,602.11	-2,882.58	3,689.40	3,570.00	119.41	30.898		
9,800.00	7,239.18	7,600.00	7,063.29	84.13	46.79	-87.27	-3,601.95	-2,948.19	3,688.58	3,567.45	121.13	30.451		
9,817.47	7,239.12	7,584.62	7,062.86	84.59	46.74	-87.26	-3,601.99	-2,963.56	3,688.52	3,567.13	121.39	30.386 CC		
9,900.00	7,238.87	7,550.00	7,060.60	86.78	46.64	-87.23	-3,602.44	-2,998.10	3,689.13	3,565.98	123.15	29.957 ES		
10,000.00	7,238.55	7,519.54	7,057.11	89.44	46.56	-87.18	-3,603.25	-3,028.35	3,691.43	3,565.98	125.45	29.426		
10,100.00	7,238.24	7,484.57	7,051.38	92.11	46.48	-87.09	-3,604.64	-3,062.81	3,695.50	3,567.83	127.67	28.946		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,200.00	7,237.93	7,450.00	7,043.94	94.80	46.40	-86.98	-3,606.50	-3,096.52	3,701.35	3,571.47	129.89	28.497		
10,300.00	7,237.62	7,416.98	7,035.19	97.49	46.33	-86.84	-3,608.72	-3,128.27	3,709.01	3,576.89	132.11	28.075		
10,400.00	7,237.31	7,384.68	7,025.11	100.19	46.26	-86.69	-3,611.31	-3,158.85	3,718.49	3,584.17	134.33	27.683		
10,500.00	7,236.99	7,350.00	7,012.63	102.90	46.19	-86.50	-3,614.54	-3,191.04	3,729.84	3,593.35	136.49	27.327		
10,600.00	7,236.68	7,323.59	7,002.01	105.62	46.13	-86.34	-3,617.31	-3,215.06	3,743.06	3,604.38	138.69	26.989		
10,700.00	7,236.37	7,300.00	6,991.71	108.35	46.08	-86.19	-3,620.01	-3,236.11	3,758.21	3,617.30	140.91	26.672		
10,800.00	7,236.06	7,267.60	6,976.36	111.08	46.01	-85.96	-3,624.04	-3,264.35	3,775.27	3,632.25	143.02	26.397		
10,900.00	7,235.75	7,241.58	6,963.04	113.82	45.95	-85.76	-3,627.55	-3,286.43	3,794.30	3,649.21	145.09	26.151		
11,000.00	7,235.44	7,221.20	6,952.01	116.56	45.91	-85.59	-3,630.46	-3,303.31	3,815.30	3,668.13	147.18	25.924		
11,100.00	7,235.12	7,193.41	6,936.14	119.31	45.84	-85.35	-3,634.66	-3,325.73	3,838.27	3,689.11	149.16	25.733		
11,200.00	7,234.81	7,171.21	6,922.79	122.07	45.78	-85.15	-3,638.20	-3,343.11	3,863.22	3,712.10	151.12	25.564		
11,300.00	7,234.50	7,150.00	6,909.49	124.83	45.72	-84.96	-3,641.73	-3,359.25	3,890.15	3,737.13	153.02	25.422		
11,400.00	7,234.19	7,130.35	6,896.72	127.59	45.67	-84.77	-3,645.12	-3,373.80	3,919.06	3,764.19	154.87	25.305		
11,500.00	7,233.88	7,111.57	6,884.12	130.36	45.61	-84.58	-3,648.48	-3,387.31	3,949.93	3,793.27	156.66	25.213		
11,600.00	7,233.56	7,100.00	6,876.16	133.13	45.57	-84.46	-3,650.60	-3,395.44	3,982.76	3,824.35	158.41	25.142		
11,700.00	7,233.25	7,077.04	6,859.97	135.91	45.50	-84.22	-3,654.92	-3,411.12	4,017.48	3,857.43	160.05	25.101		
11,800.00	7,232.94	7,050.00	6,840.20	138.68	45.42	-83.93	-3,660.20	-3,428.80	4,054.19	3,892.59	161.59	25.089		
11,900.00	7,232.63	7,050.00	6,840.20	141.47	45.42	-83.93	-3,660.20	-3,428.80	4,092.64	3,929.45	163.19	25.080 SF		
12,000.00	7,232.32	7,035.01	6,828.94	144.25	45.36	-83.77	-3,663.21	-3,438.22	4,132.97	3,968.33	164.65	25.102		
12,100.00	7,232.00	7,018.57	6,816.35	147.04	45.30	-83.58	-3,666.58	-3,448.24	4,175.11	4,009.08	166.03	25.146		
12,200.00	7,231.69	7,000.00	6,801.83	149.83	45.24	-83.37	-3,670.46	-3,459.14	4,219.04	4,051.70	167.34	25.213		
12,300.00	7,231.38	7,000.00	6,801.83	152.62	45.24	-83.37	-3,670.46	-3,459.14	4,264.67	4,096.03	168.64	25.288		
12,400.00	7,231.07	7,000.00	6,801.83	155.42	45.24	-83.37	-3,670.46	-3,459.14	4,312.14	4,142.26	169.88	25.384		
12,500.00	7,230.76	6,971.51	6,778.97	158.22	45.13	-83.04	-3,676.59	-3,475.01	4,360.91	4,189.94	170.96	25.508		
12,600.00	7,230.44	6,950.00	6,761.27	161.01	45.05	-82.78	-3,681.34	-3,486.27	4,411.52	4,239.52	172.00	25.648		
12,700.00	7,230.13	6,950.00	6,761.27	163.82	45.05	-82.78	-3,681.34	-3,486.27	4,463.54	4,290.50	173.04	25.794		
12,800.00	7,229.82	6,942.08	6,754.67	166.62	45.01	-82.69	-3,683.11	-3,490.26	4,517.13	4,343.13	174.00	25.960		
12,900.00	7,229.51	6,935.01	6,748.73	169.43	44.98	-82.60	-3,684.70	-3,493.76	4,572.19	4,397.29	174.90	26.141		
13,000.00	7,229.20	6,935.01	6,748.73	172.23	44.98	-82.60	-3,684.70	-3,493.76	4,628.72	4,452.96	175.76	26.335		
13,100.00	7,228.88	6,916.69	6,733.17	175.04	44.90	-82.38	-3,688.88	-3,502.49	4,686.49	4,509.96	176.53	26.548		
13,200.00	7,228.57	6,900.00	6,718.80	177.85	44.83	-82.17	-3,692.75	-3,510.03	4,745.71	4,568.46	177.25	26.774		
13,300.00	7,228.26	6,900.00	6,718.80	180.66	44.83	-82.17	-3,692.75	-3,510.03	4,806.10	4,628.14	177.96	27.007		
13,400.00	7,227.95	6,900.00	6,718.80	183.48	44.83	-82.17	-3,692.75	-3,510.03	4,867.80	4,689.19	178.61	27.254		
13,500.00	7,227.64	6,900.00	6,718.80	186.29	44.83	-82.17	-3,692.75	-3,510.03	4,930.75	4,751.54	179.22	27.513		
13,600.00	7,227.33	6,900.00	6,718.80	189.11	44.83	-82.17	-3,692.75	-3,510.03	4,994.92	4,815.14	179.78	27.784		
13,700.00	7,227.01	6,875.30	6,697.18	191.92	44.72	-81.86	-3,698.56	-3,520.47	5,059.83	4,879.56	180.27	28.068		
13,800.00	7,226.70	6,850.00	6,674.66	194.74	44.60	-81.54	-3,704.63	-3,530.26	5,126.31	4,945.59	180.72	28.366		
13,900.00	7,226.39	6,850.00	6,674.66	197.56	44.60	-81.54	-3,704.63	-3,530.26	5,193.44	5,012.27	181.17	28.666		
14,000.00	7,226.08	6,850.00	6,674.66	200.38	44.60	-81.54	-3,704.63	-3,530.26	5,261.61	5,080.03	181.58	28.977		
14,100.00	7,225.77	6,850.00	6,674.66	203.21	44.60	-81.54	-3,704.63	-3,530.26	5,330.79	5,148.83	181.96	29.297		
14,200.00	7,225.45	6,850.00	6,674.66	206.03	44.60	-81.54	-3,704.63	-3,530.26	5,400.94	5,218.63	182.30	29.626		
14,300.00	7,225.14	6,843.19	6,668.53	208.85	44.57	-81.45	-3,706.27	-3,532.73	5,471.98	5,289.36	182.61	29.965		
14,400.00	7,224.83	6,835.01	6,661.14	211.68	44.53	-81.35	-3,708.27	-3,535.62	5,543.89	5,361.00	182.89	30.312		
14,500.00	7,224.52	6,835.01	6,661.14	214.50	44.53	-81.35	-3,708.27	-3,535.62	5,616.62	5,433.46	183.15	30.666		
14,600.00	7,224.21	6,835.01	6,661.14	217.33	44.53	-81.35	-3,708.27	-3,535.62	5,690.17	5,506.79	183.39	31.028		
14,700.00	7,223.89	6,835.01	6,661.14	220.16	44.53	-81.35	-3,708.27	-3,535.62	5,764.53	5,580.93	183.60	31.398		
14,800.00	7,223.58	6,835.01	6,661.14	222.98	44.53	-81.35	-3,708.27	-3,535.62	5,839.65	5,655.86	183.78	31.775		
14,900.00	7,223.27	6,817.69	6,645.37	225.81	44.44	-81.12	-3,712.52	-3,541.40	5,915.28	5,731.33	183.95	32.157		
14,987.41	7,223.00	6,800.00	6,629.13	228.28	44.35	-80.89	-3,716.90	-3,546.84	5,982.23	5,798.15	184.08	32.499		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	66.00	3.28	3.28	-125.05	-4,450.62	-6,345.19	7,750.73				
100.00	100.00	34.00	100.00	3.28	3.33	-125.05	-4,450.62	-6,345.19	7,750.44	7,743.83	6.62	1,171.119	
200.00	200.00	134.00	200.00	3.34	4.40	-125.05	-4,450.62	-6,345.19	7,750.44	7,742.71	7.74	1,001.769	
300.00	300.00	234.00	300.00	3.44	7.21	-125.05	-4,450.62	-6,345.19	7,750.44	7,739.79	10.66	727.241	
400.00	400.00	334.00	400.00	3.60	10.44	-125.05	-4,450.62	-6,345.19	7,750.44	7,736.40	14.05	551.780	
500.00	500.00	434.00	500.00	3.81	13.80	-125.05	-4,450.62	-6,345.19	7,750.44	7,732.84	17.61	440.194	
600.00	600.00	534.00	600.00	4.05	17.21	-125.05	-4,450.62	-6,345.19	7,750.44	7,729.19	21.26	364.587	
700.00	699.98	633.98	699.98	4.32	20.65	-67.07	-4,450.62	-6,345.19	7,749.78	7,724.82	24.96	310.445	
800.00	799.94	733.94	799.94	4.61	24.10	-67.09	-4,450.62	-6,345.19	7,748.62	7,719.92	28.71	269.923	
900.00	899.89	833.89	899.89	4.92	27.56	-67.11	-4,450.62	-6,345.19	7,747.47	7,714.99	32.48	238.519	
1,000.00	999.85	933.85	999.85	5.25	31.03	-67.13	-4,450.62	-6,345.19	7,746.31	7,710.03	36.28	213.510	
1,100.00	1,099.80	1,033.80	1,099.80	5.60	34.50	-67.15	-4,450.62	-6,345.19	7,745.16	7,705.06	40.10	193.151	
1,200.00	1,199.76	1,133.76	1,199.76	5.96	37.98	-67.17	-4,450.62	-6,345.19	7,744.01	7,700.08	43.93	176.269	
1,300.00	1,299.72	1,233.72	1,299.72	6.33	41.45	-67.19	-4,450.62	-6,345.19	7,742.86	7,695.08	47.78	162.055	
1,400.00	1,399.67	1,333.67	1,399.67	6.71	44.93	-67.21	-4,450.62	-6,345.19	7,741.71	7,690.07	51.64	149.929	
1,500.00	1,499.63	1,433.63	1,499.63	7.10	48.41	-67.23	-4,450.62	-6,345.19	7,740.56	7,685.06	55.50	139.467	
1,600.00	1,599.58	1,533.58	1,599.58	7.49	51.90	-67.25	-4,450.62	-6,345.19	7,739.41	7,680.04	59.37	130.352	
1,700.00	1,699.54	1,633.54	1,699.54	7.88	55.38	-67.27	-4,450.62	-6,345.19	7,738.26	7,675.01	63.25	122.341	
1,800.00	1,799.50	1,733.50	1,799.50	8.28	58.86	-67.29	-4,450.62	-6,345.19	7,737.12	7,669.98	67.14	115.247	
1,900.00	1,899.45	1,833.45	1,899.45	8.69	62.35	-67.31	-4,450.62	-6,345.19	7,735.97	7,664.95	71.02	108.922	
2,000.00	1,999.41	1,933.41	1,999.41	9.10	65.83	-67.33	-4,450.62	-6,345.19	7,734.83	7,659.91	74.92	103.248	
2,100.00	2,099.36	2,033.36	2,099.36	9.51	69.32	-67.35	-4,450.62	-6,345.19	7,733.68	7,654.87	78.81	98.131	
2,200.00	2,199.32	2,133.32	2,199.32	9.92	72.80	-67.37	-4,450.62	-6,345.19	7,732.54	7,649.83	82.71	93.492	
2,300.00	2,299.28	2,233.28	2,299.28	10.34	76.29	-67.39	-4,450.62	-6,345.19	7,731.40	7,644.79	86.61	89.268	
2,400.00	2,399.23	2,333.23	2,399.23	10.75	79.78	-67.41	-4,450.62	-6,345.19	7,730.26	7,639.75	90.51	85.406	
2,500.00	2,499.19	2,433.19	2,499.19	11.17	83.26	-67.43	-4,450.62	-6,345.19	7,729.12	7,634.70	94.42	81.862	
2,600.00	2,599.14	2,533.14	2,599.14	11.60	86.75	-67.45	-4,450.62	-6,345.19	7,727.98	7,629.66	98.32	78.598	
2,700.00	2,699.10	2,633.10	2,699.10	12.02	90.24	-67.47	-4,450.62	-6,345.19	7,726.84	7,624.61	102.23	75.582	
2,800.00	2,799.06	2,733.06	2,799.06	12.44	93.72	-67.49	-4,450.62	-6,345.19	7,725.71	7,619.56	106.14	72.788	
2,900.00	2,899.01	2,833.01	2,899.01	12.87	97.21	-67.51	-4,450.62	-6,345.19	7,724.57	7,614.52	110.05	70.191	
3,000.00	2,998.97	2,932.97	2,998.97	13.29	100.70	-67.53	-4,450.62	-6,345.19	7,723.43	7,609.47	113.96	67.771	
3,100.00	3,098.92	3,032.92	3,098.92	13.72	104.19	-67.55	-4,450.62	-6,345.19	7,722.30	7,604.42	117.88	65.512	
3,200.00	3,198.88	3,132.88	3,198.88	14.14	107.67	-67.57	-4,450.62	-6,345.19	7,721.17	7,599.38	121.79	63.397	
3,300.00	3,298.84	3,232.84	3,298.84	14.57	111.16	-67.59	-4,450.62	-6,345.19	7,720.04	7,594.33	125.71	61.414	
3,400.00	3,398.79	3,332.79	3,398.79	15.00	114.65	-67.61	-4,450.62	-6,345.19	7,718.91	7,589.29	129.62	59.550	
3,500.00	3,498.75	3,432.75	3,498.75	15.43	118.14	-67.63	-4,450.62	-6,345.19	7,717.78	7,584.24	133.54	57.795	
3,600.00	3,598.70	3,532.70	3,598.70	15.86	121.63	-67.66	-4,450.62	-6,345.19	7,716.65	7,579.19	137.45	56.140	
3,700.00	3,698.66	3,632.66	3,698.66	16.29	125.11	-67.68	-4,450.62	-6,345.19	7,715.52	7,574.15	141.37	54.576	
3,800.00	3,798.62	3,732.62	3,798.62	16.72	128.60	-67.70	-4,450.62	-6,345.19	7,714.39	7,569.10	145.29	53.097	
3,900.00	3,898.57	3,832.57	3,898.57	17.15	132.09	-67.72	-4,450.62	-6,345.19	7,713.27	7,564.06	149.21	51.695	
4,000.00	3,998.53	3,932.53	3,998.53	17.59	135.58	-67.74	-4,450.62	-6,345.19	7,712.14	7,559.01	153.13	50.364	
4,100.00	4,098.48	4,032.48	4,098.48	18.02	139.07	-67.76	-4,450.62	-6,345.19	7,711.02	7,553.97	157.05	49.100	
4,200.00	4,198.44	4,132.44	4,198.44	18.45	142.56	-67.78	-4,450.62	-6,345.19	7,709.89	7,548.93	160.97	47.897	
4,300.00	4,298.40	4,232.40	4,298.40	18.88	146.04	-67.80	-4,450.62	-6,345.19	7,708.77	7,543.88	164.89	46.752	
4,400.00	4,398.35	4,332.35	4,398.35	19.32	149.53	-67.82	-4,450.62	-6,345.19	7,707.65	7,538.84	168.81	45.659	
4,500.00	4,498.31	4,432.31	4,498.31	19.75	153.02	-67.84	-4,450.62	-6,345.19	7,706.53	7,533.80	172.73	44.616	
4,600.00	4,598.26	4,532.26	4,598.26	20.19	156.51	-67.86	-4,450.62	-6,345.19	7,705.41	7,528.76	176.65	43.619	
4,700.00	4,698.22	4,632.22	4,698.22	20.62	160.00	-67.88	-4,450.62	-6,345.19	7,704.29	7,523.72	180.57	42.666	
4,800.00	4,798.18	4,732.18	4,798.18	21.05	163.49	-67.90	-4,450.62	-6,345.19	7,703.18	7,518.68	184.49	41.753	
4,900.00	4,898.13	4,832.13	4,898.13	21.49	166.98	-67.92	-4,450.62	-6,345.19	7,702.06	7,513.64	188.42	40.878	
5,000.00	4,998.09	4,932.09	4,998.09	21.92	170.47	-67.94	-4,450.62	-6,345.19	7,700.95	7,508.61	192.34	40.038	
5,100.00	5,098.04	5,032.04	5,098.04	22.36	173.95	-67.96	-4,450.62	-6,345.19	7,699.83	7,503.57	196.26	39.232	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,132.00	5,198.00	22.79	177.44	-67.98	-4,450.62	-6,345.19	7,698.72	7,498.53	200.19	38.458		
5,300.00	5,297.96	5,231.96	5,297.96	23.23	180.93	-68.00	-4,450.62	-6,345.19	7,697.61	7,493.50	204.11	37.713		
5,400.00	5,397.91	5,331.91	5,397.91	23.67	184.42	-68.02	-4,450.62	-6,345.19	7,696.49	7,488.46	208.03	36.997		
5,500.00	5,497.87	5,431.87	5,497.87	24.10	187.91	-68.04	-4,450.62	-6,345.19	7,695.38	7,483.43	211.96	36.307		
5,600.00	5,597.82	5,531.82	5,597.82	24.54	191.40	-68.06	-4,450.62	-6,345.19	7,694.27	7,478.40	215.88	35.642		
5,700.00	5,697.78	5,631.78	5,697.78	24.97	194.89	-68.08	-4,450.62	-6,345.19	7,693.17	7,473.36	219.80	35.000		
5,800.00	5,797.74	5,731.74	5,797.74	25.41	198.38	-68.10	-4,450.62	-6,345.19	7,692.06	7,468.33	223.73	34.381		
5,900.00	5,897.69	5,831.69	5,897.69	25.85	201.87	-68.13	-4,450.62	-6,345.19	7,690.95	7,463.30	227.65	33.784		
6,000.00	5,997.65	5,931.65	5,997.65	26.28	205.35	-68.15	-4,450.62	-6,345.19	7,689.85	7,458.27	231.58	33.207		
6,100.00	6,097.60	6,031.60	6,097.60	26.72	208.84	-68.17	-4,450.62	-6,345.19	7,688.74	7,453.24	235.50	32.649		
6,200.00	6,197.56	6,131.56	6,197.56	27.16	212.33	-68.19	-4,450.62	-6,345.19	7,687.64	7,448.21	239.42	32.109		
6,300.00	6,297.52	6,231.52	6,297.52	27.59	215.82	-68.21	-4,450.62	-6,345.19	7,686.54	7,443.19	243.35	31.586		
6,400.00	6,397.47	6,331.47	6,397.47	28.03	219.31	-68.23	-4,450.62	-6,345.19	7,685.44	7,438.16	247.27	31.081		
6,500.00	6,497.43	6,431.43	6,497.43	28.47	222.80	-68.25	-4,450.62	-6,345.19	7,684.34	7,433.14	251.20	30.591		
6,600.00	6,597.38	6,531.38	6,597.38	28.90	226.29	-68.27	-4,450.62	-6,345.19	7,683.24	7,428.11	255.12	30.116		
6,700.00	6,697.08	6,631.08	6,697.08	29.34	229.77	-42.67	-4,450.62	-6,345.19	7,678.85	7,419.80	259.04	29.643		
6,800.00	6,794.63	6,728.63	6,794.63	29.79	233.17	-40.21	-4,450.62	-6,345.19	7,662.37	7,399.49	262.88	29.148		
6,900.00	6,887.62	6,821.62	6,887.62	30.24	236.42	-40.99	-4,450.62	-6,345.19	7,633.75	7,367.20	266.55	28.639		
7,000.00	6,973.77	6,907.77	6,973.77	30.70	239.43	-43.28	-4,450.62	-6,345.19	7,593.78	7,323.82	269.96	28.130		
7,100.00	7,050.94	6,984.94	7,050.94	31.20	242.12	-46.92	-4,450.62	-6,345.19	7,543.54	7,270.50	273.04	27.628		
7,200.00	7,117.24	7,051.24	7,117.24	31.77	244.44	-52.04	-4,450.62	-6,345.19	7,484.37	7,208.64	275.73	27.144		
7,300.00	7,171.03	7,105.03	7,171.03	32.46	246.31	-58.83	-4,450.62	-6,345.19	7,417.85	7,139.85	278.00	26.683		
7,400.00	7,211.00	7,145.00	7,211.00	33.29	247.71	-67.41	-4,450.62	-6,345.19	7,345.73	7,065.90	279.82	26.251		
7,500.00	7,236.16	7,170.16	7,236.16	34.29	248.59	-77.57	-4,450.62	-6,345.19	7,269.87	6,988.69	281.18	25.855		
7,600.00	7,245.89	7,179.89	7,245.89	35.43	248.93	-88.65	-4,450.62	-6,345.19	7,192.22	6,910.17	282.05	25.499		
7,700.00	7,245.73	7,179.73	7,245.73	36.72	248.92	-90.22	-4,450.62	-6,345.19	7,114.57	6,831.91	282.66	25.170		
7,800.00	7,245.42	7,179.42	7,245.42	38.18	248.91	-90.21	-4,450.62	-6,345.19	7,037.48	6,754.10	283.38	24.834		
7,900.00	7,245.10	7,179.10	7,245.10	39.80	248.90	-90.21	-4,450.62	-6,345.19	6,960.97	6,676.76	284.21	24.492		
8,000.00	7,244.79	7,178.79	7,244.79	41.54	248.89	-90.21	-4,450.62	-6,345.19	6,885.07	6,599.92	285.15	24.145		
8,100.00	7,244.48	7,178.48	7,244.48	43.41	248.88	-90.20	-4,450.62	-6,345.19	6,809.79	6,523.58	286.20	23.794		
8,200.00	7,244.17	7,178.17	7,244.17	45.38	248.87	-90.20	-4,450.62	-6,345.19	6,735.15	6,447.79	287.36	23.438		
8,300.00	7,243.86	7,177.86	7,243.86	47.44	248.86	-90.19	-4,450.62	-6,345.19	6,661.17	6,372.55	288.63	23.079		
8,400.00	7,243.55	7,177.55	7,243.55	49.58	248.84	-90.19	-4,450.62	-6,345.19	6,587.88	6,297.89	290.00	22.717		
8,500.00	7,243.23	7,177.23	7,243.23	51.78	248.83	-90.19	-4,450.62	-6,345.19	6,515.31	6,223.84	291.47	22.353		
8,600.00	7,242.92	7,176.92	7,242.92	54.05	248.82	-90.18	-4,450.62	-6,345.19	6,443.47	6,150.43	293.04	21.988		
8,700.00	7,242.61	7,176.61	7,242.61	56.37	248.81	-90.18	-4,450.62	-6,345.19	6,372.38	6,077.67	294.71	21.623		
8,800.00	7,242.30	7,176.30	7,242.30	58.74	248.80	-90.17	-4,450.62	-6,345.19	6,302.09	6,005.61	296.47	21.257		
8,900.00	7,241.99	7,175.99	7,241.99	61.16	248.79	-90.17	-4,450.62	-6,345.19	6,232.60	5,934.28	298.32	20.892		
9,000.00	7,241.67	7,175.67	7,241.67	63.61	248.78	-90.17	-4,450.62	-6,345.19	6,163.95	5,863.69	300.27	20.528		
9,100.00	7,241.36	7,175.36	7,241.36	66.09	248.77	-90.16	-4,450.62	-6,345.19	6,096.17	5,793.88	302.29	20.166		
9,200.00	7,241.05	7,175.05	7,241.05	68.60	248.76	-90.16	-4,450.62	-6,345.19	6,029.29	5,724.88	304.41	19.807		
9,300.00	7,240.74	7,174.74	7,240.74	71.13	248.75	-90.15	-4,450.62	-6,345.19	5,963.33	5,656.73	306.60	19.450		
9,400.00	7,240.43	7,174.43	7,240.43	73.70	248.74	-90.15	-4,450.62	-6,345.19	5,898.33	5,589.46	308.88	19.096		
9,500.00	7,240.11	7,174.11	7,240.11	76.28	248.72	-90.15	-4,450.62	-6,345.19	5,834.33	5,523.10	311.23	18.746		
9,600.00	7,239.80	7,173.80	7,239.80	78.88	248.71	-90.14	-4,450.62	-6,345.19	5,771.34	5,457.68	313.66	18.400		
9,700.00	7,239.49	7,173.49	7,239.49	81.50	248.70	-90.14	-4,450.62	-6,345.19	5,709.41	5,393.25	316.16	18.059		
9,800.00	7,239.18	7,173.18	7,239.18	84.13	248.69	-90.14	-4,450.62	-6,345.19	5,648.57	5,329.84	318.73	17.722		
9,900.00	7,238.87	7,172.87	7,238.87	86.78	248.68	-90.13	-4,450.62	-6,345.19	5,588.86	5,267.49	321.38	17.390		
10,000.00	7,238.55	7,172.55	7,238.55	89.44	248.67	-90.13	-4,450.62	-6,345.19	5,530.32	5,206.23	324.09	17.064		
10,100.00	7,238.24	7,172.24	7,238.24	92.11	248.66	-90.12	-4,450.62	-6,345.19	5,472.97	5,146.11	326.86	16.744		
10,200.00	7,237.93	7,171.93	7,237.93	94.80	248.65	-90.12	-4,450.62	-6,345.19	5,416.87	5,087.16	329.70	16.430		
10,300.00	7,237.62	7,171.62	7,237.62	97.49	248.64	-90.12	-4,450.62	-6,345.19	5,362.04	5,029.43	332.60	16.121		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	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)			
10,400.00	7,237.31	7,171.31	7,237.31	100.19	248.63	-90.11	-4,450.62	-6,345.19	5,308.53	4,972.96	335.56	15.820		
10,500.00	7,236.99	7,170.99	7,236.99	102.90	248.62	-90.11	-4,450.62	-6,345.19	5,256.37	4,917.79	338.58	15.525		
10,600.00	7,236.68	7,170.68	7,236.68	105.62	248.61	-90.10	-4,450.62	-6,345.19	5,205.62	4,863.97	341.65	15.237		
10,700.00	7,236.37	7,170.37	7,236.37	108.35	248.59	-90.10	-4,450.62	-6,345.19	5,156.31	4,811.54	344.77	14.956		
10,800.00	7,236.06	7,170.06	7,236.06	111.08	248.58	-90.10	-4,450.62	-6,345.19	5,108.47	4,760.54	347.94	14.682		
10,900.00	7,235.75	7,169.75	7,235.75	113.82	248.57	-90.09	-4,450.62	-6,345.19	5,062.16	4,711.02	351.15	14.416		
11,000.00	7,235.44	7,169.44	7,235.44	116.56	248.56	-90.09	-4,450.62	-6,345.19	5,017.42	4,663.02	354.40	14.158		
11,100.00	7,235.12	7,169.12	7,235.12	119.31	248.55	-90.08	-4,450.62	-6,345.19	4,974.29	4,616.60	357.69	13.907		
11,200.00	7,234.81	7,168.81	7,234.81	122.07	248.54	-90.08	-4,450.62	-6,345.19	4,932.80	4,571.80	361.01	13.664		
11,300.00	7,234.50	7,168.50	7,234.50	124.83	248.53	-90.08	-4,450.62	-6,345.19	4,893.01	4,528.65	364.35	13.429		
11,400.00	7,234.19	7,168.19	7,234.19	127.59	248.52	-90.07	-4,450.62	-6,345.19	4,854.95	4,487.22	367.73	13.203		
11,500.00	7,233.88	7,167.88	7,233.88	130.36	248.51	-90.07	-4,450.62	-6,345.19	4,818.67	4,447.55	371.12	12.984		
11,600.00	7,233.56	7,167.56	7,233.56	133.13	248.50	-90.06	-4,450.62	-6,345.19	4,784.20	4,409.68	374.52	12.774		
11,700.00	7,233.25	7,167.25	7,233.25	135.91	248.49	-90.06	-4,450.62	-6,345.19	4,751.59	4,373.65	377.94	12.572		
11,800.00	7,232.94	7,166.94	7,232.94	138.68	248.47	-90.06	-4,450.62	-6,345.19	4,720.87	4,339.51	381.35	12.379		
11,900.00	7,232.63	7,166.63	7,232.63	141.47	248.46	-90.05	-4,450.62	-6,345.19	4,692.08	4,307.31	384.77	12.195		
12,000.00	7,232.32	7,166.32	7,232.32	144.25	248.45	-90.05	-4,450.62	-6,345.19	4,665.25	4,277.08	388.17	12.019		
12,100.00	7,232.00	7,166.00	7,232.00	147.04	248.44	-90.04	-4,450.62	-6,345.19	4,640.43	4,248.87	391.56	11.851		
12,200.00	7,231.69	7,165.69	7,231.69	149.83	248.43	-90.04	-4,450.62	-6,345.19	4,617.64	4,222.71	394.93	11.692		
12,300.00	7,231.38	7,165.38	7,231.38	152.62	248.42	-90.04	-4,450.62	-6,345.19	4,596.91	4,198.64	398.28	11.542		
12,400.00	7,231.07	7,165.07	7,231.07	155.42	248.41	-90.03	-4,450.62	-6,345.19	4,578.28	4,176.69	401.59	11.400		
12,500.00	7,230.76	7,164.76	7,230.76	158.22	248.40	-90.03	-4,450.62	-6,345.19	4,561.76	4,156.90	404.86	11.268		
12,600.00	7,230.44	7,164.44	7,230.44	161.01	248.39	-90.02	-4,450.62	-6,345.19	4,547.38	4,139.29	408.09	11.143		
12,700.00	7,230.13	7,164.13	7,230.13	163.82	248.38	-90.02	-4,450.62	-6,345.19	4,535.15	4,123.89	411.26	11.027		
12,800.00	7,229.82	7,163.82	7,229.82	166.62	248.37	-90.02	-4,450.62	-6,345.19	4,525.11	4,110.73	414.38	10.920		
12,900.00	7,229.51	7,163.51	7,229.51	169.43	248.35	-90.01	-4,450.62	-6,345.19	4,517.26	4,099.82	417.44	10.821		
13,000.00	7,229.20	7,163.20	7,229.20	172.23	248.34	-90.01	-4,450.62	-6,345.19	4,511.61	4,091.19	420.42	10.731		
13,100.00	7,228.88	7,162.88	7,228.88	175.04	248.33	-90.00	-4,450.62	-6,345.19	4,508.18	4,084.84	423.34	10.649		
13,200.00	7,228.57	7,162.57	7,228.57	177.85	248.32	-90.00	-4,450.62	-6,345.19	4,506.96	4,080.78	426.17	10.575		
13,204.98	7,228.56	7,162.56	7,228.56	177.99	248.32	-90.00	-4,450.62	-6,345.19	4,506.95	4,080.64	426.31	10.572 CC		
13,300.00	7,228.26	7,162.26	7,228.26	180.66	248.31	-90.00	-4,450.62	-6,345.19	4,507.95	4,079.03	428.93	10.510 ES		
13,400.00	7,227.95	7,161.95	7,227.95	183.48	248.30	-89.99	-4,450.62	-6,345.19	4,511.17	4,079.58	431.59	10.452		
13,500.00	7,227.64	7,161.64	7,227.64	186.29	248.29	-89.99	-4,450.62	-6,345.19	4,516.60	4,082.43	434.17	10.403		
13,600.00	7,227.33	7,161.33	7,227.33	189.11	248.28	-89.98	-4,450.62	-6,345.19	4,524.23	4,087.58	436.65	10.361		
13,700.00	7,227.01	7,161.01	7,227.01	191.92	248.27	-89.98	-4,450.62	-6,345.19	4,534.06	4,095.02	439.04	10.327		
13,800.00	7,226.70	7,160.70	7,226.70	194.74	248.26	-89.98	-4,450.62	-6,345.19	4,546.06	4,104.74	441.32	10.301		
13,900.00	7,226.39	7,160.39	7,226.39	197.56	248.25	-89.97	-4,450.62	-6,345.19	4,560.23	4,116.72	443.51	10.282		
14,000.00	7,226.08	7,160.08	7,226.08	200.38	248.23	-89.97	-4,450.62	-6,345.19	4,576.54	4,130.95	445.59	10.271		
14,100.00	7,225.77	7,159.77	7,225.77	203.21	248.22	-89.96	-4,450.62	-6,345.19	4,594.96	4,147.39	447.57	10.266 SF		
14,200.00	7,225.45	7,159.45	7,225.45	206.03	248.21	-89.96	-4,450.62	-6,345.19	4,615.48	4,166.04	449.44	10.269		
14,300.00	7,225.14	7,159.14	7,225.14	208.85	248.20	-89.96	-4,450.62	-6,345.19	4,638.07	4,186.85	451.22	10.279		
14,400.00	7,224.83	7,158.83	7,224.83	211.68	248.19	-89.95	-4,450.62	-6,345.19	4,662.69	4,209.81	452.88	10.296		
14,500.00	7,224.52	7,158.52	7,224.52	214.50	248.18	-89.95	-4,450.62	-6,345.19	4,689.32	4,234.87	454.45	10.319		
14,600.00	7,224.21	7,158.21	7,224.21	217.33	248.17	-89.94	-4,450.62	-6,345.19	4,717.91	4,262.00	455.91	10.348		
14,700.00	7,223.89	7,157.89	7,223.89	220.16	248.16	-89.94	-4,450.62	-6,345.19	4,748.44	4,291.17	457.28	10.384		
14,800.00	7,223.58	7,157.58	7,223.58	222.98	248.15	-89.94	-4,450.62	-6,345.19	4,780.87	4,322.33	458.54	10.426		
14,900.00	7,223.27	7,157.27	7,223.27	225.81	248.14	-89.93	-4,450.62	-6,345.19	4,815.15	4,355.44	459.71	10.474		
14,987.41	7,223.00	7,157.00	7,223.00	228.28	248.13	-89.93	-4,450.62	-6,345.19	4,846.61	4,385.96	460.65	10.521		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	19.00	3.28	3.28	-69.73	2,348.41	-6,357.62	6,777.52				
100.00	100.00	81.00	100.00	3.28	3.57	-69.73	2,348.41	-6,357.62	6,777.49	6,770.64	6.86	988.483	
200.00	200.00	181.00	200.00	3.34	5.63	-69.73	2,348.41	-6,357.62	6,777.49	6,768.53	8.96	756.005	
300.00	300.00	281.00	300.00	3.44	8.71	-69.73	2,348.41	-6,357.62	6,777.49	6,765.34	12.15	557.789	
400.00	400.00	381.00	400.00	3.60	12.01	-69.73	2,348.41	-6,357.62	6,777.49	6,761.88	15.62	434.036	
500.00	500.00	481.00	500.00	3.81	15.40	-69.73	2,348.41	-6,357.62	6,777.49	6,758.29	19.21	352.892	
600.00	600.00	581.00	600.00	4.05	18.83	-69.73	2,348.41	-6,357.62	6,777.49	6,754.62	22.87	296.330	
700.00	699.98	680.98	699.98	4.32	22.27	-11.73	2,348.41	-6,357.62	6,775.82	6,749.24	26.59	254.868	
800.00	799.94	780.94	799.94	4.61	25.73	-11.74	2,348.41	-6,357.62	6,772.92	6,742.58	30.33	223.281	
900.00	899.89	880.89	899.89	4.92	29.19	-11.74	2,348.41	-6,357.62	6,770.01	6,735.90	34.11	198.468	
1,000.00	999.85	980.85	999.85	5.25	32.66	-11.75	2,348.41	-6,357.62	6,767.11	6,729.20	37.91	178.493	
1,100.00	1,099.80	1,080.80	1,099.80	5.60	36.13	-11.75	2,348.41	-6,357.62	6,764.20	6,722.47	41.73	162.086	
1,200.00	1,199.76	1,180.76	1,199.76	5.96	39.61	-11.76	2,348.41	-6,357.62	6,761.30	6,715.73	45.57	148.381	
1,300.00	1,299.72	1,280.72	1,299.72	6.33	43.09	-11.77	2,348.41	-6,357.62	6,758.39	6,708.98	49.41	136.770	
1,400.00	1,399.67	1,380.67	1,399.67	6.71	46.57	-11.77	2,348.41	-6,357.62	6,755.49	6,702.22	53.27	126.813	
1,500.00	1,499.63	1,480.63	1,499.63	7.10	50.05	-11.78	2,348.41	-6,357.62	6,752.58	6,695.45	57.14	118.182	
1,600.00	1,599.58	1,580.58	1,599.58	7.49	53.53	-11.78	2,348.41	-6,357.62	6,749.68	6,688.67	61.01	110.632	
1,700.00	1,699.54	1,680.54	1,699.54	7.88	57.02	-11.79	2,348.41	-6,357.62	6,746.77	6,681.89	64.89	103.975	
1,800.00	1,799.50	1,780.50	1,799.50	8.28	60.50	-11.79	2,348.41	-6,357.62	6,743.87	6,675.10	68.77	98.060	
1,900.00	1,899.45	1,880.45	1,899.45	8.69	63.99	-11.80	2,348.41	-6,357.62	6,740.97	6,668.31	72.66	92.773	
2,000.00	1,999.41	1,980.41	1,999.41	9.10	67.47	-11.80	2,348.41	-6,357.62	6,738.06	6,661.51	76.55	88.018	
2,100.00	2,099.36	2,080.36	2,099.36	9.51	70.96	-11.81	2,348.41	-6,357.62	6,735.16	6,654.71	80.45	83.720	
2,200.00	2,199.32	2,180.32	2,199.32	9.92	74.44	-11.81	2,348.41	-6,357.62	6,732.25	6,647.91	84.35	79.817	
2,300.00	2,299.28	2,280.28	2,299.28	10.34	77.93	-11.82	2,348.41	-6,357.62	6,729.35	6,641.10	88.25	76.256	
2,400.00	2,399.23	2,380.23	2,399.23	10.75	81.41	-11.82	2,348.41	-6,357.62	6,726.44	6,634.29	92.15	72.994	
2,500.00	2,499.19	2,480.19	2,499.19	11.17	84.90	-11.83	2,348.41	-6,357.62	6,723.54	6,627.49	96.06	69.997	
2,600.00	2,599.14	2,580.14	2,599.14	11.60	88.39	-11.83	2,348.41	-6,357.62	6,720.64	6,620.67	99.96	67.232	
2,700.00	2,699.10	2,680.10	2,699.10	12.02	91.88	-11.84	2,348.41	-6,357.62	6,717.73	6,613.86	103.87	64.674	
2,800.00	2,799.06	2,780.06	2,799.06	12.44	95.36	-11.84	2,348.41	-6,357.62	6,714.83	6,607.05	107.78	62.301	
2,900.00	2,899.01	2,880.01	2,899.01	12.87	98.85	-11.85	2,348.41	-6,357.62	6,711.93	6,600.23	111.69	60.094	
3,000.00	2,998.97	2,979.97	2,998.97	13.29	102.34	-11.85	2,348.41	-6,357.62	6,709.02	6,593.42	115.60	58.035	
3,100.00	3,098.92	3,079.92	3,098.92	13.72	105.83	-11.86	2,348.41	-6,357.62	6,706.12	6,586.60	119.52	56.111	
3,200.00	3,198.88	3,179.88	3,198.88	14.14	109.31	-11.86	2,348.41	-6,357.62	6,703.21	6,579.78	123.43	54.308	
3,300.00	3,298.84	3,279.84	3,298.84	14.57	112.80	-11.87	2,348.41	-6,357.62	6,700.31	6,572.97	127.35	52.615	
3,400.00	3,398.79	3,379.79	3,398.79	15.00	116.29	-11.87	2,348.41	-6,357.62	6,697.41	6,566.15	131.26	51.024	
3,500.00	3,498.75	3,479.75	3,498.75	15.43	119.78	-11.88	2,348.41	-6,357.62	6,694.50	6,559.33	135.18	49.524	
3,600.00	3,598.70	3,579.70	3,598.70	15.86	123.27	-11.88	2,348.41	-6,357.62	6,691.60	6,552.51	139.09	48.108	
3,700.00	3,698.66	3,679.66	3,698.66	16.29	126.75	-11.89	2,348.41	-6,357.62	6,688.70	6,545.68	143.01	46.770	
3,800.00	3,798.62	3,779.62	3,798.62	16.72	130.24	-11.89	2,348.41	-6,357.62	6,685.79	6,538.86	146.93	45.503	
3,900.00	3,898.57	3,879.57	3,898.57	17.15	133.73	-11.90	2,348.41	-6,357.62	6,682.89	6,532.04	150.85	44.302	
4,000.00	3,998.53	3,979.53	3,998.53	17.59	137.22	-11.91	2,348.41	-6,357.62	6,679.99	6,525.22	154.77	43.161	
4,100.00	4,098.48	4,079.48	4,098.48	18.02	140.71	-11.91	2,348.41	-6,357.62	6,677.08	6,518.39	158.69	42.077	
4,200.00	4,198.44	4,179.44	4,198.44	18.45	144.20	-11.92	2,348.41	-6,357.62	6,674.18	6,511.57	162.61	41.044	
4,300.00	4,298.40	4,279.40	4,298.40	18.88	147.68	-11.92	2,348.41	-6,357.62	6,671.28	6,504.75	166.53	40.061	
4,400.00	4,398.35	4,379.35	4,398.35	19.32	151.17	-11.93	2,348.41	-6,357.62	6,668.37	6,497.92	170.45	39.122	
4,500.00	4,498.31	4,479.31	4,498.31	19.75	154.66	-11.93	2,348.41	-6,357.62	6,665.47	6,491.10	174.37	38.226	
4,600.00	4,598.26	4,579.26	4,598.26	20.19	158.15	-11.94	2,348.41	-6,357.62	6,662.57	6,484.28	178.29	37.369	
4,700.00	4,698.22	4,679.22	4,698.22	20.62	161.64	-11.94	2,348.41	-6,357.62	6,659.67	6,477.45	182.21	36.548	
4,800.00	4,798.18	4,779.18	4,798.18	21.05	165.13	-11.95	2,348.41	-6,357.62	6,656.76	6,470.63	186.14	35.763	
4,900.00	4,898.13	4,879.13	4,898.13	21.49	168.62	-11.95	2,348.41	-6,357.62	6,653.86	6,463.80	190.06	35.009	
5,000.00	4,998.09	4,979.09	4,998.09	21.92	172.11	-11.96	2,348.41	-6,357.62	6,650.96	6,456.98	193.98	34.286	
5,100.00	5,098.04	5,079.04	5,098.04	22.36	175.59	-11.96	2,348.41	-6,357.62	6,648.05	6,450.15	197.90	33.592	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,179.00	5,198.00	22.79	179.08	-11.97	2,348.41	-6,357.62	6,645.15	6,443.32	201.83	32.925		
5,300.00	5,297.96	5,278.96	5,297.96	23.23	182.57	-11.97	2,348.41	-6,357.62	6,642.25	6,436.50	205.75	32.283		
5,400.00	5,397.91	5,378.91	5,397.91	23.67	186.06	-11.98	2,348.41	-6,357.62	6,639.35	6,429.67	209.67	31.665		
5,500.00	5,497.87	5,478.87	5,497.87	24.10	189.55	-11.98	2,348.41	-6,357.62	6,636.44	6,422.85	213.60	31.070		
5,600.00	5,597.82	5,578.82	5,597.82	24.54	193.04	-11.99	2,348.41	-6,357.62	6,633.54	6,416.02	217.52	30.496		
5,700.00	5,697.78	5,678.78	5,697.78	24.97	196.53	-12.00	2,348.41	-6,357.62	6,630.64	6,409.19	221.45	29.942		
5,800.00	5,797.74	5,778.74	5,797.74	25.41	200.02	-12.00	2,348.41	-6,357.62	6,627.74	6,402.37	225.37	29.408		
5,900.00	5,897.69	5,878.69	5,897.69	25.85	203.51	-12.01	2,348.41	-6,357.62	6,624.84	6,395.54	229.29	28.892		
6,000.00	5,997.65	5,978.65	5,997.65	26.28	207.00	-12.01	2,348.41	-6,357.62	6,621.93	6,388.71	233.22	28.394		
6,100.00	6,097.60	6,078.60	6,097.60	26.72	210.48	-12.02	2,348.41	-6,357.62	6,619.03	6,381.89	237.14	27.911		
6,200.00	6,197.56	6,178.56	6,197.56	27.16	213.97	-12.02	2,348.41	-6,357.62	6,616.13	6,375.06	241.07	27.445		
6,300.00	6,297.52	6,278.52	6,297.52	27.59	217.46	-12.03	2,348.41	-6,357.62	6,613.23	6,368.23	244.99	26.993		
6,400.00	6,397.47	6,378.47	6,397.47	28.03	220.95	-12.03	2,348.41	-6,357.62	6,610.33	6,361.41	248.92	26.556		
6,500.00	6,497.43	6,478.43	6,497.43	28.47	224.44	-12.04	2,348.41	-6,357.62	6,607.42	6,354.58	252.84	26.132		
6,600.00	6,597.38	6,578.38	6,597.38	28.90	227.93	-12.04	2,348.41	-6,357.62	6,604.52	6,347.75	256.77	25.722		
6,700.00	6,697.08	6,678.08	6,697.08	29.34	231.41	14.00	2,348.41	-6,357.62	6,597.82	6,337.13	260.69	25.309		
6,800.00	6,794.63	6,775.63	6,794.63	29.79	234.82	18.20	2,348.41	-6,357.62	6,577.15	6,312.63	264.52	24.864		
6,900.00	6,887.62	6,868.62	6,887.62	30.24	238.06	20.60	2,348.41	-6,357.62	6,542.48	6,274.29	268.19	24.395		
7,000.00	6,973.77	6,954.77	6,973.77	30.70	241.07	23.24	2,348.41	-6,357.62	6,494.67	6,223.09	271.58	23.915		
7,100.00	7,050.94	7,031.94	7,050.94	31.20	243.76	26.74	2,348.41	-6,357.62	6,434.94	6,160.32	274.61	23.433		
7,200.00	7,117.24	7,101.76	7,117.24	31.77	246.20	31.71	2,348.41	-6,357.62	6,364.81	6,087.45	277.35	22.948		
7,300.00	7,171.03	7,152.03	7,171.03	32.46	247.95	39.06	2,348.41	-6,357.62	6,286.06	6,006.68	279.37	22.501		
7,400.00	7,211.00	7,208.00	7,211.00	33.29	249.91	50.13	2,348.41	-6,357.62	6,200.67	5,919.11	281.56	22.023		
7,500.00	7,236.16	7,217.16	7,236.16	34.29	250.23	66.42	2,348.41	-6,357.62	6,110.79	5,828.70	282.09	21.662		
7,600.00	7,245.89	7,226.89	7,245.89	35.43	250.57	87.36	2,348.41	-6,357.62	6,018.68	5,736.05	282.64	21.295		
7,700.00	7,245.73	7,226.73	7,245.73	36.72	250.56	90.43	2,348.41	-6,357.62	5,926.34	5,643.48	282.86	20.951		
7,800.00	7,245.42	7,226.42	7,245.42	38.18	250.55	90.42	2,348.41	-6,357.62	5,834.25	5,551.12	283.13	20.606		
7,900.00	7,245.10	7,226.10	7,245.10	39.80	250.54	90.41	2,348.41	-6,357.62	5,742.43	5,458.97	283.46	20.259		
8,000.00	7,244.79	7,225.79	7,244.79	41.54	250.53	90.40	2,348.41	-6,357.62	5,650.88	5,367.04	283.84	19.909		
8,100.00	7,244.48	7,225.48	7,244.48	43.41	250.52	90.39	2,348.41	-6,357.62	5,559.62	5,275.33	284.29	19.556		
8,200.00	7,244.17	7,225.17	7,244.17	45.38	250.51	90.39	2,348.41	-6,357.62	5,468.67	5,183.87	284.80	19.202		
8,300.00	7,243.86	7,224.86	7,243.86	47.44	250.50	90.38	2,348.41	-6,357.62	5,378.04	5,092.66	285.38	18.845		
8,400.00	7,243.55	7,224.55	7,243.55	49.58	250.49	90.37	2,348.41	-6,357.62	5,287.75	5,001.72	286.03	18.487		
8,500.00	7,243.23	7,224.23	7,243.23	51.78	250.47	90.36	2,348.41	-6,357.62	5,197.81	4,911.06	286.75	18.126		
8,600.00	7,242.92	7,223.92	7,242.92	54.05	250.46	90.36	2,348.41	-6,357.62	5,108.25	4,820.69	287.56	17.764		
8,700.00	7,242.61	7,223.61	7,242.61	56.37	250.45	90.35	2,348.41	-6,357.62	5,019.08	4,730.64	288.44	17.401		
8,800.00	7,242.30	7,223.30	7,242.30	58.74	250.44	90.34	2,348.41	-6,357.62	4,930.33	4,640.92	289.41	17.036		
8,900.00	7,241.99	7,222.99	7,241.99	61.16	250.43	90.33	2,348.41	-6,357.62	4,842.01	4,551.55	290.46	16.670		
9,000.00	7,241.67	7,222.67	7,241.67	63.61	250.42	90.32	2,348.41	-6,357.62	4,754.16	4,462.55	291.61	16.303		
9,100.00	7,241.36	7,222.36	7,241.36	66.09	250.41	90.32	2,348.41	-6,357.62	4,666.80	4,373.96	292.84	15.936		
9,200.00	7,241.05	7,222.05	7,241.05	68.60	250.40	90.31	2,348.41	-6,357.62	4,579.95	4,285.78	294.18	15.569		
9,300.00	7,240.74	7,221.74	7,240.74	71.13	250.39	90.30	2,348.41	-6,357.62	4,493.66	4,198.05	295.60	15.202		
9,400.00	7,240.43	7,221.43	7,240.43	73.70	250.38	90.29	2,348.41	-6,357.62	4,407.94	4,110.81	297.13	14.835		
9,500.00	7,240.11	7,221.11	7,240.11	76.28	250.37	90.29	2,348.41	-6,357.62	4,322.83	4,024.07	298.76	14.469		
9,600.00	7,239.80	7,220.80	7,239.80	78.88	250.35	90.28	2,348.41	-6,357.62	4,238.38	3,937.87	300.50	14.104		
9,700.00	7,239.49	7,220.49	7,239.49	81.50	250.34	90.27	2,348.41	-6,357.62	4,154.61	3,852.26	302.35	13.741		
9,800.00	7,239.18	7,220.18	7,239.18	84.13	250.33	90.26	2,348.41	-6,357.62	4,071.58	3,767.27	304.31	13.380		
9,900.00	7,238.87	7,219.87	7,238.87	86.78	250.32	90.25	2,348.41	-6,357.62	3,989.33	3,682.95	306.38	13.021		
10,000.00	7,238.55	7,219.55	7,238.55	89.44	250.31	90.25	2,348.41	-6,357.62	3,907.90	3,599.33	308.57	12.664		
10,100.00	7,238.24	7,219.24	7,238.24	92.11	250.30	90.24	2,348.41	-6,357.62	3,827.35	3,516.47	310.88	12.311		
10,200.00	7,237.93	7,218.93	7,237.93	94.80	250.29	90.23	2,348.41	-6,357.62	3,747.75	3,434.43	313.32	11.961		
10,300.00	7,237.62	7,218.62	7,237.62	97.49	250.28	90.22	2,348.41	-6,357.62	3,669.14	3,353.26	315.88	11.616		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,218.31	7,237.31	100.19	250.27	90.22	2,348.41	-6,357.62	3,591.59	3,273.02	318.57	11.274	
10,500.00	7,236.99	7,217.99	7,236.99	102.90	250.26	90.21	2,348.41	-6,357.62	3,515.18	3,193.78	321.40	10.937	
10,600.00	7,236.68	7,217.68	7,236.68	105.62	250.25	90.20	2,348.41	-6,357.62	3,439.98	3,115.62	324.35	10.606	
10,700.00	7,236.37	7,217.37	7,236.37	108.35	250.23	90.19	2,348.41	-6,357.62	3,366.07	3,038.62	327.45	10.280	
10,800.00	7,236.06	7,217.06	7,236.06	111.08	250.22	90.18	2,348.41	-6,357.62	3,293.53	2,962.85	330.68	9.960	
10,900.00	7,235.75	7,216.75	7,235.75	113.82	250.21	90.18	2,348.41	-6,357.62	3,222.47	2,888.42	334.05	9.647	
11,000.00	7,235.44	7,216.44	7,235.44	116.56	250.20	90.17	2,348.41	-6,357.62	3,152.98	2,815.42	337.56	9.340	
11,100.00	7,235.12	7,216.12	7,235.12	119.31	250.19	90.16	2,348.41	-6,357.62	3,085.16	2,743.96	341.21	9.042	
11,200.00	7,234.81	7,215.81	7,234.81	122.07	250.18	90.15	2,348.41	-6,357.62	3,019.14	2,674.15	344.99	8.751	
11,300.00	7,234.50	7,215.50	7,234.50	124.83	250.17	90.15	2,348.41	-6,357.62	2,955.02	2,606.11	348.91	8.469	
11,400.00	7,234.19	7,215.19	7,234.19	127.59	250.16	90.14	2,348.41	-6,357.62	2,892.94	2,539.99	352.96	8.196	
11,500.00	7,233.88	7,214.88	7,233.88	130.36	250.15	90.13	2,348.41	-6,357.62	2,833.03	2,475.91	357.12	7.933	
11,600.00	7,233.56	7,214.56	7,233.56	133.13	250.14	90.12	2,348.41	-6,357.62	2,775.43	2,414.03	361.40	7.680	
11,700.00	7,233.25	7,214.25	7,233.25	135.91	250.13	90.11	2,348.41	-6,357.62	2,720.29	2,354.51	365.78	7.437	
11,800.00	7,232.94	7,213.94	7,232.94	138.68	250.12	90.11	2,348.41	-6,357.62	2,667.76	2,297.52	370.25	7.205	
11,900.00	7,232.63	7,213.63	7,232.63	141.47	250.10	90.10	2,348.41	-6,357.62	2,618.00	2,243.22	374.78	6.985	
12,000.00	7,232.32	7,213.32	7,232.32	144.25	250.09	90.09	2,348.41	-6,357.62	2,571.16	2,191.79	379.37	6.777	
12,100.00	7,232.00	7,213.00	7,232.00	147.04	250.08	90.08	2,348.41	-6,357.62	2,527.41	2,143.43	383.98	6.582	
12,200.00	7,231.69	7,212.69	7,231.69	149.83	250.07	90.08	2,348.41	-6,357.62	2,486.92	2,098.32	388.60	6.400	
12,300.00	7,231.38	7,212.38	7,231.38	152.62	250.06	90.07	2,348.41	-6,357.62	2,449.84	2,056.66	393.19	6.231	
12,400.00	7,231.07	7,212.07	7,231.07	155.42	250.05	90.06	2,348.41	-6,357.62	2,416.34	2,018.62	397.72	6.076	
12,500.00	7,230.76	7,211.76	7,230.76	158.22	250.04	90.05	2,348.41	-6,357.62	2,386.56	1,984.40	402.15	5.934	
12,600.00	7,230.44	7,211.44	7,230.44	161.01	250.03	90.04	2,348.41	-6,357.62	2,360.64	1,954.17	406.47	5.808	
12,700.00	7,230.13	7,211.13	7,230.13	163.82	250.02	90.04	2,348.41	-6,357.62	2,338.71	1,928.09	410.62	5.696	
12,800.00	7,229.82	7,210.82	7,229.82	166.62	250.01	90.03	2,348.41	-6,357.62	2,320.89	1,906.32	414.57	5.598	
12,900.00	7,229.51	7,210.51	7,229.51	169.43	250.00	90.02	2,348.41	-6,357.62	2,307.27	1,888.97	418.29	5.516	
13,000.00	7,229.20	7,210.20	7,229.20	172.23	249.98	90.01	2,348.41	-6,357.62	2,297.92	1,876.16	421.76	5.448	
13,100.00	7,228.88	7,209.88	7,228.88	175.04	249.97	90.01	2,348.41	-6,357.62	2,292.90	1,867.96	424.93	5.396	
13,165.23	7,228.68	7,209.68	7,228.68	176.87	249.97	90.00	2,348.41	-6,357.62	2,291.97	1,865.13	426.84	5.370 CC	
13,200.00	7,228.57	7,209.57	7,228.57	177.85	249.96	90.00	2,348.41	-6,357.62	2,292.23	1,864.43	427.80	5.358 ES	
13,300.00	7,228.26	7,209.26	7,228.26	180.66	249.95	89.99	2,348.41	-6,357.62	2,295.93	1,865.59	430.34	5.335	
13,400.00	7,227.95	7,208.95	7,227.95	183.48	249.94	89.98	2,348.41	-6,357.62	2,303.96	1,871.43	432.54	5.327 SF	
13,500.00	7,227.64	7,208.64	7,227.64	186.29	249.93	89.97	2,348.41	-6,357.62	2,316.29	1,881.90	434.39	5.332	
13,600.00	7,227.33	7,208.33	7,227.33	189.11	249.92	89.97	2,348.41	-6,357.62	2,332.84	1,896.95	435.90	5.352	
13,700.00	7,227.01	7,208.01	7,227.01	191.92	249.91	89.96	2,348.41	-6,357.62	2,353.53	1,916.47	437.07	5.385	
13,800.00	7,226.70	7,207.70	7,226.70	194.74	249.90	89.95	2,348.41	-6,357.62	2,378.25	1,940.34	437.91	5.431	
13,900.00	7,226.39	7,207.39	7,226.39	197.56	249.89	89.94	2,348.41	-6,357.62	2,406.87	1,968.44	438.43	5.490	
14,000.00	7,226.08	7,207.08	7,226.08	200.38	249.88	89.93	2,348.41	-6,357.62	2,439.26	2,000.59	438.66	5.561	
14,100.00	7,225.77	7,206.77	7,225.77	203.21	249.86	89.93	2,348.41	-6,357.62	2,475.26	2,036.64	438.62	5.643	
14,200.00	7,225.45	7,206.45	7,225.45	206.03	249.85	89.92	2,348.41	-6,357.62	2,514.73	2,076.40	438.33	5.737	
14,300.00	7,225.14	7,206.14	7,225.14	208.85	249.84	89.91	2,348.41	-6,357.62	2,557.50	2,119.69	437.82	5.841	
14,400.00	7,224.83	7,205.83	7,224.83	211.68	249.83	89.90	2,348.41	-6,357.62	2,603.42	2,166.32	437.10	5.956	
14,500.00	7,224.52	7,205.52	7,224.52	214.50	249.82	89.90	2,348.41	-6,357.62	2,652.31	2,216.10	436.21	6.080	
14,600.00	7,224.21	7,205.21	7,224.21	217.33	249.81	89.89	2,348.41	-6,357.62	2,704.01	2,268.85	435.16	6.214	
14,700.00	7,223.89	7,204.89	7,223.89	220.16	249.80	89.88	2,348.41	-6,357.62	2,758.38	2,324.39	433.98	6.356	
14,800.00	7,223.58	7,204.58	7,223.58	222.98	249.79	89.87	2,348.41	-6,357.62	2,815.24	2,382.55	432.69	6.506	
14,900.00	7,223.27	7,204.27	7,223.27	225.81	249.78	89.86	2,348.41	-6,357.62	2,874.46	2,443.15	431.31	6.664	
14,987.41	7,223.00	7,204.00	7,223.00	228.28	249.77	89.86	2,348.41	-6,357.62	2,928.05	2,498.00	430.05	6.809	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	16.00	3.28	3.28	-73.79	2,283.27	-7,853.88	8,179.06					
100.00	100.00	84.00	100.00	3.28	3.59	-73.79	2,283.27	-7,853.88	8,179.04	8,172.17	6.88	1,189.245		
200.00	200.00	184.00	200.00	3.34	5.71	-73.79	2,283.27	-7,853.88	8,179.04	8,169.99	9.05	903.731		
300.00	300.00	284.00	300.00	3.44	8.80	-73.79	2,283.27	-7,853.88	8,179.04	8,166.80	12.25	667.800		
400.00	400.00	384.00	400.00	3.60	12.11	-73.79	2,283.27	-7,853.88	8,179.04	8,163.33	15.72	520.433		
500.00	500.00	484.00	500.00	3.81	15.50	-73.79	2,283.27	-7,853.88	8,179.04	8,159.74	19.31	423.611		
600.00	600.00	584.00	600.00	4.05	18.93	-73.79	2,283.27	-7,853.88	8,179.04	8,156.07	22.97	356.004		
700.00	699.98	683.98	699.98	4.32	22.37	-15.80	2,283.27	-7,853.88	8,177.40	8,150.71	26.69	306.394		
800.00	799.94	783.94	799.94	4.61	25.83	-15.81	2,283.27	-7,853.88	8,174.55	8,144.11	30.44	268.569		
900.00	899.89	883.89	899.89	4.92	29.30	-15.81	2,283.27	-7,853.88	8,171.69	8,137.48	34.22	238.832		
1,000.00	999.85	983.85	999.85	5.25	32.77	-15.82	2,283.27	-7,853.88	8,168.84	8,130.82	38.02	214.876		
1,100.00	1,099.80	1,083.80	1,099.80	5.60	36.24	-15.82	2,283.27	-7,853.88	8,165.98	8,124.15	41.84	195.189		
1,200.00	1,199.76	1,183.76	1,199.76	5.96	39.72	-15.83	2,283.27	-7,853.88	8,163.13	8,117.46	45.67	178.737		
1,300.00	1,299.72	1,283.72	1,299.72	6.33	43.19	-15.83	2,283.27	-7,853.88	8,160.27	8,110.76	49.52	164.793		
1,400.00	1,399.67	1,383.67	1,399.67	6.71	46.67	-15.84	2,283.27	-7,853.88	8,157.42	8,104.05	53.38	152.831		
1,500.00	1,499.63	1,483.63	1,499.63	7.10	50.16	-15.85	2,283.27	-7,853.88	8,154.57	8,097.33	57.24	142.460		
1,600.00	1,599.58	1,583.58	1,599.58	7.49	53.64	-15.85	2,283.27	-7,853.88	8,151.71	8,090.60	61.11	133.386		
1,700.00	1,699.54	1,683.54	1,699.54	7.88	57.12	-15.86	2,283.27	-7,853.88	8,148.86	8,083.87	64.99	125.381		
1,800.00	1,799.50	1,783.50	1,799.50	8.28	60.61	-15.86	2,283.27	-7,853.88	8,146.00	8,077.13	68.88	118.270		
1,900.00	1,899.45	1,883.45	1,899.45	8.69	64.09	-15.87	2,283.27	-7,853.88	8,143.15	8,070.38	72.76	111.911		
2,000.00	1,999.41	1,983.41	1,999.41	9.10	67.58	-15.87	2,283.27	-7,853.88	8,140.30	8,063.64	76.66	106.192		
2,100.00	2,099.36	2,083.36	2,099.36	9.51	71.06	-15.88	2,283.27	-7,853.88	8,137.44	8,056.89	80.55	101.021		
2,200.00	2,199.32	2,183.32	2,199.32	9.92	74.55	-15.89	2,283.27	-7,853.88	8,134.59	8,050.14	84.45	96.324		
2,300.00	2,299.28	2,283.28	2,299.28	10.34	78.03	-15.89	2,283.27	-7,853.88	8,131.73	8,043.38	88.35	92.039		
2,400.00	2,399.23	2,383.23	2,399.23	10.75	81.52	-15.90	2,283.27	-7,853.88	8,128.88	8,036.63	92.25	88.115		
2,500.00	2,499.19	2,483.19	2,499.19	11.17	85.01	-15.90	2,283.27	-7,853.88	8,126.03	8,029.87	96.16	84.507		
2,600.00	2,599.14	2,583.14	2,599.14	11.60	88.49	-15.91	2,283.27	-7,853.88	8,123.17	8,023.11	100.07	81.179		
2,700.00	2,699.10	2,683.10	2,699.10	12.02	91.98	-15.91	2,283.27	-7,853.88	8,120.32	8,016.35	103.97	78.100		
2,800.00	2,799.06	2,783.06	2,799.06	12.44	95.47	-15.92	2,283.27	-7,853.88	8,117.47	8,009.58	107.88	75.243		
2,900.00	2,899.01	2,883.01	2,899.01	12.87	98.96	-15.93	2,283.27	-7,853.88	8,114.61	8,002.82	111.79	72.586		
3,000.00	2,998.97	2,982.97	2,998.97	13.29	102.44	-15.93	2,283.27	-7,853.88	8,111.76	7,996.05	115.71	70.107		
3,100.00	3,098.92	3,082.92	3,098.92	13.72	105.93	-15.94	2,283.27	-7,853.88	8,108.91	7,989.29	119.62	67.790		
3,200.00	3,198.88	3,182.88	3,198.88	14.14	109.42	-15.94	2,283.27	-7,853.88	8,106.05	7,982.52	123.53	65.619		
3,300.00	3,298.84	3,282.84	3,298.84	14.57	112.91	-15.95	2,283.27	-7,853.88	8,103.20	7,975.75	127.45	63.581		
3,400.00	3,398.79	3,382.79	3,398.79	15.00	116.39	-15.95	2,283.27	-7,853.88	8,100.35	7,968.98	131.36	61.664		
3,500.00	3,498.75	3,482.75	3,498.75	15.43	119.88	-15.96	2,283.27	-7,853.88	8,097.50	7,962.22	135.28	59.857		
3,600.00	3,598.70	3,582.70	3,598.70	15.86	123.37	-15.97	2,283.27	-7,853.88	8,094.64	7,955.45	139.20	58.152		
3,700.00	3,698.66	3,682.66	3,698.66	16.29	126.86	-15.97	2,283.27	-7,853.88	8,091.79	7,948.68	143.11	56.541		
3,800.00	3,798.62	3,782.62	3,798.62	16.72	130.35	-15.98	2,283.27	-7,853.88	8,088.94	7,941.91	147.03	55.015		
3,900.00	3,898.57	3,882.57	3,898.57	17.15	133.84	-15.98	2,283.27	-7,853.88	8,086.09	7,935.13	150.95	53.567		
4,000.00	3,998.53	3,982.53	3,998.53	17.59	137.32	-15.99	2,283.27	-7,853.88	8,083.23	7,928.36	154.87	52.193		
4,100.00	4,098.48	4,082.48	4,098.48	18.02	140.81	-15.99	2,283.27	-7,853.88	8,080.38	7,921.59	158.79	50.887		
4,200.00	4,198.44	4,182.44	4,198.44	18.45	144.30	-16.00	2,283.27	-7,853.88	8,077.53	7,914.82	162.71	49.644		
4,300.00	4,298.40	4,282.40	4,298.40	18.88	147.79	-16.01	2,283.27	-7,853.88	8,074.68	7,908.05	166.63	48.458		
4,400.00	4,398.35	4,382.35	4,398.35	19.32	151.28	-16.01	2,283.27	-7,853.88	8,071.82	7,901.27	170.55	47.328		
4,500.00	4,498.31	4,482.31	4,498.31	19.75	154.77	-16.02	2,283.27	-7,853.88	8,068.97	7,894.50	174.47	46.248		
4,600.00	4,598.26	4,582.26	4,598.26	20.19	158.26	-16.02	2,283.27	-7,853.88	8,066.12	7,887.73	178.39	45.215		
4,700.00	4,698.22	4,682.22	4,698.22	20.62	161.74	-16.03	2,283.27	-7,853.88	8,063.27	7,880.95	182.32	44.227		
4,800.00	4,798.18	4,782.18	4,798.18	21.05	165.23	-16.04	2,283.27	-7,853.88	8,060.42	7,874.18	186.24	43.280		
4,900.00	4,898.13	4,882.13	4,898.13	21.49	168.72	-16.04	2,283.27	-7,853.88	8,057.57	7,867.41	190.16	42.372		
5,000.00	4,998.09	4,982.09	4,998.09	21.92	172.21	-16.05	2,283.27	-7,853.88	8,054.71	7,860.63	194.08	41.501		
5,100.00	5,098.04	5,082.04	5,098.04	22.36	175.70	-16.05	2,283.27	-7,853.88	8,051.86	7,853.86	198.01	40.665		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,182.00	5,198.00	22.79	179.19	-16.06	2,283.27	-7,853.88	8,049.01	7,847.08	201.93	39.861		
5,300.00	5,297.96	5,281.96	5,297.96	23.23	182.68	-16.06	2,283.27	-7,853.88	8,046.16	7,840.31	205.85	39.087		
5,400.00	5,397.91	5,381.91	5,397.91	23.67	186.17	-16.07	2,283.27	-7,853.88	8,043.31	7,833.53	209.78	38.342		
5,500.00	5,497.87	5,481.87	5,497.87	24.10	189.66	-16.08	2,283.27	-7,853.88	8,040.46	7,826.76	213.70	37.625		
5,600.00	5,597.82	5,581.82	5,597.82	24.54	193.14	-16.08	2,283.27	-7,853.88	8,037.61	7,819.98	217.62	36.934		
5,700.00	5,697.78	5,681.78	5,697.78	24.97	196.63	-16.09	2,283.27	-7,853.88	8,034.76	7,813.21	221.55	36.267		
5,800.00	5,797.74	5,781.74	5,797.74	25.41	200.12	-16.09	2,283.27	-7,853.88	8,031.91	7,806.43	225.47	35.623		
5,900.00	5,897.69	5,881.69	5,897.69	25.85	203.61	-16.10	2,283.27	-7,853.88	8,029.05	7,799.66	229.40	35.001		
6,000.00	5,997.65	5,981.65	5,997.65	26.28	207.10	-16.11	2,283.27	-7,853.88	8,026.20	7,792.88	233.32	34.400		
6,100.00	6,097.60	6,081.60	6,097.60	26.72	210.59	-16.11	2,283.27	-7,853.88	8,023.35	7,786.11	237.24	33.819		
6,200.00	6,197.56	6,181.56	6,197.56	27.16	214.08	-16.12	2,283.27	-7,853.88	8,020.50	7,779.33	241.17	33.257		
6,300.00	6,297.52	6,281.52	6,297.52	27.59	217.57	-16.12	2,283.27	-7,853.88	8,017.65	7,772.56	245.09	32.713		
6,400.00	6,397.47	6,381.47	6,397.47	28.03	221.06	-16.13	2,283.27	-7,853.88	8,014.80	7,765.78	249.02	32.186		
6,500.00	6,497.43	6,481.43	6,497.43	28.47	224.55	-16.13	2,283.27	-7,853.88	8,011.95	7,759.01	252.94	31.675		
6,600.00	6,597.38	6,581.38	6,597.38	28.90	228.03	-16.14	2,283.27	-7,853.88	8,009.10	7,752.23	256.87	31.180		
6,700.00	6,697.08	6,681.08	6,697.08	29.34	231.51	9.86	2,283.27	-7,853.88	8,002.36	7,741.57	260.79	30.686		
6,800.00	6,794.63	6,778.63	6,794.63	29.79	234.92	13.92	2,283.27	-7,853.88	7,981.31	7,716.69	264.62	30.161		
6,900.00	6,887.62	6,871.62	6,887.62	30.24	238.17	16.07	2,283.27	-7,853.88	7,945.90	7,677.62	268.28	29.618		
7,000.00	6,973.77	6,957.77	6,973.77	30.70	241.17	18.32	2,283.27	-7,853.88	7,897.02	7,625.35	271.67	29.069		
7,100.00	7,050.94	7,034.94	7,050.94	31.20	243.87	21.28	2,283.27	-7,853.88	7,835.87	7,561.17	274.70	28.525		
7,200.00	7,117.24	7,101.24	7,117.24	31.77	246.18	25.55	2,283.27	-7,853.88	7,764.00	7,486.70	277.30	27.999		
7,300.00	7,171.03	7,155.03	7,171.03	32.46	248.06	32.11	2,283.27	-7,853.88	7,683.20	7,403.78	279.42	27.497		
7,400.00	7,211.00	7,205.00	7,211.00	33.29	249.80	42.76	2,283.27	-7,853.88	7,595.48	7,314.12	281.36	26.996		
7,500.00	7,236.16	7,220.16	7,236.16	34.29	250.33	60.49	2,283.27	-7,853.88	7,503.03	7,220.98	282.05	26.602		
7,600.00	7,245.89	7,229.89	7,245.89	35.43	250.67	86.57	2,283.27	-7,853.88	7,408.15	7,125.62	282.53	26.221		
7,700.00	7,245.73	7,229.73	7,245.73	36.72	250.67	90.56	2,283.27	-7,853.88	7,312.89	7,030.22	282.66	25.871		
7,800.00	7,245.42	7,229.42	7,245.42	38.18	250.66	90.55	2,283.27	-7,853.88	7,217.75	6,934.92	282.83	25.520		
7,900.00	7,245.10	7,229.10	7,245.10	39.80	250.64	90.54	2,283.27	-7,853.88	7,122.75	6,839.72	283.03	25.166		
8,000.00	7,244.79	7,228.79	7,244.79	41.54	250.63	90.53	2,283.27	-7,853.88	7,027.88	6,744.62	283.26	24.811		
8,100.00	7,244.48	7,228.48	7,244.48	43.41	250.62	90.52	2,283.27	-7,853.88	6,933.17	6,649.63	283.53	24.453		
8,200.00	7,244.17	7,228.17	7,244.17	45.38	250.61	90.52	2,283.27	-7,853.88	6,838.60	6,554.75	283.84	24.093		
8,300.00	7,243.86	7,227.86	7,243.86	47.44	250.60	90.51	2,283.27	-7,853.88	6,744.18	6,459.99	284.20	23.731		
8,400.00	7,243.55	7,227.55	7,243.55	49.58	250.59	90.50	2,283.27	-7,853.88	6,649.94	6,365.34	284.59	23.366		
8,500.00	7,243.23	7,227.23	7,243.23	51.78	250.58	90.49	2,283.27	-7,853.88	6,555.86	6,270.82	285.04	23.000		
8,600.00	7,242.92	7,226.92	7,242.92	54.05	250.57	90.48	2,283.27	-7,853.88	6,461.96	6,176.43	285.53	22.632		
8,700.00	7,242.61	7,226.61	7,242.61	56.37	250.56	90.48	2,283.27	-7,853.88	6,368.24	6,082.18	286.06	22.262		
8,800.00	7,242.30	7,226.30	7,242.30	58.74	250.55	90.47	2,283.27	-7,853.88	6,274.72	5,988.07	286.65	21.890		
8,900.00	7,241.99	7,225.99	7,241.99	61.16	250.54	90.46	2,283.27	-7,853.88	6,181.40	5,894.11	287.30	21.516		
9,000.00	7,241.67	7,225.67	7,241.67	63.61	250.52	90.45	2,283.27	-7,853.88	6,088.30	5,800.30	288.00	21.140		
9,100.00	7,241.36	7,225.36	7,241.36	66.09	250.51	90.44	2,283.27	-7,853.88	5,995.42	5,706.66	288.75	20.763		
9,200.00	7,241.05	7,225.05	7,241.05	68.60	250.50	90.44	2,283.27	-7,853.88	5,902.76	5,613.20	289.57	20.385		
9,300.00	7,240.74	7,224.74	7,240.74	71.13	250.49	90.43	2,283.27	-7,853.88	5,810.36	5,519.92	290.44	20.005		
9,400.00	7,240.43	7,224.43	7,240.43	73.70	250.48	90.42	2,283.27	-7,853.88	5,718.21	5,426.82	291.38	19.625		
9,500.00	7,240.11	7,224.11	7,240.11	76.28	250.47	90.41	2,283.27	-7,853.88	5,626.32	5,333.94	292.38	19.243		
9,600.00	7,239.80	7,223.80	7,239.80	78.88	250.46	90.40	2,283.27	-7,853.88	5,534.72	5,241.26	293.46	18.861		
9,700.00	7,239.49	7,223.49	7,239.49	81.50	250.45	90.40	2,283.27	-7,853.88	5,443.41	5,148.82	294.60	18.478		
9,800.00	7,239.18	7,223.18	7,239.18	84.13	250.44	90.39	2,283.27	-7,853.88	5,352.42	5,056.61	295.81	18.094		
9,900.00	7,238.87	7,222.87	7,238.87	86.78	250.43	90.38	2,283.27	-7,853.88	5,261.75	4,964.65	297.09	17.711		
10,000.00	7,238.55	7,222.55	7,238.55	89.44	250.42	90.37	2,283.27	-7,853.88	5,171.42	4,872.97	298.45	17.327		
10,100.00	7,238.24	7,222.24	7,238.24	92.11	250.40	90.36	2,283.27	-7,853.88	5,081.46	4,781.57	299.89	16.944		
10,200.00	7,237.93	7,221.93	7,237.93	94.80	250.39	90.36	2,283.27	-7,853.88	4,991.88	4,690.47	301.41	16.562		
10,300.00	7,237.62	7,221.62	7,237.62	97.49	250.38	90.35	2,283.27	-7,853.88	4,902.70	4,599.68	303.01	16.180		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,221.31	7,237.31	100.19	250.37	90.34	2,283.27	-7,853.88	4,813.95	4,509.24	304.70	15.799		
10,500.00	7,236.99	7,220.99	7,236.99	102.90	250.36	90.33	2,283.27	-7,853.88	4,725.64	4,419.16	306.48	15.419		
10,600.00	7,236.68	7,220.68	7,236.68	105.62	250.35	90.32	2,283.27	-7,853.88	4,637.81	4,329.46	308.35	15.041		
10,700.00	7,236.37	7,220.37	7,236.37	108.35	250.34	90.32	2,283.27	-7,853.88	4,550.49	4,240.17	310.31	14.664		
10,800.00	7,236.06	7,220.06	7,236.06	111.08	250.33	90.31	2,283.27	-7,853.88	4,463.69	4,151.32	312.38	14.290		
10,900.00	7,235.75	7,219.75	7,235.75	113.82	250.32	90.30	2,283.27	-7,853.88	4,377.46	4,062.92	314.54	13.917		
11,000.00	7,235.44	7,219.44	7,235.44	116.56	250.31	90.29	2,283.27	-7,853.88	4,291.83	3,975.02	316.81	13.547		
11,100.00	7,235.12	7,219.12	7,235.12	119.31	250.30	90.28	2,283.27	-7,853.88	4,206.83	3,887.64	319.19	13.180		
11,200.00	7,234.81	7,218.81	7,234.81	122.07	250.29	90.28	2,283.27	-7,853.88	4,122.50	3,800.82	321.68	12.816		
11,300.00	7,234.50	7,218.50	7,234.50	124.83	250.27	90.27	2,283.27	-7,853.88	4,038.89	3,714.61	324.28	12.455		
11,400.00	7,234.19	7,218.19	7,234.19	127.59	250.26	90.26	2,283.27	-7,853.88	3,956.04	3,629.03	327.01	12.098		
11,500.00	7,233.88	7,217.88	7,233.88	130.36	250.25	90.25	2,283.27	-7,853.88	3,874.00	3,544.14	329.86	11.744		
11,600.00	7,233.56	7,217.56	7,233.56	133.13	250.24	90.24	2,283.27	-7,853.88	3,792.82	3,459.98	332.84	11.395		
11,700.00	7,233.25	7,217.25	7,233.25	135.91	250.23	90.24	2,283.27	-7,853.88	3,712.56	3,376.61	335.95	11.051		
11,800.00	7,232.94	7,216.94	7,232.94	138.68	250.22	90.23	2,283.27	-7,853.88	3,633.28	3,294.08	339.19	10.711		
11,900.00	7,232.63	7,216.63	7,232.63	141.47	250.21	90.22	2,283.27	-7,853.88	3,555.04	3,212.46	342.58	10.377		
12,000.00	7,232.32	7,216.32	7,232.32	144.25	250.20	90.21	2,283.27	-7,853.88	3,477.92	3,131.81	346.11	10.049		
12,100.00	7,232.00	7,216.00	7,232.00	147.04	250.19	90.20	2,283.27	-7,853.88	3,401.99	3,052.21	349.79	9.726		
12,200.00	7,231.69	7,215.69	7,231.69	149.83	250.18	90.20	2,283.27	-7,853.88	3,327.34	2,973.73	353.61	9.410		
12,300.00	7,231.38	7,215.38	7,231.38	152.62	250.17	90.19	2,283.27	-7,853.88	3,254.04	2,896.46	357.59	9.100		
12,400.00	7,231.07	7,215.07	7,231.07	155.42	250.15	90.18	2,283.27	-7,853.88	3,182.20	2,820.49	361.71	8.798		
12,500.00	7,230.76	7,214.76	7,230.76	158.22	250.14	90.17	2,283.27	-7,853.88	3,111.92	2,745.92	365.99	8.503		
12,600.00	7,230.44	7,214.44	7,230.44	161.01	250.13	90.16	2,283.27	-7,853.88	3,043.29	2,672.87	370.42	8.216		
12,700.00	7,230.13	7,214.13	7,230.13	163.82	250.12	90.16	2,283.27	-7,853.88	2,976.45	2,601.45	375.00	7.937		
12,800.00	7,229.82	7,213.82	7,229.82	166.62	250.11	90.15	2,283.27	-7,853.88	2,911.51	2,531.78	379.73	7.667		
12,900.00	7,229.51	7,213.51	7,229.51	169.43	250.10	90.14	2,283.27	-7,853.88	2,848.59	2,464.01	384.59	7.407		
13,000.00	7,229.20	7,213.20	7,229.20	172.23	250.09	90.13	2,283.27	-7,853.88	2,787.85	2,398.27	389.58	7.156		
13,100.00	7,228.88	7,212.88	7,228.88	175.04	250.08	90.12	2,283.27	-7,853.88	2,729.41	2,334.73	394.68	6.915		
13,200.00	7,228.57	7,212.57	7,228.57	177.85	250.07	90.12	2,283.27	-7,853.88	2,673.45	2,273.56	399.89	6.685		
13,300.00	7,228.26	7,212.26	7,228.26	180.66	250.06	90.11	2,283.27	-7,853.88	2,620.10	2,214.92	405.18	6.466		
13,400.00	7,227.95	7,211.95	7,227.95	183.48	250.05	90.10	2,283.27	-7,853.88	2,569.54	2,159.01	410.54	6.259		
13,500.00	7,227.64	7,211.64	7,227.64	186.29	250.03	90.09	2,283.27	-7,853.88	2,521.94	2,106.01	415.93	6.063		
13,600.00	7,227.33	7,211.33	7,227.33	189.11	250.02	90.08	2,283.27	-7,853.88	2,477.45	2,056.13	421.32	5.880		
13,700.00	7,227.01	7,211.01	7,227.01	191.92	250.01	90.08	2,283.27	-7,853.88	2,436.26	2,009.57	426.70	5.710		
13,800.00	7,226.70	7,210.70	7,226.70	194.74	250.00	90.07	2,283.27	-7,853.88	2,398.54	1,966.54	432.00	5.552		
13,900.00	7,226.39	7,210.39	7,226.39	197.56	249.99	90.06	2,283.27	-7,853.88	2,364.45	1,927.24	437.21	5.408		
14,000.00	7,226.08	7,210.08	7,226.08	200.38	249.98	90.05	2,283.27	-7,853.88	2,334.14	1,891.88	442.27	5.278		
14,100.00	7,225.77	7,209.77	7,225.77	203.21	249.97	90.04	2,283.27	-7,853.88	2,307.78	1,860.64	447.14	5.161		
14,200.00	7,225.45	7,209.45	7,225.45	206.03	249.96	90.04	2,283.27	-7,853.88	2,285.48	1,833.71	451.77	5.059		
14,300.00	7,225.14	7,209.14	7,225.14	208.85	249.95	90.03	2,283.27	-7,853.88	2,267.39	1,811.26	456.13	4.971		
14,400.00	7,224.83	7,208.83	7,224.83	211.68	249.94	90.02	2,283.27	-7,853.88	2,253.59	1,793.42	460.17	4.897		
14,500.00	7,224.52	7,208.52	7,224.52	214.50	249.93	90.01	2,283.27	-7,853.88	2,244.16	1,780.31	463.85	4.838		
14,600.00	7,224.21	7,208.21	7,224.21	217.33	249.91	90.00	2,283.27	-7,853.88	2,239.17	1,772.02	467.15	4.793		
14,661.95	7,224.01	7,208.01	7,224.01	219.08	249.91	90.00	2,283.27	-7,853.88	2,238.31	1,769.33	468.99	4.773 CC		
14,700.00	7,223.89	7,207.89	7,223.89	220.16	249.90	90.00	2,283.27	-7,853.88	2,238.64	1,768.60	470.03	4.763 ES		
14,800.00	7,223.58	7,207.58	7,223.58	222.98	249.89	89.99	2,283.27	-7,853.88	2,242.57	1,770.08	472.49	4.746		
14,900.00	7,223.27	7,207.27	7,223.27	225.81	249.88	89.98	2,283.27	-7,853.88	2,250.94	1,776.44	474.50	4.744 SF		
14,987.41	7,223.00	7,207.00	7,223.00	228.28	249.87	89.97	2,283.27	-7,853.88	2,261.85	1,785.95	475.90	4.753		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	1.00	0.00	3.28	3.28	-56.54	2,398.86	-3,629.34	4,350.48				
100.00	100.00	101.00	100.00	3.28	3.73	-56.54	2,398.86	-3,629.34	4,350.48	4,343.46	7.02	620.013	
200.00	200.00	201.00	200.00	3.34	6.21	-56.54	2,398.86	-3,629.34	4,350.48	4,340.94	9.55	455.758	
300.00	300.00	301.00	300.00	3.44	9.36	-56.54	2,398.86	-3,629.34	4,350.48	4,337.68	12.80	339.852	
400.00	400.00	401.00	400.00	3.60	12.68	-56.54	2,398.86	-3,629.34	4,350.48	4,334.19	16.29	267.095	
500.00	500.00	501.00	500.00	3.81	16.08	-56.54	2,398.86	-3,629.34	4,350.48	4,330.59	19.89	218.744	
600.00	600.00	601.00	600.00	4.05	19.51	-56.54	2,398.86	-3,629.34	4,350.48	4,326.92	23.56	184.660	
700.00	699.98	700.98	699.98	4.32	22.96	1.46	2,398.86	-3,629.34	4,348.78	4,321.50	27.28	159.432	
800.00	799.94	800.94	799.94	4.61	26.42	1.47	2,398.86	-3,629.34	4,345.81	4,314.78	31.03	140.067	
900.00	899.89	900.89	899.89	4.92	29.89	1.47	2,398.86	-3,629.34	4,342.84	4,308.04	34.81	124.774	
1,000.00	999.85	1,000.85	999.85	5.25	33.36	1.47	2,398.86	-3,629.34	4,339.88	4,301.27	38.61	112.409	
1,100.00	1,099.80	1,100.80	1,099.80	5.60	36.83	1.47	2,398.86	-3,629.34	4,336.91	4,294.48	42.43	102.216	
1,200.00	1,199.76	1,200.76	1,199.76	5.96	40.31	1.47	2,398.86	-3,629.34	4,333.95	4,287.68	46.26	93.678	
1,300.00	1,299.72	1,300.72	1,299.72	6.33	43.79	1.47	2,398.86	-3,629.34	4,330.98	4,280.87	50.11	86.426	
1,400.00	1,399.67	1,400.67	1,399.67	6.71	47.27	1.47	2,398.86	-3,629.34	4,328.01	4,274.04	53.97	80.193	
1,500.00	1,499.63	1,500.63	1,499.63	7.10	50.75	1.47	2,398.86	-3,629.34	4,325.05	4,267.21	57.84	74.781	
1,600.00	1,599.58	1,600.58	1,599.58	7.49	54.23	1.47	2,398.86	-3,629.34	4,322.08	4,260.37	61.71	70.039	
1,700.00	1,699.54	1,700.54	1,699.54	7.88	57.71	1.47	2,398.86	-3,629.34	4,319.12	4,253.53	65.59	65.852	
1,800.00	1,799.50	1,800.50	1,799.50	8.28	61.20	1.48	2,398.86	-3,629.34	4,316.15	4,246.68	69.47	62.127	
1,900.00	1,899.45	1,900.45	1,899.45	8.69	64.68	1.48	2,398.86	-3,629.34	4,313.18	4,239.82	73.36	58.793	
2,000.00	1,999.41	2,000.41	1,999.41	9.10	68.17	1.48	2,398.86	-3,629.34	4,310.22	4,232.96	77.25	55.793	
2,100.00	2,099.36	2,100.36	2,099.36	9.51	71.65	1.48	2,398.86	-3,629.34	4,307.25	4,226.10	81.15	53.078	
2,200.00	2,199.32	2,200.32	2,199.32	9.92	75.14	1.48	2,398.86	-3,629.34	4,304.29	4,219.24	85.05	50.610	
2,300.00	2,299.28	2,300.28	2,299.28	10.34	78.63	1.48	2,398.86	-3,629.34	4,301.32	4,212.37	88.95	48.357	
2,400.00	2,399.23	2,400.23	2,399.23	10.75	82.11	1.48	2,398.86	-3,629.34	4,298.35	4,205.50	92.85	46.292	
2,500.00	2,499.19	2,500.19	2,499.19	11.17	85.60	1.48	2,398.86	-3,629.34	4,295.39	4,198.63	96.76	44.393	
2,600.00	2,599.14	2,600.14	2,599.14	11.60	89.09	1.48	2,398.86	-3,629.34	4,292.42	4,191.76	100.67	42.640	
2,700.00	2,699.10	2,700.10	2,699.10	12.02	92.57	1.48	2,398.86	-3,629.34	4,289.46	4,184.88	104.57	41.018	
2,800.00	2,799.06	2,800.06	2,799.06	12.44	96.06	1.49	2,398.86	-3,629.34	4,286.49	4,178.01	108.48	39.513	
2,900.00	2,899.01	2,900.01	2,899.01	12.87	99.55	1.49	2,398.86	-3,629.34	4,283.52	4,171.13	112.40	38.111	
3,000.00	2,998.97	3,000.03	2,998.97	13.29	103.04	1.49	2,398.86	-3,629.34	4,280.56	4,164.25	116.31	36.803	
3,100.00	3,098.92	3,100.08	3,098.92	13.72	106.53	1.49	2,398.86	-3,629.34	4,277.59	4,157.36	120.23	35.579	
3,200.00	3,198.88	3,200.12	3,198.88	14.14	110.02	1.49	2,398.86	-3,629.34	4,274.63	4,150.48	124.14	34.433	
3,300.00	3,298.84	3,300.16	3,298.84	14.57	113.51	1.49	2,398.86	-3,629.34	4,271.66	4,143.60	128.06	33.356	
3,400.00	3,398.79	3,400.21	3,398.79	15.00	117.00	1.49	2,398.86	-3,629.34	4,268.69	4,136.71	131.98	32.343	
3,500.00	3,498.75	3,500.25	3,498.75	15.43	120.49	1.49	2,398.86	-3,629.34	4,265.73	4,129.83	135.90	31.388	
3,600.00	3,598.70	3,600.30	3,598.70	15.86	123.98	1.49	2,398.86	-3,629.34	4,262.76	4,122.94	139.82	30.487	
3,700.00	3,698.66	3,700.34	3,698.66	16.29	127.48	1.50	2,398.86	-3,629.34	4,259.80	4,116.05	143.74	29.635	
3,800.00	3,798.62	3,800.38	3,798.62	16.72	130.97	1.50	2,398.86	-3,629.34	4,256.83	4,109.16	147.67	28.828	
3,900.00	3,898.57	3,900.43	3,898.57	17.15	134.46	1.50	2,398.86	-3,629.34	4,253.86	4,102.28	151.59	28.062	
4,000.00	3,998.53	4,000.47	3,998.53	17.59	137.95	1.50	2,398.86	-3,629.34	4,250.90	4,095.39	155.51	27.335	
4,100.00	4,098.48	4,100.52	4,098.48	18.02	141.44	1.50	2,398.86	-3,629.34	4,247.93	4,088.50	159.43	26.644	
4,200.00	4,198.44	4,200.56	4,198.44	18.45	144.93	1.50	2,398.86	-3,629.34	4,244.97	4,081.61	163.36	25.986	
4,300.00	4,298.40	4,300.60	4,298.40	18.88	148.43	1.50	2,398.86	-3,629.34	4,242.00	4,074.72	167.28	25.359	
4,400.00	4,398.35	4,400.65	4,398.35	19.32	151.92	1.50	2,398.86	-3,629.34	4,239.03	4,067.83	171.21	24.760	
4,500.00	4,498.31	4,500.69	4,498.31	19.75	155.41	1.50	2,398.86	-3,629.34	4,236.07	4,060.94	175.13	24.188	
4,600.00	4,598.26	4,600.74	4,598.26	20.19	158.90	1.50	2,398.86	-3,629.34	4,233.10	4,054.05	179.05	23.641	
4,700.00	4,698.22	4,700.78	4,698.22	20.62	162.39	1.51	2,398.86	-3,629.34	4,230.14	4,047.16	182.98	23.118	
4,800.00	4,798.18	4,800.82	4,798.18	21.05	165.88	1.51	2,398.86	-3,629.34	4,227.17	4,040.26	186.91	22.617	
4,900.00	4,898.13	4,900.87	4,898.13	21.49	169.38	1.51	2,398.86	-3,629.34	4,224.20	4,033.37	190.83	22.136	
5,000.00	4,998.09	5,000.91	4,998.09	21.92	172.87	1.51	2,398.86	-3,629.34	4,221.24	4,026.48	194.76	21.674	
5,100.00	5,098.04	5,100.96	5,098.04	22.36	176.36	1.51	2,398.86	-3,629.34	4,218.27	4,019.59	198.68	21.231	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,201.00	5,198.00	22.79	179.85	1.51	2,398.86	-3,629.34	4,215.31	4,012.70	202.61	20.805		
5,300.00	5,297.96	5,301.04	5,297.96	23.23	183.34	1.51	2,398.86	-3,629.34	4,212.34	4,005.80	206.54	20.395		
5,400.00	5,397.91	5,401.09	5,397.91	23.67	186.84	1.51	2,398.86	-3,629.34	4,209.37	3,998.91	210.46	20.000		
5,500.00	5,497.87	5,501.13	5,497.87	24.10	190.33	1.51	2,398.86	-3,629.34	4,206.41	3,992.02	214.39	19.620		
5,600.00	5,597.82	5,601.18	5,597.82	24.54	193.82	1.52	2,398.86	-3,629.34	4,203.44	3,985.12	218.32	19.254		
5,700.00	5,697.78	5,701.22	5,697.78	24.97	197.31	1.52	2,398.86	-3,629.34	4,200.48	3,978.23	222.25	18.900		
5,800.00	5,797.74	5,801.26	5,797.74	25.41	200.80	1.52	2,398.86	-3,629.34	4,197.51	3,971.34	226.17	18.559		
5,900.00	5,897.69	5,901.31	5,897.69	25.85	204.30	1.52	2,398.86	-3,629.34	4,194.54	3,964.44	230.10	18.229		
6,000.00	5,997.65	6,001.35	5,997.65	26.28	207.79	1.52	2,398.86	-3,629.34	4,191.58	3,957.55	234.03	17.911		
6,100.00	6,097.60	6,101.40	6,097.60	26.72	211.28	1.52	2,398.86	-3,629.34	4,188.61	3,950.66	237.96	17.602		
6,200.00	6,197.56	6,201.44	6,197.56	27.16	214.77	1.52	2,398.86	-3,629.34	4,185.65	3,943.76	241.89	17.304		
6,300.00	6,297.52	6,301.48	6,297.52	27.59	218.26	1.52	2,398.86	-3,629.34	4,182.68	3,936.87	245.81	17.016		
6,400.00	6,397.47	6,401.53	6,397.47	28.03	221.76	1.52	2,398.86	-3,629.34	4,179.72	3,929.97	249.74	16.736		
6,500.00	6,497.43	6,501.57	6,497.43	28.47	225.25	1.52	2,398.86	-3,629.34	4,176.75	3,923.08	253.67	16.465		
6,600.00	6,597.38	6,601.62	6,597.38	28.90	228.74	1.53	2,398.86	-3,629.34	4,173.78	3,916.18	257.60	16.203		
6,700.00	6,697.08	6,701.92	6,697.08	29.34	232.24	27.69	2,398.86	-3,629.34	4,167.45	3,905.92	261.54	15.934		
6,800.00	6,794.63	6,804.37	6,794.63	29.79	235.82	32.28	2,398.86	-3,629.34	4,148.80	3,883.25	265.55	15.623		
6,900.00	6,887.62	6,888.62	6,887.62	30.24	238.76	35.35	2,398.86	-3,629.34	4,117.83	3,848.91	268.92	15.313		
7,000.00	6,973.77	6,974.77	6,973.77	30.70	241.77	38.90	2,398.86	-3,629.34	4,075.42	3,803.10	272.33	14.965		
7,100.00	7,050.94	7,051.94	7,050.94	31.20	244.46	43.50	2,398.86	-3,629.34	4,022.79	3,747.39	275.40	14.607		
7,200.00	7,117.24	7,118.24	7,117.24	31.77	246.77	49.50	2,398.86	-3,629.34	3,961.43	3,683.34	278.09	14.245		
7,300.00	7,171.03	7,172.03	7,171.03	32.46	248.65	57.19	2,398.86	-3,629.34	3,893.06	3,612.71	280.35	13.887		
7,400.00	7,211.00	7,212.00	7,211.00	33.29	250.05	66.64	2,398.86	-3,629.34	3,819.59	3,537.44	282.15	13.537		
7,500.00	7,236.16	7,237.16	7,236.16	34.29	250.93	77.44	2,398.86	-3,629.34	3,743.03	3,459.54	283.49	13.203		
7,600.00	7,245.89	7,246.89	7,245.89	35.43	251.27	88.67	2,398.86	-3,629.34	3,665.47	3,381.10	284.36	12.890		
7,700.00	7,245.73	7,246.73	7,245.73	36.72	251.26	90.21	2,398.86	-3,629.34	3,588.64	3,303.64	285.00	12.592		
7,800.00	7,245.42	7,246.42	7,245.42	38.18	251.25	90.20	2,398.86	-3,629.34	3,512.97	3,227.21	285.77	12.293		
7,900.00	7,245.10	7,246.10	7,245.10	39.80	251.24	90.20	2,398.86	-3,629.34	3,438.56	3,151.87	286.69	11.994		
8,000.00	7,244.79	7,245.79	7,244.79	41.54	251.23	90.19	2,398.86	-3,629.34	3,365.46	3,077.69	287.77	11.695		
8,100.00	7,244.48	7,245.48	7,244.48	43.41	251.22	90.18	2,398.86	-3,629.34	3,293.79	3,004.77	289.01	11.397		
8,200.00	7,244.17	7,245.17	7,244.17	45.38	251.21	90.17	2,398.86	-3,629.34	3,223.62	2,933.20	290.42	11.100		
8,300.00	7,243.86	7,244.86	7,243.86	47.44	251.19	90.16	2,398.86	-3,629.34	3,155.06	2,863.06	292.00	10.805		
8,400.00	7,243.55	7,244.55	7,243.55	49.58	251.18	90.16	2,398.86	-3,629.34	3,088.21	2,794.47	293.74	10.513		
8,500.00	7,243.23	7,244.23	7,243.23	51.78	251.17	90.15	2,398.86	-3,629.34	3,023.20	2,727.55	295.65	10.226		
8,600.00	7,242.92	7,243.92	7,242.92	54.05	251.16	90.14	2,398.86	-3,629.34	2,960.14	2,662.41	297.72	9.943		
8,700.00	7,242.61	7,243.61	7,242.61	56.37	251.15	90.13	2,398.86	-3,629.34	2,899.16	2,599.20	299.96	9.665		
8,800.00	7,242.30	7,243.30	7,242.30	58.74	251.14	90.13	2,398.86	-3,629.34	2,840.38	2,538.03	302.35	9.394		
8,900.00	7,241.99	7,242.99	7,241.99	61.16	251.13	90.12	2,398.86	-3,629.34	2,783.96	2,479.08	304.89	9.131		
9,000.00	7,241.67	7,242.67	7,241.67	63.61	251.12	90.11	2,398.86	-3,629.34	2,730.04	2,422.48	307.57	8.876		
9,100.00	7,241.36	7,242.36	7,241.36	66.09	251.11	90.10	2,398.86	-3,629.34	2,678.77	2,368.39	310.38	8.631		
9,200.00	7,241.05	7,242.05	7,241.05	68.60	251.10	90.10	2,398.86	-3,629.34	2,630.30	2,316.99	313.31	8.395		
9,300.00	7,240.74	7,241.74	7,240.74	71.13	251.09	90.09	2,398.86	-3,629.34	2,584.80	2,268.45	316.35	8.171		
9,400.00	7,240.43	7,241.43	7,240.43	73.70	251.07	90.08	2,398.86	-3,629.34	2,542.41	2,222.94	319.47	7.958		
9,500.00	7,240.11	7,241.11	7,240.11	76.28	251.06	90.07	2,398.86	-3,629.34	2,503.30	2,180.63	322.67	7.758		
9,600.00	7,239.80	7,240.80	7,239.80	78.88	251.05	90.06	2,398.86	-3,629.34	2,467.63	2,141.70	325.93	7.571		
9,700.00	7,239.49	7,240.49	7,239.49	81.50	251.04	90.06	2,398.86	-3,629.34	2,435.54	2,106.33	329.21	7.398		
9,800.00	7,239.18	7,240.18	7,239.18	84.13	251.03	90.05	2,398.86	-3,629.34	2,407.19	2,074.68	332.51	7.239		
9,900.00	7,238.87	7,239.87	7,238.87	86.78	251.02	90.04	2,398.86	-3,629.34	2,382.69	2,046.90	335.79	7.096		
10,000.00	7,238.55	7,239.55	7,238.55	89.44	251.01	90.03	2,398.86	-3,629.34	2,362.18	2,023.14	339.04	6.967		
10,100.00	7,238.24	7,239.24	7,238.24	92.11	251.00	90.03	2,398.86	-3,629.34	2,345.76	2,003.54	342.22	6.855		
10,200.00	7,237.93	7,238.93	7,237.93	94.80	250.99	90.02	2,398.86	-3,629.34	2,333.51	1,988.19	345.31	6.758		
10,300.00	7,237.62	7,238.62	7,237.62	97.49	250.98	90.01	2,398.86	-3,629.34	2,325.49	1,977.20	348.29	6.677		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	7,238.31	7,237.31	100.19	250.97	90.00	2,398.86	-3,629.34	2,321.77	1,970.63	351.14	6.612		
10,436.63	7,237.19	7,238.19	7,237.19	101.18	250.96	90.00	2,398.86	-3,629.34	2,321.48	1,969.33	352.15	6.592 CC		
10,500.00	7,236.99	7,237.99	7,236.99	102.90	250.95	90.00	2,398.86	-3,629.34	2,322.34	1,968.51	353.83	6.563 ES		
10,600.00	7,236.68	7,237.68	7,236.68	105.62	250.94	89.99	2,398.86	-3,629.34	2,327.22	1,970.86	356.35	6.531		
10,700.00	7,236.37	7,237.37	7,236.37	108.35	250.93	89.98	2,398.86	-3,629.34	2,336.37	1,977.68	358.69	6.514		
10,800.00	7,236.06	7,237.06	7,236.06	111.08	250.92	89.97	2,398.86	-3,629.34	2,349.74	1,988.91	360.84	6.512 SF		
10,900.00	7,235.75	7,236.75	7,235.75	113.82	250.91	89.96	2,398.86	-3,629.34	2,367.27	2,004.49	362.78	6.525		
11,000.00	7,235.44	7,236.44	7,235.44	116.56	250.90	89.96	2,398.86	-3,629.34	2,388.86	2,024.34	364.52	6.553		
11,100.00	7,235.12	7,236.12	7,235.12	119.31	250.89	89.95	2,398.86	-3,629.34	2,414.40	2,048.34	366.06	6.596		
11,200.00	7,234.81	7,235.81	7,234.81	122.07	250.88	89.94	2,398.86	-3,629.34	2,443.77	2,076.36	367.40	6.651		
11,300.00	7,234.50	7,235.50	7,234.50	124.83	250.87	89.93	2,398.86	-3,629.34	2,476.83	2,108.28	368.55	6.720		
11,400.00	7,234.19	7,235.19	7,234.19	127.59	250.86	89.93	2,398.86	-3,629.34	2,513.43	2,143.92	369.51	6.802		
11,500.00	7,233.88	7,234.88	7,233.88	130.36	250.85	89.92	2,398.86	-3,629.34	2,553.43	2,183.13	370.30	6.896		
11,600.00	7,233.56	7,234.56	7,233.56	133.13	250.84	89.91	2,398.86	-3,629.34	2,596.67	2,225.74	370.93	7.000		
11,700.00	7,233.25	7,234.25	7,233.25	135.91	250.82	89.90	2,398.86	-3,629.34	2,642.98	2,271.57	371.41	7.116		
11,800.00	7,232.94	7,233.94	7,232.94	138.68	250.81	89.90	2,398.86	-3,629.34	2,692.22	2,320.47	371.75	7.242		
11,900.00	7,232.63	7,233.63	7,232.63	141.47	250.80	89.89	2,398.86	-3,629.34	2,744.21	2,372.25	371.96	7.378		
12,000.00	7,232.32	7,233.32	7,232.32	144.25	250.79	89.88	2,398.86	-3,629.34	2,798.82	2,426.75	372.07	7.522		
12,100.00	7,232.00	7,233.00	7,232.00	147.04	250.78	89.87	2,398.86	-3,629.34	2,855.88	2,483.81	372.07	7.676		
12,200.00	7,231.69	7,232.69	7,231.69	149.83	250.77	89.86	2,398.86	-3,629.34	2,915.26	2,543.27	371.99	7.837		
12,300.00	7,231.38	7,232.38	7,231.38	152.62	250.76	89.86	2,398.86	-3,629.34	2,976.81	2,604.99	371.82	8.006		
12,400.00	7,231.07	7,232.07	7,231.07	155.42	250.75	89.85	2,398.86	-3,629.34	3,040.40	2,668.81	371.59	8.182		
12,500.00	7,230.76	7,231.76	7,230.76	158.22	250.74	89.84	2,398.86	-3,629.34	3,105.92	2,734.62	371.30	8.365		
12,600.00	7,230.44	7,231.44	7,230.44	161.01	250.73	89.83	2,398.86	-3,629.34	3,173.23	2,802.27	370.96	8.554		
12,700.00	7,230.13	7,231.13	7,230.13	163.82	250.72	89.83	2,398.86	-3,629.34	3,242.23	2,871.65	370.58	8.749		
12,800.00	7,229.82	7,230.82	7,229.82	166.62	250.70	89.82	2,398.86	-3,629.34	3,312.81	2,942.65	370.16	8.950		
12,900.00	7,229.51	7,230.51	7,229.51	169.43	250.69	89.81	2,398.86	-3,629.34	3,384.88	3,015.17	369.71	9.155		
13,000.00	7,229.20	7,230.20	7,229.20	172.23	250.68	89.80	2,398.86	-3,629.34	3,458.33	3,089.09	369.24	9.366		
13,100.00	7,228.88	7,229.88	7,228.88	175.04	250.67	89.79	2,398.86	-3,629.34	3,533.09	3,164.34	368.75	9.581		
13,200.00	7,228.57	7,229.57	7,228.57	177.85	250.66	89.79	2,398.86	-3,629.34	3,609.07	3,240.83	368.24	9.801		
13,300.00	7,228.26	7,229.26	7,228.26	180.66	250.65	89.78	2,398.86	-3,629.34	3,686.20	3,318.48	367.72	10.024		
13,400.00	7,227.95	7,228.95	7,227.95	183.48	250.64	89.77	2,398.86	-3,629.34	3,764.41	3,397.21	367.20	10.252		
13,500.00	7,227.64	7,228.64	7,227.64	186.29	250.63	89.76	2,398.86	-3,629.34	3,843.62	3,476.96	366.67	10.483		
13,600.00	7,227.33	7,228.33	7,227.33	189.11	250.62	89.76	2,398.86	-3,629.34	3,923.79	3,557.65	366.13	10.717		
13,700.00	7,227.01	7,228.01	7,227.01	191.92	250.61	89.75	2,398.86	-3,629.34	4,004.84	3,639.25	365.60	10.954		
13,800.00	7,226.70	7,227.70	7,226.70	194.74	250.60	89.74	2,398.86	-3,629.34	4,086.74	3,721.68	365.06	11.195		
13,900.00	7,226.39	7,227.39	7,226.39	197.56	250.58	89.73	2,398.86	-3,629.34	4,169.42	3,804.89	364.53	11.438		
14,000.00	7,226.08	7,227.08	7,226.08	200.38	250.57	89.73	2,398.86	-3,629.34	4,252.85	3,888.85	364.00	11.684		
14,100.00	7,225.77	7,226.77	7,225.77	203.21	250.56	89.72	2,398.86	-3,629.34	4,336.98	3,973.51	363.48	11.932		
14,200.00	7,225.45	7,226.45	7,225.45	206.03	250.55	89.71	2,398.86	-3,629.34	4,421.78	4,058.81	362.96	12.182		
14,300.00	7,225.14	7,226.14	7,225.14	208.85	250.54	89.70	2,398.86	-3,629.34	4,507.19	4,144.74	362.45	12.435		
14,400.00	7,224.83	7,225.83	7,224.83	211.68	250.53	89.69	2,398.86	-3,629.34	4,593.19	4,231.24	361.95	12.690		
14,500.00	7,224.52	7,225.52	7,224.52	214.50	250.52	89.69	2,398.86	-3,629.34	4,679.75	4,318.30	361.46	12.947		
14,600.00	7,224.21	7,225.21	7,224.21	217.33	250.51	89.68	2,398.86	-3,629.34	4,766.84	4,405.87	360.97	13.206		
14,700.00	7,223.89	7,224.89	7,223.89	220.16	250.50	89.67	2,398.86	-3,629.34	4,854.42	4,493.93	360.49	13.466		
14,800.00	7,223.58	7,224.58	7,223.58	222.98	250.49	89.66	2,398.86	-3,629.34	4,942.48	4,582.46	360.02	13.728		
14,900.00	7,223.27	7,224.27	7,223.27	225.81	250.48	89.66	2,398.86	-3,629.34	5,030.98	4,671.42	359.56	13.992		
14,987.41	7,223.00	7,224.00	7,223.00	228.28	250.47	89.65	2,398.86	-3,629.34	5,108.69	4,749.52	359.17	14.224		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	39.00	3.28	3.28	-63.93	2,369.93	-4,844.69	5,393.43				
100.00	100.00	61.00	100.00	3.28	3.45	-63.93	2,369.93	-4,844.69	5,393.29	5,386.56	6.73	800.998	
200.00	200.00	161.00	200.00	3.34	5.08	-63.93	2,369.93	-4,844.69	5,393.29	5,384.88	8.41	641.002	
300.00	300.00	261.00	300.00	3.44	8.06	-63.93	2,369.93	-4,844.69	5,393.29	5,381.78	11.51	468.648	
400.00	400.00	361.00	400.00	3.60	11.34	-63.93	2,369.93	-4,844.69	5,393.29	5,378.35	14.94	360.876	
500.00	500.00	461.00	500.00	3.81	14.72	-63.93	2,369.93	-4,844.69	5,393.29	5,374.77	18.52	291.149	
600.00	600.00	561.00	600.00	4.05	18.14	-63.93	2,369.93	-4,844.69	5,393.29	5,371.11	22.18	243.113	
700.00	699.98	660.98	699.98	4.32	21.58	-5.94	2,369.93	-4,844.69	5,391.60	5,365.70	25.90	208.207	
800.00	799.94	760.94	799.94	4.61	25.03	-5.94	2,369.93	-4,844.69	5,388.65	5,359.00	29.64	181.795	
900.00	899.89	860.89	899.89	4.92	28.50	-5.94	2,369.93	-4,844.69	5,385.69	5,352.28	33.42	161.162	
1,000.00	999.85	960.85	999.85	5.25	31.97	-5.95	2,369.93	-4,844.69	5,382.74	5,345.52	37.22	144.627	
1,100.00	1,099.80	1,060.80	1,099.80	5.60	35.44	-5.95	2,369.93	-4,844.69	5,379.79	5,338.75	41.04	131.095	
1,200.00	1,199.76	1,160.76	1,199.76	5.96	38.92	-5.95	2,369.93	-4,844.69	5,376.84	5,331.97	44.87	119.827	
1,300.00	1,299.72	1,260.72	1,299.72	6.33	42.39	-5.96	2,369.93	-4,844.69	5,373.89	5,325.17	48.72	110.304	
1,400.00	1,399.67	1,360.67	1,399.67	6.71	45.87	-5.96	2,369.93	-4,844.69	5,370.94	5,318.36	52.58	102.156	
1,500.00	1,499.63	1,460.63	1,499.63	7.10	49.35	-5.96	2,369.93	-4,844.69	5,367.99	5,311.55	56.44	95.107	
1,600.00	1,599.58	1,560.58	1,599.58	7.49	52.84	-5.97	2,369.93	-4,844.69	5,365.04	5,304.72	60.31	88.952	
1,700.00	1,699.54	1,660.54	1,699.54	7.88	56.32	-5.97	2,369.93	-4,844.69	5,362.09	5,297.89	64.19	83.531	
1,800.00	1,799.50	1,760.50	1,799.50	8.28	59.80	-5.97	2,369.93	-4,844.69	5,359.14	5,291.06	68.08	78.722	
1,900.00	1,899.45	1,860.45	1,899.45	8.69	63.29	-5.98	2,369.93	-4,844.69	5,356.18	5,284.22	71.97	74.428	
2,000.00	1,999.41	1,960.41	1,999.41	9.10	66.77	-5.98	2,369.93	-4,844.69	5,353.23	5,277.38	75.86	70.570	
2,100.00	2,099.36	2,060.36	2,099.36	9.51	70.26	-5.98	2,369.93	-4,844.69	5,350.28	5,270.53	79.75	67.086	
2,200.00	2,199.32	2,160.32	2,199.32	9.92	73.74	-5.99	2,369.93	-4,844.69	5,347.33	5,263.68	83.65	63.924	
2,300.00	2,299.28	2,260.28	2,299.28	10.34	77.23	-5.99	2,369.93	-4,844.69	5,344.38	5,256.83	87.55	61.043	
2,400.00	2,399.23	2,360.23	2,399.23	10.75	80.72	-5.99	2,369.93	-4,844.69	5,341.43	5,249.98	91.45	58.405	
2,500.00	2,499.19	2,460.19	2,499.19	11.17	84.20	-6.00	2,369.93	-4,844.69	5,338.48	5,243.12	95.36	55.983	
2,600.00	2,599.14	2,560.14	2,599.14	11.60	87.69	-6.00	2,369.93	-4,844.69	5,335.53	5,236.26	99.27	53.749	
2,700.00	2,699.10	2,660.10	2,699.10	12.02	91.18	-6.00	2,369.93	-4,844.69	5,332.58	5,229.40	103.17	51.685	
2,800.00	2,799.06	2,760.06	2,799.06	12.44	94.67	-6.01	2,369.93	-4,844.69	5,329.63	5,222.54	107.08	49.770	
2,900.00	2,899.01	2,860.01	2,899.01	12.87	98.15	-6.01	2,369.93	-4,844.69	5,326.68	5,215.68	111.00	47.990	
3,000.00	2,998.97	2,959.97	2,998.97	13.29	101.64	-6.01	2,369.93	-4,844.69	5,323.73	5,208.82	114.91	46.330	
3,100.00	3,098.92	3,059.92	3,098.92	13.72	105.13	-6.02	2,369.93	-4,844.69	5,320.78	5,201.95	118.82	44.780	
3,200.00	3,198.88	3,159.88	3,198.88	14.14	108.62	-6.02	2,369.93	-4,844.69	5,317.82	5,195.09	122.74	43.327	
3,300.00	3,298.84	3,259.84	3,298.84	14.57	112.10	-6.02	2,369.93	-4,844.69	5,314.87	5,188.22	126.65	41.965	
3,400.00	3,398.79	3,359.79	3,398.79	15.00	115.59	-6.03	2,369.93	-4,844.69	5,311.92	5,181.36	130.57	40.684	
3,500.00	3,498.75	3,459.75	3,498.75	15.43	119.08	-6.03	2,369.93	-4,844.69	5,308.97	5,174.49	134.48	39.477	
3,600.00	3,598.70	3,559.70	3,598.70	15.86	122.57	-6.03	2,369.93	-4,844.69	5,306.02	5,167.62	138.40	38.338	
3,700.00	3,698.66	3,659.66	3,698.66	16.29	126.06	-6.04	2,369.93	-4,844.69	5,303.07	5,160.75	142.32	37.262	
3,800.00	3,798.62	3,759.62	3,798.62	16.72	129.54	-6.04	2,369.93	-4,844.69	5,300.12	5,153.88	146.24	36.243	
3,900.00	3,898.57	3,859.57	3,898.57	17.15	133.03	-6.04	2,369.93	-4,844.69	5,297.17	5,147.02	150.16	35.278	
4,000.00	3,998.53	3,959.53	3,998.53	17.59	136.52	-6.05	2,369.93	-4,844.69	5,294.22	5,140.15	154.08	34.361	
4,100.00	4,098.48	4,059.48	4,098.48	18.02	140.01	-6.05	2,369.93	-4,844.69	5,291.27	5,133.28	157.99	33.490	
4,200.00	4,198.44	4,159.44	4,198.44	18.45	143.50	-6.05	2,369.93	-4,844.69	5,288.32	5,126.40	161.92	32.661	
4,300.00	4,298.40	4,259.40	4,298.40	18.88	146.99	-6.06	2,369.93	-4,844.69	5,285.37	5,119.53	165.84	31.871	
4,400.00	4,398.35	4,359.35	4,398.35	19.32	150.48	-6.06	2,369.93	-4,844.69	5,282.42	5,112.66	169.76	31.118	
4,500.00	4,498.31	4,459.31	4,498.31	19.75	153.96	-6.06	2,369.93	-4,844.69	5,279.47	5,105.79	173.68	30.398	
4,600.00	4,598.26	4,559.26	4,598.26	20.19	157.45	-6.07	2,369.93	-4,844.69	5,276.52	5,098.92	177.60	29.710	
4,700.00	4,698.22	4,659.22	4,698.22	20.62	160.94	-6.07	2,369.93	-4,844.69	5,273.57	5,092.05	181.52	29.052	
4,800.00	4,798.18	4,759.18	4,798.18	21.05	164.43	-6.07	2,369.93	-4,844.69	5,270.62	5,085.17	185.44	28.422	
4,900.00	4,898.13	4,859.13	4,898.13	21.49	167.92	-6.08	2,369.93	-4,844.69	5,267.67	5,078.30	189.37	27.817	
5,000.00	4,998.09	4,959.09	4,998.09	21.92	171.41	-6.08	2,369.93	-4,844.69	5,264.72	5,071.43	193.29	27.237	
5,100.00	5,098.04	5,059.04	5,098.04	22.36	174.90	-6.08	2,369.93	-4,844.69	5,261.77	5,064.55	197.21	26.681	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,159.00	5,198.00	22.79	178.39	-6.09	2,369.93	-4,844.69	5,258.82	5,057.68	201.14	26.146		
5,300.00	5,297.96	5,258.96	5,297.96	23.23	181.87	-6.09	2,369.93	-4,844.69	5,255.87	5,050.81	205.06	25.631		
5,400.00	5,397.91	5,358.91	5,397.91	23.67	185.36	-6.09	2,369.93	-4,844.69	5,252.92	5,043.93	208.98	25.136		
5,500.00	5,497.87	5,458.87	5,497.87	24.10	188.85	-6.10	2,369.93	-4,844.69	5,249.97	5,037.06	212.91	24.658		
5,600.00	5,597.82	5,558.82	5,597.82	24.54	192.34	-6.10	2,369.93	-4,844.69	5,247.02	5,030.18	216.83	24.199		
5,700.00	5,697.78	5,658.78	5,697.78	24.97	195.83	-6.11	2,369.93	-4,844.69	5,244.07	5,023.31	220.76	23.755		
5,800.00	5,797.74	5,758.74	5,797.74	25.41	199.32	-6.11	2,369.93	-4,844.69	5,241.11	5,016.44	224.68	23.327		
5,900.00	5,897.69	5,858.69	5,897.69	25.85	202.81	-6.11	2,369.93	-4,844.69	5,238.16	5,009.56	228.60	22.914		
6,000.00	5,997.65	5,958.65	5,997.65	26.28	206.30	-6.12	2,369.93	-4,844.69	5,235.21	5,002.69	232.53	22.514		
6,100.00	6,097.60	6,058.60	6,097.60	26.72	209.79	-6.12	2,369.93	-4,844.69	5,232.26	4,995.81	236.45	22.128		
6,200.00	6,197.56	6,158.56	6,197.56	27.16	213.28	-6.12	2,369.93	-4,844.69	5,229.31	4,988.94	240.38	21.755		
6,300.00	6,297.52	6,258.52	6,297.52	27.59	216.76	-6.13	2,369.93	-4,844.69	5,226.36	4,982.06	244.30	21.393		
6,400.00	6,397.47	6,358.47	6,397.47	28.03	220.25	-6.13	2,369.93	-4,844.69	5,223.41	4,975.19	248.23	21.043		
6,500.00	6,497.43	6,458.43	6,497.43	28.47	223.74	-6.13	2,369.93	-4,844.69	5,220.46	4,968.31	252.15	20.704		
6,600.00	6,597.38	6,558.38	6,597.38	28.90	227.23	-6.14	2,369.93	-4,844.69	5,217.51	4,961.44	256.08	20.375		
6,700.00	6,697.08	6,658.08	6,697.08	29.34	230.71	19.96	2,369.93	-4,844.69	5,210.93	4,950.93	260.00	20.042		
6,800.00	6,794.63	6,755.63	6,794.63	29.79	234.12	24.35	2,369.93	-4,844.69	5,191.00	4,927.16	263.84	19.675		
6,900.00	6,887.62	6,848.62	6,887.62	30.24	237.36	27.08	2,369.93	-4,844.69	5,157.70	4,890.20	267.50	19.281		
7,000.00	6,973.77	6,934.77	6,973.77	30.70	240.37	30.20	2,369.93	-4,844.69	5,111.90	4,841.00	270.90	18.870		
7,100.00	7,050.94	7,011.94	7,050.94	31.20	243.06	34.31	2,369.93	-4,844.69	5,054.82	4,780.87	273.95	18.451		
7,200.00	7,117.24	7,078.24	7,117.24	31.77	245.38	39.98	2,369.93	-4,844.69	4,987.95	4,711.35	276.60	18.033		
7,300.00	7,171.03	7,132.03	7,171.03	32.46	247.26	47.83	2,369.93	-4,844.69	4,913.05	4,634.26	278.78	17.623		
7,400.00	7,211.00	7,172.00	7,211.00	33.29	248.65	58.56	2,369.93	-4,844.69	4,832.06	4,551.58	280.48	17.228		
7,500.00	7,236.16	7,202.84	7,236.16	34.29	249.73	72.36	2,369.93	-4,844.69	4,747.09	4,465.23	281.86	16.842		
7,600.00	7,245.89	7,206.89	7,245.89	35.43	249.87	88.08	2,369.93	-4,844.69	4,660.31	4,377.97	282.34	16.506		
7,700.00	7,245.73	7,206.73	7,245.73	36.72	249.86	90.31	2,369.93	-4,844.69	4,573.63	4,290.91	282.72	16.177		
7,800.00	7,245.42	7,206.42	7,245.42	38.18	249.85	90.30	2,369.93	-4,844.69	4,487.50	4,204.31	283.19	15.846		
7,900.00	7,245.10	7,206.10	7,245.10	39.80	249.84	90.29	2,369.93	-4,844.69	4,401.96	4,118.21	283.75	15.513		
8,000.00	7,244.79	7,205.79	7,244.79	41.54	249.83	90.28	2,369.93	-4,844.69	4,317.04	4,032.62	284.42	15.179		
8,100.00	7,244.48	7,205.48	7,244.48	43.41	249.82	90.28	2,369.93	-4,844.69	4,232.78	3,947.59	285.19	14.842		
8,200.00	7,244.17	7,205.17	7,244.17	45.38	249.81	90.27	2,369.93	-4,844.69	4,149.21	3,863.14	286.07	14.504		
8,300.00	7,243.86	7,204.86	7,243.86	47.44	249.80	90.26	2,369.93	-4,844.69	4,066.39	3,779.33	287.06	14.165		
8,400.00	7,243.55	7,204.55	7,243.55	49.58	249.79	90.25	2,369.93	-4,844.69	3,984.36	3,696.18	288.18	13.826		
8,500.00	7,243.23	7,204.23	7,243.23	51.78	249.78	90.24	2,369.93	-4,844.69	3,903.16	3,613.74	289.42	13.486		
8,600.00	7,242.92	7,203.92	7,242.92	54.05	249.77	90.24	2,369.93	-4,844.69	3,822.86	3,532.07	290.79	13.146		
8,700.00	7,242.61	7,203.61	7,242.61	56.37	249.75	90.23	2,369.93	-4,844.69	3,743.50	3,451.21	292.29	12.807		
8,800.00	7,242.30	7,203.30	7,242.30	58.74	249.74	90.22	2,369.93	-4,844.69	3,665.16	3,371.23	293.93	12.470		
8,900.00	7,241.99	7,202.99	7,241.99	61.16	249.73	90.21	2,369.93	-4,844.69	3,587.89	3,292.19	295.70	12.134		
9,000.00	7,241.67	7,202.67	7,241.67	63.61	249.72	90.21	2,369.93	-4,844.69	3,511.77	3,214.16	297.61	11.800		
9,100.00	7,241.36	7,202.36	7,241.36	66.09	249.71	90.20	2,369.93	-4,844.69	3,436.88	3,137.22	299.66	11.469		
9,200.00	7,241.05	7,202.05	7,241.05	68.60	249.70	90.19	2,369.93	-4,844.69	3,363.28	3,061.44	301.84	11.142		
9,300.00	7,240.74	7,201.74	7,240.74	71.13	249.69	90.18	2,369.93	-4,844.69	3,291.09	2,986.91	304.18	10.820		
9,400.00	7,240.43	7,201.43	7,240.43	73.70	249.68	90.17	2,369.93	-4,844.69	3,220.38	2,913.72	306.65	10.502		
9,500.00	7,240.11	7,201.11	7,240.11	76.28	249.67	90.17	2,369.93	-4,844.69	3,151.25	2,841.98	309.27	10.189		
9,600.00	7,239.80	7,200.80	7,239.80	78.88	249.66	90.16	2,369.93	-4,844.69	3,083.82	2,771.80	312.03	9.883		
9,700.00	7,239.49	7,200.49	7,239.49	81.50	249.65	90.15	2,369.93	-4,844.69	3,018.20	2,703.27	314.93	9.584		
9,800.00	7,239.18	7,200.18	7,239.18	84.13	249.63	90.14	2,369.93	-4,844.69	2,954.51	2,636.54	317.96	9.292		
9,900.00	7,238.87	7,200.13	7,238.87	86.78	249.63	90.14	2,369.93	-4,844.69	2,892.87	2,571.72	321.14	9.008		
10,000.00	7,238.55	7,200.45	7,238.55	89.44	249.64	90.13	2,369.93	-4,844.69	2,833.42	2,508.95	324.46	8.733		
10,100.00	7,238.24	7,200.76	7,238.24	92.11	249.65	90.12	2,369.93	-4,844.69	2,776.30	2,448.39	327.91	8.467		
10,200.00	7,237.93	7,201.07	7,237.93	94.80	249.67	90.11	2,369.93	-4,844.69	2,721.65	2,390.19	331.46	8.211		
10,300.00	7,237.62	7,201.38	7,237.62	97.49	249.68	90.10	2,369.93	-4,844.69	2,669.64	2,334.52	335.11	7.966		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	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	7,237.31	7,201.69	7,237.31	100.19	249.69	90.10	2,369.93	-4,844.69	2,620.40	2,281.55	338.86	7.733		
10,500.00	7,236.99	7,202.01	7,236.99	102.90	249.70	90.09	2,369.93	-4,844.69	2,574.12	2,231.44	342.68	7.512		
10,600.00	7,236.68	7,202.32	7,236.68	105.62	249.71	90.08	2,369.93	-4,844.69	2,530.94	2,184.39	346.55	7.303		
10,700.00	7,236.37	7,202.63	7,236.37	108.35	249.72	90.07	2,369.93	-4,844.69	2,491.03	2,140.57	350.46	7.108		
10,800.00	7,236.06	7,202.94	7,236.06	111.08	249.73	90.07	2,369.93	-4,844.69	2,454.55	2,100.17	354.37	6.926		
10,900.00	7,235.75	7,203.25	7,235.75	113.82	249.74	90.06	2,369.93	-4,844.69	2,421.64	2,063.36	358.28	6.759		
11,000.00	7,235.44	7,203.56	7,235.44	116.56	249.75	90.05	2,369.93	-4,844.69	2,392.47	2,030.33	362.15	6.606		
11,100.00	7,235.12	7,203.88	7,235.12	119.31	249.76	90.04	2,369.93	-4,844.69	2,367.17	2,001.23	365.94	6.469		
11,200.00	7,234.81	7,204.19	7,234.81	122.07	249.77	90.04	2,369.93	-4,844.69	2,345.86	1,976.22	369.64	6.346		
11,300.00	7,234.50	7,204.50	7,234.50	124.83	249.79	90.03	2,369.93	-4,844.69	2,328.66	1,955.44	373.22	6.239		
11,400.00	7,234.19	7,204.81	7,234.19	127.59	249.80	90.02	2,369.93	-4,844.69	2,315.64	1,939.01	376.64	6.148		
11,500.00	7,233.88	7,205.12	7,233.88	130.36	249.81	90.01	2,369.93	-4,844.69	2,306.90	1,927.02	379.87	6.073		
11,600.00	7,233.56	7,205.44	7,233.56	133.13	249.82	90.00	2,369.93	-4,844.69	2,302.46	1,919.56	382.91	6.013		
11,652.17	7,233.40	7,205.60	7,233.40	134.58	249.82	90.00	2,369.93	-4,844.69	2,301.87	1,917.47	384.40	5.988 CC		
11,700.00	7,233.25	7,205.75	7,233.25	135.91	249.83	90.00	2,369.93	-4,844.69	2,302.37	1,916.65	385.72	5.969 ES		
11,800.00	7,232.94	7,206.06	7,232.94	138.68	249.84	89.99	2,369.93	-4,844.69	2,306.61	1,918.33	388.28	5.941		
11,900.00	7,232.63	7,206.37	7,232.63	141.47	249.85	89.98	2,369.93	-4,844.69	2,315.17	1,924.58	390.59	5.927 SF		
12,000.00	7,232.32	7,206.68	7,232.32	144.25	249.86	89.97	2,369.93	-4,844.69	2,328.00	1,935.37	392.64	5.929		
12,100.00	7,232.00	7,207.00	7,232.00	147.04	249.87	89.97	2,369.93	-4,844.69	2,345.03	1,950.61	394.42	5.946		
12,200.00	7,231.69	7,207.31	7,231.69	149.83	249.88	89.96	2,369.93	-4,844.69	2,366.16	1,970.23	395.93	5.976		
12,300.00	7,231.38	7,207.62	7,231.38	152.62	249.89	89.95	2,369.93	-4,844.69	2,391.30	1,994.10	397.19	6.021		
12,400.00	7,231.07	7,207.93	7,231.07	155.42	249.91	89.94	2,369.93	-4,844.69	2,420.30	2,022.11	398.20	6.078		
12,500.00	7,230.76	7,208.24	7,230.76	158.22	249.92	89.93	2,369.93	-4,844.69	2,453.04	2,054.08	398.96	6.149		
12,600.00	7,230.44	7,208.56	7,230.44	161.01	249.93	89.93	2,369.93	-4,844.69	2,489.38	2,089.87	399.51	6.231		
12,700.00	7,230.13	7,208.87	7,230.13	163.82	249.94	89.92	2,369.93	-4,844.69	2,529.14	2,129.30	399.84	6.325		
12,800.00	7,229.82	7,209.18	7,229.82	166.62	249.95	89.91	2,369.93	-4,844.69	2,572.18	2,172.20	399.98	6.431		
12,900.00	7,229.51	7,209.49	7,229.51	169.43	249.96	89.90	2,369.93	-4,844.69	2,618.34	2,218.38	399.95	6.547		
13,000.00	7,229.20	7,209.80	7,229.20	172.23	249.97	89.90	2,369.93	-4,844.69	2,667.44	2,267.67	399.77	6.672		
13,100.00	7,228.88	7,189.88	7,228.88	175.04	249.28	89.89	2,369.93	-4,844.69	2,719.34	2,320.60	398.74	6.820		
13,200.00	7,228.57	7,189.57	7,228.57	177.85	249.26	89.88	2,369.93	-4,844.69	2,773.87	2,375.60	398.27	6.965		
13,300.00	7,228.26	7,189.26	7,228.26	180.66	249.25	89.87	2,369.93	-4,844.69	2,830.89	2,433.19	397.70	7.118		
13,400.00	7,227.95	7,188.95	7,227.95	183.48	249.24	89.86	2,369.93	-4,844.69	2,890.24	2,493.20	397.04	7.279		
13,500.00	7,227.64	7,188.64	7,227.64	186.29	249.23	89.86	2,369.93	-4,844.69	2,951.79	2,555.49	396.30	7.448		
13,600.00	7,227.33	7,188.33	7,227.33	189.11	249.22	89.85	2,369.93	-4,844.69	3,015.40	2,619.90	395.50	7.624		
13,700.00	7,227.01	7,188.01	7,227.01	191.92	249.21	89.84	2,369.93	-4,844.69	3,080.94	2,686.29	394.65	7.807		
13,800.00	7,226.70	7,187.70	7,226.70	194.74	249.20	89.83	2,369.93	-4,844.69	3,148.29	2,754.54	393.75	7.996		
13,900.00	7,226.39	7,187.39	7,226.39	197.56	249.19	89.83	2,369.93	-4,844.69	3,217.35	2,824.52	392.83	8.190		
14,000.00	7,226.08	7,187.08	7,226.08	200.38	249.18	89.82	2,369.93	-4,844.69	3,287.99	2,896.12	391.87	8.390		
14,100.00	7,225.77	7,186.77	7,225.77	203.21	249.17	89.81	2,369.93	-4,844.69	3,360.12	2,969.22	390.90	8.596		
14,200.00	7,225.45	7,186.45	7,225.45	206.03	249.16	89.80	2,369.93	-4,844.69	3,433.66	3,043.74	389.92	8.806		
14,300.00	7,225.14	7,186.14	7,225.14	208.85	249.14	89.79	2,369.93	-4,844.69	3,508.50	3,119.57	388.93	9.021		
14,400.00	7,224.83	7,185.83	7,224.83	211.68	249.13	89.79	2,369.93	-4,844.69	3,584.57	3,196.63	387.94	9.240		
14,500.00	7,224.52	7,185.52	7,224.52	214.50	249.12	89.78	2,369.93	-4,844.69	3,661.79	3,274.84	386.95	9.463		
14,600.00	7,224.21	7,185.21	7,224.21	217.33	249.11	89.77	2,369.93	-4,844.69	3,740.09	3,354.12	385.97	9.690		
14,700.00	7,223.89	7,184.89	7,223.89	220.16	249.10	89.76	2,369.93	-4,844.69	3,819.40	3,434.41	384.99	9.921		
14,800.00	7,223.58	7,184.58	7,223.58	222.98	249.09	89.76	2,369.93	-4,844.69	3,899.66	3,515.64	384.03	10.155		
14,900.00	7,223.27	7,184.27	7,223.27	225.81	249.08	89.75	2,369.93	-4,844.69	3,980.82	3,597.75	383.07	10.392		
14,987.41	7,223.00	7,184.00	7,223.00	228.28	249.07	89.74	2,369.93	-4,844.69	4,052.45	3,670.20	382.25	10.601		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	66.00	3.28	3.28	-123.80	-4,251.70	-6,351.81	7,643.75				
100.00	100.00	34.00	100.00	3.28	3.33	-123.80	-4,251.70	-6,351.81	7,643.46	7,636.84	6.62	1,154.954	
200.00	200.00	134.00	200.00	3.34	4.40	-123.80	-4,251.70	-6,351.81	7,643.46	7,635.73	7.74	987.941	
300.00	300.00	234.00	300.00	3.44	7.21	-123.80	-4,251.70	-6,351.81	7,643.46	7,632.80	10.66	717.203	
400.00	400.00	334.00	400.00	3.60	10.44	-123.80	-4,251.70	-6,351.81	7,643.46	7,629.42	14.05	544.164	
500.00	500.00	434.00	500.00	3.81	13.80	-123.80	-4,251.70	-6,351.81	7,643.46	7,625.86	17.61	434.118	
600.00	600.00	534.00	600.00	4.05	17.21	-123.80	-4,251.70	-6,351.81	7,643.46	7,622.20	21.26	359.554	
700.00	699.98	633.98	699.98	4.32	20.65	-65.82	-4,251.70	-6,351.81	7,642.76	7,617.80	24.96	306.158	
800.00	799.94	733.94	799.94	4.61	24.10	-65.84	-4,251.70	-6,351.81	7,641.55	7,612.84	28.71	266.193	
900.00	899.89	833.89	899.89	4.92	27.56	-65.86	-4,251.70	-6,351.81	7,640.33	7,607.85	32.48	235.221	
1,000.00	999.85	933.85	999.85	5.25	31.03	-65.88	-4,251.70	-6,351.81	7,639.12	7,602.84	36.28	210.556	
1,100.00	1,099.80	1,033.80	1,099.80	5.60	34.50	-65.90	-4,251.70	-6,351.81	7,637.91	7,597.81	40.10	190.476	
1,200.00	1,199.76	1,133.76	1,199.76	5.96	37.98	-65.92	-4,251.70	-6,351.81	7,636.70	7,592.76	43.93	173.827	
1,300.00	1,299.72	1,233.72	1,299.72	6.33	41.45	-65.94	-4,251.70	-6,351.81	7,635.49	7,587.71	47.78	159.808	
1,400.00	1,399.67	1,333.67	1,399.67	6.71	44.93	-65.96	-4,251.70	-6,351.81	7,634.28	7,582.64	51.64	147.849	
1,500.00	1,499.63	1,433.63	1,499.63	7.10	48.41	-65.98	-4,251.70	-6,351.81	7,633.07	7,577.57	55.50	137.531	
1,600.00	1,599.58	1,533.58	1,599.58	7.49	51.90	-66.00	-4,251.70	-6,351.81	7,631.86	7,572.49	59.37	128.541	
1,700.00	1,699.54	1,633.54	1,699.54	7.88	55.38	-66.02	-4,251.70	-6,351.81	7,630.65	7,567.40	63.25	120.640	
1,800.00	1,799.50	1,733.50	1,799.50	8.28	58.86	-66.04	-4,251.70	-6,351.81	7,629.45	7,562.31	67.13	113.643	
1,900.00	1,899.45	1,833.45	1,899.45	8.69	62.35	-66.06	-4,251.70	-6,351.81	7,628.24	7,557.22	71.02	107.405	
2,000.00	1,999.41	1,933.41	1,999.41	9.10	65.83	-66.08	-4,251.70	-6,351.81	7,627.04	7,552.12	74.91	101.810	
2,100.00	2,099.36	2,033.36	2,099.36	9.51	69.32	-66.10	-4,251.70	-6,351.81	7,625.84	7,547.03	78.81	96.763	
2,200.00	2,199.32	2,133.32	2,199.32	9.92	72.80	-66.12	-4,251.70	-6,351.81	7,624.63	7,541.93	82.71	92.188	
2,300.00	2,299.28	2,233.28	2,299.28	10.34	76.29	-66.14	-4,251.70	-6,351.81	7,623.43	7,536.82	86.61	88.022	
2,400.00	2,399.23	2,333.23	2,399.23	10.75	79.78	-66.16	-4,251.70	-6,351.81	7,622.23	7,531.72	90.51	84.213	
2,500.00	2,499.19	2,433.19	2,499.19	11.17	83.26	-66.18	-4,251.70	-6,351.81	7,621.03	7,526.62	94.42	80.718	
2,600.00	2,599.14	2,533.14	2,599.14	11.60	86.75	-66.20	-4,251.70	-6,351.81	7,619.84	7,521.51	98.32	77.499	
2,700.00	2,699.10	2,633.10	2,699.10	12.02	90.24	-66.23	-4,251.70	-6,351.81	7,618.64	7,516.41	102.23	74.524	
2,800.00	2,799.06	2,733.06	2,799.06	12.44	93.72	-66.25	-4,251.70	-6,351.81	7,617.44	7,511.30	106.14	71.768	
2,900.00	2,899.01	2,833.01	2,899.01	12.87	97.21	-66.27	-4,251.70	-6,351.81	7,616.25	7,506.20	110.05	69.207	
3,000.00	2,998.97	2,932.97	2,998.97	13.29	100.70	-66.29	-4,251.70	-6,351.81	7,615.05	7,501.09	113.96	66.821	
3,100.00	3,098.92	3,032.92	3,098.92	13.72	104.19	-66.31	-4,251.70	-6,351.81	7,613.86	7,495.98	117.88	64.592	
3,200.00	3,198.88	3,132.88	3,198.88	14.14	107.67	-66.33	-4,251.70	-6,351.81	7,612.67	7,490.88	121.79	62.507	
3,300.00	3,298.84	3,232.84	3,298.84	14.57	111.16	-66.35	-4,251.70	-6,351.81	7,611.48	7,485.77	125.70	60.551	
3,400.00	3,398.79	3,332.79	3,398.79	15.00	114.65	-66.37	-4,251.70	-6,351.81	7,610.29	7,480.67	129.62	58.712	
3,500.00	3,498.75	3,432.75	3,498.75	15.43	118.14	-66.39	-4,251.70	-6,351.81	7,609.10	7,475.56	133.54	56.982	
3,600.00	3,598.70	3,532.70	3,598.70	15.86	121.63	-66.41	-4,251.70	-6,351.81	7,607.91	7,470.46	137.45	55.349	
3,700.00	3,698.66	3,632.66	3,698.66	16.29	125.11	-66.43	-4,251.70	-6,351.81	7,606.72	7,465.35	141.37	53.807	
3,800.00	3,798.62	3,732.62	3,798.62	16.72	128.60	-66.45	-4,251.70	-6,351.81	7,605.54	7,460.25	145.29	52.348	
3,900.00	3,898.57	3,832.57	3,898.57	17.15	132.09	-66.47	-4,251.70	-6,351.81	7,604.35	7,455.14	149.21	50.965	
4,000.00	3,998.53	3,932.53	3,998.53	17.59	135.58	-66.49	-4,251.70	-6,351.81	7,603.17	7,450.04	153.13	49.653	
4,100.00	4,098.48	4,032.48	4,098.48	18.02	139.07	-66.51	-4,251.70	-6,351.81	7,601.98	7,444.94	157.05	48.406	
4,200.00	4,198.44	4,132.44	4,198.44	18.45	142.56	-66.53	-4,251.70	-6,351.81	7,600.80	7,439.83	160.97	47.220	
4,300.00	4,298.40	4,232.40	4,298.40	18.88	146.04	-66.55	-4,251.70	-6,351.81	7,599.62	7,434.73	164.89	46.090	
4,400.00	4,398.35	4,332.35	4,398.35	19.32	149.53	-66.57	-4,251.70	-6,351.81	7,598.44	7,429.63	168.81	45.012	
4,500.00	4,498.31	4,432.31	4,498.31	19.75	153.02	-66.59	-4,251.70	-6,351.81	7,597.26	7,424.53	172.73	43.984	
4,600.00	4,598.26	4,452.00	4,518.00	20.19	153.71	-66.60	-4,251.70	-6,351.81	7,596.50	7,422.66	173.84	43.698	
4,609.26	4,607.52	4,452.00	4,518.00	20.23	153.71	-66.60	-4,251.70	-6,351.81	7,596.50	7,422.62	173.88	43.688	
4,700.00	4,698.22	4,452.00	4,518.00	20.62	153.71	-66.60	-4,251.70	-6,351.81	7,597.04	7,422.80	174.24	43.602	
4,800.00	4,798.18	4,452.00	4,518.00	21.05	153.71	-66.60	-4,251.70	-6,351.81	7,598.89	7,424.29	174.60	43.521	
4,900.00	4,898.13	4,452.00	4,518.00	21.49	153.71	-66.60	-4,251.70	-6,351.81	7,602.06	7,427.12	174.94	43.455	
5,000.00	4,998.09	4,452.00	4,518.00	21.92	153.71	-66.60	-4,251.70	-6,351.81	7,606.54	7,431.29	175.25	43.405	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,100.00	5,098.04	4,452.00	4,518.00	22.36	153.71	-66.60	-4,251.70	-6,351.81	7,612.33	7,436.81	175.52	43.370		
5,200.00	5,198.00	4,452.00	4,518.00	22.79	153.71	-66.60	-4,251.70	-6,351.81	7,619.43	7,443.67	175.77	43.349		
5,300.00	5,297.96	4,452.00	4,518.00	23.23	153.71	-66.60	-4,251.70	-6,351.81	7,627.84	7,451.85	175.98	43.344		
5,400.00	5,397.91	4,452.00	4,518.00	23.67	153.71	-66.60	-4,251.70	-6,351.81	7,637.54	7,461.37	176.17	43.354		
5,500.00	5,497.87	4,452.00	4,518.00	24.10	153.71	-66.60	-4,251.70	-6,351.81	7,648.54	7,472.22	176.32	43.378		
5,600.00	5,597.82	4,452.00	4,518.00	24.54	153.71	-66.60	-4,251.70	-6,351.81	7,660.83	7,484.38	176.45	43.417		
5,700.00	5,697.78	4,452.00	4,518.00	24.97	153.71	-66.60	-4,251.70	-6,351.81	7,674.41	7,497.86	176.54	43.470		
5,800.00	5,797.74	4,452.00	4,518.00	25.41	153.71	-66.60	-4,251.70	-6,351.81	7,689.26	7,512.65	176.61	43.538		
5,900.00	5,897.69	4,452.00	4,518.00	25.85	153.71	-66.60	-4,251.70	-6,351.81	7,705.37	7,528.73	176.65	43.620		
6,000.00	5,997.65	4,452.00	4,518.00	26.28	153.71	-66.60	-4,251.70	-6,351.81	7,722.75	7,546.10	176.65	43.717		
6,100.00	6,097.60	4,452.00	4,518.00	26.72	153.71	-66.60	-4,251.70	-6,351.81	7,741.39	7,564.75	176.63	43.827		
6,200.00	6,197.56	4,452.00	4,518.00	27.16	153.71	-66.60	-4,251.70	-6,351.81	7,761.27	7,584.68	176.59	43.951		
6,300.00	6,297.52	4,452.00	4,518.00	27.59	153.71	-66.60	-4,251.70	-6,351.81	7,782.38	7,605.86	176.51	44.090		
6,400.00	6,397.47	4,452.00	4,518.00	28.03	153.71	-66.60	-4,251.70	-6,351.81	7,804.71	7,628.30	176.41	44.242		
6,500.00	6,497.43	4,452.00	4,518.00	28.47	153.71	-66.60	-4,251.70	-6,351.81	7,828.26	7,651.98	176.28	44.408		
6,600.00	6,597.38	4,452.00	4,518.00	28.90	153.71	-66.60	-4,251.70	-6,351.81	7,853.01	7,676.89	176.13	44.587		
6,700.00	6,697.08	4,452.00	4,518.00	29.34	153.71	-39.95	-4,251.70	-6,351.81	7,875.67	7,699.73	175.94	44.762		
6,800.00	6,794.63	4,452.00	4,518.00	29.79	153.71	-35.92	-4,251.70	-6,351.81	7,887.16	7,711.43	175.73	44.882		
6,900.00	6,887.62	4,452.00	4,518.00	30.24	153.71	-34.89	-4,251.70	-6,351.81	7,886.74	7,711.24	175.50	44.939		
7,000.00	6,973.77	4,452.00	4,518.00	30.70	153.71	-35.01	-4,251.70	-6,351.81	7,874.43	7,699.18	175.25	44.932		
7,100.00	7,050.94	4,452.00	4,518.00	31.20	153.71	-35.98	-4,251.70	-6,351.81	7,850.47	7,675.46	175.01	44.857		
7,200.00	7,117.24	4,452.00	4,518.00	31.77	153.71	-37.78	-4,251.70	-6,351.81	7,815.36	7,640.56	174.80	44.710		
7,300.00	7,171.03	4,452.00	4,518.00	32.46	153.71	-40.51	-4,251.70	-6,351.81	7,769.80	7,595.15	174.65	44.487		
7,400.00	7,211.00	4,452.00	4,518.00	33.29	153.71	-44.37	-4,251.70	-6,351.81	7,714.76	7,540.17	174.60	44.186		
7,500.00	7,236.16	4,452.00	4,518.00	34.29	153.71	-49.65	-4,251.70	-6,351.81	7,651.40	7,476.73	174.66	43.807		
7,600.00	7,245.89	4,452.00	4,518.00	35.43	153.71	-56.67	-4,251.70	-6,351.81	7,581.08	7,406.21	174.87	43.353		
7,700.00	7,245.73	4,452.00	4,518.00	36.72	153.71	-57.82	-4,251.70	-6,351.81	7,507.33	7,332.13	175.20	42.850		
7,800.00	7,245.42	4,452.00	4,518.00	38.18	153.71	-57.82	-4,251.70	-6,351.81	7,434.13	7,258.51	175.62	42.331		
7,900.00	7,245.10	4,452.00	4,518.00	39.80	153.71	-57.82	-4,251.70	-6,351.81	7,361.56	7,185.43	176.13	41.796		
8,000.00	7,244.79	4,452.00	4,518.00	41.54	153.71	-57.82	-4,251.70	-6,351.81	7,289.64	7,112.91	176.73	41.246		
8,100.00	7,244.48	4,452.00	4,518.00	43.41	153.71	-57.82	-4,251.70	-6,351.81	7,218.39	7,040.96	177.43	40.683		
8,200.00	7,244.17	4,452.00	4,518.00	45.38	153.71	-57.82	-4,251.70	-6,351.81	7,147.83	6,969.61	178.22	40.107		
8,300.00	7,243.86	4,452.00	4,518.00	47.44	153.71	-57.82	-4,251.70	-6,351.81	7,077.98	6,898.89	179.09	39.522		
8,400.00	7,243.55	4,452.00	4,518.00	49.58	153.71	-57.82	-4,251.70	-6,351.81	7,008.86	6,828.80	180.05	38.927		
8,500.00	7,243.23	4,452.00	4,518.00	51.78	153.71	-57.82	-4,251.70	-6,351.81	6,940.49	6,759.39	181.09	38.326		
8,600.00	7,242.92	4,452.00	4,518.00	54.05	153.71	-57.82	-4,251.70	-6,351.81	6,872.89	6,690.68	182.22	37.718		
8,700.00	7,242.61	4,452.00	4,518.00	56.37	153.71	-57.82	-4,251.70	-6,351.81	6,806.10	6,622.68	183.42	37.107		
8,800.00	7,242.30	4,452.00	4,518.00	58.74	153.71	-57.82	-4,251.70	-6,351.81	6,740.12	6,555.43	184.69	36.494		
8,900.00	7,241.99	4,452.00	4,518.00	61.16	153.71	-57.82	-4,251.70	-6,351.81	6,674.99	6,488.95	186.04	35.879		
9,000.00	7,241.67	4,452.00	4,518.00	63.61	153.71	-57.82	-4,251.70	-6,351.81	6,610.73	6,423.28	187.46	35.265		
9,100.00	7,241.36	4,452.00	4,518.00	66.09	153.71	-57.82	-4,251.70	-6,351.81	6,547.37	6,358.43	188.95	34.652		
9,200.00	7,241.05	4,452.00	4,518.00	68.60	153.71	-57.82	-4,251.70	-6,351.81	6,484.94	6,294.44	190.50	34.042		
9,300.00	7,240.74	4,452.00	4,518.00	71.13	153.71	-57.82	-4,251.70	-6,351.81	6,423.45	6,231.34	192.11	33.436		
9,400.00	7,240.43	4,452.00	4,518.00	73.70	153.71	-57.82	-4,251.70	-6,351.81	6,362.94	6,169.15	193.79	32.834		
9,500.00	7,240.11	4,452.00	4,518.00	76.28	153.71	-57.82	-4,251.70	-6,351.81	6,303.43	6,107.91	195.52	32.239		
9,600.00	7,239.80	4,452.00	4,518.00	78.88	153.71	-57.82	-4,251.70	-6,351.81	6,244.96	6,047.65	197.32	31.649		
9,700.00	7,239.49	4,452.00	4,518.00	81.50	153.71	-57.82	-4,251.70	-6,351.81	6,187.56	5,988.39	199.17	31.067		
9,800.00	7,239.18	4,452.00	4,518.00	84.13	153.71	-57.82	-4,251.70	-6,351.81	6,131.24	5,930.18	201.07	30.494		
9,900.00	7,238.87	4,452.00	4,518.00	86.78	153.71	-57.82	-4,251.70	-6,351.81	6,076.06	5,873.04	203.02	29.928		
10,000.00	7,238.55	4,452.00	4,518.00	89.44	153.71	-57.82	-4,251.70	-6,351.81	6,022.02	5,817.00	205.02	29.372		
10,100.00	7,238.24	4,452.00	4,518.00	92.11	153.71	-57.82	-4,251.70	-6,351.81	5,969.17	5,762.10	207.08	28.826		
10,200.00	7,237.93	4,452.00	4,518.00	94.80	153.71	-57.82	-4,251.70	-6,351.81	5,917.54	5,708.37	209.18	28.290		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	4,452.00	4,518.00	97.49	153.71	-57.82	-4,251.70	-6,351.81	5,867.17	5,655.84	211.32	27.764		
10,400.00	7,237.31	4,452.00	4,518.00	100.19	153.71	-57.82	-4,251.70	-6,351.81	5,818.07	5,604.56	213.51	27.250		
10,500.00	7,236.99	4,452.00	4,518.00	102.90	153.71	-57.82	-4,251.70	-6,351.81	5,770.29	5,554.55	215.74	26.747		
10,600.00	7,236.68	4,452.00	4,518.00	105.62	153.71	-57.82	-4,251.70	-6,351.81	5,723.85	5,505.85	218.01	26.255		
10,700.00	7,236.37	4,452.00	4,518.00	108.35	153.71	-57.82	-4,251.70	-6,351.81	5,678.80	5,458.49	220.32	25.776		
10,800.00	7,236.06	4,452.00	4,518.00	111.08	153.71	-57.82	-4,251.70	-6,351.81	5,635.17	5,412.51	222.66	25.309		
10,900.00	7,235.75	4,452.00	4,518.00	113.82	153.71	-57.82	-4,251.70	-6,351.81	5,592.98	5,367.94	225.04	24.854		
11,000.00	7,235.44	4,452.00	4,518.00	116.56	153.71	-57.82	-4,251.70	-6,351.81	5,552.27	5,324.82	227.45	24.411		
11,100.00	7,235.12	4,452.00	4,518.00	119.31	153.71	-57.82	-4,251.70	-6,351.81	5,513.07	5,283.19	229.89	23.982		
11,200.00	7,234.81	4,452.00	4,518.00	122.07	153.71	-57.82	-4,251.70	-6,351.81	5,475.42	5,243.07	232.36	23.565		
11,300.00	7,234.50	4,452.00	4,518.00	124.83	153.71	-57.82	-4,251.70	-6,351.81	5,439.35	5,204.50	234.85	23.161		
11,400.00	7,234.19	4,452.00	4,518.00	127.59	153.71	-57.82	-4,251.70	-6,351.81	5,404.89	5,167.52	237.37	22.770		
11,500.00	7,233.88	4,452.00	4,518.00	130.36	153.71	-57.82	-4,251.70	-6,351.81	5,372.07	5,132.17	239.91	22.392		
11,600.00	7,233.56	4,452.00	4,518.00	133.13	153.71	-57.82	-4,251.70	-6,351.81	5,340.92	5,098.46	242.46	22.028		
11,700.00	7,233.25	4,452.00	4,518.00	135.91	153.71	-57.82	-4,251.70	-6,351.81	5,311.47	5,066.44	245.03	21.677		
11,800.00	7,232.94	4,452.00	4,518.00	138.68	153.71	-57.82	-4,251.70	-6,351.81	5,283.75	5,036.13	247.62	21.338		
11,900.00	7,232.63	4,452.00	4,518.00	141.47	153.71	-57.82	-4,251.70	-6,351.81	5,257.79	5,007.58	250.21	21.013		
12,000.00	7,232.32	4,452.00	4,518.00	144.25	153.71	-57.82	-4,251.70	-6,351.81	5,233.60	4,980.79	252.81	20.702		
12,100.00	7,232.00	4,452.00	4,518.00	147.04	153.71	-57.82	-4,251.70	-6,351.81	5,211.23	4,955.81	255.42	20.403		
12,200.00	7,231.69	4,452.00	4,518.00	149.83	153.71	-57.82	-4,251.70	-6,351.81	5,190.68	4,932.66	258.02	20.117		
12,300.00	7,231.38	4,452.00	4,518.00	152.62	153.71	-57.82	-4,251.70	-6,351.81	5,171.99	4,911.37	260.62	19.845		
12,400.00	7,231.07	4,452.00	4,518.00	155.42	153.71	-57.82	-4,251.70	-6,351.81	5,155.17	4,891.95	263.22	19.585		
12,500.00	7,230.76	4,452.00	4,518.00	158.22	153.71	-57.82	-4,251.70	-6,351.81	5,140.24	4,874.43	265.81	19.338		
12,600.00	7,230.44	4,452.00	4,518.00	161.01	153.71	-57.82	-4,251.70	-6,351.81	5,127.22	4,858.84	268.38	19.104		
12,700.00	7,230.13	4,452.00	4,518.00	163.82	153.71	-57.82	-4,251.70	-6,351.81	5,116.12	4,845.18	270.94	18.883		
12,800.00	7,229.82	4,452.00	4,518.00	166.62	153.71	-57.82	-4,251.70	-6,351.81	5,106.95	4,833.47	273.48	18.674		
12,900.00	7,229.51	4,452.00	4,518.00	169.43	153.71	-57.82	-4,251.70	-6,351.81	5,099.73	4,823.73	276.00	18.477		
13,000.00	7,229.20	4,452.00	4,518.00	172.23	153.71	-57.82	-4,251.70	-6,351.81	5,094.46	4,815.97	278.50	18.293		
13,100.00	7,228.88	4,452.00	4,518.00	175.04	153.71	-57.82	-4,251.70	-6,351.81	5,091.15	4,810.19	280.96	18.121		
13,200.00	7,228.57	4,452.00	4,518.00	177.85	153.71	-57.82	-4,251.70	-6,351.81	5,089.81	4,806.41	283.39	17.960		
13,218.53	7,228.52	4,452.00	4,518.00	178.37	153.71	-57.82	-4,251.70	-6,351.81	5,089.77	4,805.93	283.84	17.932 CC		
13,300.00	7,228.26	4,452.00	4,518.00	180.66	153.71	-57.82	-4,251.70	-6,351.81	5,090.43	4,804.63	285.79	17.812 ES		
13,400.00	7,227.95	4,452.00	4,518.00	183.48	153.71	-57.82	-4,251.70	-6,351.81	5,093.01	4,804.86	288.15	17.675		
13,500.00	7,227.64	4,452.00	4,518.00	186.29	153.71	-57.82	-4,251.70	-6,351.81	5,097.55	4,807.08	290.47	17.549		
13,600.00	7,227.33	4,452.00	4,518.00	189.11	153.71	-57.82	-4,251.70	-6,351.81	5,104.05	4,811.30	292.75	17.435		
13,700.00	7,227.01	4,452.00	4,518.00	191.92	153.71	-57.82	-4,251.70	-6,351.81	5,112.50	4,817.51	294.98	17.332		
13,800.00	7,226.70	4,452.00	4,518.00	194.74	153.71	-57.82	-4,251.70	-6,351.81	5,122.88	4,825.72	297.16	17.239		
13,900.00	7,226.39	4,452.00	4,518.00	197.56	153.71	-57.82	-4,251.70	-6,351.81	5,135.19	4,835.89	299.30	17.157		
14,000.00	7,226.08	4,452.00	4,518.00	200.38	153.71	-57.82	-4,251.70	-6,351.81	5,149.42	4,848.04	301.38	17.086		
14,100.00	7,225.77	4,452.00	4,518.00	203.21	153.71	-57.82	-4,251.70	-6,351.81	5,165.54	4,862.13	303.40	17.025		
14,200.00	7,225.45	4,452.00	4,518.00	206.03	153.71	-57.82	-4,251.70	-6,351.81	5,183.54	4,878.16	305.38	16.974		
14,300.00	7,225.14	4,452.00	4,518.00	208.85	153.71	-57.82	-4,251.70	-6,351.81	5,203.40	4,896.11	307.29	16.933		
14,400.00	7,224.83	4,452.00	4,518.00	211.68	153.71	-57.82	-4,251.70	-6,351.81	5,225.10	4,915.95	309.15	16.902		
14,500.00	7,224.52	4,452.00	4,518.00	214.50	153.71	-57.82	-4,251.70	-6,351.81	5,248.61	4,937.67	310.94	16.880		
14,600.00	7,224.21	4,452.00	4,518.00	217.33	153.71	-57.82	-4,251.70	-6,351.81	5,273.92	4,961.24	312.68	16.867		
14,700.00	7,223.89	4,452.00	4,518.00	220.16	153.71	-57.82	-4,251.70	-6,351.81	5,300.99	4,986.64	314.35	16.863 SF		
14,800.00	7,223.58	4,452.00	4,518.00	222.98	153.71	-57.82	-4,251.70	-6,351.81	5,329.81	5,013.84	315.97	16.868		
14,900.00	7,223.27	4,452.00	4,518.00	225.81	153.71	-57.82	-4,251.70	-6,351.81	5,360.33	5,042.81	317.52	16.882		
14,987.41	7,223.00	4,452.00	4,518.00	228.28	153.71	-57.82	-4,251.70	-6,351.81	5,388.39	5,069.56	318.83	16.901		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	1,377.00	1,307.28	3.28	7.39	-107.79	-2,829.05	-8,815.44	9,350.11					
100.00	100.00	1,410.54	1,340.41	3.28	7.55	-107.78	-2,825.19	-8,811.92	9,336.50	9,326.23	10.27	909.026		
200.00	200.00	1,471.00	1,400.14	3.34	7.85	-107.74	-2,817.78	-8,806.20	9,323.60	9,313.03	10.57	882.396		
300.00	300.00	1,514.24	1,442.87	3.44	8.05	-107.72	-2,812.35	-8,802.38	9,311.15	9,300.30	10.84	858.724		
400.00	400.00	1,660.00	1,586.91	3.60	8.77	-107.64	-2,795.24	-8,788.11	9,298.01	9,286.38	11.63	799.507		
500.00	500.00	1,706.29	1,632.67	3.81	9.00	-107.62	-2,790.25	-8,783.25	9,285.15	9,273.14	12.01	772.806		
600.00	600.00	1,755.00	1,680.96	4.05	9.23	-107.60	-2,785.32	-8,779.19	9,273.65	9,261.20	12.45	744.808		
700.00	699.98	1,931.48	1,855.57	4.32	10.10	-49.70	-2,765.09	-8,763.63	9,260.78	9,247.27	13.50	685.851		
800.00	799.94	2,272.14	2,191.45	4.61	11.89	-49.53	-2,719.49	-8,729.79	9,245.83	9,230.46	15.37	601.385		
900.00	899.89	2,346.65	2,264.77	4.92	12.29	-49.50	-2,709.13	-8,721.53	9,229.11	9,213.08	16.02	575.945		
1,000.00	999.85	2,510.00	2,425.38	5.25	13.19	-49.42	-2,686.57	-8,702.09	9,211.40	9,194.28	17.12	538.130		
1,100.00	1,099.80	2,565.59	2,480.05	5.60	13.49	-49.40	-2,679.30	-8,695.18	9,193.93	9,176.22	17.71	519.106		
1,200.00	1,199.76	2,749.75	2,661.38	5.96	14.50	-49.33	-2,656.07	-8,672.98	9,176.88	9,157.96	18.92	485.022		
1,300.00	1,299.72	2,792.00	2,702.94	6.33	14.74	-49.31	-2,650.53	-8,667.74	9,159.29	9,139.81	19.48	470.180		
1,400.00	1,399.67	2,792.00	2,702.94	6.71	14.74	-49.31	-2,650.53	-8,667.74	9,142.58	9,122.73	19.85	460.533		
1,500.00	1,499.63	2,830.62	2,741.01	7.10	14.94	-49.29	-2,645.76	-8,663.33	9,126.48	9,106.07	20.41	447.167		
1,600.00	1,599.58	2,847.81	2,758.00	7.49	15.03	-49.29	-2,643.80	-8,661.58	9,111.40	9,090.52	20.88	436.450		
1,700.00	1,699.54	2,887.00	2,796.81	7.88	15.23	-49.27	-2,639.71	-8,658.05	9,097.36	9,075.91	21.45	424.127		
1,800.00	1,799.50	3,044.04	2,952.11	8.28	16.04	-49.21	-2,621.57	-8,643.48	9,083.17	9,060.60	22.57	402.426		
1,900.00	1,899.45	3,189.89	3,096.12	8.69	16.82	-49.15	-2,603.13	-8,629.52	9,068.36	9,044.70	23.66	383.338		
2,000.00	1,999.41	3,262.00	3,167.33	9.10	17.20	-49.12	-2,594.30	-8,622.50	9,053.47	9,029.07	24.40	371.018		
2,100.00	2,099.36	3,383.57	3,287.41	9.51	17.84	-49.07	-2,579.64	-8,610.41	9,038.46	9,013.08	25.38	356.165		
2,200.00	2,199.32	3,449.00	3,352.04	9.92	18.19	-49.04	-2,571.71	-8,604.04	9,023.62	8,997.52	26.10	345.762		
2,300.00	2,299.28	3,543.00	3,444.90	10.34	18.69	-49.00	-2,560.30	-8,594.90	9,008.82	8,981.87	26.95	334.237		
2,400.00	2,399.23	4,488.00	4,368.51	10.75	24.30	-48.45	-2,411.92	-8,468.40	8,988.67	8,956.79	31.88	281.924		
2,500.00	2,499.19	4,534.39	4,413.50	11.17	24.60	-48.42	-2,404.32	-8,460.02	8,964.93	8,932.39	32.55	275.460		
2,600.00	2,599.14	4,583.00	4,460.81	11.60	24.90	-48.40	-2,396.70	-8,451.83	8,942.13	8,908.91	33.22	269.177		
2,700.00	2,699.10	4,583.00	4,460.81	12.02	24.90	-48.40	-2,396.70	-8,451.83	8,919.92	8,886.25	33.67	264.921		
2,800.00	2,799.06	4,583.00	4,460.81	12.44	24.90	-48.40	-2,396.70	-8,451.83	8,898.77	8,864.65	34.12	260.806		
2,900.00	2,899.01	4,583.00	4,460.81	12.87	24.90	-48.40	-2,396.70	-8,451.83	8,878.70	8,844.13	34.57	256.830		
3,000.00	2,998.97	4,635.87	4,512.52	13.29	25.21	-48.37	-2,389.09	-8,443.89	8,858.79	8,823.52	35.26	251.226		
3,100.00	3,098.92	4,678.00	4,553.95	13.72	25.46	-48.35	-2,383.74	-8,438.47	8,840.42	8,804.52	35.91	246.211		
3,200.00	3,198.88	4,678.00	4,553.95	14.14	25.46	-48.35	-2,383.74	-8,438.47	8,822.57	8,786.21	36.36	242.668		
3,300.00	3,298.84	4,678.00	4,553.95	14.57	25.46	-48.35	-2,383.74	-8,438.47	8,805.81	8,769.00	36.81	239.252		
3,400.00	3,398.79	4,735.26	4,610.46	15.00	25.77	-48.33	-2,377.21	-8,431.87	8,789.68	8,752.17	37.51	234.335		
3,500.00	3,498.75	4,772.00	4,646.77	15.43	25.96	-48.32	-2,373.34	-8,427.85	8,774.28	8,736.16	38.12	230.168		
3,600.00	3,598.70	4,825.82	4,700.03	15.86	26.24	-48.31	-2,367.99	-8,422.21	8,759.48	8,720.67	38.80	225.734		
3,700.00	3,698.66	4,867.00	4,740.81	16.29	26.45	-48.29	-2,364.10	-8,418.05	8,745.22	8,705.79	39.43	221.778		
3,800.00	3,798.62	4,909.72	4,783.16	16.72	26.67	-48.28	-2,360.25	-8,413.97	8,731.62	8,691.56	40.06	217.945		
3,900.00	3,898.57	4,961.00	4,834.06	17.15	26.92	-48.27	-2,355.88	-8,409.50	8,718.78	8,678.05	40.73	214.055		
4,000.00	3,998.53	4,994.81	4,867.65	17.59	27.08	-48.26	-2,353.14	-8,406.74	8,706.54	8,665.22	41.32	210.706		
4,100.00	4,098.48	5,056.00	4,928.46	18.02	27.37	-48.25	-2,348.38	-8,401.91	8,694.82	8,652.79	42.03	206.881		
4,200.00	4,198.44	5,056.00	4,928.46	18.45	27.37	-48.25	-2,348.38	-8,401.91	8,683.87	8,641.41	42.47	204.482		
4,300.00	4,298.40	5,108.96	4,981.15	18.88	27.62	-48.24	-2,344.58	-8,398.22	8,673.47	8,630.33	43.13	201.085		
4,400.00	4,398.35	5,150.00	5,022.04	19.32	27.80	-48.24	-2,341.90	-8,395.91	8,664.08	8,620.34	43.75	198.051		
4,500.00	4,498.31	5,181.16	5,053.10	19.75	27.94	-48.23	-2,340.02	-8,394.35	8,655.40	8,611.09	44.31	195.325		
4,600.00	4,598.26	5,243.00	5,114.77	20.19	28.20	-48.22	-2,336.67	-8,391.31	8,647.21	8,602.20	45.01	192.121		
4,700.00	4,698.22	5,276.92	5,148.62	20.62	28.34	-48.22	-2,335.04	-8,389.79	8,639.63	8,594.05	45.58	189.545		
4,800.00	4,798.18	5,336.00	5,207.61	21.05	28.59	-48.22	-2,332.58	-8,387.75	8,632.97	8,586.71	46.26	186.624		
4,900.00	4,898.13	5,336.00	5,207.61	21.49	28.59	-48.22	-2,332.58	-8,387.75	8,626.83	8,580.15	46.68	184.805		
5,000.00	4,998.09	5,394.57	5,266.13	21.92	28.81	-48.22	-2,330.71	-8,386.20	8,621.46	8,574.11	47.35	182.092		
5,100.00	5,098.04	5,430.00	5,301.54	22.36	28.95	-48.22	-2,329.91	-8,385.36	8,616.68	8,568.77	47.91	179.840		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,519.01	5,390.51	22.79	29.29	-48.22	-2,328.00	-8,383.61	8,612.25	8,563.54	48.71	176.823		
5,300.00	5,297.96	5,586.90	5,458.37	23.23	29.54	-48.22	-2,326.25	-8,382.68	8,608.22	8,558.81	49.41	174.227		
5,400.00	5,397.91	5,654.81	5,526.25	23.67	29.80	-48.22	-2,324.23	-8,382.08	8,604.57	8,554.46	50.11	171.713		
5,500.00	5,497.87	5,711.00	5,582.41	24.10	30.01	-48.22	-2,322.36	-8,381.84	8,601.30	8,550.53	50.76	169.445		
5,600.00	5,597.82	5,793.10	5,664.46	24.54	30.32	-48.21	-2,319.56	-8,381.81	8,598.36	8,546.83	51.53	166.876		
5,700.00	5,697.78	5,863.12	5,734.45	24.97	30.58	-48.21	-2,317.28	-8,382.04	8,595.78	8,543.54	52.24	164.554		
5,800.00	5,797.74	5,933.16	5,804.45	25.41	30.84	-48.20	-2,315.09	-8,382.49	8,593.55	8,540.60	52.95	162.304		
5,900.00	5,897.69	6,007.90	5,879.15	25.85	31.11	-48.20	-2,312.85	-8,383.22	8,591.66	8,537.99	53.68	160.060		
6,000.00	5,997.65	6,118.01	5,989.22	26.28	31.52	-48.19	-2,309.72	-8,384.31	8,589.84	8,535.28	54.56	157.434		
6,100.00	6,097.60	6,228.12	6,099.28	26.72	31.92	-48.19	-2,306.76	-8,385.21	8,587.90	8,532.46	55.44	154.891		
6,200.00	6,197.56	6,333.83	6,204.95	27.16	32.32	-48.19	-2,303.94	-8,385.96	8,585.86	8,529.55	56.31	152.462		
6,300.00	6,297.52	6,435.88	6,306.94	27.59	32.71	-48.18	-2,300.45	-8,386.87	8,583.78	8,526.61	57.17	150.134		
6,400.00	6,397.47	6,537.90	6,408.86	28.03	33.10	-48.16	-2,296.10	-8,388.00	8,581.68	8,523.65	58.03	147.874		
6,500.00	6,497.43	6,702.54	6,573.24	28.47	33.76	-48.12	-2,287.11	-8,389.82	8,579.28	8,520.08	59.20	144.920		
6,600.00	6,597.38	6,887.30	6,757.52	28.90	34.51	-48.06	-2,273.89	-8,390.99	8,575.93	8,515.47	60.46	141.843		
6,700.00	6,697.08	6,935.27	6,805.35	29.34	34.71	-22.36	-2,270.18	-8,391.46	8,568.65	8,507.54	61.11	140.223		
6,800.00	6,794.63	7,006.78	6,876.61	29.79	35.01	-19.43	-2,264.44	-8,392.28	8,547.30	8,485.45	61.85	138.191		
6,900.00	6,887.62	7,075.21	6,944.81	30.24	35.30	-19.40	-2,258.81	-8,393.33	8,511.82	8,449.26	62.56	136.061		
7,000.00	6,973.77	7,139.72	7,009.07	30.70	35.57	-20.51	-2,253.39	-8,394.53	8,463.03	8,399.82	63.21	133.882		
7,100.00	7,050.94	7,201.35	7,070.50	31.20	35.82	-22.71	-2,248.48	-8,395.75	8,402.07	8,338.27	63.81	131.680		
7,200.00	7,117.24	7,254.63	7,123.63	31.77	36.03	-26.33	-2,244.64	-8,396.78	8,330.38	8,266.06	64.32	129.521		
7,300.00	7,171.03	7,298.23	7,167.12	32.46	36.21	-32.22	-2,241.76	-8,397.63	8,249.69	8,184.95	64.74	127.432		
7,400.00	7,211.00	7,331.05	7,199.88	33.29	36.34	-42.13	-2,239.75	-8,398.25	8,161.96	8,096.89	65.07	125.433		
7,500.00	7,236.16	7,352.28	7,221.07	34.29	36.43	-59.25	-2,238.53	-8,398.66	8,069.33	8,004.01	65.32	123.538		
7,600.00	7,245.89	7,361.39	7,230.16	35.43	36.47	-85.97	-2,238.02	-8,398.83	7,974.07	7,908.58	65.49	121.755		
7,700.00	7,245.73	7,362.73	7,231.50	36.72	36.47	-90.23	-2,237.94	-8,398.86	7,878.29	7,812.66	65.64	120.031		
7,800.00	7,245.42	7,363.94	7,232.71	38.18	36.48	-90.26	-2,237.88	-8,398.88	7,782.62	7,716.82	65.80	118.269		
7,900.00	7,245.10	7,365.16	7,233.93	39.80	36.48	-90.29	-2,237.81	-8,398.90	7,687.06	7,621.06	66.00	116.464		
8,000.00	7,244.79	7,366.37	7,235.14	41.54	36.49	-90.33	-2,237.74	-8,398.93	7,591.61	7,525.38	66.23	114.619		
8,100.00	7,244.48	7,367.58	7,236.35	43.41	36.49	-90.36	-2,237.68	-8,398.95	7,496.28	7,429.78	66.50	112.732		
8,200.00	7,244.17	7,368.80	7,237.56	45.38	36.50	-90.39	-2,237.61	-8,398.97	7,401.07	7,334.28	66.79	110.805		
8,300.00	7,243.86	7,370.01	7,238.77	47.44	36.50	-90.42	-2,237.55	-8,398.99	7,305.99	7,238.87	67.13	108.839		
8,400.00	7,243.55	7,371.22	7,239.98	49.58	36.51	-90.45	-2,237.48	-8,399.02	7,211.05	7,143.55	67.50	106.835		
8,500.00	7,243.23	7,372.43	7,241.19	51.78	36.51	-90.48	-2,237.42	-8,399.04	7,116.24	7,048.33	67.91	104.795		
8,600.00	7,242.92	7,373.64	7,242.40	54.05	36.52	-90.51	-2,237.35	-8,399.06	7,021.57	6,953.22	68.36	102.721		
8,700.00	7,242.61	7,382.00	7,250.74	56.37	36.55	-90.72	-2,236.91	-8,399.22	6,927.06	6,858.19	68.88	100.569		
8,800.00	7,242.30	7,382.00	7,250.74	58.74	36.55	-90.72	-2,236.91	-8,399.22	6,832.70	6,763.30	69.41	98.442		
8,900.00	7,241.99	7,382.00	7,250.74	61.16	36.55	-90.72	-2,236.91	-8,399.22	6,738.51	6,668.52	69.98	96.288		
9,000.00	7,241.67	7,386.48	7,246.27	63.61	36.57	-90.61	-2,237.14	-8,399.14	6,644.48	6,573.85	70.62	94.082		
9,100.00	7,241.36	7,384.94	7,247.80	66.09	36.56	-90.64	-2,237.06	-8,399.17	6,550.63	6,479.34	71.29	91.890		
9,200.00	7,241.05	7,383.41	7,249.34	68.60	36.56	-90.68	-2,236.98	-8,399.19	6,456.96	6,384.96	72.00	89.680		
9,300.00	7,240.74	7,382.13	7,250.87	71.13	36.55	-90.72	-2,236.90	-8,399.22	6,363.49	6,290.72	72.76	87.453		
9,400.00	7,240.43	7,383.67	7,252.41	73.70	36.56	-90.76	-2,236.82	-8,399.25	6,270.21	6,196.62	73.59	85.199		
9,500.00	7,240.11	7,385.20	7,253.94	76.28	36.57	-90.80	-2,236.74	-8,399.28	6,177.15	6,102.67	74.48	82.938		
9,600.00	7,239.80	7,386.74	7,255.48	78.88	36.57	-90.84	-2,236.66	-8,399.31	6,084.31	6,008.89	75.42	80.673		
9,700.00	7,239.49	7,388.28	7,257.01	81.50	36.58	-90.88	-2,236.58	-8,399.34	5,991.70	5,915.28	76.42	78.407		
9,800.00	7,239.18	7,389.82	7,258.55	84.13	36.58	-90.91	-2,236.50	-8,399.37	5,899.32	5,821.85	77.48	76.144		
9,900.00	7,238.87	7,391.35	7,260.08	86.78	36.59	-90.95	-2,236.42	-8,399.40	5,807.20	5,728.61	78.59	73.888		
10,000.00	7,238.55	7,392.89	7,261.62	89.44	36.60	-90.99	-2,236.34	-8,399.43	5,715.35	5,635.57	79.78	71.642		
10,100.00	7,238.24	7,394.43	7,263.15	92.11	36.60	-91.03	-2,236.25	-8,399.46	5,623.77	5,542.75	81.02	69.409		
10,200.00	7,237.93	7,395.96	7,264.69	94.80	36.61	-91.07	-2,236.17	-8,399.49	5,532.48	5,450.15	82.34	67.193		
10,300.00	7,237.62	7,397.50	7,266.22	97.49	36.61	-91.11	-2,236.09	-8,399.51	5,441.50	5,357.78	83.72	64.997		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,399.04	7,267.75	100.19	36.62	-91.15	-2,236.01	-8,399.54	5,350.84	5,265.67	85.17	62.823		
10,500.00	7,236.99	7,400.58	7,269.29	102.90	36.63	-91.18	-2,235.93	-8,399.57	5,260.52	5,173.82	86.70	60.674		
10,600.00	7,236.68	7,402.11	7,270.82	105.62	36.63	-91.22	-2,235.85	-8,399.60	5,170.56	5,082.25	88.30	58.553		
10,700.00	7,236.37	7,403.65	7,272.36	108.35	36.64	-91.26	-2,235.77	-8,399.63	5,080.97	4,990.98	89.99	56.464		
10,800.00	7,236.06	7,405.19	7,273.89	111.08	36.64	-91.30	-2,235.69	-8,399.66	4,991.77	4,900.02	91.75	54.407		
10,900.00	7,235.75	7,406.72	7,275.43	113.82	36.65	-91.34	-2,235.61	-8,399.69	4,902.99	4,809.40	93.60	52.385		
11,000.00	7,235.44	7,408.26	7,276.96	116.56	36.66	-91.38	-2,235.53	-8,399.72	4,814.65	4,719.12	95.53	50.400		
11,100.00	7,235.12	7,409.80	7,278.50	119.31	36.66	-91.42	-2,235.45	-8,399.75	4,726.78	4,629.23	97.55	48.454		
11,200.00	7,234.81	7,411.34	7,280.03	122.07	36.67	-91.46	-2,235.37	-8,399.78	4,639.39	4,539.73	99.67	46.549		
11,300.00	7,234.50	7,412.87	7,281.57	124.83	36.67	-91.49	-2,235.29	-8,399.80	4,552.53	4,450.65	101.88	44.686		
11,400.00	7,234.19	7,414.41	7,283.10	127.59	36.68	-91.53	-2,235.21	-8,399.83	4,466.21	4,362.02	104.19	42.866		
11,500.00	7,233.88	7,415.95	7,284.64	130.36	36.69	-91.57	-2,235.12	-8,399.86	4,380.47	4,273.87	106.61	41.091		
11,600.00	7,233.56	7,417.49	7,286.17	133.13	36.69	-91.61	-2,235.04	-8,399.89	4,295.35	4,186.23	109.13	39.361		
11,700.00	7,233.25	7,419.02	7,287.71	135.91	36.70	-91.65	-2,234.96	-8,399.92	4,210.89	4,099.13	111.76	37.678		
11,800.00	7,232.94	7,420.56	7,289.24	138.68	36.71	-91.69	-2,234.88	-8,399.95	4,127.11	4,012.61	114.51	36.042		
11,900.00	7,232.63	7,422.10	7,290.78	141.47	36.71	-91.73	-2,234.80	-8,399.98	4,044.08	3,926.71	117.37	34.455		
12,000.00	7,232.32	7,423.63	7,292.31	144.25	36.72	-91.76	-2,234.72	-8,400.01	3,961.83	3,841.46	120.36	32.916		
12,100.00	7,232.00	7,425.17	7,293.85	147.04	36.72	-91.80	-2,234.64	-8,400.04	3,880.41	3,756.93	123.48	31.425		
12,200.00	7,231.69	7,426.71	7,295.38	149.83	36.73	-91.84	-2,234.56	-8,400.07	3,799.88	3,673.15	126.73	29.984		
12,300.00	7,231.38	7,428.25	7,296.92	152.62	36.74	-91.88	-2,234.48	-8,400.09	3,720.29	3,590.18	130.11	28.593		
12,400.00	7,231.07	7,429.78	7,298.45	155.42	36.74	-91.92	-2,234.40	-8,400.12	3,641.71	3,508.07	133.64	27.251		
12,500.00	7,230.76	7,431.32	7,299.98	158.22	36.75	-91.96	-2,234.32	-8,400.15	3,564.20	3,426.89	137.30	25.959		
12,600.00	7,230.44	7,432.86	7,301.52	161.01	36.75	-92.00	-2,234.24	-8,400.18	3,487.83	3,346.71	141.12	24.716		
12,700.00	7,230.13	7,434.39	7,303.05	163.82	36.76	-92.04	-2,234.16	-8,400.21	3,412.69	3,267.61	145.08	23.523		
12,800.00	7,229.82	7,435.93	7,304.59	166.62	36.77	-92.07	-2,234.07	-8,400.24	3,338.85	3,189.65	149.20	22.379		
12,900.00	7,229.51	7,437.47	7,306.12	169.43	36.77	-92.11	-2,233.99	-8,400.27	3,266.40	3,112.93	153.46	21.284		
13,000.00	7,229.20	7,439.01	7,307.66	172.23	36.78	-92.15	-2,233.91	-8,400.30	3,195.43	3,037.55	157.89	20.239		
13,100.00	7,228.88	7,434.00	7,302.66	175.04	36.76	-92.03	-2,234.18	-8,400.20	3,126.07	2,963.62	162.45	19.243		
13,200.00	7,228.57	7,434.00	7,302.66	177.85	36.76	-92.03	-2,234.18	-8,400.20	3,058.39	2,891.21	167.18	18.294		
13,300.00	7,228.26	7,434.00	7,302.66	180.66	36.76	-92.03	-2,234.18	-8,400.20	2,992.53	2,820.47	172.06	17.393		
13,400.00	7,227.95	7,434.00	7,302.66	183.48	36.76	-92.03	-2,234.18	-8,400.20	2,928.60	2,751.52	177.08	16.538		
13,500.00	7,227.64	7,434.00	7,302.66	186.29	36.76	-92.03	-2,234.18	-8,400.20	2,866.73	2,684.49	182.24	15.731		
13,600.00	7,227.33	7,434.00	7,302.66	189.11	36.76	-92.03	-2,234.18	-8,400.20	2,807.06	2,619.54	187.53	14.969		
13,700.00	7,227.01	7,434.00	7,302.66	191.92	36.76	-92.03	-2,234.18	-8,400.20	2,749.74	2,556.81	192.93	14.253		
13,800.00	7,226.70	7,434.00	7,302.66	194.74	36.76	-92.03	-2,234.18	-8,400.20	2,694.91	2,496.48	198.43	13.581		
13,900.00	7,226.39	7,434.00	7,302.66	197.56	36.76	-92.03	-2,234.18	-8,400.20	2,642.73	2,438.72	204.01	12.954		
14,000.00	7,226.08	7,434.00	7,302.66	200.38	36.76	-92.03	-2,234.18	-8,400.20	2,593.35	2,383.71	209.64	12.370		
14,100.00	7,225.77	7,434.00	7,302.66	203.21	36.76	-92.03	-2,234.18	-8,400.20	2,546.95	2,331.64	215.31	11.829		
14,200.00	7,225.45	7,434.00	7,302.66	206.03	36.76	-92.03	-2,234.18	-8,400.20	2,503.68	2,282.71	220.97	11.331		
14,300.00	7,225.14	7,434.00	7,302.66	208.85	36.76	-92.03	-2,234.18	-8,400.20	2,463.71	2,237.12	226.59	10.873		
14,400.00	7,224.83	7,434.00	7,302.66	211.68	36.76	-92.03	-2,234.18	-8,400.20	2,427.20	2,195.07	232.13	10.456		
14,500.00	7,224.52	7,434.00	7,302.66	214.50	36.76	-92.03	-2,234.18	-8,400.20	2,394.32	2,156.76	237.56	10.079		
14,600.00	7,224.21	7,434.00	7,302.66	217.33	36.76	-92.03	-2,234.18	-8,400.20	2,365.22	2,122.39	242.83	9.740		
14,700.00	7,223.89	7,434.00	7,302.66	220.16	36.76	-92.03	-2,234.18	-8,400.20	2,340.02	2,092.14	247.89	9.440		
14,800.00	7,223.58	7,434.00	7,302.66	222.98	36.76	-92.03	-2,234.18	-8,400.20	2,318.87	2,066.18	252.69	9.177		
14,900.00	7,223.27	7,434.00	7,302.66	225.81	36.76	-92.03	-2,234.18	-8,400.20	2,301.88	2,044.67	257.20	8.950		
14,987.41	7,223.00	7,434.00	7,302.66	228.28	36.76	-92.03	-2,234.18	-8,400.20	2,290.50	2,029.63	260.87	8.780 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	30.00	3.28	3.28	-82.78	1,158.01	-9,144.74	9,217.82					
100.00	100.00	70.00	100.00	3.28	3.50	-82.78	1,158.01	-9,144.74	9,217.77	9,210.98	6.78	1,358.569		
200.00	200.00	170.00	200.00	3.34	5.32	-82.78	1,158.01	-9,144.74	9,217.77	9,209.11	8.66	1,064.710		
300.00	300.00	270.00	300.00	3.44	8.35	-82.78	1,158.01	-9,144.74	9,217.77	9,205.97	11.80	781.419		
400.00	400.00	370.00	400.00	3.60	11.64	-82.78	1,158.01	-9,144.74	9,217.77	9,202.52	15.25	604.598		
500.00	500.00	470.00	500.00	3.81	15.02	-82.78	1,158.01	-9,144.74	9,217.77	9,198.94	18.83	489.510		
600.00	600.00	570.00	600.00	4.05	18.45	-82.78	1,158.01	-9,144.74	9,217.77	9,195.27	22.49	409.798		
700.00	699.98	669.98	699.98	4.32	21.89	-24.80	1,158.01	-9,144.74	9,216.22	9,190.01	26.21	351.688		
800.00	799.94	769.94	799.94	4.61	25.35	-24.80	1,158.01	-9,144.74	9,213.52	9,183.57	29.95	307.605		
900.00	899.89	869.89	899.89	4.92	28.81	-24.81	1,158.01	-9,144.74	9,210.83	9,177.10	33.73	273.080		
1,000.00	999.85	969.85	999.85	5.25	32.28	-24.82	1,158.01	-9,144.74	9,208.14	9,170.61	37.53	245.355		
1,100.00	1,099.80	1,069.80	1,099.80	5.60	35.75	-24.83	1,158.01	-9,144.74	9,205.45	9,164.10	41.35	222.627		
1,200.00	1,199.76	1,169.76	1,199.76	5.96	39.23	-24.84	1,158.01	-9,144.74	9,202.75	9,157.57	45.18	203.675		
1,300.00	1,299.72	1,269.72	1,299.72	6.33	42.71	-24.84	1,158.01	-9,144.74	9,200.06	9,151.03	49.03	187.641		
1,400.00	1,399.67	1,369.67	1,399.67	6.71	46.19	-24.85	1,158.01	-9,144.74	9,197.37	9,144.48	52.89	173.906		
1,500.00	1,499.63	1,469.63	1,499.63	7.10	49.67	-24.86	1,158.01	-9,144.74	9,194.67	9,137.92	56.75	162.014		
1,600.00	1,599.58	1,569.58	1,599.58	7.49	53.15	-24.87	1,158.01	-9,144.74	9,191.98	9,131.36	60.62	151.620		
1,700.00	1,699.54	1,669.54	1,699.54	7.88	56.63	-24.87	1,158.01	-9,144.74	9,189.29	9,124.79	64.50	142.462		
1,800.00	1,799.50	1,769.50	1,799.50	8.28	60.12	-24.88	1,158.01	-9,144.74	9,186.60	9,118.21	68.39	134.333		
1,900.00	1,899.45	1,869.45	1,899.45	8.69	63.60	-24.89	1,158.01	-9,144.74	9,183.91	9,111.63	72.27	127.069		
2,000.00	1,999.41	1,969.41	1,999.41	9.10	67.09	-24.90	1,158.01	-9,144.74	9,181.22	9,105.05	76.17	120.541		
2,100.00	2,099.36	2,069.36	2,099.36	9.51	70.57	-24.91	1,158.01	-9,144.74	9,178.52	9,098.46	80.06	114.643		
2,200.00	2,199.32	2,169.32	2,199.32	9.92	74.06	-24.91	1,158.01	-9,144.74	9,175.83	9,091.87	83.96	109.288		
2,300.00	2,299.28	2,269.28	2,299.28	10.34	77.54	-24.92	1,158.01	-9,144.74	9,173.14	9,085.28	87.86	104.406		
2,400.00	2,399.23	2,369.23	2,399.23	10.75	81.03	-24.93	1,158.01	-9,144.74	9,170.45	9,078.69	91.76	99.936		
2,500.00	2,499.19	2,469.19	2,499.19	11.17	84.52	-24.94	1,158.01	-9,144.74	9,167.76	9,072.09	95.67	95.829		
2,600.00	2,599.14	2,569.14	2,599.14	11.60	88.00	-24.94	1,158.01	-9,144.74	9,165.07	9,065.50	99.57	92.043		
2,700.00	2,699.10	2,669.10	2,699.10	12.02	91.49	-24.95	1,158.01	-9,144.74	9,162.38	9,058.90	103.48	88.541		
2,800.00	2,799.06	2,769.06	2,799.06	12.44	94.98	-24.96	1,158.01	-9,144.74	9,159.69	9,052.30	107.39	85.292		
2,900.00	2,899.01	2,869.01	2,899.01	12.87	98.47	-24.97	1,158.01	-9,144.74	9,157.00	9,045.70	111.30	82.271		
3,000.00	2,998.97	2,968.97	2,998.97	13.29	101.95	-24.98	1,158.01	-9,144.74	9,154.31	9,039.10	115.21	79.455		
3,100.00	3,098.92	3,068.92	3,098.92	13.72	105.44	-24.98	1,158.01	-9,144.74	9,151.62	9,032.49	119.13	76.822		
3,200.00	3,198.88	3,168.88	3,198.88	14.14	108.93	-24.99	1,158.01	-9,144.74	9,148.93	9,025.89	123.04	74.357		
3,300.00	3,298.84	3,268.84	3,298.84	14.57	112.42	-25.00	1,158.01	-9,144.74	9,146.24	9,019.29	126.96	72.043		
3,400.00	3,398.79	3,368.79	3,398.79	15.00	115.91	-25.01	1,158.01	-9,144.74	9,143.55	9,012.68	130.87	69.867		
3,500.00	3,498.75	3,468.75	3,498.75	15.43	119.39	-25.02	1,158.01	-9,144.74	9,140.86	9,006.08	134.79	67.817		
3,600.00	3,598.70	3,568.70	3,598.70	15.86	122.88	-25.02	1,158.01	-9,144.74	9,138.17	8,999.47	138.70	65.882		
3,700.00	3,698.66	3,668.66	3,698.66	16.29	126.37	-25.03	1,158.01	-9,144.74	9,135.49	8,992.86	142.62	64.054		
3,800.00	3,798.62	3,768.62	3,798.62	16.72	129.86	-25.04	1,158.01	-9,144.74	9,132.80	8,986.26	146.54	62.323		
3,900.00	3,898.57	3,868.57	3,898.57	17.15	133.35	-25.05	1,158.01	-9,144.74	9,130.11	8,979.65	150.46	60.682		
4,000.00	3,998.53	3,968.53	3,998.53	17.59	136.84	-25.05	1,158.01	-9,144.74	9,127.42	8,973.04	154.38	59.124		
4,100.00	4,098.48	4,068.48	4,098.48	18.02	140.32	-25.06	1,158.01	-9,144.74	9,124.73	8,966.44	158.30	57.643		
4,200.00	4,198.44	4,168.44	4,198.44	18.45	143.81	-25.07	1,158.01	-9,144.74	9,122.05	8,959.83	162.22	56.234		
4,300.00	4,298.40	4,268.40	4,298.40	18.88	147.30	-25.08	1,158.01	-9,144.74	9,119.36	8,953.22	166.14	54.891		
4,400.00	4,398.35	4,368.35	4,398.35	19.32	150.79	-25.09	1,158.01	-9,144.74	9,116.67	8,946.61	170.06	53.609		
4,500.00	4,498.31	4,468.31	4,498.31	19.75	154.28	-25.09	1,158.01	-9,144.74	9,113.98	8,940.00	173.98	52.386		
4,600.00	4,598.26	4,568.26	4,598.26	20.19	157.77	-25.10	1,158.01	-9,144.74	9,111.30	8,933.40	177.90	51.216		
4,700.00	4,698.22	4,668.22	4,698.22	20.62	161.26	-25.11	1,158.01	-9,144.74	9,108.61	8,926.79	181.82	50.096		
4,800.00	4,798.18	4,768.18	4,798.18	21.05	164.74	-25.12	1,158.01	-9,144.74	9,105.92	8,920.18	185.74	49.024		
4,900.00	4,898.13	4,868.13	4,898.13	21.49	168.23	-25.13	1,158.01	-9,144.74	9,103.24	8,913.57	189.67	47.996		
5,000.00	4,998.09	4,968.09	4,998.09	21.92	171.72	-25.13	1,158.01	-9,144.74	9,100.55	8,906.96	193.59	47.010		
5,100.00	5,098.04	5,068.04	5,098.04	22.36	175.21	-25.14	1,158.01	-9,144.74	9,097.86	8,900.35	197.51	46.063		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,168.00	5,198.00	22.79	178.70	-25.15	1,158.01	-9,144.74	9,095.18	8,893.74	201.43	45.152		
5,300.00	5,297.96	5,267.96	5,297.96	23.23	182.19	-25.16	1,158.01	-9,144.74	9,092.49	8,887.13	205.36	44.277		
5,400.00	5,397.91	5,367.91	5,397.91	23.67	185.68	-25.17	1,158.01	-9,144.74	9,089.81	8,880.53	209.28	43.434		
5,500.00	5,497.87	5,467.87	5,497.87	24.10	189.17	-25.17	1,158.01	-9,144.74	9,087.12	8,873.92	213.20	42.622		
5,600.00	5,597.82	5,567.82	5,597.82	24.54	192.66	-25.18	1,158.01	-9,144.74	9,084.44	8,867.31	217.13	41.839		
5,700.00	5,697.78	5,667.78	5,697.78	24.97	196.14	-25.19	1,158.01	-9,144.74	9,081.75	8,860.70	221.05	41.084		
5,800.00	5,797.74	5,767.74	5,797.74	25.41	199.63	-25.20	1,158.01	-9,144.74	9,079.06	8,854.09	224.97	40.356		
5,900.00	5,897.69	5,867.69	5,897.69	25.85	203.12	-25.21	1,158.01	-9,144.74	9,076.38	8,847.48	228.90	39.652		
6,000.00	5,997.65	5,967.65	5,997.65	26.28	206.61	-25.21	1,158.01	-9,144.74	9,073.70	8,840.87	232.82	38.973		
6,100.00	6,097.60	6,067.60	6,097.60	26.72	210.10	-25.22	1,158.01	-9,144.74	9,071.01	8,834.26	236.75	38.315		
6,200.00	6,197.56	6,167.56	6,197.56	27.16	213.59	-25.23	1,158.01	-9,144.74	9,068.33	8,827.66	240.67	37.679		
6,300.00	6,297.52	6,267.52	6,297.52	27.59	217.08	-25.24	1,158.01	-9,144.74	9,065.64	8,821.05	244.60	37.064		
6,400.00	6,397.47	6,367.47	6,397.47	28.03	220.57	-25.25	1,158.01	-9,144.74	9,062.96	8,814.44	248.52	36.468		
6,500.00	6,497.43	6,467.43	6,497.43	28.47	224.06	-25.25	1,158.01	-9,144.74	9,060.28	8,807.83	252.45	35.890		
6,600.00	6,597.38	6,567.38	6,597.38	28.90	227.55	-25.26	1,158.01	-9,144.74	9,057.59	8,801.22	256.37	35.330		
6,700.00	6,697.08	6,667.08	6,697.08	29.34	231.03	0.65	1,158.01	-9,144.74	9,050.88	8,790.59	260.29	34.773		
6,800.00	6,794.63	6,764.63	6,794.63	29.79	234.43	4.38	1,158.01	-9,144.74	9,029.38	8,765.26	264.12	34.186		
6,900.00	6,887.62	6,857.62	6,887.62	30.24	237.68	5.92	1,158.01	-9,144.74	8,993.02	8,725.24	267.78	33.584		
7,000.00	6,973.77	6,943.77	6,973.77	30.70	240.68	7.22	1,158.01	-9,144.74	8,942.67	8,671.52	271.16	32.979		
7,100.00	7,050.94	7,020.94	7,050.94	31.20	243.38	8.76	1,158.01	-9,144.74	8,879.60	8,605.43	274.18	32.387		
7,200.00	7,117.24	7,087.24	7,117.24	31.77	245.69	10.94	1,158.01	-9,144.74	8,805.36	8,528.60	276.76	31.816		
7,300.00	7,171.03	7,141.03	7,171.03	32.46	247.57	14.45	1,158.01	-9,144.74	8,721.77	8,442.93	278.84	31.279		
7,400.00	7,211.00	7,181.00	7,211.00	33.29	248.97	21.02	1,158.01	-9,144.74	8,630.91	8,350.53	280.38	30.783		
7,500.00	7,236.16	7,206.16	7,236.16	34.29	249.84	36.55	1,158.01	-9,144.74	8,535.01	8,253.66	281.35	30.336		
7,600.00	7,245.89	7,215.89	7,245.89	35.43	250.18	81.93	1,158.01	-9,144.74	8,436.45	8,154.70	281.74	29.944		
7,700.00	7,245.73	7,215.73	7,245.73	36.72	250.18	91.31	1,158.01	-9,144.74	8,337.35	8,055.58	281.77	29.589		
7,800.00	7,245.42	7,215.42	7,245.42	38.18	250.17	91.30	1,158.01	-9,144.74	8,238.27	7,956.47	281.80	29.235		
7,900.00	7,245.10	7,215.10	7,245.10	39.80	250.16	91.28	1,158.01	-9,144.74	8,139.21	7,857.38	281.83	28.879		
8,000.00	7,244.79	7,214.79	7,244.79	41.54	250.14	91.27	1,158.01	-9,144.74	8,040.18	7,758.31	281.88	28.524		
8,100.00	7,244.48	7,214.48	7,244.48	43.41	250.13	91.25	1,158.01	-9,144.74	7,941.18	7,659.25	281.93	28.167		
8,200.00	7,244.17	7,214.17	7,244.17	45.38	250.12	91.23	1,158.01	-9,144.74	7,842.19	7,560.20	281.99	27.810		
8,300.00	7,243.86	7,213.86	7,243.86	47.44	250.11	91.22	1,158.01	-9,144.74	7,743.24	7,461.18	282.06	27.452		
8,400.00	7,243.55	7,213.55	7,243.55	49.58	250.10	91.20	1,158.01	-9,144.74	7,644.31	7,362.17	282.14	27.094		
8,500.00	7,243.23	7,213.23	7,243.23	51.78	250.09	91.19	1,158.01	-9,144.74	7,545.41	7,263.18	282.23	26.735		
8,600.00	7,242.92	7,212.92	7,242.92	54.05	250.08	91.17	1,158.01	-9,144.74	7,446.54	7,164.20	282.33	26.375		
8,700.00	7,242.61	7,212.61	7,242.61	56.37	250.07	91.16	1,158.01	-9,144.74	7,347.70	7,065.25	282.45	26.014		
8,800.00	7,242.30	7,212.30	7,242.30	58.74	250.06	91.14	1,158.01	-9,144.74	7,248.89	6,966.32	282.57	25.653		
8,900.00	7,241.99	7,211.99	7,241.99	61.16	250.05	91.12	1,158.01	-9,144.74	7,150.11	6,867.40	282.71	25.291		
9,000.00	7,241.67	7,211.67	7,241.67	63.61	250.04	91.11	1,158.01	-9,144.74	7,051.37	6,768.51	282.86	24.928		
9,100.00	7,241.36	7,211.36	7,241.36	66.09	250.03	91.09	1,158.01	-9,144.74	6,952.67	6,669.64	283.03	24.565		
9,200.00	7,241.05	7,211.05	7,241.05	68.60	250.01	91.08	1,158.01	-9,144.74	6,854.00	6,570.79	283.21	24.201		
9,300.00	7,240.74	7,210.74	7,240.74	71.13	250.00	91.06	1,158.01	-9,144.74	6,755.37	6,471.96	283.41	23.836		
9,400.00	7,240.43	7,210.43	7,240.43	73.70	249.99	91.04	1,158.01	-9,144.74	6,656.79	6,373.16	283.63	23.470		
9,500.00	7,240.11	7,210.11	7,240.11	76.28	249.98	91.03	1,158.01	-9,144.74	6,558.24	6,274.38	283.86	23.104		
9,600.00	7,239.80	7,209.80	7,239.80	78.88	249.97	91.01	1,158.01	-9,144.74	6,459.74	6,175.63	284.11	22.737		
9,700.00	7,239.49	7,209.49	7,239.49	81.50	249.96	91.00	1,158.01	-9,144.74	6,361.29	6,076.91	284.38	22.369		
9,800.00	7,239.18	7,209.18	7,239.18	84.13	249.95	90.98	1,158.01	-9,144.74	6,262.88	5,978.21	284.68	22.000		
9,900.00	7,238.87	7,208.87	7,238.87	86.78	249.94	90.96	1,158.01	-9,144.74	6,164.53	5,879.54	284.99	21.631		
10,000.00	7,238.55	7,208.55	7,238.55	89.44	249.93	90.95	1,158.01	-9,144.74	6,066.23	5,780.90	285.33	21.260		
10,100.00	7,238.24	7,208.24	7,238.24	92.11	249.92	90.93	1,158.01	-9,144.74	5,967.99	5,682.29	285.70	20.889		
10,200.00	7,237.93	7,207.93	7,237.93	94.80	249.91	90.92	1,158.01	-9,144.74	5,869.81	5,583.72	286.09	20.518		
10,300.00	7,237.62	7,207.62	7,237.62	97.49	249.89	90.90	1,158.01	-9,144.74	5,771.69	5,485.18	286.51	20.145		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,207.31	7,237.31	100.19	249.88	90.88	1,158.01	-9,144.74	5,673.63	5,386.68	286.96	19.772		
10,500.00	7,236.99	7,206.99	7,236.99	102.90	249.87	90.87	1,158.01	-9,144.74	5,575.65	5,288.21	287.44	19.398		
10,600.00	7,236.68	7,206.68	7,236.68	105.62	249.86	90.85	1,158.01	-9,144.74	5,477.73	5,189.78	287.95	19.023		
10,700.00	7,236.37	7,206.37	7,236.37	108.35	249.85	90.84	1,158.01	-9,144.74	5,379.90	5,091.40	288.50	18.648		
10,800.00	7,236.06	7,206.06	7,236.06	111.08	249.84	90.82	1,158.01	-9,144.74	5,282.14	4,993.06	289.08	18.272		
10,900.00	7,235.75	7,205.75	7,235.75	113.82	249.83	90.81	1,158.01	-9,144.74	5,184.47	4,894.76	289.71	17.896		
11,000.00	7,235.44	7,205.44	7,235.44	116.56	249.82	90.79	1,158.01	-9,144.74	5,086.89	4,796.52	290.37	17.519		
11,100.00	7,235.12	7,205.12	7,235.12	119.31	249.81	90.77	1,158.01	-9,144.74	4,989.41	4,698.33	291.08	17.141		
11,200.00	7,234.81	7,204.81	7,234.81	122.07	249.80	90.76	1,158.01	-9,144.74	4,892.03	4,600.19	291.84	16.763		
11,300.00	7,234.50	7,204.50	7,234.50	124.83	249.79	90.74	1,158.01	-9,144.74	4,794.75	4,502.11	292.64	16.384		
11,400.00	7,234.19	7,204.19	7,234.19	127.59	249.77	90.73	1,158.01	-9,144.74	4,697.59	4,404.09	293.50	16.005		
11,500.00	7,233.88	7,203.88	7,233.88	130.36	249.76	90.71	1,158.01	-9,144.74	4,600.55	4,306.14	294.42	15.626		
11,600.00	7,233.56	7,203.56	7,233.56	133.13	249.75	90.69	1,158.01	-9,144.74	4,503.65	4,208.26	295.39	15.246		
11,700.00	7,233.25	7,203.25	7,233.25	135.91	249.74	90.68	1,158.01	-9,144.74	4,406.88	4,110.45	296.43	14.867		
11,800.00	7,232.94	7,202.94	7,232.94	138.68	249.73	90.66	1,158.01	-9,144.74	4,310.25	4,012.73	297.53	14.487		
11,900.00	7,232.63	7,202.63	7,232.63	141.47	249.72	90.65	1,158.01	-9,144.74	4,213.79	3,915.09	298.70	14.107		
12,000.00	7,232.32	7,202.32	7,232.32	144.25	249.71	90.63	1,158.01	-9,144.74	4,117.49	3,817.54	299.95	13.727		
12,100.00	7,232.00	7,202.00	7,232.00	147.04	249.70	90.61	1,158.01	-9,144.74	4,021.38	3,720.10	301.28	13.348		
12,200.00	7,231.69	7,201.69	7,231.69	149.83	249.69	90.60	1,158.01	-9,144.74	3,925.45	3,622.76	302.70	12.968		
12,300.00	7,231.38	7,201.38	7,231.38	152.62	249.68	90.58	1,158.01	-9,144.74	3,829.74	3,525.54	304.20	12.589		
12,400.00	7,231.07	7,201.07	7,231.07	155.42	249.67	90.57	1,158.01	-9,144.74	3,734.25	3,428.44	305.81	12.211		
12,500.00	7,230.76	7,200.76	7,230.76	158.22	249.65	90.55	1,158.01	-9,144.74	3,639.01	3,331.49	307.52	11.833		
12,600.00	7,230.44	7,200.44	7,230.44	161.01	249.64	90.53	1,158.01	-9,144.74	3,544.02	3,234.68	309.34	11.457		
12,700.00	7,230.13	7,200.13	7,230.13	163.82	249.63	90.52	1,158.01	-9,144.74	3,449.32	3,138.03	311.29	11.081		
12,800.00	7,229.82	7,200.18	7,229.82	166.62	249.63	90.50	1,158.01	-9,144.74	3,354.93	3,041.55	313.37	10.706		
12,900.00	7,229.51	7,200.49	7,229.51	169.43	249.65	90.49	1,158.01	-9,144.74	3,260.87	2,945.26	315.61	10.332		
13,000.00	7,229.20	7,200.80	7,229.20	172.23	249.66	90.47	1,158.01	-9,144.74	3,167.17	2,849.18	317.99	9.960		
13,100.00	7,228.88	7,201.12	7,228.88	175.04	249.67	90.46	1,158.01	-9,144.74	3,073.87	2,753.33	320.54	9.590		
13,200.00	7,228.57	7,201.43	7,228.57	177.85	249.68	90.44	1,158.01	-9,144.74	2,981.01	2,657.75	323.26	9.222		
13,300.00	7,228.26	7,201.74	7,228.26	180.66	249.69	90.42	1,158.01	-9,144.74	2,888.62	2,562.45	326.18	8.856		
13,400.00	7,227.95	7,202.05	7,227.95	183.48	249.70	90.41	1,158.01	-9,144.74	2,796.76	2,467.47	329.29	8.493		
13,500.00	7,227.64	7,202.36	7,227.64	186.29	249.71	90.39	1,158.01	-9,144.74	2,705.48	2,372.85	332.63	8.134		
13,600.00	7,227.33	7,202.67	7,227.33	189.11	249.72	90.38	1,158.01	-9,144.74	2,614.83	2,278.62	336.21	7.777		
13,700.00	7,227.01	7,202.99	7,227.01	191.92	249.73	90.36	1,158.01	-9,144.74	2,524.88	2,184.84	340.05	7.425		
13,800.00	7,226.70	7,203.30	7,226.70	194.74	249.74	90.34	1,158.01	-9,144.74	2,435.73	2,091.56	344.17	7.077		
13,900.00	7,226.39	7,203.61	7,226.39	197.56	249.75	90.33	1,158.01	-9,144.74	2,347.44	1,998.85	348.59	6.734		
14,000.00	7,226.08	7,203.92	7,226.08	200.38	249.77	90.31	1,158.01	-9,144.74	2,260.13	1,906.79	353.35	6.396		
14,100.00	7,225.77	7,204.23	7,225.77	203.21	249.78	90.30	1,158.01	-9,144.74	2,173.92	1,815.46	358.46	6.065		
14,200.00	7,225.45	7,204.55	7,225.45	206.03	249.79	90.28	1,158.01	-9,144.74	2,088.94	1,724.98	363.96	5.739		
14,300.00	7,225.14	7,204.86	7,225.14	208.85	249.80	90.26	1,158.01	-9,144.74	2,005.34	1,635.46	369.88	5.422		
14,400.00	7,224.83	7,205.17	7,224.83	211.68	249.81	90.25	1,158.01	-9,144.74	1,923.30	1,547.07	376.23	5.112		
14,500.00	7,224.52	7,205.48	7,224.52	214.50	249.82	90.23	1,158.01	-9,144.74	1,843.05	1,459.98	383.06	4.811		
14,600.00	7,224.21	7,205.79	7,224.21	217.33	249.83	90.22	1,158.01	-9,144.74	1,764.81	1,374.42	390.39	4.521		
14,700.00	7,223.89	7,206.11	7,223.89	220.16	249.84	90.20	1,158.01	-9,144.74	1,688.86	1,290.64	398.23	4.241		
14,800.00	7,223.58	7,206.42	7,223.58	222.98	249.85	90.18	1,158.01	-9,144.74	1,615.54	1,208.96	406.58	3.973		
14,900.00	7,223.27	7,206.73	7,223.27	225.81	249.86	90.17	1,158.01	-9,144.74	1,545.22	1,129.77	415.45	3.719		
14,987.41	7,223.00	7,207.00	7,223.00	228.28	249.87	90.16	1,158.01	-9,144.74	1,486.53	1,062.95	423.59	3.509 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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							
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	14.18	1.18	3.28	3.28	3.05	2,204.41	117.36	2,207.53				
100.00	100.00	123.93	110.93	3.28	3.30	3.04	2,204.14	116.98	2,207.27	2,200.69	6.58	335.440	
200.00	200.00	232.49	219.49	3.34	3.37	3.04	2,203.34	116.85	2,206.52	2,199.81	6.71	328.855	
300.00	300.00	330.06	317.05	3.44	3.49	3.04	2,202.49	116.82	2,205.65	2,198.71	6.94	317.896	
400.00	400.00	421.11	408.10	3.60	3.65	3.02	2,201.99	116.28	2,205.07	2,197.82	7.25	304.191	
479.00	479.00	492.01	479.00	3.76	3.79	3.01	2,201.89	115.67	2,204.93	2,197.38	7.55	292.119	
500.00	500.00	511.16	498.15	3.81	3.83	3.00	2,201.91	115.50	2,204.94	2,197.30	7.64	288.771	
600.00	600.00	603.40	590.38	4.05	4.05	2.98	2,202.19	114.61	2,205.20	2,197.10	8.09	272.464	
700.00	699.98	694.10	681.08	4.32	4.29	61.00	2,202.81	114.18	2,205.02	2,196.42	8.60	256.405	
800.00	799.94	814.06	801.03	4.61	4.63	61.09	2,203.33	114.22	2,204.03	2,194.79	9.24	238.603	
900.00	899.89	896.86	883.83	4.92	4.89	61.15	2,203.71	114.40	2,203.04	2,193.23	9.81	224.625	
1,000.00	999.85	1,017.18	1,004.15	5.25	5.28	61.23	2,204.04	114.73	2,201.90	2,191.37	10.53	209.066	
1,100.00	1,099.80	1,112.38	1,099.35	5.60	5.60	61.31	2,204.00	115.20	2,200.45	2,189.25	11.20	196.401	
1,200.00	1,199.76	1,207.93	1,194.90	5.96	5.94	61.40	2,204.10	115.96	2,199.18	2,187.28	11.90	184.812	
1,300.00	1,299.72	1,318.17	1,305.14	6.33	6.34	61.49	2,203.97	116.61	2,197.67	2,185.01	12.67	173.492	
1,400.00	1,399.67	1,413.31	1,400.27	6.71	6.69	61.55	2,203.88	116.69	2,196.17	2,182.77	13.40	163.935	
1,500.00	1,499.63	1,524.66	1,511.63	7.10	7.11	61.64	2,203.52	116.94	2,194.45	2,180.25	14.20	154.539	
1,600.00	1,599.58	1,629.83	1,616.79	7.49	7.51	61.71	2,202.77	117.07	2,192.34	2,177.34	14.99	146.227	
1,700.00	1,699.54	1,731.05	1,718.01	7.88	7.90	61.77	2,202.00	116.65	2,190.15	2,174.37	15.78	138.787	
1,800.00	1,799.50	1,830.58	1,817.53	8.28	8.29	61.82	2,201.14	115.84	2,187.82	2,171.25	16.57	132.029	
1,900.00	1,899.45	1,924.30	1,911.25	8.69	8.66	61.87	2,200.65	115.05	2,185.84	2,168.49	17.35	126.018	
2,000.00	1,999.41	2,030.28	2,017.22	9.10	9.08	61.92	2,199.85	114.25	2,183.63	2,165.46	18.17	120.149	
2,100.00	2,099.36	2,120.57	2,107.50	9.51	9.44	61.95	2,199.41	113.16	2,181.66	2,162.71	18.95	115.145	
2,200.00	2,199.32	2,212.51	2,199.44	9.92	9.81	61.99	2,199.27	112.11	2,180.04	2,160.31	19.73	110.491	
2,300.00	2,299.28	2,295.32	2,282.24	10.34	10.14	62.03	2,199.64	111.43	2,179.04	2,158.56	20.48	106.398	
2,400.00	2,399.23	2,385.47	2,372.39	10.75	10.51	62.06	2,200.63	110.51	2,178.66	2,157.40	21.26	102.466	
2,430.20	2,429.42	2,412.24	2,399.14	10.88	10.62	62.07	2,201.01	110.11	2,178.64	2,157.14	21.50	101.345	
2,500.00	2,499.19	2,472.53	2,459.42	11.17	10.86	62.09	2,202.04	109.21	2,178.79	2,156.76	22.03	98.881	
2,600.00	2,599.14	2,560.91	2,547.76	11.60	11.23	62.11	2,204.01	107.89	2,179.51	2,156.69	22.81	95.532	
2,700.00	2,699.10	2,669.07	2,655.88	12.02	11.67	62.14	2,206.67	106.18	2,180.48	2,156.80	23.68	92.077	
2,800.00	2,799.06	2,769.48	2,756.26	12.44	12.09	62.16	2,208.64	104.60	2,180.94	2,156.42	24.52	88.954	
2,900.00	2,899.01	2,876.12	2,862.85	12.87	12.53	62.17	2,210.84	102.46	2,181.47	2,156.08	25.38	85.942	
3,000.00	2,998.97	2,981.65	2,968.34	13.29	12.97	62.18	2,212.60	100.04	2,181.57	2,155.33	26.25	83.119	
3,100.00	3,098.92	3,072.12	3,058.78	13.72	13.34	62.19	2,214.15	98.22	2,181.76	2,154.71	27.05	80.665	
3,200.00	3,198.88	3,175.55	3,162.17	14.14	13.77	62.21	2,216.23	96.33	2,182.25	2,154.35	27.90	78.204	
3,300.00	3,298.84	3,263.55	3,250.15	14.57	14.14	62.23	2,217.94	94.93	2,182.71	2,154.01	28.70	76.061	
3,400.00	3,398.79	3,346.17	3,332.72	15.00	14.48	62.25	2,220.22	93.67	2,183.97	2,154.50	29.47	74.119	
3,500.00	3,498.75	3,447.97	3,434.46	15.43	14.91	62.28	2,223.62	92.62	2,185.84	2,155.52	30.32	72.093	
3,600.00	3,598.70	3,555.11	3,541.56	15.86	15.36	62.35	2,226.38	92.33	2,186.99	2,155.79	31.20	70.099	
3,700.00	3,698.66	3,679.89	3,666.31	16.29	15.88	62.40	2,229.41	91.51	2,188.07	2,155.91	32.15	68.048	
3,788.45	3,787.07	3,770.63	3,757.04	16.67	16.26	62.44	2,230.62	90.65	2,187.97	2,155.05	32.92	66.471	
3,800.00	3,798.62	3,781.38	3,767.78	16.72	16.30	62.45	2,230.78	90.55	2,187.97	2,154.96	33.01	66.280	
3,900.00	3,898.57	3,891.05	3,877.43	17.15	16.76	62.48	2,232.28	89.00	2,187.86	2,153.96	33.90	64.533	
4,000.00	3,998.53	4,013.31	3,999.65	17.59	17.28	62.48	2,233.09	86.04	2,186.96	2,152.12	34.85	62.759	
4,100.00	4,098.48	4,111.51	4,097.81	18.02	17.69	62.48	2,233.32	83.31	2,185.60	2,149.91	35.69	61.233	
4,200.00	4,198.44	4,199.35	4,185.62	18.45	18.06	62.48	2,233.75	81.20	2,184.54	2,148.04	36.50	59.856	
4,300.00	4,298.40	4,296.79	4,283.04	18.88	18.47	62.50	2,234.53	79.40	2,183.81	2,146.47	37.34	58.485	
4,400.00	4,398.35	4,382.67	4,368.92	19.32	18.83	62.53	2,235.49	78.26	2,183.46	2,145.33	38.13	57.257	
4,403.08	4,401.43	4,385.31	4,371.55	19.33	18.84	62.53	2,235.53	78.23	2,183.46	2,145.30	38.16	57.220	
4,500.00	4,498.31	4,476.77	4,462.99	19.75	19.23	62.57	2,237.00	77.40	2,183.62	2,144.65	38.96	56.042	
4,600.00	4,598.26	4,564.46	4,550.66	20.19	19.60	62.60	2,238.71	76.25	2,184.10	2,144.34	39.77	54.924	
4,700.00	4,698.22	4,671.76	4,657.92	20.62	20.05	62.62	2,241.24	74.41	2,184.96	2,144.31	40.65	53.745	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
4,800.00	4,798.18	4,785.04	4,771.16	21.05	20.53	62.63	2,243.12	72.21	2,185.09	2,143.52	41.57	52.565		
4,900.00	4,898.13	4,904.82	4,890.89	21.49	21.04	62.64	2,244.32	69.32	2,184.53	2,142.03	42.51	51.389		
5,000.00	4,998.09	4,990.75	4,976.79	21.92	21.40	62.63	2,245.11	66.92	2,183.86	2,140.55	43.31	50.425		
5,100.00	5,098.04	5,100.68	5,086.67	22.36	21.87	62.63	2,246.23	64.00	2,183.30	2,139.09	44.21	49.385		
5,200.00	5,198.00	5,190.41	5,176.39	22.79	22.25	62.65	2,247.04	62.47	2,182.69	2,137.67	45.02	48.478		
5,300.00	5,297.96	5,284.92	5,270.89	23.23	22.65	62.68	2,248.20	61.31	2,182.45	2,136.59	45.86	47.590		
5,400.00	5,397.91	5,384.12	5,370.07	23.67	23.07	62.72	2,249.55	60.28	2,182.37	2,135.65	46.72	46.716		
5,499.11	5,496.98	5,481.42	5,467.36	24.10	23.48	62.78	2,250.86	59.95	2,182.32	2,134.76	47.56	45.887		
5,500.00	5,497.87	5,482.29	5,468.23	24.10	23.48	62.78	2,250.87	59.94	2,182.32	2,134.75	47.57	45.879		
5,600.00	5,597.82	5,570.92	5,556.85	24.54	23.86	62.83	2,252.28	59.86	2,182.54	2,134.17	48.38	45.116		
5,700.00	5,697.78	5,675.59	5,661.49	24.97	24.30	62.92	2,254.23	60.43	2,183.10	2,133.84	49.26	44.321		
5,800.00	5,797.74	5,796.64	5,782.53	25.41	24.81	63.02	2,255.61	61.39	2,182.97	2,132.76	50.21	43.479		
5,900.00	5,897.69	5,908.37	5,894.27	25.85	25.29	63.10	2,256.10	61.50	2,182.06	2,130.95	51.12	42.689		
6,000.00	5,997.65	6,028.84	6,014.73	26.28	25.80	63.18	2,255.67	61.13	2,180.33	2,128.27	52.06	41.885		
6,100.00	6,097.60	6,134.43	6,120.32	26.72	26.24	63.24	2,254.73	60.59	2,178.05	2,125.11	52.93	41.146		
6,200.00	6,197.56	6,234.15	6,220.03	27.16	26.67	63.30	2,253.70	60.07	2,175.64	2,121.85	53.79	40.445		
6,300.00	6,297.52	6,329.17	6,315.04	27.59	27.07	63.35	2,252.89	59.31	2,173.38	2,118.75	54.63	39.781		
6,400.00	6,397.47	6,420.50	6,406.37	28.03	27.46	63.38	2,252.38	58.17	2,171.39	2,115.93	55.46	39.153		
6,500.00	6,497.43	6,504.17	6,490.03	28.47	27.81	63.41	2,252.49	56.98	2,170.05	2,113.80	56.26	38.575		
6,600.00	6,597.38	6,617.70	6,603.54	28.90	28.30	63.45	2,252.62	55.60	2,168.72	2,111.55	57.17	37.934		
6,700.00	6,697.08	6,722.38	6,708.22	29.34	28.74	63.52	2,252.35	54.01	2,167.42	2,109.37	58.05	37.336		
6,739.24	6,735.75	6,762.76	6,748.59	29.52	28.91	91.71	2,252.20	53.34	2,167.30	2,108.90	58.40	37.114 CC		
6,800.00	6,794.63	6,823.22	6,809.04	29.79	29.17	93.50	2,251.90	52.38	2,167.63	2,108.71	58.92	36.788 ES		
6,900.00	6,887.62	6,915.86	6,901.66	30.24	29.57	95.19	2,251.45	50.92	2,169.99	2,110.23	59.76	36.310		
7,000.00	6,973.77	6,999.65	6,985.45	30.70	29.92	96.30	2,251.07	50.00	2,175.25	2,114.68	60.58	35.908		
7,100.00	7,050.94	7,081.41	7,067.21	31.20	30.27	97.14	2,250.60	49.61	2,184.11	2,122.69	61.41	35.564		
7,200.00	7,117.24	7,164.36	7,150.16	31.77	30.62	97.77	2,249.72	49.52	2,197.11	2,134.80	62.31	35.261		
7,300.00	7,171.03	7,226.84	7,212.63	32.46	30.89	97.65	2,248.60	49.47	2,214.81	2,151.60	63.22	35.034		
7,400.00	7,211.00	7,266.87	7,252.64	33.29	31.06	96.55	2,247.83	49.45	2,238.08	2,173.93	64.15	34.888		
7,500.00	7,236.16	7,292.09	7,277.86	34.29	31.16	94.53	2,247.34	49.43	2,266.98	2,201.85	65.13	34.807		
7,600.00	7,245.89	7,301.89	7,287.66	35.43	31.20	91.54	2,247.16	49.43	2,301.09	2,234.97	66.12	34.801 SF		
7,700.00	7,245.73	7,301.81	7,287.58	36.72	31.20	91.04	2,247.16	49.43	2,339.49	2,272.35	67.13	34.848		
7,800.00	7,245.42	7,301.58	7,287.35	38.18	31.20	91.03	2,247.16	49.43	2,381.47	2,313.25	68.22	34.908		
7,900.00	7,245.10	7,301.34	7,287.11	39.80	31.20	91.03	2,247.17	49.43	2,426.85	2,357.49	69.36	34.990		
8,000.00	7,244.79	7,301.11	7,286.88	41.54	31.20	91.02	2,247.17	49.43	2,475.44	2,404.92	70.52	35.102		
8,100.00	7,244.48	7,300.88	7,286.65	43.41	31.20	91.02	2,247.18	49.43	2,527.06	2,455.37	71.69	35.249		
8,200.00	7,244.17	7,300.65	7,286.42	45.38	31.20	91.01	2,247.18	49.43	2,581.51	2,508.66	72.85	35.435		
8,300.00	7,243.86	7,300.41	7,286.18	47.44	31.20	91.00	2,247.18	49.43	2,638.64	2,564.65	73.99	35.661		
8,400.00	7,243.55	7,300.18	7,285.95	49.58	31.20	91.00	2,247.19	49.43	2,698.26	2,623.16	75.11	35.926		
8,500.00	7,243.23	7,299.95	7,285.72	51.78	31.20	90.99	2,247.19	49.43	2,760.22	2,684.04	76.18	36.231		
8,600.00	7,242.92	7,299.72	7,285.49	54.05	31.20	90.99	2,247.20	49.43	2,824.36	2,747.14	77.22	36.574		
8,700.00	7,242.61	7,299.48	7,285.25	56.37	31.19	90.98	2,247.20	49.43	2,890.54	2,812.32	78.22	36.954		
8,800.00	7,242.30	7,299.25	7,285.02	58.74	31.19	90.97	2,247.21	49.43	2,958.62	2,879.44	79.17	37.369		
8,900.00	7,241.99	7,299.02	7,284.79	61.16	31.19	90.97	2,247.21	49.43	3,028.47	2,948.38	80.08	37.816		
9,000.00	7,241.67	7,298.79	7,284.56	63.61	31.19	90.96	2,247.22	49.43	3,099.97	3,019.02	80.95	38.294		
9,100.00	7,241.36	7,298.55	7,284.32	66.09	31.19	90.95	2,247.22	49.43	3,173.02	3,091.24	81.78	38.802		
9,200.00	7,241.05	7,298.32	7,284.09	68.60	31.19	90.95	2,247.23	49.43	3,247.50	3,164.94	82.56	39.336		
9,300.00	7,240.74	7,298.09	7,283.86	71.13	31.19	90.94	2,247.23	49.43	3,323.32	3,240.01	83.30	39.895		
9,400.00	7,240.43	7,297.86	7,283.63	73.70	31.19	90.94	2,247.23	49.43	3,400.39	3,316.38	84.01	40.478		
9,500.00	7,240.11	7,297.62	7,283.39	76.28	31.19	90.93	2,247.24	49.43	3,478.62	3,393.95	84.67	41.083		
9,600.00	7,239.80	7,297.39	7,283.16	78.88	31.19	90.92	2,247.24	49.43	3,557.95	3,472.65	85.31	41.707		
9,700.00	7,239.49	7,297.16	7,282.93	81.50	31.18	90.92	2,247.25	49.43	3,638.30	3,552.39	85.91	42.351		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
9,800.00	7,239.18	7,296.93	7,282.70	84.13	31.18	90.91	2,247.25	49.43	3,719.60	3,633.12	86.48	43.012		
9,900.00	7,238.87	7,296.69	7,282.46	86.78	31.18	90.90	2,247.26	49.43	3,801.79	3,714.77	87.02	43.689		
10,000.00	7,238.55	7,296.46	7,282.23	89.44	31.18	90.90	2,247.26	49.43	3,884.82	3,797.29	87.53	44.382		
10,100.00	7,238.24	7,296.23	7,282.00	92.11	31.18	90.89	2,247.27	49.43	3,968.63	3,880.61	88.02	45.088		
10,200.00	7,237.93	7,296.00	7,281.77	94.80	31.18	90.89	2,247.27	49.43	4,053.17	3,964.69	88.48	45.808		
10,300.00	7,237.62	7,295.76	7,281.53	97.49	31.18	90.88	2,247.27	49.43	4,138.41	4,049.49	88.92	46.539		
10,400.00	7,237.31	7,295.53	7,281.30	100.19	31.18	90.87	2,247.28	49.43	4,224.29	4,134.95	89.34	47.282		
10,500.00	7,236.99	7,295.30	7,281.07	102.90	31.18	90.87	2,247.28	49.43	4,310.78	4,221.04	89.74	48.036		
10,600.00	7,236.68	7,295.07	7,280.84	105.62	31.18	90.86	2,247.29	49.43	4,397.84	4,307.72	90.12	48.799		
10,700.00	7,236.37	7,294.83	7,280.60	108.35	31.17	90.85	2,247.29	49.43	4,485.45	4,394.96	90.48	49.572		
10,800.00	7,236.06	7,294.60	7,280.37	111.08	31.17	90.85	2,247.30	49.43	4,573.56	4,482.73	90.83	50.353		
10,900.00	7,235.75	7,294.37	7,280.14	113.82	31.17	90.84	2,247.30	49.43	4,662.15	4,570.99	91.16	51.142		
11,000.00	7,235.44	7,294.14	7,279.91	116.56	31.17	90.84	2,247.31	49.43	4,751.19	4,659.71	91.48	51.938		
11,100.00	7,235.12	7,293.90	7,279.67	119.31	31.17	90.83	2,247.31	49.43	4,840.66	4,748.88	91.78	52.742		
11,200.00	7,234.81	7,293.67	7,279.44	122.07	31.17	90.82	2,247.31	49.43	4,930.54	4,838.47	92.07	53.552		
11,300.00	7,234.50	7,293.44	7,279.21	124.83	31.17	90.82	2,247.32	49.43	5,020.80	4,928.45	92.35	54.368		
11,400.00	7,234.19	7,293.21	7,278.98	127.59	31.17	90.81	2,247.32	49.43	5,111.42	5,018.80	92.62	55.190		
11,500.00	7,233.88	7,292.97	7,278.74	130.36	31.17	90.80	2,247.33	49.43	5,202.38	5,109.51	92.87	56.017		
11,600.00	7,233.56	7,292.74	7,278.51	133.13	31.17	90.80	2,247.33	49.43	5,293.68	5,200.56	93.12	56.849		
11,700.00	7,233.25	7,292.51	7,278.28	135.91	31.16	90.79	2,247.34	49.43	5,385.28	5,291.92	93.36	57.686		
11,800.00	7,232.94	7,292.28	7,278.05	138.68	31.16	90.79	2,247.34	49.43	5,477.17	5,383.59	93.58	58.527		
11,900.00	7,232.63	7,292.04	7,277.81	141.47	31.16	90.78	2,247.35	49.43	5,569.34	5,475.54	93.80	59.372		
12,000.00	7,232.32	7,291.81	7,277.58	144.25	31.16	90.77	2,247.35	49.43	5,661.78	5,567.77	94.02	60.221		
12,100.00	7,232.00	7,291.58	7,277.35	147.04	31.16	90.77	2,247.35	49.43	5,754.48	5,660.25	94.22	61.074		
12,200.00	7,231.69	7,291.34	7,277.12	149.83	31.16	90.76	2,247.36	49.43	5,847.41	5,752.99	94.42	61.930		
12,300.00	7,231.38	7,291.11	7,276.88	152.62	31.16	90.75	2,247.36	49.43	5,940.57	5,845.96	94.61	62.789		
12,400.00	7,231.07	7,290.88	7,276.65	155.42	31.16	90.75	2,247.37	49.43	6,033.95	5,939.16	94.80	63.651		
12,500.00	7,230.76	7,290.65	7,276.42	158.22	31.16	90.74	2,247.37	49.43	6,127.54	6,032.57	94.98	64.516		
12,600.00	7,230.44	7,290.41	7,276.19	161.01	31.16	90.74	2,247.38	49.43	6,221.33	6,126.18	95.15	65.383		
12,700.00	7,230.13	7,290.18	7,275.95	163.82	31.16	90.73	2,247.38	49.43	6,315.31	6,219.99	95.32	66.253		
12,800.00	7,229.82	7,289.95	7,275.72	166.62	31.15	90.72	2,247.39	49.43	6,409.48	6,313.99	95.49	67.124		
12,900.00	7,229.51	7,289.72	7,275.49	169.43	31.15	90.72	2,247.39	49.43	6,503.81	6,408.17	95.65	67.998		
13,000.00	7,229.20	7,289.48	7,275.26	172.23	31.15	90.71	2,247.39	49.43	6,598.32	6,502.51	95.80	68.874		
13,100.00	7,228.88	7,289.25	7,275.02	175.04	31.15	90.71	2,247.40	49.43	6,692.98	6,597.02	95.95	69.752		
13,200.00	7,228.57	7,289.02	7,274.79	177.85	31.15	90.70	2,247.40	49.43	6,787.79	6,691.69	96.10	70.631		
13,300.00	7,228.26	7,288.79	7,274.56	180.66	31.15	90.69	2,247.41	49.43	6,882.76	6,786.51	96.25	71.511		
13,400.00	7,227.95	7,288.55	7,274.33	183.48	31.15	90.69	2,247.41	49.44	6,977.86	6,881.47	96.39	72.393		
13,500.00	7,227.64	7,288.32	7,274.09	186.29	31.15	90.68	2,247.42	49.44	7,073.10	6,976.57	96.53	73.277		
13,600.00	7,227.33	7,288.09	7,273.86	189.11	31.15	90.67	2,247.42	49.44	7,168.47	7,071.81	96.66	74.161		
13,700.00	7,227.01	7,287.86	7,273.63	191.92	31.15	90.67	2,247.43	49.44	7,263.96	7,167.17	96.79	75.047		
13,800.00	7,226.70	7,287.62	7,273.40	194.74	31.14	90.66	2,247.43	49.44	7,359.57	7,262.65	96.92	75.934		
13,900.00	7,226.39	7,287.39	7,273.16	197.56	31.14	90.66	2,247.43	49.44	7,455.30	7,358.25	97.05	76.821		
14,000.00	7,226.08	7,287.16	7,272.93	200.38	31.14	90.65	2,247.44	49.44	7,551.14	7,453.97	97.17	77.709		
14,100.00	7,225.77	7,286.93	7,272.70	203.21	31.14	90.64	2,247.44	49.44	7,647.09	7,549.79	97.29	78.598		
14,200.00	7,225.45	7,286.69	7,272.47	206.03	31.14	90.64	2,247.45	49.44	7,743.13	7,645.72	97.41	79.488		
14,300.00	7,225.14	7,286.46	7,272.23	208.85	31.14	90.63	2,247.45	49.44	7,839.28	7,741.75	97.53	80.378		
14,400.00	7,224.83	7,286.23	7,272.00	211.68	31.14	90.62	2,247.46	49.44	7,935.52	7,837.88	97.65	81.269		
14,500.00	7,224.52	7,286.00	7,271.77	214.50	31.14	90.62	2,247.46	49.44	8,031.86	7,934.10	97.76	82.160		
14,600.00	7,224.21	7,285.76	7,271.54	217.33	31.14	90.61	2,247.47	49.44	8,128.28	8,030.41	97.87	83.052		
14,700.00	7,223.89	7,285.53	7,271.30	220.16	31.14	90.61	2,247.47	49.44	8,224.79	8,126.80	97.98	83.943		
14,800.00	7,223.58	7,285.30	7,271.07	222.98	31.13	90.60	2,247.48	49.44	8,321.38	8,223.29	98.09	84.835		
14,900.00	7,223.27	7,285.07	7,270.84	225.81	31.13	90.59	2,247.48	49.44	8,418.04	8,319.85	98.20	85.727		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b>	HARVESTERS STATE 7-15 PAD - MONTERA 10-34 (PR_75CC) - OH - OH											<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b>	100-GYRO-NS											<b>Offset Well Error:</b>	3.28 ft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Distance</b>						<b>Warning</b>
<b>Measured Depth</b>	<b>Vertical Depth</b>	<b>Measured Depth</b>	<b>Vertical Depth</b>	<b>Reference</b>	<b>Offset</b>	<b>Highside Toolface</b>	<b>Offset Wellbore Centre</b>		<b>Between Centres</b>	<b>Between Ellipses</b>	<b>Minimum Separation</b>	<b>Separation Factor</b>	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
14,987.41	7,223.00	7,284.86	7,270.64	228.28	31.13	90.59	2,247.48	49.44	8,502.61	8,404.32	98.29	86.507	



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	60.00	3.28	3.28	-166.07	-4,219.71	-1,046.53	4,347.97				
100.00	100.00	40.00	100.00	3.28	3.35	-166.07	-4,219.71	-1,046.53	4,347.55	4,340.91	6.64	654.928	
200.00	200.00	140.00	200.00	3.34	4.54	-166.07	-4,219.71	-1,046.53	4,347.55	4,339.67	7.88	551.786	
300.00	300.00	240.00	300.00	3.44	7.40	-166.07	-4,219.71	-1,046.53	4,347.55	4,336.71	10.84	400.900	
400.00	400.00	340.00	400.00	3.60	10.64	-166.07	-4,219.71	-1,046.53	4,347.55	4,333.31	14.25	305.192	
500.00	500.00	440.00	500.00	3.81	14.00	-166.07	-4,219.71	-1,046.53	4,347.55	4,329.74	17.81	244.101	
600.00	600.00	540.00	600.00	4.05	17.42	-166.07	-4,219.71	-1,046.53	4,347.55	4,326.09	21.46	202.553	
700.00	699.98	639.98	699.98	4.32	20.86	-108.09	-4,219.71	-1,046.53	4,348.08	4,322.91	25.17	172.745	
800.00	799.94	739.94	799.94	4.61	24.31	-108.12	-4,219.71	-1,046.53	4,349.00	4,320.09	28.92	150.405	
900.00	899.89	839.89	899.89	4.92	27.77	-108.16	-4,219.71	-1,046.53	4,349.93	4,317.24	32.69	133.061	
1,000.00	999.85	939.85	999.85	5.25	31.24	-108.20	-4,219.71	-1,046.53	4,350.85	4,314.36	36.49	119.229	
1,100.00	1,099.80	1,039.80	1,099.80	5.60	34.71	-108.23	-4,219.71	-1,046.53	4,351.78	4,311.47	40.31	107.955	
1,200.00	1,199.76	1,139.76	1,199.76	5.96	38.18	-108.27	-4,219.71	-1,046.53	4,352.71	4,308.56	44.15	98.598	
1,300.00	1,299.72	1,239.72	1,299.72	6.33	41.66	-108.31	-4,219.71	-1,046.53	4,353.64	4,305.65	47.99	90.714	
1,400.00	1,399.67	1,339.67	1,399.67	6.71	45.14	-108.34	-4,219.71	-1,046.53	4,354.58	4,302.72	51.85	83.983	
1,500.00	1,499.63	1,439.63	1,499.63	7.10	48.62	-108.38	-4,219.71	-1,046.53	4,355.51	4,299.79	55.72	78.172	
1,600.00	1,599.58	1,539.58	1,599.58	7.49	52.10	-108.42	-4,219.71	-1,046.53	4,356.45	4,296.86	59.59	73.106	
1,700.00	1,699.54	1,639.54	1,699.54	7.88	55.59	-108.46	-4,219.71	-1,046.53	4,357.39	4,293.92	63.47	68.653	
1,800.00	1,799.50	1,739.50	1,799.50	8.28	59.07	-108.49	-4,219.71	-1,046.53	4,358.33	4,290.97	67.35	64.707	
1,900.00	1,899.45	1,839.45	1,899.45	8.69	62.56	-108.53	-4,219.71	-1,046.53	4,359.27	4,288.03	71.24	61.188	
2,000.00	1,999.41	1,939.41	1,999.41	9.10	66.04	-108.57	-4,219.71	-1,046.53	4,360.21	4,285.08	75.14	58.031	
2,100.00	2,099.36	2,039.36	2,099.36	9.51	69.53	-108.60	-4,219.71	-1,046.53	4,361.16	4,282.13	79.03	55.182	
2,200.00	2,199.32	2,139.32	2,199.32	9.92	73.01	-108.64	-4,219.71	-1,046.53	4,362.11	4,279.18	82.93	52.599	
2,300.00	2,299.28	2,239.28	2,299.28	10.34	76.50	-108.68	-4,219.71	-1,046.53	4,363.06	4,276.22	86.83	50.247	
2,400.00	2,399.23	2,339.23	2,399.23	10.75	79.98	-108.71	-4,219.71	-1,046.53	4,364.01	4,273.27	90.74	48.095	
2,500.00	2,499.19	2,439.19	2,499.19	11.17	83.47	-108.75	-4,219.71	-1,046.53	4,364.96	4,270.32	94.64	46.121	
2,600.00	2,599.14	2,539.14	2,599.14	11.60	86.96	-108.79	-4,219.71	-1,046.53	4,365.92	4,267.37	98.55	44.302	
2,700.00	2,699.10	2,639.10	2,699.10	12.02	90.45	-108.82	-4,219.71	-1,046.53	4,366.87	4,264.41	102.46	42.621	
2,800.00	2,799.06	2,739.06	2,799.06	12.44	93.93	-108.86	-4,219.71	-1,046.53	4,367.83	4,261.46	106.37	41.063	
2,900.00	2,899.01	2,839.01	2,899.01	12.87	97.42	-108.90	-4,219.71	-1,046.53	4,368.79	4,258.51	110.28	39.615	
3,000.00	2,998.97	2,938.97	2,998.97	13.29	100.91	-108.94	-4,219.71	-1,046.53	4,369.75	4,255.56	114.19	38.266	
3,100.00	3,098.92	3,038.92	3,098.92	13.72	104.40	-108.97	-4,219.71	-1,046.53	4,370.72	4,252.61	118.11	37.006	
3,200.00	3,198.88	3,138.88	3,198.88	14.14	107.88	-109.01	-4,219.71	-1,046.53	4,371.68	4,249.66	122.02	35.827	
3,300.00	3,298.84	3,238.84	3,298.84	14.57	111.37	-109.05	-4,219.71	-1,046.53	4,372.65	4,246.71	125.94	34.720	
3,400.00	3,398.79	3,338.79	3,398.79	15.00	114.86	-109.08	-4,219.71	-1,046.53	4,373.62	4,243.77	129.86	33.681	
3,500.00	3,498.75	3,438.75	3,498.75	15.43	118.35	-109.12	-4,219.71	-1,046.53	4,374.59	4,240.82	133.77	32.702	
3,600.00	3,598.70	3,538.70	3,598.70	15.86	121.84	-109.16	-4,219.71	-1,046.53	4,375.57	4,237.87	137.69	31.778	
3,700.00	3,698.66	3,638.66	3,698.66	16.29	125.32	-109.19	-4,219.71	-1,046.53	4,376.54	4,234.93	141.61	30.906	
3,800.00	3,798.62	3,738.62	3,798.62	16.72	128.81	-109.23	-4,219.71	-1,046.53	4,377.52	4,231.99	145.53	30.080	
3,900.00	3,898.57	3,838.57	3,898.57	17.15	132.30	-109.27	-4,219.71	-1,046.53	4,378.50	4,229.05	149.45	29.298	
4,000.00	3,998.53	3,938.53	3,998.53	17.59	135.79	-109.30	-4,219.71	-1,046.53	4,379.48	4,226.11	153.37	28.555	
4,100.00	4,098.48	4,038.48	4,098.48	18.02	139.28	-109.34	-4,219.71	-1,046.53	4,380.46	4,223.17	157.29	27.850	
4,200.00	4,198.44	4,138.44	4,198.44	18.45	142.77	-109.38	-4,219.71	-1,046.53	4,381.44	4,220.23	161.21	27.178	
4,300.00	4,298.40	4,238.40	4,298.40	18.88	146.25	-109.41	-4,219.71	-1,046.53	4,382.43	4,217.30	165.13	26.539	
4,400.00	4,398.35	4,338.35	4,398.35	19.32	149.74	-109.45	-4,219.71	-1,046.53	4,383.41	4,214.36	169.05	25.929	
4,500.00	4,498.31	4,438.31	4,498.31	19.75	153.23	-109.49	-4,219.71	-1,046.53	4,384.40	4,211.43	172.98	25.347	
4,600.00	4,598.26	4,538.26	4,598.26	20.19	156.72	-109.52	-4,219.71	-1,046.53	4,385.39	4,208.50	176.90	24.791	
4,700.00	4,698.22	4,638.22	4,698.22	20.62	160.21	-109.56	-4,219.71	-1,046.53	4,386.39	4,205.57	180.82	24.258	
4,800.00	4,798.18	4,738.18	4,798.18	21.05	163.70	-109.59	-4,219.71	-1,046.53	4,387.38	4,202.64	184.74	23.748	
4,900.00	4,898.13	4,838.13	4,898.13	21.49	167.19	-109.63	-4,219.71	-1,046.53	4,388.38	4,199.71	188.67	23.260	
5,000.00	4,998.09	4,938.09	4,998.09	21.92	170.68	-109.67	-4,219.71	-1,046.53	4,389.38	4,196.79	192.59	22.791	
5,100.00	5,098.04	5,038.04	5,098.04	22.36	174.16	-109.70	-4,219.71	-1,046.53	4,390.38	4,193.86	196.51	22.341	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,138.00	5,198.00	22.79	177.65	-109.74	-4,219.71	-1,046.53	4,391.38	4,190.94	200.44	21.909		
5,300.00	5,297.96	5,237.96	5,297.96	23.23	181.14	-109.78	-4,219.71	-1,046.53	4,392.38	4,188.02	204.36	21.493		
5,400.00	5,397.91	5,337.91	5,397.91	23.67	184.63	-109.81	-4,219.71	-1,046.53	4,393.39	4,185.10	208.29	21.093		
5,500.00	5,497.87	5,437.87	5,497.87	24.10	188.12	-109.85	-4,219.71	-1,046.53	4,394.39	4,182.18	212.21	20.708		
5,600.00	5,597.82	5,537.82	5,597.82	24.54	191.61	-109.89	-4,219.71	-1,046.53	4,395.40	4,179.27	216.14	20.336		
5,700.00	5,697.78	5,637.78	5,697.78	24.97	195.10	-109.92	-4,219.71	-1,046.53	4,396.41	4,176.35	220.06	19.978		
5,800.00	5,797.74	5,737.74	5,797.74	25.41	198.59	-109.96	-4,219.71	-1,046.53	4,397.43	4,173.44	223.99	19.633		
5,900.00	5,897.69	5,837.69	5,897.69	25.85	202.08	-110.00	-4,219.71	-1,046.53	4,398.44	4,170.53	227.91	19.299		
6,000.00	5,997.65	5,937.65	5,997.65	26.28	205.56	-110.03	-4,219.71	-1,046.53	4,399.45	4,167.62	231.84	18.977		
6,100.00	6,097.60	6,037.60	6,097.60	26.72	209.05	-110.07	-4,219.71	-1,046.53	4,400.47	4,164.71	235.76	18.665		
6,200.00	6,197.56	6,137.56	6,197.56	27.16	212.54	-110.10	-4,219.71	-1,046.53	4,401.49	4,161.80	239.69	18.363		
6,300.00	6,297.52	6,237.52	6,297.52	27.59	216.03	-110.14	-4,219.71	-1,046.53	4,402.51	4,158.90	243.61	18.072		
6,400.00	6,397.47	6,337.47	6,397.47	28.03	219.52	-110.18	-4,219.71	-1,046.53	4,403.54	4,156.00	247.54	17.789		
6,500.00	6,497.43	6,437.43	6,497.43	28.47	223.01	-110.21	-4,219.71	-1,046.53	4,404.56	4,153.10	251.46	17.516		
6,600.00	6,597.38	6,537.38	6,597.38	28.90	226.50	-110.25	-4,219.71	-1,046.53	4,405.59	4,150.20	255.39	17.250		
6,700.00	6,697.08	6,637.08	6,697.08	29.34	229.98	-84.50	-4,219.71	-1,046.53	4,405.76	4,146.45	259.31	16.990		
6,800.00	6,794.63	6,734.63	6,794.63	29.79	233.38	-81.56	-4,219.71	-1,046.53	4,402.83	4,139.67	263.16	16.731		
6,900.00	6,887.62	6,827.62	6,887.62	30.24	236.63	-81.47	-4,219.71	-1,046.53	4,396.96	4,130.11	266.85	16.477		
7,000.00	6,973.77	6,913.77	6,973.77	30.70	239.64	-82.28	-4,219.71	-1,046.53	4,388.64	4,118.32	270.32	16.235		
7,100.00	7,050.94	7,009.06	7,050.94	31.20	242.96	-83.54	-4,219.71	-1,046.53	4,378.52	4,104.38	274.14	15.972		
7,200.00	7,117.24	7,057.24	7,117.24	31.77	244.65	-85.02	-4,219.71	-1,046.53	4,367.37	4,090.98	276.39	15.801		
7,300.00	7,171.03	7,111.03	7,171.03	32.46	246.52	-86.54	-4,219.71	-1,046.53	4,355.98	4,077.03	278.95	15.615		
7,400.00	7,211.00	7,151.00	7,211.00	33.29	247.92	-87.93	-4,219.71	-1,046.53	4,345.11	4,063.93	281.18	15.453		
7,500.00	7,236.16	7,176.16	7,236.16	34.29	248.80	-89.09	-4,219.71	-1,046.53	4,335.44	4,052.38	283.06	15.316		
7,600.00	7,245.89	7,185.89	7,245.89	35.43	249.14	-89.92	-4,219.71	-1,046.53	4,327.46	4,042.91	284.55	15.208		
7,700.00	7,245.73	7,185.73	7,245.73	36.72	249.13	-90.01	-4,219.71	-1,046.53	4,321.58	4,035.73	285.85	15.119		
7,800.00	7,245.42	7,185.42	7,245.42	38.18	249.12	-90.00	-4,219.71	-1,046.53	4,318.00	4,030.70	287.30	15.030		
7,900.00	7,245.10	7,185.10	7,245.10	39.80	249.11	-90.00	-4,219.71	-1,046.53	4,316.73	4,027.83	288.90	14.942		
7,904.68	7,245.09	7,185.09	7,245.09	39.88	249.11	-90.00	-4,219.71	-1,046.53	4,316.73	4,027.74	288.98	14.938 CC		
8,000.00	7,244.79	7,184.79	7,244.79	41.54	249.10	-90.00	-4,219.71	-1,046.53	4,317.78	4,027.15	290.63	14.857 ES		
8,100.00	7,244.48	7,184.48	7,244.48	43.41	249.09	-89.99	-4,219.71	-1,046.53	4,321.14	4,028.68	292.46	14.775		
8,200.00	7,244.17	7,184.17	7,244.17	45.38	249.08	-89.99	-4,219.71	-1,046.53	4,326.82	4,032.43	294.38	14.698		
8,300.00	7,243.86	7,183.86	7,243.86	47.44	249.07	-89.98	-4,219.71	-1,046.53	4,334.79	4,038.42	296.37	14.626		
8,400.00	7,243.55	7,183.55	7,243.55	49.58	249.05	-89.98	-4,219.71	-1,046.53	4,345.05	4,046.64	298.41	14.561		
8,500.00	7,243.23	7,183.23	7,243.23	51.78	249.04	-89.98	-4,219.71	-1,046.53	4,357.58	4,057.10	300.49	14.502		
8,600.00	7,242.92	7,182.92	7,242.92	54.05	249.03	-89.97	-4,219.71	-1,046.53	4,372.37	4,069.78	302.59	14.450		
8,700.00	7,242.61	7,182.61	7,242.61	56.37	249.02	-89.97	-4,219.71	-1,046.53	4,389.38	4,084.67	304.71	14.405		
8,800.00	7,242.30	7,182.30	7,242.30	58.74	249.01	-89.96	-4,219.71	-1,046.53	4,408.60	4,101.77	306.83	14.368		
8,900.00	7,241.99	7,181.99	7,241.99	61.16	249.00	-89.96	-4,219.71	-1,046.53	4,429.99	4,121.04	308.95	14.339		
9,000.00	7,241.67	7,181.67	7,241.67	63.61	248.99	-89.95	-4,219.71	-1,046.53	4,453.52	4,142.46	311.06	14.317		
9,100.00	7,241.36	7,181.36	7,241.36	66.09	248.98	-89.95	-4,219.71	-1,046.53	4,479.16	4,166.02	313.15	14.304		
9,200.00	7,241.05	7,181.05	7,241.05	68.60	248.97	-89.95	-4,219.71	-1,046.53	4,506.88	4,191.67	315.21	14.298 SF		
9,300.00	7,240.74	7,180.74	7,240.74	71.13	248.96	-89.94	-4,219.71	-1,046.53	4,536.63	4,219.39	317.25	14.300		
9,400.00	7,240.43	7,180.43	7,240.43	73.70	248.95	-89.94	-4,219.71	-1,046.53	4,568.38	4,249.13	319.25	14.310		
9,500.00	7,240.11	7,180.11	7,240.11	76.28	248.93	-89.93	-4,219.71	-1,046.53	4,602.08	4,280.87	321.21	14.327		
9,600.00	7,239.80	7,179.80	7,239.80	78.88	248.92	-89.93	-4,219.71	-1,046.53	4,637.70	4,314.56	323.14	14.352		
9,700.00	7,239.49	7,179.49	7,239.49	81.50	248.91	-89.93	-4,219.71	-1,046.53	4,675.18	4,350.16	325.02	14.384		
9,800.00	7,239.18	7,179.18	7,239.18	84.13	248.90	-89.92	-4,219.71	-1,046.53	4,714.48	4,387.62	326.86	14.424		
9,900.00	7,238.87	7,178.87	7,238.87	86.78	248.89	-89.92	-4,219.71	-1,046.53	4,755.56	4,426.92	328.65	14.470		
10,000.00	7,238.55	7,178.55	7,238.55	89.44	248.88	-89.91	-4,219.71	-1,046.53	4,798.38	4,467.99	330.39	14.523		
10,100.00	7,238.24	7,178.24	7,238.24	92.11	248.87	-89.91	-4,219.71	-1,046.53	4,842.88	4,510.79	332.09	14.583		
10,200.00	7,237.93	7,177.93	7,237.93	94.80	248.86	-89.90	-4,219.71	-1,046.53	4,889.03	4,555.29	333.73	14.649		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	7,177.62	7,237.62	97.49	248.85	-89.90	-4,219.71	-1,046.53	4,936.76	4,601.43	335.33	14.722		
10,400.00	7,237.31	7,177.31	7,237.31	100.19	248.84	-89.90	-4,219.71	-1,046.53	4,986.05	4,649.17	336.88	14.801		
10,500.00	7,236.99	7,176.99	7,236.99	102.90	248.83	-89.89	-4,219.71	-1,046.53	5,036.84	4,698.46	338.38	14.885		
10,600.00	7,236.68	7,176.68	7,236.68	105.62	248.81	-89.89	-4,219.71	-1,046.53	5,089.09	4,749.26	339.83	14.976		
10,700.00	7,236.37	7,176.37	7,236.37	108.35	248.80	-89.88	-4,219.71	-1,046.53	5,142.75	4,801.52	341.23	15.071		
10,800.00	7,236.06	7,176.06	7,236.06	111.08	248.79	-89.88	-4,219.71	-1,046.53	5,197.78	4,855.20	342.58	15.172		
10,900.00	7,235.75	7,175.75	7,235.75	113.82	248.78	-89.88	-4,219.71	-1,046.53	5,254.14	4,910.25	343.89	15.279		
11,000.00	7,235.44	7,175.44	7,235.44	116.56	248.77	-89.87	-4,219.71	-1,046.53	5,311.78	4,966.64	345.15	15.390		
11,100.00	7,235.12	7,175.12	7,235.12	119.31	248.76	-89.87	-4,219.71	-1,046.53	5,370.67	5,024.31	346.36	15.506		
11,200.00	7,234.81	7,174.81	7,234.81	122.07	248.75	-89.86	-4,219.71	-1,046.53	5,430.76	5,083.22	347.54	15.626		
11,300.00	7,234.50	7,174.50	7,234.50	124.83	248.74	-89.86	-4,219.71	-1,046.53	5,492.01	5,143.35	348.67	15.752		
11,400.00	7,234.19	7,174.19	7,234.19	127.59	248.73	-89.86	-4,219.71	-1,046.53	5,554.39	5,204.64	349.75	15.881		
11,500.00	7,233.88	7,173.88	7,233.88	130.36	248.72	-89.85	-4,219.71	-1,046.53	5,617.86	5,267.06	350.80	16.014		
11,600.00	7,233.56	7,173.56	7,233.56	133.13	248.71	-89.85	-4,219.71	-1,046.53	5,682.37	5,330.56	351.81	16.152		
11,700.00	7,233.25	7,173.25	7,233.25	135.91	248.69	-89.84	-4,219.71	-1,046.53	5,747.91	5,395.13	352.78	16.293		
11,800.00	7,232.94	7,172.94	7,232.94	138.68	248.68	-89.84	-4,219.71	-1,046.53	5,814.42	5,460.71	353.71	16.438		
11,900.00	7,232.63	7,172.63	7,232.63	141.47	248.67	-89.83	-4,219.71	-1,046.53	5,881.88	5,527.27	354.61	16.587		
12,000.00	7,232.32	7,172.32	7,232.32	144.25	248.66	-89.83	-4,219.71	-1,046.53	5,950.26	5,594.78	355.48	16.739		
12,100.00	7,232.00	7,172.00	7,232.00	147.04	248.65	-89.83	-4,219.71	-1,046.53	6,019.52	5,663.21	356.31	16.894		
12,200.00	7,231.69	7,171.69	7,231.69	149.83	248.64	-89.82	-4,219.71	-1,046.53	6,089.64	5,732.53	357.11	17.053		
12,300.00	7,231.38	7,171.38	7,231.38	152.62	248.63	-89.82	-4,219.71	-1,046.53	6,160.58	5,802.70	357.88	17.214		
12,400.00	7,231.07	7,171.07	7,231.07	155.42	248.62	-89.81	-4,219.71	-1,046.53	6,232.32	5,873.70	358.62	17.379		
12,500.00	7,230.76	7,170.76	7,230.76	158.22	248.61	-89.81	-4,219.71	-1,046.53	6,304.83	5,945.50	359.33	17.546		
12,600.00	7,230.44	7,170.44	7,230.44	161.01	248.60	-89.81	-4,219.71	-1,046.53	6,378.08	6,018.07	360.01	17.716		
12,700.00	7,230.13	7,170.13	7,230.13	163.82	248.59	-89.80	-4,219.71	-1,046.53	6,452.05	6,091.38	360.67	17.889		
12,800.00	7,229.82	7,169.82	7,229.82	166.62	248.58	-89.80	-4,219.71	-1,046.53	6,526.72	6,165.41	361.30	18.064		
12,900.00	7,229.51	7,169.51	7,229.51	169.43	248.56	-89.79	-4,219.71	-1,046.53	6,602.05	6,240.14	361.91	18.242		
13,000.00	7,229.20	7,169.20	7,229.20	172.23	248.55	-89.79	-4,219.71	-1,046.53	6,678.04	6,315.54	362.50	18.422		
13,100.00	7,228.88	7,168.88	7,228.88	175.04	248.54	-89.78	-4,219.71	-1,046.53	6,754.64	6,391.58	363.06	18.605		
13,200.00	7,228.57	7,168.57	7,228.57	177.85	248.53	-89.78	-4,219.71	-1,046.53	6,831.86	6,468.25	363.60	18.789		
13,300.00	7,228.26	7,168.26	7,228.26	180.66	248.52	-89.78	-4,219.71	-1,046.53	6,909.65	6,545.53	364.12	18.976		
13,400.00	7,227.95	7,167.95	7,227.95	183.48	248.51	-89.77	-4,219.71	-1,046.53	6,988.02	6,623.39	364.63	19.165		
13,500.00	7,227.64	7,167.64	7,227.64	186.29	248.50	-89.77	-4,219.71	-1,046.53	7,066.92	6,701.82	365.11	19.356		
13,600.00	7,227.33	7,167.33	7,227.33	189.11	248.49	-89.76	-4,219.71	-1,046.53	7,146.36	6,780.79	365.57	19.548		
13,700.00	7,227.01	7,167.01	7,227.01	191.92	248.48	-89.76	-4,219.71	-1,046.53	7,226.31	6,860.29	366.02	19.743		
13,800.00	7,226.70	7,166.70	7,226.70	194.74	248.47	-89.76	-4,219.71	-1,046.53	7,306.75	6,940.30	366.45	19.939		
13,900.00	7,226.39	7,166.39	7,226.39	197.56	248.46	-89.75	-4,219.71	-1,046.53	7,387.67	7,020.80	366.87	20.137		
14,000.00	7,226.08	7,166.08	7,226.08	200.38	248.44	-89.75	-4,219.71	-1,046.53	7,469.05	7,101.78	367.27	20.337		
14,100.00	7,225.77	7,165.77	7,225.77	203.21	248.43	-89.74	-4,219.71	-1,046.53	7,550.88	7,183.22	367.65	20.538		
14,200.00	7,225.45	7,165.45	7,225.45	206.03	248.42	-89.74	-4,219.71	-1,046.53	7,633.14	7,265.11	368.02	20.741		
14,300.00	7,225.14	7,165.14	7,225.14	208.85	248.41	-89.74	-4,219.71	-1,046.53	7,715.82	7,347.43	368.38	20.945		
14,400.00	7,224.83	7,164.83	7,224.83	211.68	248.40	-89.73	-4,219.71	-1,046.53	7,798.90	7,430.18	368.73	21.151		
14,500.00	7,224.52	7,164.52	7,224.52	214.50	248.39	-89.73	-4,219.71	-1,046.53	7,882.38	7,513.32	369.06	21.358		
14,600.00	7,224.21	7,164.21	7,224.21	217.33	248.38	-89.72	-4,219.71	-1,046.53	7,966.24	7,596.86	369.38	21.566		
14,700.00	7,223.89	7,163.89	7,223.89	220.16	248.37	-89.72	-4,219.71	-1,046.53	8,050.47	7,680.78	369.69	21.776		
14,800.00	7,223.58	7,163.58	7,223.58	222.98	248.36	-89.71	-4,219.71	-1,046.53	8,135.05	7,765.06	369.99	21.987		
14,900.00	7,223.27	7,163.27	7,223.27	225.81	248.35	-89.71	-4,219.71	-1,046.53	8,219.98	7,849.70	370.28	22.199		
14,987.41	7,223.00	7,163.00	7,223.00	228.28	248.34	-89.71	-4,219.71	-1,046.53	8,294.50	7,923.97	370.52	22.386		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5.00	0.00	3.28	3.28	-44.79	1,170.91	-1,162.56	1,650.03					
100.00	100.00	105.00	100.00	3.28	3.80	-44.79	1,170.91	-1,162.56	1,650.03	1,642.94	7.09	232.878		
200.00	200.00	205.00	200.00	3.34	6.33	-44.79	1,170.91	-1,162.56	1,650.03	1,640.36	9.66	170.729		
300.00	300.00	305.00	300.00	3.44	9.49	-44.79	1,170.91	-1,162.56	1,650.03	1,637.09	12.93	127.592		
400.00	400.00	405.00	400.00	3.60	12.82	-44.79	1,170.91	-1,162.56	1,650.03	1,633.60	16.42	100.470		
500.00	500.00	505.00	500.00	3.81	16.22	-44.79	1,170.91	-1,162.56	1,650.03	1,630.00	20.03	82.397		
600.00	600.00	605.00	600.00	4.05	19.65	-44.79	1,170.91	-1,162.56	1,650.03	1,626.33	23.70	69.630		
700.00	699.98	705.02	699.98	4.32	23.10	13.22	1,170.91	-1,162.56	1,648.36	1,620.95	27.42	60.124		
800.00	799.94	805.06	799.94	4.61	26.56	13.25	1,170.91	-1,162.56	1,645.48	1,614.31	31.17	52.791		
900.00	899.89	905.11	899.89	4.92	30.03	13.27	1,170.91	-1,162.56	1,642.59	1,607.64	34.95	46.995		
1,000.00	999.85	1,005.15	999.85	5.25	33.51	13.30	1,170.91	-1,162.56	1,639.70	1,600.94	38.76	42.306		
1,100.00	1,099.80	1,105.20	1,099.80	5.60	36.98	13.32	1,170.91	-1,162.56	1,636.81	1,594.23	42.58	38.439		
1,200.00	1,199.76	1,205.24	1,199.76	5.96	40.46	13.34	1,170.91	-1,162.56	1,633.93	1,587.51	46.42	35.198		
1,300.00	1,299.72	1,305.28	1,299.72	6.33	43.94	13.37	1,170.91	-1,162.56	1,631.04	1,580.77	50.27	32.444		
1,400.00	1,399.67	1,405.33	1,399.67	6.71	47.43	13.39	1,170.91	-1,162.56	1,628.15	1,574.02	54.13	30.076		
1,500.00	1,499.63	1,505.37	1,499.63	7.10	50.91	13.42	1,170.91	-1,162.56	1,625.27	1,567.26	58.00	28.020		
1,600.00	1,599.58	1,605.42	1,599.58	7.49	54.40	13.44	1,170.91	-1,162.56	1,622.38	1,560.50	61.88	26.218		
1,700.00	1,699.54	1,705.46	1,699.54	7.88	57.89	13.46	1,170.91	-1,162.56	1,619.50	1,553.73	65.76	24.626		
1,800.00	1,799.50	1,805.50	1,799.50	8.28	61.37	13.49	1,170.91	-1,162.56	1,616.61	1,546.96	69.65	23.210		
1,900.00	1,899.45	1,905.55	1,899.45	8.69	64.86	13.51	1,170.91	-1,162.56	1,613.73	1,540.18	73.54	21.943		
2,000.00	1,999.41	2,005.59	1,999.41	9.10	68.35	13.54	1,170.91	-1,162.56	1,610.84	1,533.40	77.44	20.801		
2,100.00	2,099.36	2,105.64	2,099.36	9.51	71.84	13.56	1,170.91	-1,162.56	1,607.96	1,526.62	81.34	19.769		
2,200.00	2,199.32	2,205.68	2,199.32	9.92	75.33	13.59	1,170.91	-1,162.56	1,605.07	1,519.83	85.24	18.830		
2,300.00	2,299.28	2,305.72	2,299.28	10.34	78.82	13.61	1,170.91	-1,162.56	1,602.19	1,513.04	89.14	17.973		
2,400.00	2,399.23	2,405.77	2,399.23	10.75	82.31	13.64	1,170.91	-1,162.56	1,599.30	1,506.25	93.05	17.187		
2,500.00	2,499.19	2,505.81	2,499.19	11.17	85.80	13.66	1,170.91	-1,162.56	1,596.42	1,499.46	96.96	16.465		
2,600.00	2,599.14	2,605.86	2,599.14	11.60	89.29	13.69	1,170.91	-1,162.56	1,593.54	1,492.67	100.87	15.798		
2,700.00	2,699.10	2,705.90	2,699.10	12.02	92.78	13.71	1,170.91	-1,162.56	1,590.66	1,485.87	104.78	15.181		
2,800.00	2,799.06	2,805.94	2,799.06	12.44	96.27	13.74	1,170.91	-1,162.56	1,587.77	1,479.08	108.70	14.607		
2,900.00	2,899.01	2,905.99	2,899.01	12.87	99.76	13.76	1,170.91	-1,162.56	1,584.89	1,472.28	112.61	14.074		
3,000.00	2,998.97	3,006.03	2,998.97	13.29	103.25	13.79	1,170.91	-1,162.56	1,582.01	1,465.48	116.53	13.576		
3,100.00	3,098.92	3,106.08	3,098.92	13.72	106.74	13.82	1,170.91	-1,162.56	1,579.13	1,458.68	120.44	13.111		
3,200.00	3,198.88	3,206.12	3,198.88	14.14	110.23	13.84	1,170.91	-1,162.56	1,576.25	1,451.89	124.36	12.675		
3,300.00	3,298.84	3,306.16	3,298.84	14.57	113.72	13.87	1,170.91	-1,162.56	1,573.37	1,445.09	128.28	12.265		
3,400.00	3,398.79	3,406.21	3,398.79	15.00	117.21	13.89	1,170.91	-1,162.56	1,570.49	1,438.29	132.20	11.880		
3,500.00	3,498.75	3,506.25	3,498.75	15.43	120.70	13.92	1,170.91	-1,162.56	1,567.61	1,431.49	136.12	11.516		
3,600.00	3,598.70	3,606.30	3,598.70	15.86	124.19	13.95	1,170.91	-1,162.56	1,564.73	1,424.69	140.04	11.173		
3,700.00	3,698.66	3,706.34	3,698.66	16.29	127.69	13.97	1,170.91	-1,162.56	1,561.85	1,417.88	143.96	10.849		
3,800.00	3,798.62	3,806.38	3,798.62	16.72	131.18	14.00	1,170.91	-1,162.56	1,558.97	1,411.08	147.88	10.542		
3,900.00	3,898.57	3,906.43	3,898.57	17.15	134.67	14.02	1,170.91	-1,162.56	1,556.09	1,404.28	151.81	10.250		
4,000.00	3,998.53	4,006.47	3,998.53	17.59	138.16	14.05	1,170.91	-1,162.56	1,553.21	1,397.48	155.73	9.974		
4,100.00	4,098.48	4,106.52	4,098.48	18.02	141.65	14.08	1,170.91	-1,162.56	1,550.33	1,390.68	159.65	9.711		
4,200.00	4,198.44	4,206.56	4,198.44	18.45	145.14	14.10	1,170.91	-1,162.56	1,547.45	1,383.88	163.58	9.460		
4,300.00	4,298.40	4,306.60	4,298.40	18.88	148.63	14.13	1,170.91	-1,162.56	1,544.58	1,377.08	167.50	9.221		
4,400.00	4,398.35	4,406.65	4,398.35	19.32	152.13	14.16	1,170.91	-1,162.56	1,541.70	1,370.27	171.43	8.993		
4,500.00	4,498.31	4,506.69	4,498.31	19.75	155.62	14.18	1,170.91	-1,162.56	1,538.82	1,363.47	175.35	8.776		
4,600.00	4,598.26	4,606.74	4,598.26	20.19	159.11	14.21	1,170.91	-1,162.56	1,535.95	1,356.67	179.28	8.567		
4,700.00	4,698.22	4,706.78	4,698.22	20.62	162.60	14.24	1,170.91	-1,162.56	1,533.07	1,349.87	183.20	8.368		
4,800.00	4,798.18	4,806.82	4,798.18	21.05	166.09	14.27	1,170.91	-1,162.56	1,530.19	1,343.07	187.13	8.177		
4,900.00	4,898.13	4,906.87	4,898.13	21.49	169.59	14.29	1,170.91	-1,162.56	1,527.32	1,336.27	191.05	7.994		
5,000.00	4,998.09	5,006.91	4,998.09	21.92	173.08	14.32	1,170.91	-1,162.56	1,524.44	1,329.46	194.98	7.818		
5,100.00	5,098.04	5,106.96	5,098.04	22.36	176.57	14.35	1,170.91	-1,162.56	1,521.57	1,322.66	198.91	7.650		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,207.00	5,198.00	22.79	180.06	14.38	1,170.91	-1,162.56	1,518.70	1,315.86	202.83	7.487		
5,300.00	5,297.96	5,307.04	5,297.96	23.23	183.55	14.40	1,170.91	-1,162.56	1,515.82	1,309.06	206.76	7.331		
5,400.00	5,397.91	5,407.09	5,397.91	23.67	187.05	14.43	1,170.91	-1,162.56	1,512.95	1,302.26	210.69	7.181		
5,500.00	5,497.87	5,507.13	5,497.87	24.10	190.54	14.46	1,170.91	-1,162.56	1,510.07	1,295.46	214.62	7.036		
5,600.00	5,597.82	5,607.18	5,597.82	24.54	194.03	14.49	1,170.91	-1,162.56	1,507.20	1,288.66	218.54	6.897		
5,700.00	5,697.78	5,707.22	5,697.78	24.97	197.52	14.52	1,170.91	-1,162.56	1,504.33	1,281.86	222.47	6.762		
5,800.00	5,797.74	5,807.26	5,797.74	25.41	201.01	14.55	1,170.91	-1,162.56	1,501.46	1,275.06	226.40	6.632		
5,900.00	5,897.69	5,907.31	5,897.69	25.85	204.51	14.57	1,170.91	-1,162.56	1,498.59	1,268.26	230.33	6.506		
6,000.00	5,997.65	6,007.35	5,997.65	26.28	208.00	14.60	1,170.91	-1,162.56	1,495.71	1,261.46	234.26	6.385		
6,100.00	6,097.60	6,107.40	6,097.60	26.72	211.49	14.63	1,170.91	-1,162.56	1,492.84	1,254.66	238.18	6.268		
6,200.00	6,197.56	6,207.44	6,197.56	27.16	214.98	14.66	1,170.91	-1,162.56	1,489.97	1,247.86	242.11	6.154		
6,300.00	6,297.52	6,307.48	6,297.52	27.59	218.47	14.69	1,170.91	-1,162.56	1,487.10	1,241.06	246.04	6.044		
6,400.00	6,397.47	6,407.53	6,397.47	28.03	221.97	14.72	1,170.91	-1,162.56	1,484.23	1,234.26	249.97	5.938		
6,500.00	6,497.43	6,507.57	6,497.43	28.47	225.46	14.75	1,170.91	-1,162.56	1,481.36	1,227.46	253.90	5.834		
6,600.00	6,597.38	6,607.62	6,597.38	28.90	228.95	14.78	1,170.91	-1,162.56	1,478.49	1,220.67	257.83	5.734		
6,700.00	6,697.08	6,707.92	6,697.08	29.34	232.45	14.81	1,170.91	-1,162.56	1,475.62	1,213.87	261.77	5.637		
6,800.00	6,796.63	6,797.37	6,796.63	29.79	235.94	14.84	1,170.91	-1,162.56	1,472.75	1,207.07	265.70	5.542		
6,900.00	6,896.08	6,896.92	6,896.08	30.24	239.43	14.87	1,170.91	-1,162.56	1,469.88	1,200.27	269.63	5.447		
7,000.00	6,995.53	6,996.47	6,995.53	30.70	242.92	14.90	1,170.91	-1,162.56	1,467.01	1,193.47	273.56	5.352		
7,100.00	7,094.98	7,095.92	7,094.98	31.16	246.41	14.93	1,170.91	-1,162.56	1,464.14	1,186.67	277.49	5.257		
7,200.00	7,194.43	7,195.57	7,194.43	31.62	250.00	14.96	1,170.91	-1,162.56	1,461.27	1,179.87	281.42	5.162		
7,300.00	7,293.88	7,295.12	7,293.88	32.08	253.59	14.99	1,170.91	-1,162.56	1,458.40	1,173.07	285.35	5.067		
7,400.00	7,393.33	7,394.67	7,393.33	32.54	257.18	15.02	1,170.91	-1,162.56	1,455.53	1,166.27	289.28	4.972		
7,500.00	7,492.78	7,494.22	7,492.78	33.00	260.77	15.05	1,170.91	-1,162.56	1,452.66	1,159.47	293.21	4.877		
7,600.00	7,592.23	7,593.77	7,592.23	33.46	264.36	15.08	1,170.91	-1,162.56	1,449.79	1,152.67	297.14	4.782		
7,700.00	7,691.68	7,693.32	7,691.68	33.92	267.95	15.11	1,170.91	-1,162.56	1,446.92	1,145.87	301.07	4.687		
7,800.00	7,791.13	7,792.87	7,791.13	34.38	271.54	15.14	1,170.91	-1,162.56	1,444.05	1,139.07	305.00	4.592		
7,900.00	7,890.58	7,892.42	7,890.58	34.84	275.13	15.17	1,170.91	-1,162.56	1,441.18	1,132.27	308.93	4.497		
7,979.33	7,244.86	7,239.86	7,244.86	41.18	251.02	90.00	1,170.91	-1,162.56	1,074.63	782.43	292.20	3.678 CC		
8,000.00	7,244.79	7,239.79	7,244.79	41.54	251.02	90.00	1,170.91	-1,162.56	1,074.83	782.27	292.56	3.674 ES, SF		
8,100.00	7,244.48	7,239.48	7,244.48	43.41	251.01	89.98	1,170.91	-1,162.56	1,081.38	787.08	294.31	3.674		
8,200.00	7,244.17	7,239.17	7,244.17	45.38	251.00	89.96	1,170.91	-1,162.56	1,097.05	801.11	295.94	3.707		
8,300.00	7,243.86	7,238.86	7,243.86	47.44	250.98	89.95	1,170.91	-1,162.56	1,121.45	824.06	297.39	3.771		
8,400.00	7,243.55	7,238.55	7,243.55	49.58	250.97	89.93	1,170.91	-1,162.56	1,154.03	855.39	298.64	3.864		
8,500.00	7,243.23	7,238.23	7,243.23	51.78	250.96	89.91	1,170.91	-1,162.56	1,194.12	894.45	299.67	3.985		
8,600.00	7,242.92	7,237.92	7,242.92	54.05	250.95	89.90	1,170.91	-1,162.56	1,240.99	940.50	300.49	4.130		
8,700.00	7,242.61	7,237.61	7,242.61	56.37	250.94	89.88	1,170.91	-1,162.56	1,293.90	992.79	301.12	4.297		
8,800.00	7,242.30	7,237.30	7,242.30	58.74	250.93	89.86	1,170.91	-1,162.56	1,352.15	1,050.57	301.59	4.483		
8,900.00	7,241.99	7,236.99	7,241.99	61.16	250.92	89.85	1,170.91	-1,162.56	1,415.08	1,113.17	301.91	4.687		
9,000.00	7,241.67	7,236.67	7,241.67	63.61	250.91	89.83	1,170.91	-1,162.56	1,482.09	1,179.96	302.13	4.905		
9,100.00	7,241.36	7,236.36	7,241.36	66.09	250.90	89.81	1,170.91	-1,162.56	1,552.65	1,250.39	302.26	5.137		
9,200.00	7,241.05	7,236.05	7,241.05	68.60	250.89	89.80	1,170.91	-1,162.56	1,626.30	1,323.98	302.32	5.379		
9,300.00	7,240.74	7,235.74	7,240.74	71.13	250.88	89.78	1,170.91	-1,162.56	1,702.64	1,400.31	302.33	5.632		
9,400.00	7,240.43	7,235.43	7,240.43	73.70	250.87	89.76	1,170.91	-1,162.56	1,781.32	1,479.03	302.29	5.893		
9,500.00	7,240.11	7,235.11	7,240.11	76.28	250.85	89.75	1,170.91	-1,162.56	1,862.05	1,559.82	302.23	6.161		
9,600.00	7,239.80	7,234.80	7,239.80	78.88	250.84	89.73	1,170.91	-1,162.56	1,944.58	1,642.43	302.14	6.436		
9,700.00	7,239.49	7,234.49	7,239.49	81.50	250.83	89.71	1,170.91	-1,162.56	2,028.67	1,726.63	302.04	6.716		
9,800.00	7,239.18	7,234.18	7,239.18	84.13	250.82	89.70	1,170.91	-1,162.56	2,114.15	1,812.22	301.93	7.002		
9,900.00	7,238.87	7,233.87	7,238.87	86.78	250.81	89.68	1,170.91	-1,162.56	2,200.86	1,899.04	301.81	7.292		
10,000.00	7,238.55	7,233.55	7,238.55	89.44	250.80	89.66	1,170.91	-1,162.56	2,288.65	1,986.95	301.69	7.586		
10,100.00	7,238.24	7,233.24	7,238.24	92.11	250.79	89.65	1,170.91	-1,162.56	2,377.40	2,075.83	301.57	7.883		
10,200.00	7,237.93	7,232.93	7,237.93	94.80	250.78	89.63	1,170.91	-1,162.56	2,467.01	2,165.57	301.45	8.184		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	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	7,237.62	7,232.62	7,237.62	97.49	250.77	89.61	1,170.91	-1,162.56	2,557.40	2,256.07	301.33	8.487		
10,400.00	7,237.31	7,232.31	7,237.31	100.19	250.76	89.60	1,170.91	-1,162.56	2,648.47	2,347.27	301.21	8.793		
10,500.00	7,236.99	7,231.99	7,236.99	102.90	250.75	89.58	1,170.91	-1,162.56	2,740.17	2,439.08	301.10	9.101		
10,600.00	7,236.68	7,231.68	7,236.68	105.62	250.73	89.56	1,170.91	-1,162.56	2,832.43	2,531.45	300.98	9.411		
10,700.00	7,236.37	7,231.37	7,236.37	108.35	250.72	89.55	1,170.91	-1,162.56	2,925.20	2,624.32	300.88	9.722		
10,800.00	7,236.06	7,231.06	7,236.06	111.08	250.71	89.53	1,170.91	-1,162.56	3,018.43	2,717.66	300.77	10.036		
10,900.00	7,235.75	7,230.75	7,235.75	113.82	250.70	89.51	1,170.91	-1,162.56	3,112.08	2,811.41	300.68	10.350		
11,000.00	7,235.44	7,230.44	7,235.44	116.56	250.69	89.50	1,170.91	-1,162.56	3,206.12	2,905.54	300.58	10.666		
11,100.00	7,235.12	7,230.12	7,235.12	119.31	250.68	89.48	1,170.91	-1,162.56	3,300.50	3,000.01	300.49	10.984		
11,200.00	7,234.81	7,229.81	7,234.81	122.07	250.67	89.46	1,170.91	-1,162.56	3,395.21	3,094.80	300.41	11.302		
11,300.00	7,234.50	7,229.50	7,234.50	124.83	250.66	89.45	1,170.91	-1,162.56	3,490.21	3,189.88	300.33	11.621		
11,400.00	7,234.19	7,229.19	7,234.19	127.59	250.65	89.43	1,170.91	-1,162.56	3,585.49	3,285.23	300.25	11.942		
11,500.00	7,233.88	7,228.88	7,233.88	130.36	250.64	89.41	1,170.91	-1,162.56	3,681.01	3,380.83	300.18	12.263		
11,600.00	7,233.56	7,228.56	7,233.56	133.13	250.63	89.40	1,170.91	-1,162.56	3,776.77	3,476.65	300.11	12.584		
11,700.00	7,233.25	7,228.25	7,233.25	135.91	250.61	89.38	1,170.91	-1,162.56	3,872.74	3,572.69	300.05	12.907		
11,800.00	7,232.94	7,227.94	7,232.94	138.68	250.60	89.36	1,170.91	-1,162.56	3,968.91	3,668.92	299.99	13.230		
11,900.00	7,232.63	7,227.63	7,232.63	141.47	250.59	89.35	1,170.91	-1,162.56	4,065.26	3,765.33	299.93	13.554		
12,000.00	7,232.32	7,227.32	7,232.32	144.25	250.58	89.33	1,170.91	-1,162.56	4,161.79	3,861.90	299.88	13.878		
12,100.00	7,232.00	7,227.00	7,232.00	147.04	250.57	89.31	1,170.91	-1,162.56	4,258.47	3,958.64	299.83	14.203		
12,200.00	7,231.69	7,226.69	7,231.69	149.83	250.56	89.30	1,170.91	-1,162.56	4,355.31	4,055.52	299.79	14.528		
12,300.00	7,231.38	7,226.38	7,231.38	152.62	250.55	89.28	1,170.91	-1,162.56	4,452.29	4,152.54	299.75	14.854		
12,400.00	7,231.07	7,226.07	7,231.07	155.42	250.54	89.26	1,170.91	-1,162.56	4,549.39	4,249.69	299.71	15.179		
12,500.00	7,230.76	7,225.76	7,230.76	158.22	250.53	89.25	1,170.91	-1,162.56	4,646.62	4,346.95	299.67	15.506		
12,600.00	7,230.44	7,225.44	7,230.44	161.01	250.52	89.23	1,170.91	-1,162.56	4,743.97	4,444.33	299.64	15.832		
12,700.00	7,230.13	7,225.13	7,230.13	163.82	250.51	89.21	1,170.91	-1,162.56	4,841.42	4,541.81	299.61	16.159		
12,800.00	7,229.82	7,224.82	7,229.82	166.62	250.49	89.20	1,170.91	-1,162.56	4,938.97	4,639.39	299.58	16.486		
12,900.00	7,229.51	7,224.51	7,229.51	169.43	250.48	89.18	1,170.91	-1,162.56	5,036.63	4,737.07	299.56	16.814		
13,000.00	7,229.20	7,224.20	7,229.20	172.23	250.47	89.17	1,170.91	-1,162.56	5,134.37	4,834.83	299.54	17.141		
13,100.00	7,228.88	7,223.88	7,228.88	175.04	250.46	89.15	1,170.91	-1,162.56	5,232.19	4,932.68	299.52	17.469		
13,200.00	7,228.57	7,223.57	7,228.57	177.85	250.45	89.13	1,170.91	-1,162.56	5,330.10	5,030.60	299.50	17.797		
13,300.00	7,228.26	7,223.26	7,228.26	180.66	250.44	89.12	1,170.91	-1,162.56	5,428.08	5,128.60	299.49	18.125		
13,400.00	7,227.95	7,222.95	7,227.95	183.48	250.43	89.10	1,170.91	-1,162.56	5,526.14	5,226.67	299.47	18.453		
13,500.00	7,227.64	7,222.64	7,227.64	186.29	250.42	89.08	1,170.91	-1,162.56	5,624.26	5,324.80	299.46	18.781		
13,600.00	7,227.33	7,222.33	7,227.33	189.11	250.41	89.07	1,170.91	-1,162.56	5,722.45	5,423.00	299.46	19.109		
13,700.00	7,227.01	7,222.01	7,227.01	191.92	250.40	89.05	1,170.91	-1,162.56	5,820.70	5,521.25	299.45	19.438		
13,800.00	7,226.70	7,221.70	7,226.70	194.74	250.39	89.03	1,170.91	-1,162.56	5,919.01	5,619.56	299.45	19.766		
13,900.00	7,226.39	7,221.39	7,226.39	197.56	250.38	89.02	1,170.91	-1,162.56	6,017.38	5,717.93	299.45	20.095		
14,000.00	7,226.08	7,221.08	7,226.08	200.38	250.36	89.00	1,170.91	-1,162.56	6,115.80	5,816.35	299.45	20.424		
14,100.00	7,225.77	7,220.77	7,225.77	203.21	250.35	88.98	1,170.91	-1,162.56	6,214.26	5,914.81	299.45	20.752		
14,200.00	7,225.45	7,220.45	7,225.45	206.03	250.34	88.97	1,170.91	-1,162.56	6,312.78	6,013.33	299.45	21.081		
14,300.00	7,225.14	7,220.14	7,225.14	208.85	250.33	88.95	1,170.91	-1,162.56	6,411.34	6,111.88	299.46	21.410		
14,400.00	7,224.83	7,219.83	7,224.83	211.68	250.32	88.93	1,170.91	-1,162.56	6,509.95	6,210.48	299.47	21.738		
14,500.00	7,224.52	7,219.52	7,224.52	214.50	250.31	88.92	1,170.91	-1,162.56	6,608.60	6,309.12	299.48	22.067		
14,600.00	7,224.21	7,219.21	7,224.21	217.33	250.30	88.90	1,170.91	-1,162.56	6,707.29	6,407.80	299.49	22.396		
14,700.00	7,223.89	7,218.89	7,223.89	220.16	250.29	88.88	1,170.91	-1,162.56	6,806.01	6,506.51	299.50	22.724		
14,800.00	7,223.58	7,218.58	7,223.58	222.98	250.28	88.87	1,170.91	-1,162.56	6,904.78	6,605.26	299.52	23.053		
14,900.00	7,223.27	7,218.27	7,223.27	225.81	250.27	88.85	1,170.91	-1,162.56	7,003.57	6,704.04	299.54	23.381		
14,987.41	7,223.00	7,218.00	7,223.00	228.28	250.26	88.83	1,170.91	-1,162.56	7,089.96	6,790.41	299.55	23.669		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	19.00	3.28	3.28	-96.88	-133.30	-1,104.21	1,112.39				
100.00	100.00	81.00	100.00	3.28	3.57	-96.88	-133.30	-1,104.21	1,112.23	1,105.37	6.86	162.216	
200.00	200.00	181.00	200.00	3.34	5.63	-96.88	-133.30	-1,104.21	1,112.23	1,103.26	8.96	124.065	
300.00	300.00	281.00	300.00	3.44	8.71	-96.88	-133.30	-1,104.21	1,112.23	1,100.08	12.15	91.537	
400.00	400.00	381.00	400.00	3.60	12.01	-96.88	-133.30	-1,104.21	1,112.23	1,096.61	15.62	71.228	
500.00	500.00	481.00	500.00	3.81	15.40	-96.88	-133.30	-1,104.21	1,112.23	1,093.02	19.21	57.912	
600.00	600.00	581.00	600.00	4.05	18.83	-96.88	-133.30	-1,104.21	1,112.23	1,089.36	22.87	48.630	
700.00	699.98	680.98	699.98	4.32	22.27	-38.95	-133.30	-1,104.21	1,110.90	1,084.32	26.59	41.786	
800.00	799.94	780.94	799.94	4.61	25.73	-39.05	-133.30	-1,104.21	1,108.60	1,078.26	30.33	36.547	
900.00	899.89	880.89	899.89	4.92	29.19	-39.14	-133.30	-1,104.21	1,106.29	1,072.18	34.11	32.432	
1,000.00	999.85	980.85	999.85	5.25	32.66	-39.24	-133.30	-1,104.21	1,103.99	1,066.08	37.91	29.120	
1,100.00	1,099.80	1,080.80	1,099.80	5.60	36.13	-39.34	-133.30	-1,104.21	1,101.70	1,059.97	41.73	26.400	
1,200.00	1,199.76	1,180.76	1,199.76	5.96	39.61	-39.44	-133.30	-1,104.21	1,099.40	1,053.84	45.57	24.128	
1,300.00	1,299.72	1,280.72	1,299.72	6.33	43.09	-39.54	-133.30	-1,104.21	1,097.11	1,047.70	49.41	22.203	
1,400.00	1,399.67	1,380.67	1,399.67	6.71	46.57	-39.63	-133.30	-1,104.21	1,094.83	1,041.56	53.27	20.552	
1,500.00	1,499.63	1,480.63	1,499.63	7.10	50.05	-39.73	-133.30	-1,104.21	1,092.54	1,035.41	57.14	19.122	
1,600.00	1,599.58	1,580.58	1,599.58	7.49	53.53	-39.83	-133.30	-1,104.21	1,090.26	1,029.25	61.01	17.871	
1,700.00	1,699.54	1,680.54	1,699.54	7.88	57.02	-39.93	-133.30	-1,104.21	1,087.98	1,023.10	64.89	16.768	
1,800.00	1,799.50	1,780.50	1,799.50	8.28	60.50	-40.03	-133.30	-1,104.21	1,085.71	1,016.94	68.77	15.788	
1,900.00	1,899.45	1,880.45	1,899.45	8.69	63.99	-40.13	-133.30	-1,104.21	1,083.44	1,010.78	72.66	14.912	
2,000.00	1,999.41	1,980.41	1,999.41	9.10	67.47	-40.24	-133.30	-1,104.21	1,081.17	1,004.62	76.55	14.124	
2,100.00	2,099.36	2,080.36	2,099.36	9.51	70.96	-40.34	-133.30	-1,104.21	1,078.91	998.47	80.44	13.412	
2,200.00	2,199.32	2,180.32	2,199.32	9.92	74.44	-40.44	-133.30	-1,104.21	1,076.65	992.31	84.34	12.765	
2,300.00	2,299.28	2,280.28	2,299.28	10.34	77.93	-40.54	-133.30	-1,104.21	1,074.39	986.15	88.24	12.175	
2,400.00	2,399.23	2,380.23	2,399.23	10.75	81.41	-40.65	-133.30	-1,104.21	1,072.14	979.99	92.15	11.635	
2,500.00	2,499.19	2,480.19	2,499.19	11.17	84.90	-40.75	-133.30	-1,104.21	1,069.89	973.84	96.05	11.139	
2,600.00	2,599.14	2,580.14	2,599.14	11.60	88.39	-40.85	-133.30	-1,104.21	1,067.64	967.69	99.96	10.681	
2,700.00	2,699.10	2,680.10	2,699.10	12.02	91.88	-40.96	-133.30	-1,104.21	1,065.40	961.54	103.86	10.258	
2,800.00	2,799.06	2,780.06	2,799.06	12.44	95.36	-41.06	-133.30	-1,104.21	1,063.16	955.39	107.77	9.865	
2,900.00	2,899.01	2,880.01	2,899.01	12.87	98.85	-41.17	-133.30	-1,104.21	1,060.93	949.24	111.68	9.499	
3,000.00	2,998.97	2,979.97	2,998.97	13.29	102.34	-41.27	-133.30	-1,104.21	1,058.69	943.10	115.60	9.159	
3,100.00	3,098.92	3,079.92	3,098.92	13.72	105.83	-41.38	-133.30	-1,104.21	1,056.46	936.96	119.51	8.840	
3,200.00	3,198.88	3,179.88	3,198.88	14.14	109.31	-41.49	-133.30	-1,104.21	1,054.24	930.82	123.42	8.542	
3,300.00	3,298.84	3,279.84	3,298.84	14.57	112.80	-41.59	-133.30	-1,104.21	1,052.02	924.68	127.34	8.262	
3,400.00	3,398.79	3,379.79	3,398.79	15.00	116.29	-41.70	-133.30	-1,104.21	1,049.80	918.55	131.25	7.998	
3,500.00	3,498.75	3,479.75	3,498.75	15.43	119.78	-41.81	-133.30	-1,104.21	1,047.59	912.42	135.17	7.750	
3,600.00	3,598.70	3,579.70	3,598.70	15.86	123.27	-41.92	-133.30	-1,104.21	1,045.38	906.29	139.09	7.516	
3,700.00	3,698.66	3,679.66	3,698.66	16.29	126.75	-42.03	-133.30	-1,104.21	1,043.17	900.17	143.00	7.295	
3,800.00	3,798.62	3,779.62	3,798.62	16.72	130.24	-42.13	-133.30	-1,104.21	1,040.97	894.05	146.92	7.085	
3,900.00	3,898.57	3,879.57	3,898.57	17.15	133.73	-42.24	-133.30	-1,104.21	1,038.77	887.93	150.84	6.887	
4,000.00	3,998.53	3,979.53	3,998.53	17.59	137.22	-42.35	-133.30	-1,104.21	1,036.57	881.82	154.76	6.698	
4,100.00	4,098.48	4,079.48	4,098.48	18.02	140.71	-42.47	-133.30	-1,104.21	1,034.38	875.71	158.68	6.519	
4,200.00	4,198.44	4,179.44	4,198.44	18.45	144.20	-42.58	-133.30	-1,104.21	1,032.20	869.60	162.60	6.348	
4,300.00	4,298.40	4,279.40	4,298.40	18.88	147.68	-42.69	-133.30	-1,104.21	1,030.01	863.50	166.52	6.186	
4,400.00	4,398.35	4,379.35	4,398.35	19.32	151.17	-42.80	-133.30	-1,104.21	1,027.83	857.40	170.44	6.031	
4,500.00	4,498.31	4,479.31	4,498.31	19.75	154.66	-42.91	-133.30	-1,104.21	1,025.66	851.30	174.36	5.882	
4,600.00	4,598.26	4,579.26	4,598.26	20.19	158.15	-43.03	-133.30	-1,104.21	1,023.49	845.21	178.28	5.741	
4,700.00	4,698.22	4,679.22	4,698.22	20.62	161.64	-43.14	-133.30	-1,104.21	1,021.32	839.12	182.20	5.605	
4,800.00	4,798.18	4,779.18	4,798.18	21.05	165.13	-43.25	-133.30	-1,104.21	1,019.16	833.03	186.12	5.476	
4,900.00	4,898.13	4,879.13	4,898.13	21.49	168.62	-43.37	-133.30	-1,104.21	1,017.00	826.95	190.05	5.351	
5,000.00	4,998.09	4,979.09	4,998.09	21.92	172.11	-43.48	-133.30	-1,104.21	1,014.84	820.87	193.97	5.232	
5,100.00	5,098.04	5,079.04	5,098.04	22.36	175.59	-43.60	-133.30	-1,104.21	1,012.69	814.80	197.89	5.117	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,179.00	5,198.00	22.79	179.08	-43.71	-133.30	-1,104.21	1,010.54	808.73	201.81	5.007	
5,300.00	5,297.96	5,278.96	5,297.96	23.23	182.57	-43.83	-133.30	-1,104.21	1,008.40	802.66	205.74	4.901	
5,400.00	5,397.91	5,378.91	5,397.91	23.67	186.06	-43.95	-133.30	-1,104.21	1,006.26	796.60	209.66	4.800	
5,500.00	5,497.87	5,478.87	5,497.87	24.10	189.55	-44.07	-133.30	-1,104.21	1,004.13	790.54	213.58	4.701	
5,600.00	5,597.82	5,578.82	5,597.82	24.54	193.04	-44.18	-133.30	-1,104.21	1,002.00	784.49	217.51	4.607	
5,700.00	5,697.78	5,678.78	5,697.78	24.97	196.53	-44.30	-133.30	-1,104.21	999.87	778.44	221.43	4.516	
5,800.00	5,797.74	5,778.74	5,797.74	25.41	200.02	-44.42	-133.30	-1,104.21	997.75	772.40	225.35	4.427	
5,900.00	5,897.69	5,878.69	5,897.69	25.85	203.51	-44.54	-133.30	-1,104.21	995.63	766.35	229.28	4.342	
6,000.00	5,997.65	5,978.65	5,997.65	26.28	207.00	-44.66	-133.30	-1,104.21	993.52	760.32	233.20	4.260	
6,100.00	6,097.60	6,078.60	6,097.60	26.72	210.48	-44.78	-133.30	-1,104.21	991.41	754.28	237.13	4.181	
6,200.00	6,197.56	6,178.56	6,197.56	27.16	213.97	-44.90	-133.30	-1,104.21	989.31	748.26	241.05	4.104	
6,300.00	6,297.52	6,278.52	6,297.52	27.59	217.46	-45.02	-133.30	-1,104.21	987.21	742.23	244.97	4.030	
6,400.00	6,397.47	6,378.47	6,397.47	28.03	220.95	-45.15	-133.30	-1,104.21	985.11	736.21	248.90	3.958	
6,500.00	6,497.43	6,478.43	6,497.43	28.47	224.44	-45.27	-133.30	-1,104.21	983.02	730.20	252.82	3.888	
6,600.00	6,597.38	6,578.38	6,597.38	28.90	227.93	-45.39	-133.30	-1,104.21	980.93	724.19	256.75	3.821	
6,700.00	6,697.08	6,678.08	6,697.08	29.34	231.41	-19.83	-133.30	-1,104.21	974.90	714.23	260.66	3.740	
6,800.00	6,794.63	6,775.63	6,794.63	29.79	234.82	-17.20	-133.30	-1,104.21	954.36	689.86	264.50	3.608	
6,900.00	6,887.62	6,868.62	6,887.62	30.24	238.06	-17.68	-133.30	-1,104.21	919.30	651.14	268.16	3.428	
7,000.00	6,973.77	6,954.77	6,973.77	30.70	241.07	-19.66	-133.30	-1,104.21	870.70	599.16	271.54	3.207	
7,100.00	7,050.94	7,031.94	7,050.94	31.20	243.76	-23.28	-133.30	-1,104.21	809.95	535.38	274.57	2.950	
7,200.00	7,117.24	7,101.76	7,117.24	31.77	246.20	-29.25	-133.30	-1,104.21	738.85	461.54	277.31	2.664	
7,300.00	7,171.03	7,152.03	7,171.03	32.46	247.95	-38.88	-133.30	-1,104.21	659.59	380.25	279.34	2.361	
7,400.00	7,211.00	7,208.00	7,211.00	33.29	249.91	-53.50	-133.30	-1,104.21	574.86	293.26	281.60	2.041	
7,500.00	7,236.16	7,217.16	7,236.16	34.29	250.23	-71.96	-133.30	-1,104.21	487.93	205.58	282.35	1.728	
7,600.00	7,245.89	7,226.89	7,245.89	35.43	250.57	-88.44	-133.30	-1,104.21	403.05	119.63	283.43	1.422 Level 3	
7,700.00	7,245.73	7,226.73	7,245.73	36.72	250.56	-90.18	-133.30	-1,104.21	325.97	41.16	284.81	1.145 Level 2	
7,800.00	7,245.42	7,226.42	7,245.42	38.18	250.55	-90.10	-133.30	-1,104.21	264.68	-22.58	287.27	0.921 Level 1	
7,900.00	7,245.10	7,226.10	7,245.10	39.80	250.54	-90.02	-133.30	-1,104.21	232.08	-58.15	290.22	0.800 Level 1	
7,930.99	7,245.01	7,226.01	7,245.01	40.34	250.54	-90.00	-133.30	-1,104.21	230.00	-60.88	290.87	0.791 Level 1, CC, ES, SF	
8,000.00	7,244.79	7,225.79	7,244.79	41.54	250.53	-89.95	-133.30	-1,104.21	240.13	-51.16	291.29	0.824 Level 1	
8,100.00	7,244.48	7,225.48	7,244.48	43.41	250.52	-89.87	-133.30	-1,104.21	285.41	-4.66	290.07	0.984 Level 1	
8,200.00	7,244.17	7,225.17	7,244.17	45.38	250.51	-89.79	-133.30	-1,104.21	353.92	65.53	288.40	1.227 Level 2	
8,300.00	7,243.86	7,224.86	7,243.86	47.44	250.50	-89.71	-133.30	-1,104.21	434.81	147.73	287.08	1.515	
8,400.00	7,243.55	7,224.55	7,243.55	49.58	250.49	-89.64	-133.30	-1,104.21	522.36	236.21	286.15	1.825	
8,500.00	7,243.23	7,224.23	7,243.23	51.78	250.47	-89.56	-133.30	-1,104.21	613.73	328.23	285.50	2.150	
8,600.00	7,242.92	7,223.92	7,242.92	54.05	250.46	-89.48	-133.30	-1,104.21	707.43	422.40	285.03	2.482	
8,700.00	7,242.61	7,223.61	7,242.61	56.37	250.45	-89.40	-133.30	-1,104.21	802.66	517.97	284.69	2.819	
8,800.00	7,242.30	7,223.30	7,242.30	58.74	250.44	-89.32	-133.30	-1,104.21	898.92	614.49	284.43	3.160	
8,900.00	7,241.99	7,222.99	7,241.99	61.16	250.43	-89.25	-133.30	-1,104.21	995.92	711.69	284.24	3.504	
9,000.00	7,241.67	7,222.67	7,241.67	63.61	250.42	-89.17	-133.30	-1,104.21	1,093.46	809.38	284.08	3.849	
9,100.00	7,241.36	7,222.36	7,241.36	66.09	250.41	-89.09	-133.30	-1,104.21	1,191.41	907.45	283.96	4.196	
9,200.00	7,241.05	7,222.05	7,241.05	68.60	250.40	-89.01	-133.30	-1,104.21	1,289.67	1,005.81	283.86	4.543	
9,300.00	7,240.74	7,221.74	7,240.74	71.13	250.39	-88.94	-133.30	-1,104.21	1,388.19	1,104.40	283.78	4.892	
9,400.00	7,240.43	7,221.43	7,240.43	73.70	250.38	-88.86	-133.30	-1,104.21	1,486.90	1,203.17	283.72	5.241	
9,500.00	7,240.11	7,221.11	7,240.11	76.28	250.37	-88.78	-133.30	-1,104.21	1,585.77	1,302.10	283.67	5.590	
9,600.00	7,239.80	7,220.80	7,239.80	78.88	250.35	-88.70	-133.30	-1,104.21	1,684.77	1,401.14	283.63	5.940	
9,700.00	7,239.49	7,220.49	7,239.49	81.50	250.34	-88.63	-133.30	-1,104.21	1,783.89	1,500.29	283.60	6.290	
9,800.00	7,239.18	7,220.18	7,239.18	84.13	250.33	-88.55	-133.30	-1,104.21	1,883.10	1,599.52	283.57	6.641	
9,900.00	7,238.87	7,219.87	7,238.87	86.78	250.32	-88.47	-133.30	-1,104.21	1,982.38	1,698.83	283.55	6.991	
10,000.00	7,238.55	7,219.55	7,238.55	89.44	250.31	-88.39	-133.30	-1,104.21	2,081.74	1,798.20	283.54	7.342	
10,100.00	7,238.24	7,219.24	7,238.24	92.11	250.30	-88.32	-133.30	-1,104.21	2,181.16	1,897.62	283.53	7.693	
10,200.00	7,237.93	7,218.93	7,237.93	94.80	250.29	-88.24	-133.30	-1,104.21	2,280.62	1,997.09	283.53	8.044	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	
10,300.00	7,237.62	7,218.62	7,237.62	97.49	250.28	-88.16	-133.30	-1,104.21	2,380.13	2,096.60	283.53	8.395	
10,400.00	7,237.31	7,218.31	7,237.31	100.19	250.27	-88.08	-133.30	-1,104.21	2,479.68	2,196.15	283.53	8.746	
10,500.00	7,236.99	7,217.99	7,236.99	102.90	250.26	-88.00	-133.30	-1,104.21	2,579.27	2,295.73	283.54	9.097	
10,600.00	7,236.68	7,217.68	7,236.68	105.62	250.25	-87.93	-133.30	-1,104.21	2,678.88	2,395.34	283.55	9.448	
10,700.00	7,236.37	7,217.37	7,236.37	108.35	250.23	-87.85	-133.30	-1,104.21	2,778.53	2,494.97	283.56	9.799	
10,800.00	7,236.06	7,217.06	7,236.06	111.08	250.22	-87.77	-133.30	-1,104.21	2,878.20	2,594.62	283.58	10.150	
10,900.00	7,235.75	7,216.75	7,235.75	113.82	250.21	-87.69	-133.30	-1,104.21	2,977.89	2,694.29	283.59	10.501	
11,000.00	7,235.44	7,216.44	7,235.44	116.56	250.20	-87.62	-133.30	-1,104.21	3,077.60	2,793.98	283.61	10.851	
11,100.00	7,235.12	7,216.12	7,235.12	119.31	250.19	-87.54	-133.30	-1,104.21	3,177.33	2,893.69	283.64	11.202	
11,200.00	7,234.81	7,215.81	7,234.81	122.07	250.18	-87.46	-133.30	-1,104.21	3,277.07	2,993.41	283.66	11.553	
11,300.00	7,234.50	7,215.50	7,234.50	124.83	250.17	-87.38	-133.30	-1,104.21	3,376.83	3,093.15	283.68	11.904	
11,400.00	7,234.19	7,215.19	7,234.19	127.59	250.16	-87.31	-133.30	-1,104.21	3,476.61	3,192.89	283.71	12.254	
11,500.00	7,233.88	7,214.88	7,233.88	130.36	250.15	-87.23	-133.30	-1,104.21	3,576.39	3,292.65	283.74	12.604	
11,600.00	7,233.56	7,214.56	7,233.56	133.13	250.14	-87.15	-133.30	-1,104.21	3,676.19	3,392.42	283.77	12.955	
11,700.00	7,233.25	7,214.25	7,233.25	135.91	250.13	-87.07	-133.30	-1,104.21	3,776.00	3,492.20	283.80	13.305	
11,800.00	7,232.94	7,213.94	7,232.94	138.68	250.12	-87.00	-133.30	-1,104.21	3,875.82	3,591.98	283.84	13.655	
11,900.00	7,232.63	7,213.63	7,232.63	141.47	250.10	-86.92	-133.30	-1,104.21	3,975.65	3,691.77	283.87	14.005	
12,000.00	7,232.32	7,213.32	7,232.32	144.25	250.09	-86.84	-133.30	-1,104.21	4,075.48	3,791.57	283.91	14.355	
12,100.00	7,232.00	7,213.00	7,232.00	147.04	250.08	-86.76	-133.30	-1,104.21	4,175.33	3,891.38	283.95	14.705	
12,200.00	7,231.69	7,212.69	7,231.69	149.83	250.07	-86.69	-133.30	-1,104.21	4,275.18	3,991.19	283.99	15.054	
12,300.00	7,231.38	7,212.38	7,231.38	152.62	250.06	-86.61	-133.30	-1,104.21	4,375.03	4,091.01	284.03	15.404	
12,400.00	7,231.07	7,212.07	7,231.07	155.42	250.05	-86.53	-133.30	-1,104.21	4,474.90	4,190.83	284.07	15.753	
12,500.00	7,230.76	7,211.76	7,230.76	158.22	250.04	-86.45	-133.30	-1,104.21	4,574.77	4,290.66	284.11	16.102	
12,600.00	7,230.44	7,211.44	7,230.44	161.01	250.03	-86.38	-133.30	-1,104.21	4,674.65	4,390.49	284.16	16.451	
12,700.00	7,230.13	7,211.13	7,230.13	163.82	250.02	-86.30	-133.30	-1,104.21	4,774.53	4,490.32	284.20	16.800	
12,800.00	7,229.82	7,210.82	7,229.82	166.62	250.01	-86.22	-133.30	-1,104.21	4,874.41	4,590.16	284.25	17.148	
12,900.00	7,229.51	7,210.51	7,229.51	169.43	250.00	-86.14	-133.30	-1,104.21	4,974.30	4,690.00	284.30	17.497	
13,000.00	7,229.20	7,210.20	7,229.20	172.23	249.98	-86.07	-133.30	-1,104.21	5,074.20	4,789.85	284.35	17.845	
13,100.00	7,228.88	7,209.88	7,228.88	175.04	249.97	-85.99	-133.30	-1,104.21	5,174.10	4,889.70	284.40	18.193	
13,200.00	7,228.57	7,209.57	7,228.57	177.85	249.96	-85.91	-133.30	-1,104.21	5,274.00	4,989.55	284.45	18.541	
13,300.00	7,228.26	7,209.26	7,228.26	180.66	249.95	-85.84	-133.30	-1,104.21	5,373.90	5,089.40	284.50	18.889	
13,400.00	7,227.95	7,208.95	7,227.95	183.48	249.94	-85.76	-133.30	-1,104.21	5,473.81	5,189.26	284.56	19.236	
13,500.00	7,227.64	7,208.64	7,227.64	186.29	249.93	-85.68	-133.30	-1,104.21	5,573.73	5,289.11	284.61	19.584	
13,600.00	7,227.33	7,208.33	7,227.33	189.11	249.92	-85.60	-133.30	-1,104.21	5,673.64	5,388.97	284.67	19.931	
13,700.00	7,227.01	7,208.01	7,227.01	191.92	249.91	-85.53	-133.30	-1,104.21	5,773.56	5,488.83	284.73	20.278	
13,800.00	7,226.70	7,207.70	7,226.70	194.74	249.90	-85.45	-133.30	-1,104.21	5,873.48	5,588.70	284.78	20.624	
13,900.00	7,226.39	7,207.39	7,226.39	197.56	249.89	-85.37	-133.30	-1,104.21	5,973.41	5,688.56	284.84	20.971	
14,000.00	7,226.08	7,207.08	7,226.08	200.38	249.88	-85.29	-133.30	-1,104.21	6,073.33	5,788.43	284.90	21.317	
14,100.00	7,225.77	7,206.77	7,225.77	203.21	249.86	-85.22	-133.30	-1,104.21	6,173.26	5,888.30	284.97	21.663	
14,200.00	7,225.45	7,206.45	7,225.45	206.03	249.85	-85.14	-133.30	-1,104.21	6,273.19	5,988.17	285.03	22.009	
14,300.00	7,225.14	7,206.14	7,225.14	208.85	249.84	-85.06	-133.30	-1,104.21	6,373.13	6,088.04	285.09	22.355	
14,400.00	7,224.83	7,205.83	7,224.83	211.68	249.83	-84.99	-133.30	-1,104.21	6,473.06	6,187.91	285.16	22.700	
14,500.00	7,224.52	7,205.52	7,224.52	214.50	249.82	-84.91	-133.30	-1,104.21	6,573.00	6,287.78	285.22	23.045	
14,600.00	7,224.21	7,205.21	7,224.21	217.33	249.81	-84.83	-133.30	-1,104.21	6,672.94	6,387.65	285.29	23.390	
14,700.00	7,223.89	7,204.89	7,223.89	220.16	249.80	-84.75	-133.30	-1,104.21	6,772.88	6,487.52	285.35	23.735	
14,800.00	7,223.58	7,204.58	7,223.58	222.98	249.79	-84.68	-133.30	-1,104.21	6,872.82	6,587.40	285.42	24.079	
14,900.00	7,223.27	7,204.27	7,223.27	225.81	249.78	-84.60	-133.30	-1,104.21	6,972.77	6,687.27	285.49	24.424	
14,987.41	7,223.00	7,204.00	7,223.00	228.28	249.77	-84.53	-133.30	-1,104.21	7,060.13	6,774.58	285.55	24.724	



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	12.00	3.28	3.28	-69.71	547.97	-1,482.44	1,580.52				
100.00	100.00	88.00	100.00	3.28	3.62	-69.71	547.97	-1,482.44	1,580.47	1,573.57	6.91	228.837	
200.00	200.00	188.00	200.00	3.34	5.83	-69.71	547.97	-1,482.44	1,580.47	1,571.31	9.17	172.443	
300.00	300.00	288.00	300.00	3.44	8.93	-69.71	547.97	-1,482.44	1,580.47	1,568.10	12.38	127.689	
400.00	400.00	388.00	400.00	3.60	12.25	-69.71	547.97	-1,482.44	1,580.47	1,564.62	15.85	99.712	
500.00	500.00	488.00	500.00	3.81	15.64	-69.71	547.97	-1,482.44	1,580.47	1,561.03	19.44	81.282	
600.00	600.00	588.00	600.00	4.05	19.07	-69.71	547.97	-1,482.44	1,580.47	1,557.36	23.11	68.383	
700.00	699.98	687.98	699.98	4.32	22.51	-11.73	547.97	-1,482.44	1,578.80	1,551.98	26.83	58.850	
800.00	799.94	787.94	799.94	4.61	25.97	-11.75	547.97	-1,482.44	1,575.90	1,545.32	30.58	51.540	
900.00	899.89	887.89	899.89	4.92	29.43	-11.78	547.97	-1,482.44	1,572.99	1,538.64	34.35	45.788	
1,000.00	999.85	987.85	999.85	5.25	32.90	-11.80	547.97	-1,482.44	1,570.09	1,531.93	38.16	41.150	
1,100.00	1,099.80	1,087.80	1,099.80	5.60	36.38	-11.82	547.97	-1,482.44	1,567.19	1,525.21	41.98	37.336	
1,200.00	1,199.76	1,187.76	1,199.76	5.96	39.85	-11.84	547.97	-1,482.44	1,564.28	1,518.47	45.81	34.147	
1,300.00	1,299.72	1,287.72	1,299.72	6.33	43.33	-11.86	547.97	-1,482.44	1,561.38	1,511.72	49.66	31.443	
1,400.00	1,399.67	1,387.67	1,399.67	6.71	46.81	-11.89	547.97	-1,482.44	1,558.47	1,504.96	53.52	29.122	
1,500.00	1,499.63	1,487.63	1,499.63	7.10	50.29	-11.91	547.97	-1,482.44	1,555.57	1,498.19	57.38	27.110	
1,600.00	1,599.58	1,587.58	1,599.58	7.49	53.78	-11.93	547.97	-1,482.44	1,552.67	1,491.41	61.25	25.348	
1,700.00	1,699.54	1,687.54	1,699.54	7.88	57.26	-11.95	547.97	-1,482.44	1,549.77	1,484.63	65.13	23.794	
1,800.00	1,799.50	1,787.50	1,799.50	8.28	60.74	-11.98	547.97	-1,482.44	1,546.86	1,477.85	69.02	22.413	
1,900.00	1,899.45	1,887.45	1,899.45	8.69	64.23	-12.00	547.97	-1,482.44	1,543.96	1,471.06	72.90	21.178	
2,000.00	1,999.41	1,987.41	1,999.41	9.10	67.71	-12.02	547.97	-1,482.44	1,541.06	1,464.26	76.80	20.067	
2,100.00	2,099.36	2,087.36	2,099.36	9.51	71.20	-12.05	547.97	-1,482.44	1,538.16	1,457.46	80.69	19.062	
2,200.00	2,199.32	2,187.32	2,199.32	9.92	74.69	-12.07	547.97	-1,482.44	1,535.26	1,450.66	84.59	18.149	
2,300.00	2,299.28	2,287.28	2,299.28	10.34	78.17	-12.09	547.97	-1,482.44	1,532.35	1,443.86	88.49	17.316	
2,400.00	2,399.23	2,387.23	2,399.23	10.75	81.66	-12.12	547.97	-1,482.44	1,529.45	1,437.06	92.39	16.554	
2,500.00	2,499.19	2,487.19	2,499.19	11.17	85.15	-12.14	547.97	-1,482.44	1,526.55	1,430.25	96.30	15.852	
2,600.00	2,599.14	2,587.14	2,599.14	11.60	88.63	-12.16	547.97	-1,482.44	1,523.65	1,423.45	100.21	15.205	
2,700.00	2,699.10	2,687.10	2,699.10	12.02	92.12	-12.19	547.97	-1,482.44	1,520.75	1,416.64	104.11	14.607	
2,800.00	2,799.06	2,787.06	2,799.06	12.44	95.61	-12.21	547.97	-1,482.44	1,517.85	1,409.83	108.02	14.051	
2,900.00	2,899.01	2,887.01	2,899.01	12.87	99.09	-12.23	547.97	-1,482.44	1,514.95	1,403.02	111.93	13.534	
3,000.00	2,998.97	2,986.97	2,998.97	13.29	102.58	-12.26	547.97	-1,482.44	1,512.05	1,396.20	115.85	13.052	
3,100.00	3,098.92	3,086.92	3,098.92	13.72	106.07	-12.28	547.97	-1,482.44	1,509.15	1,389.39	119.76	12.601	
3,200.00	3,198.88	3,186.88	3,198.88	14.14	109.56	-12.30	547.97	-1,482.44	1,506.25	1,382.58	123.67	12.179	
3,300.00	3,298.84	3,286.84	3,298.84	14.57	113.05	-12.33	547.97	-1,482.44	1,503.35	1,375.77	127.59	11.783	
3,400.00	3,398.79	3,386.79	3,398.79	15.00	116.53	-12.35	547.97	-1,482.44	1,500.46	1,368.95	131.50	11.410	
3,500.00	3,498.75	3,486.75	3,498.75	15.43	120.02	-12.38	547.97	-1,482.44	1,497.56	1,362.14	135.42	11.059	
3,600.00	3,598.70	3,586.70	3,598.70	15.86	123.51	-12.40	547.97	-1,482.44	1,494.66	1,355.32	139.34	10.727	
3,700.00	3,698.66	3,686.66	3,698.66	16.29	127.00	-12.43	547.97	-1,482.44	1,491.76	1,348.51	143.26	10.413	
3,800.00	3,798.62	3,786.62	3,798.62	16.72	130.49	-12.45	547.97	-1,482.44	1,488.87	1,341.69	147.17	10.116	
3,900.00	3,898.57	3,886.57	3,898.57	17.15	133.98	-12.48	547.97	-1,482.44	1,485.97	1,334.87	151.09	9.835	
4,000.00	3,998.53	3,986.53	3,998.53	17.59	137.46	-12.50	547.97	-1,482.44	1,483.07	1,328.06	155.01	9.567	
4,100.00	4,098.48	4,086.48	4,098.48	18.02	140.95	-12.53	547.97	-1,482.44	1,480.17	1,321.24	158.93	9.313	
4,200.00	4,198.44	4,186.44	4,198.44	18.45	144.44	-12.55	547.97	-1,482.44	1,477.28	1,314.43	162.85	9.071	
4,300.00	4,298.40	4,286.40	4,298.40	18.88	147.93	-12.58	547.97	-1,482.44	1,474.38	1,307.61	166.77	8.841	
4,400.00	4,398.35	4,386.35	4,398.35	19.32	151.42	-12.60	547.97	-1,482.44	1,471.49	1,300.79	170.69	8.621	
4,500.00	4,498.31	4,486.31	4,498.31	19.75	154.91	-12.63	547.97	-1,482.44	1,468.59	1,293.98	174.62	8.410	
4,600.00	4,598.26	4,586.26	4,598.26	20.19	158.40	-12.65	547.97	-1,482.44	1,465.70	1,287.16	178.54	8.209	
4,700.00	4,698.22	4,686.22	4,698.22	20.62	161.88	-12.68	547.97	-1,482.44	1,462.80	1,280.34	182.46	8.017	
4,800.00	4,798.18	4,786.18	4,798.18	21.05	165.37	-12.70	547.97	-1,482.44	1,459.91	1,273.53	186.38	7.833	
4,900.00	4,898.13	4,886.13	4,898.13	21.49	168.86	-12.73	547.97	-1,482.44	1,457.01	1,266.71	190.30	7.656	
5,000.00	4,998.09	4,986.09	4,998.09	21.92	172.35	-12.75	547.97	-1,482.44	1,454.12	1,259.89	194.23	7.487	
5,100.00	5,098.04	5,086.04	5,098.04	22.36	175.84	-12.78	547.97	-1,482.44	1,451.22	1,253.08	198.15	7.324	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,186.00	5,198.00	22.79	179.33	-12.81	547.97	-1,482.44	1,448.33	1,246.26	202.07	7.167	
5,300.00	5,297.96	5,285.96	5,297.96	23.23	182.82	-12.83	547.97	-1,482.44	1,445.44	1,239.44	205.99	7.017	
5,400.00	5,397.91	5,385.91	5,397.91	23.67	186.31	-12.86	547.97	-1,482.44	1,442.55	1,232.63	209.92	6.872	
5,500.00	5,497.87	5,485.87	5,497.87	24.10	189.79	-12.88	547.97	-1,482.44	1,439.65	1,225.81	213.84	6.732	
5,600.00	5,597.82	5,585.82	5,597.82	24.54	193.28	-12.91	547.97	-1,482.44	1,436.76	1,218.99	217.77	6.598	
5,700.00	5,697.78	5,685.78	5,697.78	24.97	196.77	-12.94	547.97	-1,482.44	1,433.87	1,212.18	221.69	6.468	
5,800.00	5,797.74	5,785.74	5,797.74	25.41	200.26	-12.96	547.97	-1,482.44	1,430.98	1,205.36	225.61	6.343	
5,900.00	5,897.69	5,885.69	5,897.69	25.85	203.75	-12.99	547.97	-1,482.44	1,428.09	1,198.55	229.54	6.222	
6,000.00	5,997.65	5,985.65	5,997.65	26.28	207.24	-13.02	547.97	-1,482.44	1,425.19	1,191.73	233.46	6.105	
6,100.00	6,097.60	6,085.60	6,097.60	26.72	210.73	-13.04	547.97	-1,482.44	1,422.30	1,184.92	237.39	5.991	
6,200.00	6,197.56	6,185.56	6,197.56	27.16	214.22	-13.07	547.97	-1,482.44	1,419.41	1,178.10	241.31	5.882	
6,300.00	6,297.52	6,285.52	6,297.52	27.59	217.71	-13.10	547.97	-1,482.44	1,416.52	1,171.29	245.24	5.776	
6,400.00	6,397.47	6,385.47	6,397.47	28.03	221.20	-13.13	547.97	-1,482.44	1,413.63	1,164.47	249.16	5.674	
6,500.00	6,497.43	6,485.43	6,497.43	28.47	224.69	-13.15	547.97	-1,482.44	1,410.74	1,157.66	253.09	5.574	
6,600.00	6,597.38	6,585.38	6,597.38	28.90	228.17	-13.18	547.97	-1,482.44	1,407.86	1,150.84	257.01	5.478	
6,700.00	6,697.08	6,685.08	6,697.08	29.34	231.65	12.88	547.97	-1,482.44	1,401.14	1,140.21	260.93	5.370	
6,800.00	6,794.63	6,782.63	6,794.63	29.79	235.06	17.23	547.97	-1,482.44	1,380.37	1,115.60	264.77	5.214	
6,900.00	6,887.62	6,875.62	6,887.62	30.24	238.31	19.98	547.97	-1,482.44	1,345.54	1,077.11	268.43	5.013	
7,000.00	6,973.77	6,961.77	6,973.77	30.70	241.31	23.22	547.97	-1,482.44	1,297.65	1,025.83	271.82	4.774	
7,100.00	7,050.94	7,038.94	7,050.94	31.20	244.01	27.71	547.97	-1,482.44	1,238.06	963.20	274.86	4.504	
7,200.00	7,117.24	7,105.24	7,117.24	31.77	246.32	34.21	547.97	-1,482.44	1,168.54	891.05	277.49	4.211	
7,300.00	7,171.03	7,159.03	7,171.03	32.46	248.20	43.64	547.97	-1,482.44	1,091.19	811.52	279.67	3.902	
7,400.00	7,211.00	7,201.00	7,211.00	33.29	249.66	56.73	547.97	-1,482.44	1,008.42	726.98	281.44	3.583	
7,500.00	7,236.16	7,224.16	7,236.16	34.29	250.47	72.68	547.97	-1,482.44	922.96	640.33	282.63	3.266	
7,600.00	7,245.89	7,233.89	7,245.89	35.43	250.81	88.31	547.97	-1,482.44	837.76	554.28	283.48	2.955	
7,700.00	7,245.73	7,233.73	7,245.73	36.72	250.81	90.24	547.97	-1,482.44	755.68	471.44	284.24	2.659	
7,800.00	7,245.42	7,233.42	7,245.42	38.18	250.80	90.20	547.97	-1,482.44	678.42	393.03	285.39	2.377	
7,900.00	7,245.10	7,233.10	7,245.10	39.80	250.78	90.16	547.97	-1,482.44	607.83	320.75	287.08	2.117	
8,000.00	7,244.79	7,232.79	7,244.79	41.54	250.77	90.12	547.97	-1,482.44	546.50	257.09	289.41	1.888	
8,100.00	7,244.48	7,232.48	7,244.48	43.41	250.76	90.08	547.97	-1,482.44	497.86	205.52	292.34	1.703	
8,200.00	7,244.17	7,232.17	7,244.17	45.38	250.75	90.04	547.97	-1,482.44	465.91	170.42	295.49	1.577	
8,300.00	7,243.86	7,231.86	7,243.86	47.44	250.74	90.00	547.97	-1,482.44	454.18	156.00	298.17	1.523	
8,303.98	7,243.84	7,231.84	7,243.84	47.52	250.74	90.00	547.97	-1,482.44	454.16	155.90	298.26	1.523 CC, ES, SF	
8,400.00	7,243.55	7,231.55	7,243.55	49.58	250.73	89.96	547.97	-1,482.44	464.20	164.48	299.72	1.549	
8,500.00	7,243.23	7,231.23	7,243.23	51.78	250.72	89.92	547.97	-1,482.44	494.65	194.67	299.98	1.649	
8,600.00	7,242.92	7,230.92	7,242.92	54.05	250.71	89.88	547.97	-1,482.44	542.11	242.80	299.31	1.811	
8,700.00	7,242.61	7,230.61	7,242.61	56.37	250.70	89.84	547.97	-1,482.44	602.57	304.39	298.17	2.021	
8,800.00	7,242.30	7,230.30	7,242.30	58.74	250.69	89.80	547.97	-1,482.44	672.52	375.61	296.91	2.265	
8,900.00	7,241.99	7,229.99	7,241.99	61.16	250.68	89.77	547.97	-1,482.44	749.33	453.62	295.70	2.534	
9,000.00	7,241.67	7,229.67	7,241.67	63.61	250.66	89.73	547.97	-1,482.44	831.08	536.46	294.62	2.821	
9,100.00	7,241.36	7,229.36	7,241.36	66.09	250.65	89.69	547.97	-1,482.44	916.46	622.78	293.68	3.121	
9,200.00	7,241.05	7,229.05	7,241.05	68.60	250.64	89.65	547.97	-1,482.44	1,004.54	711.67	292.87	3.430	
9,300.00	7,240.74	7,228.74	7,240.74	71.13	250.63	89.61	547.97	-1,482.44	1,094.67	802.49	292.18	3.747	
9,400.00	7,240.43	7,228.43	7,240.43	73.70	250.62	89.57	547.97	-1,482.44	1,186.38	894.79	291.59	4.069	
9,500.00	7,240.11	7,228.11	7,240.11	76.28	250.61	89.53	547.97	-1,482.44	1,279.34	988.26	291.08	4.395	
9,600.00	7,239.80	7,227.80	7,239.80	78.88	250.60	89.49	547.97	-1,482.44	1,373.28	1,082.64	290.64	4.725	
9,700.00	7,239.49	7,227.49	7,239.49	81.50	250.59	89.45	547.97	-1,482.44	1,468.03	1,177.76	290.27	5.058	
9,800.00	7,239.18	7,227.18	7,239.18	84.13	250.58	89.41	547.97	-1,482.44	1,563.43	1,273.49	289.94	5.392	
9,900.00	7,238.87	7,226.87	7,238.87	86.78	250.57	89.37	547.97	-1,482.44	1,659.37	1,369.72	289.65	5.729	
10,000.00	7,238.55	7,226.55	7,238.55	89.44	250.56	89.33	547.97	-1,482.44	1,755.76	1,466.36	289.40	6.067	
10,100.00	7,238.24	7,226.24	7,238.24	92.11	250.54	89.29	547.97	-1,482.44	1,852.54	1,563.36	289.18	6.406	
10,200.00	7,237.93	7,225.93	7,237.93	94.80	250.53	89.25	547.97	-1,482.44	1,949.64	1,660.66	288.98	6.747	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.62	7,225.62	7,237.62	97.49	250.52	89.21	547.97	-1,482.44	2,047.02	1,758.21	288.81	7.088		
10,400.00	7,237.31	7,225.31	7,237.31	100.19	250.51	89.18	547.97	-1,482.44	2,144.64	1,855.99	288.66	7.430		
10,500.00	7,236.99	7,224.99	7,236.99	102.90	250.50	89.14	547.97	-1,482.44	2,242.48	1,953.96	288.52	7.772		
10,600.00	7,236.68	7,224.68	7,236.68	105.62	250.49	89.10	547.97	-1,482.44	2,340.49	2,052.09	288.40	8.115		
10,700.00	7,236.37	7,224.37	7,236.37	108.35	250.48	89.06	547.97	-1,482.44	2,438.67	2,150.37	288.29	8.459		
10,800.00	7,236.06	7,224.06	7,236.06	111.08	250.47	89.02	547.97	-1,482.44	2,536.99	2,248.79	288.20	8.803		
10,900.00	7,235.75	7,223.75	7,235.75	113.82	250.46	88.98	547.97	-1,482.44	2,635.43	2,347.31	288.12	9.147		
11,000.00	7,235.44	7,223.44	7,235.44	116.56	250.45	88.94	547.97	-1,482.44	2,733.99	2,445.95	288.04	9.492		
11,100.00	7,235.12	7,223.12	7,235.12	119.31	250.44	88.90	547.97	-1,482.44	2,832.65	2,544.67	287.98	9.836		
11,200.00	7,234.81	7,222.81	7,234.81	122.07	250.42	88.86	547.97	-1,482.44	2,931.40	2,643.48	287.92	10.181		
11,300.00	7,234.50	7,222.50	7,234.50	124.83	250.41	88.82	547.97	-1,482.44	3,030.23	2,742.36	287.87	10.526		
11,400.00	7,234.19	7,222.19	7,234.19	127.59	250.40	88.78	547.97	-1,482.44	3,129.13	2,841.31	287.83	10.872		
11,500.00	7,233.88	7,221.88	7,233.88	130.36	250.39	88.74	547.97	-1,482.44	3,228.11	2,940.32	287.79	11.217		
11,600.00	7,233.56	7,221.56	7,233.56	133.13	250.38	88.70	547.97	-1,482.44	3,327.14	3,039.39	287.76	11.562		
11,700.00	7,233.25	7,221.25	7,233.25	135.91	250.37	88.66	547.97	-1,482.44	3,426.23	3,138.50	287.73	11.908		
11,800.00	7,232.94	7,220.94	7,232.94	138.68	250.36	88.62	547.97	-1,482.44	3,525.38	3,237.67	287.71	12.253		
11,900.00	7,232.63	7,220.63	7,232.63	141.47	250.35	88.59	547.97	-1,482.44	3,624.56	3,336.87	287.69	12.599		
12,000.00	7,232.32	7,220.32	7,232.32	144.25	250.34	88.55	547.97	-1,482.44	3,723.80	3,436.12	287.68	12.944		
12,100.00	7,232.00	7,220.00	7,232.00	147.04	250.33	88.51	547.97	-1,482.44	3,823.07	3,535.40	287.67	13.290		
12,200.00	7,231.69	7,219.69	7,231.69	149.83	250.32	88.47	547.97	-1,482.44	3,922.38	3,634.72	287.66	13.635		
12,300.00	7,231.38	7,219.38	7,231.38	152.62	250.31	88.43	547.97	-1,482.44	4,021.72	3,734.06	287.66	13.981		
12,400.00	7,231.07	7,219.07	7,231.07	155.42	250.29	88.39	547.97	-1,482.44	4,121.10	3,833.44	287.66	14.326		
12,500.00	7,230.76	7,218.76	7,230.76	158.22	250.28	88.35	547.97	-1,482.44	4,220.50	3,932.84	287.67	14.672		
12,600.00	7,230.44	7,218.44	7,230.44	161.01	250.27	88.31	547.97	-1,482.44	4,319.94	4,032.26	287.67	15.017		
12,700.00	7,230.13	7,218.13	7,230.13	163.82	250.26	88.27	547.97	-1,482.44	4,419.39	4,131.71	287.68	15.362		
12,800.00	7,229.82	7,217.82	7,229.82	166.62	250.25	88.23	547.97	-1,482.44	4,518.87	4,231.18	287.70	15.707		
12,900.00	7,229.51	7,217.51	7,229.51	169.43	250.24	88.19	547.97	-1,482.44	4,618.38	4,330.67	287.71	16.052		
13,000.00	7,229.20	7,217.20	7,229.20	172.23	250.23	88.15	547.97	-1,482.44	4,717.90	4,430.17	287.73	16.397		
13,100.00	7,228.88	7,216.88	7,228.88	175.04	250.22	88.11	547.97	-1,482.44	4,817.45	4,529.70	287.75	16.742		
13,200.00	7,228.57	7,216.57	7,228.57	177.85	250.21	88.07	547.97	-1,482.44	4,917.01	4,629.24	287.77	17.086		
13,300.00	7,228.26	7,216.26	7,228.26	180.66	250.20	88.03	547.97	-1,482.44	5,016.59	4,728.80	287.80	17.431		
13,400.00	7,227.95	7,215.95	7,227.95	183.48	250.19	88.00	547.97	-1,482.44	5,116.19	4,828.37	287.82	17.775		
13,500.00	7,227.64	7,215.64	7,227.64	186.29	250.17	87.96	547.97	-1,482.44	5,215.80	4,927.95	287.85	18.120		
13,600.00	7,227.33	7,215.33	7,227.33	189.11	250.16	87.92	547.97	-1,482.44	5,315.43	5,027.55	287.88	18.464		
13,700.00	7,227.01	7,215.01	7,227.01	191.92	250.15	87.88	547.97	-1,482.44	5,415.07	5,127.15	287.91	18.808		
13,800.00	7,226.70	7,214.70	7,226.70	194.74	250.14	87.84	547.97	-1,482.44	5,514.72	5,226.77	287.95	19.152		
13,900.00	7,226.39	7,214.39	7,226.39	197.56	250.13	87.80	547.97	-1,482.44	5,614.39	5,326.40	287.98	19.495		
14,000.00	7,226.08	7,214.08	7,226.08	200.38	250.12	87.76	547.97	-1,482.44	5,714.07	5,426.04	288.02	19.839		
14,100.00	7,225.77	7,213.77	7,225.77	203.21	250.11	87.72	547.97	-1,482.44	5,813.75	5,525.69	288.06	20.182		
14,200.00	7,225.45	7,213.45	7,225.45	206.03	250.10	87.68	547.97	-1,482.44	5,913.45	5,625.35	288.10	20.526		
14,300.00	7,225.14	7,213.14	7,225.14	208.85	250.09	87.64	547.97	-1,482.44	6,013.16	5,725.02	288.14	20.869		
14,400.00	7,224.83	7,212.83	7,224.83	211.68	250.08	87.60	547.97	-1,482.44	6,112.88	5,824.69	288.19	21.211		
14,500.00	7,224.52	7,212.52	7,224.52	214.50	250.07	87.56	547.97	-1,482.44	6,212.61	5,924.37	288.23	21.554		
14,600.00	7,224.21	7,212.21	7,224.21	217.33	250.05	87.52	547.97	-1,482.44	6,312.35	6,024.06	288.28	21.897		
14,700.00	7,223.89	7,211.89	7,223.89	220.16	250.04	87.48	547.97	-1,482.44	6,412.09	6,123.76	288.33	22.239		
14,800.00	7,223.58	7,211.58	7,223.58	222.98	250.03	87.45	547.97	-1,482.44	6,511.84	6,223.46	288.38	22.581		
14,900.00	7,223.27	7,211.27	7,223.27	225.81	250.02	87.41	547.97	-1,482.44	6,611.60	6,323.17	288.43	22.923		
14,987.41	7,223.00	7,211.00	7,223.00	228.28	250.01	87.37	547.97	-1,482.44	6,698.81	6,410.33	288.48	23.221		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	49.00	3.28	3.28	-78.05	1,055.91	-4,990.41	5,101.13					
100.00	100.00	51.00	100.00	3.28	3.40	-78.05	1,055.91	-4,990.41	5,100.90	5,094.21	6.68	763.221		
200.00	200.00	151.00	200.00	3.34	4.82	-78.05	1,055.91	-4,990.41	5,100.90	5,092.74	8.15	625.671		
300.00	300.00	251.00	300.00	3.44	7.75	-78.05	1,055.91	-4,990.41	5,100.90	5,089.71	11.19	455.821		
400.00	400.00	351.00	400.00	3.60	11.01	-78.05	1,055.91	-4,990.41	5,100.90	5,086.28	14.61	349.107		
500.00	500.00	451.00	500.00	3.81	14.38	-78.05	1,055.91	-4,990.41	5,100.90	5,082.71	18.18	280.515		
600.00	600.00	551.00	600.00	4.05	17.79	-78.05	1,055.91	-4,990.41	5,100.90	5,079.05	21.84	233.546		
700.00	699.98	650.98	699.98	4.32	21.24	-20.07	1,055.91	-4,990.41	5,099.29	5,073.74	25.55	199.579		
800.00	799.94	750.94	799.94	4.61	24.69	-20.08	1,055.91	-4,990.41	5,096.51	5,067.21	29.30	173.972		
900.00	899.89	850.89	899.89	4.92	28.15	-20.09	1,055.91	-4,990.41	5,093.72	5,060.65	33.07	154.025		
1,000.00	999.85	950.85	999.85	5.25	31.62	-20.10	1,055.91	-4,990.41	5,090.93	5,054.06	36.87	138.077		
1,100.00	1,099.80	1,050.80	1,099.80	5.60	35.09	-20.11	1,055.91	-4,990.41	5,088.15	5,047.46	40.69	125.050		
1,200.00	1,199.76	1,150.76	1,199.76	5.96	38.57	-20.13	1,055.91	-4,990.41	5,085.36	5,040.84	44.52	114.219		
1,300.00	1,299.72	1,250.72	1,299.72	6.33	42.05	-20.14	1,055.91	-4,990.41	5,082.58	5,034.21	48.37	105.079		
1,400.00	1,399.67	1,350.67	1,399.67	6.71	45.52	-20.15	1,055.91	-4,990.41	5,079.79	5,027.56	52.23	97.266		
1,500.00	1,499.63	1,450.63	1,499.63	7.10	49.01	-20.16	1,055.91	-4,990.41	5,077.00	5,020.91	56.09	90.514		
1,600.00	1,599.58	1,550.58	1,599.58	7.49	52.49	-20.17	1,055.91	-4,990.41	5,074.22	5,014.26	59.96	84.622		
1,700.00	1,699.54	1,650.54	1,699.54	7.88	55.97	-20.18	1,055.91	-4,990.41	5,071.43	5,007.59	63.84	79.438		
1,800.00	1,799.50	1,750.50	1,799.50	8.28	59.46	-20.19	1,055.91	-4,990.41	5,068.65	5,000.92	67.73	74.841		
1,900.00	1,899.45	1,850.45	1,899.45	8.69	62.94	-20.21	1,055.91	-4,990.41	5,065.86	4,994.25	71.61	70.739		
2,000.00	1,999.41	1,950.41	1,999.41	9.10	66.42	-20.22	1,055.91	-4,990.41	5,063.08	4,987.58	75.51	67.056		
2,100.00	2,099.36	2,050.36	2,099.36	9.51	69.91	-20.23	1,055.91	-4,990.41	5,060.30	4,980.90	79.40	63.732		
2,200.00	2,199.32	2,150.32	2,199.32	9.92	73.40	-20.24	1,055.91	-4,990.41	5,057.51	4,974.21	83.30	60.716		
2,300.00	2,299.28	2,250.28	2,299.28	10.34	76.88	-20.25	1,055.91	-4,990.41	5,054.73	4,967.53	87.20	57.968		
2,400.00	2,399.23	2,350.23	2,399.23	10.75	80.37	-20.26	1,055.91	-4,990.41	5,051.94	4,960.84	91.10	55.454		
2,500.00	2,499.19	2,450.19	2,499.19	11.17	83.85	-20.28	1,055.91	-4,990.41	5,049.16	4,954.16	95.01	53.146		
2,600.00	2,599.14	2,550.14	2,599.14	11.60	87.34	-20.29	1,055.91	-4,990.41	5,046.38	4,947.47	98.91	51.019		
2,700.00	2,699.10	2,650.10	2,699.10	12.02	90.83	-20.30	1,055.91	-4,990.41	5,043.59	4,940.77	102.82	49.052		
2,800.00	2,799.06	2,750.06	2,799.06	12.44	94.32	-20.31	1,055.91	-4,990.41	5,040.81	4,934.08	106.73	47.230		
2,900.00	2,899.01	2,850.01	2,899.01	12.87	97.80	-20.32	1,055.91	-4,990.41	5,038.03	4,927.39	110.64	45.535		
3,000.00	2,998.97	2,949.97	2,998.97	13.29	101.29	-20.33	1,055.91	-4,990.41	5,035.25	4,920.69	114.55	43.956		
3,100.00	3,098.92	3,049.92	3,098.92	13.72	104.78	-20.35	1,055.91	-4,990.41	5,032.47	4,914.00	118.47	42.480		
3,200.00	3,198.88	3,149.88	3,198.88	14.14	108.27	-20.36	1,055.91	-4,990.41	5,029.68	4,907.30	122.38	41.099		
3,300.00	3,298.84	3,249.84	3,298.84	14.57	111.75	-20.37	1,055.91	-4,990.41	5,026.90	4,900.61	126.29	39.803		
3,400.00	3,398.79	3,349.79	3,398.79	15.00	115.24	-20.38	1,055.91	-4,990.41	5,024.12	4,893.91	130.21	38.585		
3,500.00	3,498.75	3,449.75	3,498.75	15.43	118.73	-20.39	1,055.91	-4,990.41	5,021.34	4,887.21	134.13	37.437		
3,600.00	3,598.70	3,549.70	3,598.70	15.86	122.22	-20.40	1,055.91	-4,990.41	5,018.56	4,880.51	138.04	36.355		
3,700.00	3,698.66	3,649.66	3,698.66	16.29	125.71	-20.42	1,055.91	-4,990.41	5,015.78	4,873.82	141.96	35.332		
3,800.00	3,798.62	3,749.62	3,798.62	16.72	129.20	-20.43	1,055.91	-4,990.41	5,013.00	4,867.12	145.88	34.364		
3,900.00	3,898.57	3,849.57	3,898.57	17.15	132.68	-20.44	1,055.91	-4,990.41	5,010.22	4,860.42	149.80	33.447		
4,000.00	3,998.53	3,949.53	3,998.53	17.59	136.17	-20.45	1,055.91	-4,990.41	5,007.44	4,853.72	153.72	32.576		
4,100.00	4,098.48	4,049.48	4,098.48	18.02	139.66	-20.46	1,055.91	-4,990.41	5,004.66	4,847.02	157.64	31.748		
4,200.00	4,198.44	4,149.44	4,198.44	18.45	143.15	-20.48	1,055.91	-4,990.41	5,001.88	4,840.32	161.56	30.961		
4,300.00	4,298.40	4,249.40	4,298.40	18.88	146.64	-20.49	1,055.91	-4,990.41	4,999.10	4,833.62	165.48	30.210		
4,400.00	4,398.35	4,349.35	4,398.35	19.32	150.13	-20.50	1,055.91	-4,990.41	4,996.32	4,826.92	169.40	29.495		
4,500.00	4,498.31	4,449.31	4,498.31	19.75	153.62	-20.51	1,055.91	-4,990.41	4,993.54	4,820.22	173.32	28.811		
4,600.00	4,598.26	4,549.26	4,598.26	20.19	157.10	-20.52	1,055.91	-4,990.41	4,990.76	4,813.52	177.24	28.158		
4,700.00	4,698.22	4,649.22	4,698.22	20.62	160.59	-20.54	1,055.91	-4,990.41	4,987.98	4,806.82	181.16	27.533		
4,800.00	4,798.18	4,749.18	4,798.18	21.05	164.08	-20.55	1,055.91	-4,990.41	4,985.20	4,800.12	185.08	26.935		
4,900.00	4,898.13	4,849.13	4,898.13	21.49	167.57	-20.56	1,055.91	-4,990.41	4,982.42	4,793.42	189.01	26.361		
5,000.00	4,998.09	4,949.09	4,998.09	21.92	171.06	-20.57	1,055.91	-4,990.41	4,979.65	4,786.72	192.93	25.811		
5,100.00	5,098.04	5,049.04	5,098.04	22.36	174.55	-20.58	1,055.91	-4,990.41	4,976.87	4,780.02	196.85	25.282		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,149.00	5,198.00	22.79	178.04	-20.60	1,055.91	-4,990.41	4,974.09	4,773.32	200.77	24.775		
5,300.00	5,297.96	5,248.96	5,297.96	23.23	181.53	-20.61	1,055.91	-4,990.41	4,971.31	4,766.62	204.70	24.286		
5,400.00	5,397.91	5,348.91	5,397.91	23.67	185.01	-20.62	1,055.91	-4,990.41	4,968.54	4,759.92	208.62	23.816		
5,500.00	5,497.87	5,448.87	5,497.87	24.10	188.50	-20.63	1,055.91	-4,990.41	4,965.76	4,753.22	212.54	23.364		
5,600.00	5,597.82	5,548.82	5,597.82	24.54	191.99	-20.64	1,055.91	-4,990.41	4,962.98	4,746.51	216.47	22.927		
5,700.00	5,697.78	5,648.78	5,697.78	24.97	195.48	-20.66	1,055.91	-4,990.41	4,960.21	4,739.81	220.39	22.506		
5,800.00	5,797.74	5,748.74	5,797.74	25.41	198.97	-20.67	1,055.91	-4,990.41	4,957.43	4,733.11	224.31	22.100		
5,900.00	5,897.69	5,848.69	5,897.69	25.85	202.46	-20.68	1,055.91	-4,990.41	4,954.65	4,726.41	228.24	21.708		
6,000.00	5,997.65	5,948.65	5,997.65	26.28	205.95	-20.69	1,055.91	-4,990.41	4,951.88	4,719.71	232.16	21.329		
6,100.00	6,097.60	6,048.60	6,097.60	26.72	209.44	-20.70	1,055.91	-4,990.41	4,949.10	4,713.01	236.09	20.963		
6,200.00	6,197.56	6,148.56	6,197.56	27.16	212.93	-20.72	1,055.91	-4,990.41	4,946.33	4,706.31	240.01	20.609		
6,300.00	6,297.52	6,248.52	6,297.52	27.59	216.42	-20.73	1,055.91	-4,990.41	4,943.55	4,699.61	243.94	20.266		
6,400.00	6,397.47	6,348.47	6,397.47	28.03	219.90	-20.74	1,055.91	-4,990.41	4,940.78	4,692.91	247.86	19.934		
6,500.00	6,497.43	6,448.43	6,497.43	28.47	223.39	-20.75	1,055.91	-4,990.41	4,938.00	4,686.21	251.79	19.612		
6,600.00	6,597.38	6,548.38	6,597.38	28.90	226.88	-20.77	1,055.91	-4,990.41	4,935.23	4,679.52	255.71	19.300		
6,700.00	6,697.08	6,648.08	6,697.08	29.34	230.36	5.19	1,055.91	-4,990.41	4,928.48	4,668.85	259.63	18.983		
6,800.00	6,794.63	6,745.63	6,794.63	29.79	233.77	9.10	1,055.91	-4,990.41	4,907.14	4,643.67	263.47	18.625		
6,900.00	6,887.62	6,838.62	6,887.62	30.24	237.01	10.99	1,055.91	-4,990.41	4,871.13	4,604.01	267.12	18.236		
7,000.00	6,973.77	6,924.77	6,973.77	30.70	240.02	12.83	1,055.91	-4,990.41	4,821.35	4,550.85	270.50	17.824		
7,100.00	7,050.94	7,001.94	7,050.94	31.20	242.71	15.21	1,055.91	-4,990.41	4,759.05	4,485.52	273.53	17.399		
7,200.00	7,117.24	7,068.24	7,117.24	31.77	245.03	18.67	1,055.91	-4,990.41	4,685.78	4,409.66	276.12	16.970		
7,300.00	7,171.03	7,122.03	7,171.03	32.46	246.91	24.17	1,055.91	-4,990.41	4,603.36	4,325.14	278.22	16.546		
7,400.00	7,211.00	7,162.00	7,211.00	33.29	248.30	33.80	1,055.91	-4,990.41	4,513.85	4,234.07	279.78	16.134		
7,500.00	7,236.16	7,187.16	7,236.16	34.29	249.18	52.30	1,055.91	-4,990.41	4,419.49	4,138.71	280.78	15.740		
7,600.00	7,245.89	7,203.12	7,245.89	35.43	249.74	85.38	1,055.91	-4,990.41	4,322.61	4,041.18	281.44	15.359		
7,700.00	7,245.73	7,203.27	7,245.73	36.72	249.74	90.74	1,055.91	-4,990.41	4,225.33	3,943.79	281.53	15.008		
7,800.00	7,245.42	7,203.58	7,245.42	38.18	249.75	90.72	1,055.91	-4,990.41	4,128.17	3,846.52	281.66	14.657		
7,900.00	7,245.10	7,203.90	7,245.10	39.80	249.76	90.71	1,055.91	-4,990.41	4,031.15	3,749.35	281.81	14.305		
8,000.00	7,244.79	7,204.21	7,244.79	41.54	249.78	90.69	1,055.91	-4,990.41	3,934.29	3,652.30	281.98	13.952		
8,100.00	7,244.48	7,204.52	7,244.48	43.41	249.79	90.67	1,055.91	-4,990.41	3,837.58	3,555.38	282.20	13.599		
8,200.00	7,244.17	7,204.83	7,244.17	45.38	249.80	90.65	1,055.91	-4,990.41	3,741.05	3,458.60	282.45	13.245		
8,300.00	7,243.86	7,205.14	7,243.86	47.44	249.81	90.63	1,055.91	-4,990.41	3,644.70	3,361.97	282.73	12.891		
8,400.00	7,243.55	7,205.46	7,243.55	49.58	249.82	90.62	1,055.91	-4,990.41	3,548.56	3,265.49	283.07	12.536		
8,500.00	7,243.23	7,205.77	7,243.23	51.78	249.83	90.60	1,055.91	-4,990.41	3,452.63	3,169.18	283.45	12.181		
8,600.00	7,242.92	7,206.08	7,242.92	54.05	249.84	90.58	1,055.91	-4,990.41	3,356.95	3,073.05	283.89	11.825		
8,700.00	7,242.61	7,206.39	7,242.61	56.37	249.85	90.56	1,055.91	-4,990.41	3,261.52	2,977.12	284.40	11.468		
8,800.00	7,242.30	7,206.70	7,242.30	58.74	249.86	90.54	1,055.91	-4,990.41	3,166.37	2,881.41	284.97	11.111		
8,900.00	7,241.99	7,207.01	7,241.99	61.16	249.87	90.53	1,055.91	-4,990.41	3,071.54	2,785.92	285.62	10.754		
9,000.00	7,241.67	7,207.33	7,241.67	63.61	249.88	90.51	1,055.91	-4,990.41	2,977.04	2,690.68	286.35	10.396		
9,100.00	7,241.36	7,207.64	7,241.36	66.09	249.90	90.49	1,055.91	-4,990.41	2,882.91	2,595.73	287.18	10.039		
9,200.00	7,241.05	7,207.95	7,241.05	68.60	249.91	90.47	1,055.91	-4,990.41	2,789.19	2,501.07	288.12	9.681		
9,300.00	7,240.74	7,208.26	7,240.74	71.13	249.92	90.45	1,055.91	-4,990.41	2,695.92	2,406.75	289.17	9.323		
9,400.00	7,240.43	7,208.57	7,240.43	73.70	249.93	90.44	1,055.91	-4,990.41	2,603.15	2,312.80	290.35	8.966		
9,500.00	7,240.11	7,208.89	7,240.11	76.28	249.94	90.42	1,055.91	-4,990.41	2,510.94	2,219.26	291.68	8.609		
9,600.00	7,239.80	7,209.20	7,239.80	78.88	249.95	90.40	1,055.91	-4,990.41	2,419.34	2,126.18	293.16	8.253		
9,700.00	7,239.49	7,209.51	7,239.49	81.50	249.96	90.38	1,055.91	-4,990.41	2,328.44	2,033.62	294.82	7.898		
9,800.00	7,239.18	7,209.82	7,239.18	84.13	249.97	90.36	1,055.91	-4,990.41	2,238.31	1,941.64	296.67	7.545		
9,900.00	7,238.87	7,209.87	7,238.87	86.78	249.27	90.34	1,055.91	-4,990.41	2,149.06	1,851.03	298.03	7.211		
10,000.00	7,238.55	7,209.55	7,238.55	89.44	249.26	90.33	1,055.91	-4,990.41	2,060.79	1,760.48	300.31	6.862		
10,100.00	7,238.24	7,209.24	7,238.24	92.11	249.25	90.31	1,055.91	-4,990.41	1,973.64	1,670.80	302.84	6.517		
10,200.00	7,237.93	7,208.93	7,237.93	94.80	249.24	90.29	1,055.91	-4,990.41	1,887.77	1,582.10	305.67	6.176		
10,300.00	7,237.62	7,208.62	7,237.62	97.49	249.23	90.27	1,055.91	-4,990.41	1,803.35	1,494.55	308.80	5.840		

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,188.31	7,237.31	100.19	249.22	90.25	1,055.91	-4,990.41	1,720.61	1,408.34	312.27	5.510		
10,500.00	7,236.99	7,187.99	7,236.99	102.90	249.21	90.24	1,055.91	-4,990.41	1,639.79	1,323.68	316.11	5.187		
10,600.00	7,236.68	7,187.68	7,236.68	105.62	249.20	90.22	1,055.91	-4,990.41	1,561.19	1,240.84	320.34	4.873		
10,700.00	7,236.37	7,187.37	7,236.37	108.35	249.19	90.20	1,055.91	-4,990.41	1,485.17	1,160.17	324.99	4.570		
10,800.00	7,236.06	7,187.06	7,236.06	111.08	249.18	90.18	1,055.91	-4,990.41	1,412.14	1,082.07	330.07	4.278		
10,900.00	7,235.75	7,186.75	7,235.75	113.82	249.17	90.16	1,055.91	-4,990.41	1,342.58	1,007.01	335.58	4.001		
11,000.00	7,235.44	7,186.44	7,235.44	116.56	249.16	90.15	1,055.91	-4,990.41	1,277.08	935.59	341.49	3.740		
11,100.00	7,235.12	7,186.12	7,235.12	119.31	249.14	90.13	1,055.91	-4,990.41	1,216.29	868.52	347.77	3.497		
11,200.00	7,234.81	7,185.81	7,234.81	122.07	249.13	90.11	1,055.91	-4,990.41	1,160.93	806.62	354.31	3.277		
11,300.00	7,234.50	7,185.50	7,234.50	124.83	249.12	90.09	1,055.91	-4,990.41	1,111.83	750.85	360.98	3.080		
11,400.00	7,234.19	7,185.19	7,234.19	127.59	249.11	90.07	1,055.91	-4,990.41	1,069.85	702.28	367.57	2.911		
11,500.00	7,233.88	7,184.88	7,233.88	130.36	249.10	90.06	1,055.91	-4,990.41	1,035.85	662.02	373.83	2.771		
11,600.00	7,233.56	7,184.56	7,233.56	133.13	249.09	90.04	1,055.91	-4,990.41	1,010.64	631.17	379.46	2.663		
11,700.00	7,233.25	7,184.25	7,233.25	135.91	249.08	90.02	1,055.91	-4,990.41	994.88	610.70	384.19	2.590		
11,800.00	7,232.94	7,183.94	7,232.94	138.68	249.07	90.00	1,055.91	-4,990.41	989.04	601.29	387.74	2.551		
11,807.97	7,232.92	7,183.92	7,232.92	138.91	249.07	90.00	1,055.91	-4,990.41	989.01	601.03	387.97	2.549 CC, ES		
11,900.00	7,232.63	7,183.63	7,232.63	141.47	249.06	89.98	1,055.91	-4,990.41	993.28	603.30	389.98	2.547 SF		
12,000.00	7,232.32	7,183.32	7,232.32	144.25	249.05	89.97	1,055.91	-4,990.41	1,007.48	616.61	390.87	2.578		
12,100.00	7,232.00	7,183.00	7,232.00	147.04	249.04	89.95	1,055.91	-4,990.41	1,031.22	640.74	390.48	2.641		
12,200.00	7,231.69	7,182.69	7,231.69	149.83	249.02	89.93	1,055.91	-4,990.41	1,063.87	674.88	388.99	2.735		
12,300.00	7,231.38	7,182.38	7,231.38	152.62	249.01	89.91	1,055.91	-4,990.41	1,104.64	718.01	386.63	2.857		
12,400.00	7,231.07	7,182.07	7,231.07	155.42	249.00	89.89	1,055.91	-4,990.41	1,152.66	769.02	383.64	3.005		
12,500.00	7,230.76	7,181.76	7,230.76	158.22	248.99	89.87	1,055.91	-4,990.41	1,207.08	826.83	380.25	3.174		
12,600.00	7,230.44	7,181.44	7,230.44	161.01	248.98	89.86	1,055.91	-4,990.41	1,267.06	890.44	376.62	3.364		
12,700.00	7,230.13	7,181.13	7,230.13	163.82	248.97	89.84	1,055.91	-4,990.41	1,331.86	958.94	372.92	3.571		
12,800.00	7,229.82	7,180.82	7,229.82	166.62	248.96	89.82	1,055.91	-4,990.41	1,400.80	1,031.56	369.24	3.794		
12,900.00	7,229.51	7,180.51	7,229.51	169.43	248.95	89.80	1,055.91	-4,990.41	1,473.31	1,107.66	365.65	4.029		
13,000.00	7,229.20	7,180.20	7,229.20	172.23	248.94	89.78	1,055.91	-4,990.41	1,548.89	1,186.68	362.21	4.276		
13,100.00	7,228.88	7,179.88	7,228.88	175.04	248.93	89.77	1,055.91	-4,990.41	1,627.10	1,268.16	358.94	4.533		
13,200.00	7,228.57	7,179.57	7,228.57	177.85	248.92	89.75	1,055.91	-4,990.41	1,707.59	1,351.74	355.85	4.799		
13,300.00	7,228.26	7,179.26	7,228.26	180.66	248.90	89.73	1,055.91	-4,990.41	1,790.05	1,437.10	352.95	5.072		
13,400.00	7,227.95	7,178.95	7,227.95	183.48	248.89	89.71	1,055.91	-4,990.41	1,874.21	1,523.99	350.23	5.351		
13,500.00	7,227.64	7,178.64	7,227.64	186.29	248.88	89.69	1,055.91	-4,990.41	1,959.87	1,612.18	347.69	5.637		
13,600.00	7,227.33	7,178.33	7,227.33	189.11	248.87	89.68	1,055.91	-4,990.41	2,046.82	1,701.51	345.32	5.927		
13,700.00	7,227.01	7,178.01	7,227.01	191.92	248.86	89.66	1,055.91	-4,990.41	2,134.92	1,791.82	343.10	6.222		
13,800.00	7,226.70	7,177.70	7,226.70	194.74	248.85	89.64	1,055.91	-4,990.41	2,224.02	1,882.98	341.04	6.521		
13,900.00	7,226.39	7,177.39	7,226.39	197.56	248.84	89.62	1,055.91	-4,990.41	2,314.02	1,974.90	339.12	6.824		
14,000.00	7,226.08	7,177.08	7,226.08	200.38	248.83	89.60	1,055.91	-4,990.41	2,404.81	2,067.48	337.32	7.129		
14,100.00	7,225.77	7,176.77	7,225.77	203.21	248.82	89.59	1,055.91	-4,990.41	2,496.30	2,160.65	335.65	7.437		
14,200.00	7,225.45	7,176.45	7,225.45	206.03	248.81	89.57	1,055.91	-4,990.41	2,588.42	2,254.34	334.08	7.748		
14,300.00	7,225.14	7,176.14	7,225.14	208.85	248.80	89.55	1,055.91	-4,990.41	2,681.10	2,348.49	332.61	8.061		
14,400.00	7,224.83	7,175.83	7,224.83	211.68	248.78	89.53	1,055.91	-4,990.41	2,774.29	2,443.05	331.24	8.375		
14,500.00	7,224.52	7,175.52	7,224.52	214.50	248.77	89.51	1,055.91	-4,990.41	2,867.94	2,537.99	329.95	8.692		
14,600.00	7,224.21	7,175.21	7,224.21	217.33	248.76	89.50	1,055.91	-4,990.41	2,962.01	2,633.26	328.75	9.010		
14,700.00	7,223.89	7,174.89	7,223.89	220.16	248.75	89.48	1,055.91	-4,990.41	3,056.45	2,728.84	327.61	9.329		
14,800.00	7,223.58	7,174.58	7,223.58	222.98	248.74	89.46	1,055.91	-4,990.41	3,151.24	2,824.69	326.55	9.650		
14,900.00	7,223.27	7,174.27	7,223.27	225.81	248.73	89.44	1,055.91	-4,990.41	3,246.34	2,920.79	325.54	9.972		
14,987.41	7,223.00	7,174.00	7,223.00	228.28	248.72	89.43	1,055.91	-4,990.41	3,329.70	3,004.98	324.72	10.254		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	47.00	3.28	3.28	-78.12	1,076.69	-5,120.29	5,232.48				
100.00	100.00	53.00	100.00	3.28	3.41	-78.12	1,076.69	-5,120.29	5,232.27	5,225.58	6.69	781.789	
200.00	200.00	153.00	200.00	3.34	4.87	-78.12	1,076.69	-5,120.29	5,232.27	5,224.07	8.20	637.768	
300.00	300.00	253.00	300.00	3.44	7.81	-78.12	1,076.69	-5,120.29	5,232.27	5,221.02	11.25	464.930	
400.00	400.00	353.00	400.00	3.60	11.07	-78.12	1,076.69	-5,120.29	5,232.27	5,217.59	14.68	356.472	
500.00	500.00	453.00	500.00	3.81	14.45	-78.12	1,076.69	-5,120.29	5,232.27	5,214.02	18.25	286.668	
600.00	600.00	553.00	600.00	4.05	17.86	-78.12	1,076.69	-5,120.29	5,232.27	5,210.36	21.91	238.810	
700.00	699.98	652.98	699.98	4.32	21.30	-20.14	1,076.69	-5,120.29	5,230.67	5,205.05	25.62	204.170	
800.00	799.94	752.94	799.94	4.61	24.76	-20.15	1,076.69	-5,120.29	5,227.88	5,198.52	29.36	178.036	
900.00	899.89	852.89	899.89	4.92	28.22	-20.16	1,076.69	-5,120.29	5,225.10	5,191.96	33.14	157.667	
1,000.00	999.85	952.85	999.85	5.25	31.69	-20.17	1,076.69	-5,120.29	5,222.31	5,185.37	36.94	141.374	
1,100.00	1,099.80	1,052.80	1,099.80	5.60	35.16	-20.18	1,076.69	-5,120.29	5,219.53	5,178.77	40.76	128.060	
1,200.00	1,199.76	1,152.76	1,199.76	5.96	38.64	-20.20	1,076.69	-5,120.29	5,216.74	5,172.15	44.59	116.987	
1,300.00	1,299.72	1,252.72	1,299.72	6.33	42.11	-20.21	1,076.69	-5,120.29	5,213.96	5,165.52	48.44	107.640	
1,400.00	1,399.67	1,352.67	1,399.67	6.71	45.59	-20.22	1,076.69	-5,120.29	5,211.17	5,158.88	52.30	99.649	
1,500.00	1,499.63	1,452.63	1,499.63	7.10	49.08	-20.23	1,076.69	-5,120.29	5,208.39	5,152.23	56.16	92.741	
1,600.00	1,599.58	1,552.58	1,599.58	7.49	52.56	-20.24	1,076.69	-5,120.29	5,205.61	5,145.57	60.03	86.712	
1,700.00	1,699.54	1,652.54	1,699.54	7.88	56.04	-20.25	1,076.69	-5,120.29	5,202.82	5,138.91	63.91	81.407	
1,800.00	1,799.50	1,752.50	1,799.50	8.28	59.52	-20.26	1,076.69	-5,120.29	5,200.04	5,132.24	67.80	76.702	
1,900.00	1,899.45	1,852.45	1,899.45	8.69	63.01	-20.27	1,076.69	-5,120.29	5,197.25	5,125.57	71.68	72.503	
2,000.00	1,999.41	1,952.41	1,999.41	9.10	66.49	-20.29	1,076.69	-5,120.29	5,194.47	5,118.90	75.57	68.733	
2,100.00	2,099.36	2,052.36	2,099.36	9.51	69.98	-20.30	1,076.69	-5,120.29	5,191.69	5,112.22	79.47	65.329	
2,200.00	2,199.32	2,152.32	2,199.32	9.92	73.47	-20.31	1,076.69	-5,120.29	5,188.91	5,105.54	83.37	62.241	
2,300.00	2,299.28	2,252.28	2,299.28	10.34	76.95	-20.32	1,076.69	-5,120.29	5,186.12	5,098.85	87.27	59.427	
2,400.00	2,399.23	2,352.23	2,399.23	10.75	80.44	-20.33	1,076.69	-5,120.29	5,183.34	5,092.17	91.17	56.853	
2,500.00	2,499.19	2,452.19	2,499.19	11.17	83.92	-20.34	1,076.69	-5,120.29	5,180.56	5,085.48	95.08	54.489	
2,600.00	2,599.14	2,552.14	2,599.14	11.60	87.41	-20.35	1,076.69	-5,120.29	5,177.78	5,078.79	98.98	52.310	
2,700.00	2,699.10	2,652.10	2,699.10	12.02	90.90	-20.37	1,076.69	-5,120.29	5,174.99	5,072.10	102.89	50.296	
2,800.00	2,799.06	2,752.06	2,799.06	12.44	94.39	-20.38	1,076.69	-5,120.29	5,172.21	5,065.41	106.80	48.429	
2,900.00	2,899.01	2,852.01	2,899.01	12.87	97.87	-20.39	1,076.69	-5,120.29	5,169.43	5,058.72	110.71	46.693	
3,000.00	2,998.97	2,951.97	2,998.97	13.29	101.36	-20.40	1,076.69	-5,120.29	5,166.65	5,052.03	114.62	45.075	
3,100.00	3,098.92	3,051.92	3,098.92	13.72	104.85	-20.41	1,076.69	-5,120.29	5,163.87	5,045.33	118.54	43.564	
3,200.00	3,198.88	3,151.88	3,198.88	14.14	108.34	-20.42	1,076.69	-5,120.29	5,161.09	5,038.64	122.45	42.149	
3,300.00	3,298.84	3,251.84	3,298.84	14.57	111.82	-20.43	1,076.69	-5,120.29	5,158.31	5,031.94	126.36	40.821	
3,400.00	3,398.79	3,351.79	3,398.79	15.00	115.31	-20.45	1,076.69	-5,120.29	5,155.53	5,025.25	130.28	39.573	
3,500.00	3,498.75	3,451.75	3,498.75	15.43	118.80	-20.46	1,076.69	-5,120.29	5,152.75	5,018.55	134.20	38.397	
3,600.00	3,598.70	3,551.70	3,598.70	15.86	122.29	-20.47	1,076.69	-5,120.29	5,149.97	5,011.86	138.11	37.288	
3,700.00	3,698.66	3,651.66	3,698.66	16.29	125.78	-20.48	1,076.69	-5,120.29	5,147.19	5,005.16	142.03	36.240	
3,800.00	3,798.62	3,751.62	3,798.62	16.72	129.27	-20.49	1,076.69	-5,120.29	5,144.41	4,998.46	145.95	35.248	
3,900.00	3,898.57	3,851.57	3,898.57	17.15	132.75	-20.50	1,076.69	-5,120.29	5,141.63	4,991.76	149.87	34.308	
4,000.00	3,998.53	3,951.53	3,998.53	17.59	136.24	-20.52	1,076.69	-5,120.29	5,138.85	4,985.06	153.79	33.416	
4,100.00	4,098.48	4,051.48	4,098.48	18.02	139.73	-20.53	1,076.69	-5,120.29	5,136.07	4,978.37	157.71	32.567	
4,200.00	4,198.44	4,151.44	4,198.44	18.45	143.22	-20.54	1,076.69	-5,120.29	5,133.29	4,971.67	161.63	31.760	
4,300.00	4,298.40	4,251.40	4,298.40	18.88	146.71	-20.55	1,076.69	-5,120.29	5,130.51	4,964.97	165.55	30.991	
4,400.00	4,398.35	4,351.35	4,398.35	19.32	150.20	-20.56	1,076.69	-5,120.29	5,127.74	4,958.27	169.47	30.258	
4,500.00	4,498.31	4,451.31	4,498.31	19.75	153.68	-20.57	1,076.69	-5,120.29	5,124.96	4,951.57	173.39	29.558	
4,600.00	4,598.26	4,551.26	4,598.26	20.19	157.17	-20.59	1,076.69	-5,120.29	5,122.18	4,944.87	177.31	28.888	
4,700.00	4,698.22	4,651.22	4,698.22	20.62	160.66	-20.60	1,076.69	-5,120.29	5,119.40	4,938.17	181.23	28.248	
4,800.00	4,798.18	4,751.18	4,798.18	21.05	164.15	-20.61	1,076.69	-5,120.29	5,116.63	4,931.47	185.15	27.635	
4,900.00	4,898.13	4,851.13	4,898.13	21.49	167.64	-20.62	1,076.69	-5,120.29	5,113.85	4,924.77	189.08	27.047	
5,000.00	4,998.09	4,951.09	4,998.09	21.92	171.13	-20.63	1,076.69	-5,120.29	5,111.07	4,918.07	193.00	26.483	
5,100.00	5,098.04	5,051.04	5,098.04	22.36	174.62	-20.64	1,076.69	-5,120.29	5,108.30	4,911.37	196.92	25.941	

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,151.00	5,198.00	22.79	178.11	-20.66	1,076.69	-5,120.29	5,105.52	4,904.68	200.84	25.420		
5,300.00	5,297.96	5,250.96	5,297.96	23.23	181.60	-20.67	1,076.69	-5,120.29	5,102.74	4,897.98	204.77	24.920		
5,400.00	5,397.91	5,350.91	5,397.91	23.67	185.08	-20.68	1,076.69	-5,120.29	5,099.97	4,891.28	208.69	24.438		
5,500.00	5,497.87	5,450.87	5,497.87	24.10	188.57	-20.69	1,076.69	-5,120.29	5,097.19	4,884.58	212.61	23.974		
5,600.00	5,597.82	5,550.82	5,597.82	24.54	192.06	-20.70	1,076.69	-5,120.29	5,094.41	4,877.88	216.54	23.527		
5,700.00	5,697.78	5,650.78	5,697.78	24.97	195.55	-20.71	1,076.69	-5,120.29	5,091.64	4,871.18	220.46	23.095		
5,800.00	5,797.74	5,750.74	5,797.74	25.41	199.04	-20.73	1,076.69	-5,120.29	5,088.86	4,864.48	224.38	22.679		
5,900.00	5,897.69	5,850.69	5,897.69	25.85	202.53	-20.74	1,076.69	-5,120.29	5,086.09	4,857.78	228.31	22.277		
6,000.00	5,997.65	5,950.65	5,997.65	26.28	206.02	-20.75	1,076.69	-5,120.29	5,083.31	4,851.08	232.23	21.889		
6,100.00	6,097.60	6,050.60	6,097.60	26.72	209.51	-20.76	1,076.69	-5,120.29	5,080.54	4,844.38	236.16	21.513		
6,200.00	6,197.56	6,150.56	6,197.56	27.16	213.00	-20.77	1,076.69	-5,120.29	5,077.77	4,837.68	240.08	21.150		
6,300.00	6,297.52	6,250.52	6,297.52	27.59	216.49	-20.79	1,076.69	-5,120.29	5,074.99	4,830.98	244.01	20.799		
6,400.00	6,397.47	6,350.47	6,397.47	28.03	219.97	-20.80	1,076.69	-5,120.29	5,072.22	4,824.29	247.93	20.458		
6,500.00	6,497.43	6,450.43	6,497.43	28.47	223.46	-20.81	1,076.69	-5,120.29	5,069.44	4,817.59	251.86	20.128		
6,600.00	6,597.38	6,550.38	6,597.38	28.90	226.95	-20.82	1,076.69	-5,120.29	5,066.67	4,810.89	255.78	19.809		
6,700.00	6,697.08	6,650.08	6,697.08	29.34	230.43	5.14	1,076.69	-5,120.29	5,059.92	4,800.22	259.70	19.484		
6,800.00	6,794.63	6,747.63	6,794.63	29.79	233.84	9.04	1,076.69	-5,120.29	5,038.58	4,775.04	263.54	19.119		
6,900.00	6,887.62	6,840.62	6,887.62	30.24	237.08	10.92	1,076.69	-5,120.29	5,002.56	4,735.37	267.19	18.723		
7,000.00	6,973.77	6,926.77	6,973.77	30.70	240.09	12.76	1,076.69	-5,120.29	4,952.78	4,682.20	270.57	18.305		
7,100.00	7,050.94	7,003.94	7,050.94	31.20	242.78	15.12	1,076.69	-5,120.29	4,890.46	4,616.87	273.60	17.875		
7,200.00	7,117.24	7,070.24	7,117.24	31.77	245.10	18.56	1,076.69	-5,120.29	4,817.17	4,540.98	276.19	17.442		
7,300.00	7,171.03	7,124.03	7,171.03	32.46	246.98	24.03	1,076.69	-5,120.29	4,734.73	4,456.45	278.29	17.014		
7,400.00	7,211.00	7,164.00	7,211.00	33.29	248.37	33.60	1,076.69	-5,120.29	4,645.20	4,365.35	279.85	16.599		
7,500.00	7,236.16	7,189.16	7,236.16	34.29	249.25	52.08	1,076.69	-5,120.29	4,550.80	4,269.95	280.85	16.204		
7,600.00	7,245.89	7,201.12	7,245.89	35.43	249.67	85.34	1,076.69	-5,120.29	4,453.88	4,172.52	281.36	15.830		
7,700.00	7,245.73	7,201.27	7,245.73	36.72	249.67	90.75	1,076.69	-5,120.29	4,356.55	4,075.09	281.46	15.479		
7,800.00	7,245.42	7,201.58	7,245.42	38.18	249.68	90.73	1,076.69	-5,120.29	4,259.34	3,977.76	281.58	15.127		
7,900.00	7,245.10	7,201.90	7,245.10	39.80	249.69	90.71	1,076.69	-5,120.29	4,162.26	3,880.54	281.72	14.774		
8,000.00	7,244.79	7,202.21	7,244.79	41.54	249.71	90.70	1,076.69	-5,120.29	4,065.33	3,783.43	281.90	14.421		
8,100.00	7,244.48	7,202.52	7,244.48	43.41	249.72	90.68	1,076.69	-5,120.29	3,968.55	3,686.44	282.11	14.068		
8,200.00	7,244.17	7,202.83	7,244.17	45.38	249.73	90.66	1,076.69	-5,120.29	3,871.93	3,589.58	282.35	13.713		
8,300.00	7,243.86	7,203.14	7,243.86	47.44	249.74	90.64	1,076.69	-5,120.29	3,775.49	3,492.86	282.63	13.359		
8,400.00	7,243.55	7,203.46	7,243.55	49.58	249.75	90.63	1,076.69	-5,120.29	3,679.24	3,396.29	282.95	13.003		
8,500.00	7,243.23	7,203.77	7,243.23	51.78	249.76	90.61	1,076.69	-5,120.29	3,583.19	3,299.87	283.32	12.647		
8,600.00	7,242.92	7,204.08	7,242.92	54.05	249.77	90.59	1,076.69	-5,120.29	3,487.37	3,203.62	283.75	12.290		
8,700.00	7,242.61	7,204.39	7,242.61	56.37	249.78	90.57	1,076.69	-5,120.29	3,391.79	3,107.56	284.23	11.933		
8,800.00	7,242.30	7,204.70	7,242.30	58.74	249.79	90.55	1,076.69	-5,120.29	3,296.46	3,011.69	284.78	11.576		
8,900.00	7,241.99	7,205.01	7,241.99	61.16	249.80	90.54	1,076.69	-5,120.29	3,201.43	2,916.03	285.40	11.217		
9,000.00	7,241.67	7,205.33	7,241.67	63.61	249.81	90.52	1,076.69	-5,120.29	3,106.70	2,820.61	286.10	10.859		
9,100.00	7,241.36	7,205.64	7,241.36	66.09	249.83	90.50	1,076.69	-5,120.29	3,012.32	2,725.44	286.88	10.500		
9,200.00	7,241.05	7,205.95	7,241.05	68.60	249.84	90.48	1,076.69	-5,120.29	2,918.31	2,630.54	287.77	10.141		
9,300.00	7,240.74	7,206.26	7,240.74	71.13	249.85	90.47	1,076.69	-5,120.29	2,824.72	2,535.95	288.77	9.782		
9,400.00	7,240.43	7,206.57	7,240.43	73.70	249.86	90.45	1,076.69	-5,120.29	2,731.57	2,441.69	289.88	9.423		
9,500.00	7,240.11	7,206.89	7,240.11	76.28	249.87	90.43	1,076.69	-5,120.29	2,638.93	2,347.81	291.12	9.065		
9,600.00	7,239.80	7,207.20	7,239.80	78.88	249.88	90.41	1,076.69	-5,120.29	2,546.85	2,254.33	292.51	8.707		
9,700.00	7,239.49	7,207.51	7,239.49	81.50	249.89	90.40	1,076.69	-5,120.29	2,455.38	2,161.32	294.06	8.350		
9,800.00	7,239.18	7,207.82	7,239.18	84.13	249.90	90.38	1,076.69	-5,120.29	2,364.60	2,068.82	295.79	7.994		
9,900.00	7,238.87	7,208.13	7,238.87	86.78	249.91	90.36	1,076.69	-5,120.29	2,274.60	1,976.90	297.71	7.640		
10,000.00	7,238.55	7,208.45	7,238.55	89.44	249.92	90.34	1,076.69	-5,120.29	2,185.47	1,885.63	299.84	7.289		
10,100.00	7,238.24	7,208.76	7,238.24	92.11	249.93	90.32	1,076.69	-5,120.29	2,097.32	1,795.12	302.20	6.940		
10,200.00	7,237.93	7,209.07	7,237.93	94.80	249.95	90.31	1,076.69	-5,120.29	2,010.28	1,705.45	304.83	6.595		
10,300.00	7,237.62	7,209.38	7,237.62	97.49	249.96	90.29	1,076.69	-5,120.29	1,924.50	1,616.76	307.73	6.254		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,209.69	7,237.31	100.19	249.97	90.27	1,076.69	-5,120.29	1,840.15	1,529.21	310.94	5.918		
10,500.00	7,236.99	7,189.99	7,236.99	102.90	249.28	90.25	1,076.69	-5,120.29	1,757.45	1,443.66	313.79	5.601		
10,600.00	7,236.68	7,189.68	7,236.68	105.62	249.27	90.24	1,076.69	-5,120.29	1,676.63	1,358.95	317.67	5.278		
10,700.00	7,236.37	7,189.37	7,236.37	108.35	249.26	90.22	1,076.69	-5,120.29	1,597.98	1,276.04	321.94	4.964		
10,800.00	7,236.06	7,189.06	7,236.06	111.08	249.25	90.20	1,076.69	-5,120.29	1,521.85	1,195.23	326.62	4.659		
10,900.00	7,235.75	7,188.75	7,235.75	113.82	249.24	90.18	1,076.69	-5,120.29	1,448.61	1,116.90	331.71	4.367		
11,000.00	7,235.44	7,188.44	7,235.44	116.56	249.22	90.17	1,076.69	-5,120.29	1,378.75	1,041.52	337.23	4.088		
11,100.00	7,235.12	7,188.12	7,235.12	119.31	249.21	90.15	1,076.69	-5,120.29	1,312.79	969.64	343.15	3.826		
11,200.00	7,234.81	7,187.81	7,234.81	122.07	249.20	90.13	1,076.69	-5,120.29	1,251.35	901.92	349.43	3.581		
11,300.00	7,234.50	7,187.50	7,234.50	124.83	249.19	90.11	1,076.69	-5,120.29	1,195.13	839.15	355.98	3.357		
11,400.00	7,234.19	7,187.19	7,234.19	127.59	249.18	90.10	1,076.69	-5,120.29	1,144.90	782.22	362.68	3.157		
11,500.00	7,233.88	7,186.88	7,233.88	130.36	249.17	90.08	1,076.69	-5,120.29	1,101.48	732.14	369.35	2.982		
11,600.00	7,233.56	7,186.56	7,233.56	133.13	249.16	90.06	1,076.69	-5,120.29	1,065.71	689.97	375.73	2.836		
11,700.00	7,233.25	7,186.25	7,233.25	135.91	249.15	90.04	1,076.69	-5,120.29	1,038.36	656.79	381.57	2.721		
11,800.00	7,232.94	7,185.94	7,232.94	138.68	249.14	90.02	1,076.69	-5,120.29	1,020.13	633.55	386.57	2.639		
11,900.00	7,232.63	7,185.63	7,232.63	141.47	249.13	90.01	1,076.69	-5,120.29	1,011.49	621.01	390.49	2.590		
11,937.69	7,232.51	7,185.51	7,232.51	142.52	249.12	90.00	1,076.69	-5,120.29	1,010.79	619.15	391.64	2.581 CC, ES		
12,000.00	7,232.32	7,185.32	7,232.32	144.25	249.12	89.99	1,076.69	-5,120.29	1,012.71	619.58	393.13	2.576 SF		
12,100.00	7,232.00	7,185.00	7,232.00	147.04	249.11	89.97	1,076.69	-5,120.29	1,023.74	629.30	394.44	2.595		
12,200.00	7,231.69	7,184.69	7,231.69	149.83	249.09	89.95	1,076.69	-5,120.29	1,044.27	649.82	394.46	2.647		
12,300.00	7,231.38	7,184.38	7,231.38	152.62	249.08	89.94	1,076.69	-5,120.29	1,073.76	680.44	393.32	2.730		
12,400.00	7,231.07	7,184.07	7,231.07	155.42	249.07	89.92	1,076.69	-5,120.29	1,111.50	720.25	391.25	2.841		
12,500.00	7,230.76	7,183.76	7,230.76	158.22	249.06	89.90	1,076.69	-5,120.29	1,156.67	768.22	388.46	2.978		
12,600.00	7,230.44	7,183.44	7,230.44	161.01	249.05	89.88	1,076.69	-5,120.29	1,208.45	823.27	385.18	3.137		
12,700.00	7,230.13	7,183.13	7,230.13	163.82	249.04	89.87	1,076.69	-5,120.29	1,266.02	884.42	381.61	3.318		
12,800.00	7,229.82	7,182.82	7,229.82	166.62	249.03	89.85	1,076.69	-5,120.29	1,328.64	950.74	377.89	3.516		
12,900.00	7,229.51	7,182.51	7,229.51	169.43	249.02	89.83	1,076.69	-5,120.29	1,395.61	1,021.46	374.16	3.730		
13,000.00	7,229.20	7,182.20	7,229.20	172.23	249.01	89.81	1,076.69	-5,120.29	1,466.36	1,095.87	370.49	3.958		
13,100.00	7,228.88	7,181.88	7,228.88	175.04	249.00	89.79	1,076.69	-5,120.29	1,540.34	1,173.41	366.93	4.198		
13,200.00	7,228.57	7,181.57	7,228.57	177.85	248.99	89.78	1,076.69	-5,120.29	1,617.13	1,253.60	363.53	4.448		
13,300.00	7,228.26	7,181.26	7,228.26	180.66	248.97	89.76	1,076.69	-5,120.29	1,696.34	1,336.03	360.31	4.708		
13,400.00	7,227.95	7,180.95	7,227.95	183.48	248.96	89.74	1,076.69	-5,120.29	1,777.65	1,420.38	357.27	4.976		
13,500.00	7,227.64	7,180.64	7,227.64	186.29	248.95	89.72	1,076.69	-5,120.29	1,860.78	1,506.37	354.41	5.250		
13,600.00	7,227.33	7,180.33	7,227.33	189.11	248.94	89.71	1,076.69	-5,120.29	1,945.50	1,593.76	351.73	5.531		
13,700.00	7,227.01	7,180.01	7,227.01	191.92	248.93	89.69	1,076.69	-5,120.29	2,031.61	1,682.37	349.23	5.817		
13,800.00	7,226.70	7,179.70	7,226.70	194.74	248.92	89.67	1,076.69	-5,120.29	2,118.93	1,772.04	346.89	6.108		
13,900.00	7,226.39	7,179.39	7,226.39	197.56	248.91	89.65	1,076.69	-5,120.29	2,207.34	1,862.63	344.70	6.404		
14,000.00	7,226.08	7,179.08	7,226.08	200.38	248.90	89.64	1,076.69	-5,120.29	2,296.69	1,954.03	342.66	6.702		
14,100.00	7,225.77	7,178.77	7,225.77	203.21	248.89	89.62	1,076.69	-5,120.29	2,386.89	2,046.14	340.75	7.005		
14,200.00	7,225.45	7,178.45	7,225.45	206.03	248.88	89.60	1,076.69	-5,120.29	2,477.84	2,138.87	338.97	7.310		
14,300.00	7,225.14	7,178.14	7,225.14	208.85	248.87	89.58	1,076.69	-5,120.29	2,569.47	2,232.17	337.30	7.618		
14,400.00	7,224.83	7,177.83	7,224.83	211.68	248.85	89.56	1,076.69	-5,120.29	2,661.70	2,325.96	335.74	7.928		
14,500.00	7,224.52	7,177.52	7,224.52	214.50	248.84	89.55	1,076.69	-5,120.29	2,754.47	2,420.19	334.28	8.240		
14,600.00	7,224.21	7,177.21	7,224.21	217.33	248.83	89.53	1,076.69	-5,120.29	2,847.73	2,514.82	332.90	8.554		
14,700.00	7,223.89	7,176.89	7,223.89	220.16	248.82	89.51	1,076.69	-5,120.29	2,941.43	2,609.82	331.61	8.870		
14,800.00	7,223.58	7,176.58	7,223.58	222.98	248.81	89.49	1,076.69	-5,120.29	3,035.53	2,705.13	330.40	9.187		
14,900.00	7,223.27	7,176.27	7,223.27	225.81	248.80	89.48	1,076.69	-5,120.29	3,130.00	2,800.74	329.26	9.506		
14,987.41	7,223.00	7,176.00	7,223.00	228.28	248.79	89.46	1,076.69	-5,120.29	3,212.85	2,884.53	328.32	9.786		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	54.00	3.28	3.28	-94.59	-395.14	-4,917.55	4,933.70					
100.00	100.00	46.00	100.00	3.28	3.38	-94.59	-395.14	-4,917.55	4,933.40	4,926.74	6.66	740.576		
200.00	200.00	146.00	200.00	3.34	4.69	-94.59	-395.14	-4,917.55	4,933.40	4,925.38	8.03	614.648		
300.00	300.00	246.00	300.00	3.44	7.59	-94.59	-395.14	-4,917.55	4,933.40	4,922.37	11.03	447.157		
400.00	400.00	346.00	400.00	3.60	10.84	-94.59	-395.14	-4,917.55	4,933.40	4,918.96	14.44	341.535		
500.00	500.00	446.00	500.00	3.81	14.21	-94.59	-395.14	-4,917.55	4,933.40	4,915.39	18.01	273.862		
600.00	600.00	546.00	600.00	4.05	17.62	-94.59	-395.14	-4,917.55	4,933.40	4,911.73	21.67	227.665		
700.00	699.98	645.98	699.98	4.32	21.06	-36.62	-395.14	-4,917.55	4,932.03	4,906.66	25.38	194.347		
800.00	799.94	745.94	799.94	4.61	24.52	-36.64	-395.14	-4,917.55	4,929.65	4,900.53	29.12	169.277		
900.00	899.89	845.89	899.89	4.92	27.98	-36.66	-395.14	-4,917.55	4,927.27	4,894.37	32.90	149.779		
1,000.00	999.85	945.85	999.85	5.25	31.45	-36.68	-395.14	-4,917.55	4,924.89	4,888.19	36.70	134.207		
1,100.00	1,099.80	1,045.80	1,099.80	5.60	34.92	-36.70	-395.14	-4,917.55	4,922.51	4,882.00	40.51	121.499		
1,200.00	1,199.76	1,145.76	1,199.76	5.96	38.39	-36.72	-395.14	-4,917.55	4,920.13	4,875.78	44.35	110.943		
1,300.00	1,299.72	1,245.72	1,299.72	6.33	41.87	-36.74	-395.14	-4,917.55	4,917.75	4,869.56	48.19	102.040		
1,400.00	1,399.67	1,345.67	1,399.67	6.71	45.35	-36.76	-395.14	-4,917.55	4,915.38	4,863.33	52.05	94.434		
1,500.00	1,499.63	1,445.63	1,499.63	7.10	48.83	-36.78	-395.14	-4,917.55	4,913.00	4,857.08	55.92	87.864		
1,600.00	1,599.58	1,545.58	1,599.58	7.49	52.31	-36.80	-395.14	-4,917.55	4,910.62	4,850.84	59.79	82.134		
1,700.00	1,699.54	1,645.54	1,699.54	7.88	55.80	-36.82	-395.14	-4,917.55	4,908.25	4,844.58	63.67	77.093		
1,800.00	1,799.50	1,745.50	1,799.50	8.28	59.28	-36.85	-395.14	-4,917.55	4,905.87	4,838.32	67.55	72.626		
1,900.00	1,899.45	1,845.45	1,899.45	8.69	62.77	-36.87	-395.14	-4,917.55	4,903.50	4,832.06	71.44	68.640		
2,000.00	1,999.41	1,945.41	1,999.41	9.10	66.25	-36.89	-395.14	-4,917.55	4,901.12	4,825.80	75.33	65.063		
2,100.00	2,099.36	2,045.36	2,099.36	9.51	69.74	-36.91	-395.14	-4,917.55	4,898.75	4,819.53	79.22	61.834		
2,200.00	2,199.32	2,145.32	2,199.32	9.92	73.22	-36.93	-395.14	-4,917.55	4,896.38	4,813.26	83.12	58.906		
2,300.00	2,299.28	2,245.28	2,299.28	10.34	76.71	-36.95	-395.14	-4,917.55	4,894.01	4,806.99	87.02	56.239		
2,400.00	2,399.23	2,345.23	2,399.23	10.75	80.19	-36.97	-395.14	-4,917.55	4,891.64	4,800.71	90.92	53.799		
2,500.00	2,499.19	2,445.19	2,499.19	11.17	83.68	-36.99	-395.14	-4,917.55	4,889.27	4,794.44	94.83	51.559		
2,600.00	2,599.14	2,545.14	2,599.14	11.60	87.17	-37.01	-395.14	-4,917.55	4,886.90	4,788.16	98.74	49.495		
2,700.00	2,699.10	2,645.10	2,699.10	12.02	90.65	-37.03	-395.14	-4,917.55	4,884.53	4,781.88	102.64	47.587		
2,800.00	2,799.06	2,745.06	2,799.06	12.44	94.14	-37.05	-395.14	-4,917.55	4,882.16	4,775.61	106.55	45.819		
2,900.00	2,899.01	2,845.01	2,899.01	12.87	97.63	-37.07	-395.14	-4,917.55	4,879.79	4,769.33	110.46	44.176		
3,000.00	2,998.97	2,944.97	2,998.97	13.29	101.12	-37.10	-395.14	-4,917.55	4,877.42	4,763.05	114.37	42.644		
3,100.00	3,098.92	3,044.92	3,098.92	13.72	104.60	-37.12	-395.14	-4,917.55	4,875.06	4,756.77	118.29	41.214		
3,200.00	3,198.88	3,144.88	3,198.88	14.14	108.09	-37.14	-395.14	-4,917.55	4,872.69	4,750.49	122.20	39.874		
3,300.00	3,298.84	3,244.84	3,298.84	14.57	111.58	-37.16	-395.14	-4,917.55	4,870.32	4,744.21	126.12	38.618		
3,400.00	3,398.79	3,344.79	3,398.79	15.00	115.07	-37.18	-395.14	-4,917.55	4,867.96	4,737.93	130.03	37.437		
3,500.00	3,498.75	3,444.75	3,498.75	15.43	118.56	-37.20	-395.14	-4,917.55	4,865.60	4,731.65	133.95	36.325		
3,600.00	3,598.70	3,544.70	3,598.70	15.86	122.04	-37.22	-395.14	-4,917.55	4,863.23	4,725.37	137.86	35.276		
3,700.00	3,698.66	3,644.66	3,698.66	16.29	125.53	-37.24	-395.14	-4,917.55	4,860.87	4,719.09	141.78	34.284		
3,800.00	3,798.62	3,744.62	3,798.62	16.72	129.02	-37.26	-395.14	-4,917.55	4,858.51	4,712.81	145.70	33.346		
3,900.00	3,898.57	3,844.57	3,898.57	17.15	132.51	-37.29	-395.14	-4,917.55	4,856.15	4,706.53	149.62	32.457		
4,000.00	3,998.53	3,944.53	3,998.53	17.59	136.00	-37.31	-395.14	-4,917.55	4,853.79	4,700.25	153.54	31.613		
4,100.00	4,098.48	4,044.48	4,098.48	18.02	139.49	-37.33	-395.14	-4,917.55	4,851.43	4,693.97	157.46	30.811		
4,200.00	4,198.44	4,144.44	4,198.44	18.45	142.97	-37.35	-395.14	-4,917.55	4,849.07	4,687.69	161.38	30.048		
4,300.00	4,298.40	4,244.40	4,298.40	18.88	146.46	-37.37	-395.14	-4,917.55	4,846.71	4,681.41	165.30	29.321		
4,400.00	4,398.35	4,344.35	4,398.35	19.32	149.95	-37.39	-395.14	-4,917.55	4,844.35	4,675.13	169.22	28.628		
4,500.00	4,498.31	4,444.31	4,498.31	19.75	153.44	-37.41	-395.14	-4,917.55	4,841.99	4,668.86	173.14	27.966		
4,600.00	4,598.26	4,544.26	4,598.26	20.19	156.93	-37.43	-395.14	-4,917.55	4,839.64	4,662.58	177.06	27.334		
4,700.00	4,698.22	4,644.22	4,698.22	20.62	160.42	-37.46	-395.14	-4,917.55	4,837.28	4,656.30	180.98	26.728		
4,800.00	4,798.18	4,744.18	4,798.18	21.05	163.91	-37.48	-395.14	-4,917.55	4,834.93	4,650.02	184.90	26.149		
4,900.00	4,898.13	4,844.13	4,898.13	21.49	167.40	-37.50	-395.14	-4,917.55	4,832.57	4,643.75	188.82	25.593		
5,000.00	4,998.09	4,944.09	4,998.09	21.92	170.88	-37.52	-395.14	-4,917.55	4,830.22	4,637.47	192.75	25.060		
5,100.00	5,098.04	5,044.04	5,098.04	22.36	174.37	-37.54	-395.14	-4,917.55	4,827.86	4,631.20	196.67	24.548		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,144.00	5,198.00	22.79	177.86	-37.56	-395.14	-4,917.55	4,825.51	4,624.92	200.59	24.056		
5,300.00	5,297.96	5,243.96	5,297.96	23.23	181.35	-37.58	-395.14	-4,917.55	4,823.16	4,618.65	204.51	23.584		
5,400.00	5,397.91	5,343.91	5,397.91	23.67	184.84	-37.61	-395.14	-4,917.55	4,820.81	4,612.37	208.44	23.128		
5,500.00	5,497.87	5,443.87	5,497.87	24.10	188.33	-37.63	-395.14	-4,917.55	4,818.46	4,606.10	212.36	22.690		
5,600.00	5,597.82	5,543.82	5,597.82	24.54	191.82	-37.65	-395.14	-4,917.55	4,816.11	4,599.82	216.28	22.268		
5,700.00	5,697.78	5,643.78	5,697.78	24.97	195.31	-37.67	-395.14	-4,917.55	4,813.76	4,593.55	220.21	21.860		
5,800.00	5,797.74	5,743.74	5,797.74	25.41	198.80	-37.69	-395.14	-4,917.55	4,811.41	4,587.28	224.13	21.467		
5,900.00	5,897.69	5,843.69	5,897.69	25.85	202.28	-37.71	-395.14	-4,917.55	4,809.06	4,581.01	228.06	21.087		
6,000.00	5,997.65	5,943.65	5,997.65	26.28	205.77	-37.74	-395.14	-4,917.55	4,806.71	4,574.74	231.98	20.720		
6,100.00	6,097.60	6,043.60	6,097.60	26.72	209.26	-37.76	-395.14	-4,917.55	4,804.37	4,568.46	235.90	20.366		
6,200.00	6,197.56	6,143.56	6,197.56	27.16	212.75	-37.78	-395.14	-4,917.55	4,802.02	4,562.19	239.83	20.023		
6,300.00	6,297.52	6,243.52	6,297.52	27.59	216.24	-37.80	-395.14	-4,917.55	4,799.68	4,555.93	243.75	19.691		
6,400.00	6,397.47	6,343.47	6,397.47	28.03	219.73	-37.82	-395.14	-4,917.55	4,797.33	4,549.66	247.68	19.369		
6,500.00	6,497.43	6,443.43	6,497.43	28.47	223.22	-37.84	-395.14	-4,917.55	4,794.99	4,543.39	251.60	19.058		
6,600.00	6,597.38	6,543.38	6,597.38	28.90	226.71	-37.87	-395.14	-4,917.55	4,792.65	4,537.12	255.53	18.756		
6,700.00	6,697.08	6,643.08	6,697.08	29.34	230.19	-12.09	-395.14	-4,917.55	4,786.26	4,526.82	259.44	18.448		
6,800.00	6,794.63	6,740.63	6,794.63	29.79	233.59	-8.86	-395.14	-4,917.55	4,765.04	4,501.76	263.28	18.099		
6,900.00	6,887.62	6,833.62	6,887.62	30.24	236.84	-8.24	-395.14	-4,917.55	4,728.88	4,461.94	266.93	17.716		
7,000.00	6,973.77	6,919.77	6,973.77	30.70	239.85	-8.43	-395.14	-4,917.55	4,678.68	4,408.37	270.31	17.309		
7,100.00	7,050.94	7,003.06	7,050.94	31.20	242.75	-9.21	-395.14	-4,917.55	4,615.69	4,342.15	273.54	16.874		
7,200.00	7,117.24	7,063.24	7,117.24	31.77	244.85	-10.72	-395.14	-4,917.55	4,541.46	4,265.55	275.91	16.460		
7,300.00	7,171.03	7,117.03	7,171.03	32.46	246.73	-13.46	-395.14	-4,917.55	4,457.82	4,179.83	277.99	16.036		
7,400.00	7,211.00	7,157.00	7,211.00	33.29	248.13	-18.91	-395.14	-4,917.55	4,366.84	4,087.30	279.53	15.622		
7,500.00	7,236.16	7,182.16	7,236.16	34.29	249.01	-32.56	-395.14	-4,917.55	4,270.76	3,990.25	280.51	15.225		
7,600.00	7,245.89	7,208.12	7,245.89	35.43	249.91	-80.37	-395.14	-4,917.55	4,171.95	3,890.49	281.46	14.822		
7,700.00	7,245.73	7,208.27	7,245.73	36.72	249.92	-91.56	-395.14	-4,917.55	4,072.58	3,791.08	281.51	14.467		
7,800.00	7,245.42	7,208.58	7,245.42	38.18	249.93	-91.52	-395.14	-4,917.55	3,973.25	3,691.69	281.56	14.112		
7,900.00	7,245.10	7,208.90	7,245.10	39.80	249.94	-91.49	-395.14	-4,917.55	3,873.95	3,592.33	281.62	13.756		
8,000.00	7,244.79	7,209.21	7,244.79	41.54	249.95	-91.45	-395.14	-4,917.55	3,774.68	3,492.99	281.69	13.400		
8,100.00	7,244.48	7,209.52	7,244.48	43.41	249.96	-91.41	-395.14	-4,917.55	3,675.45	3,393.69	281.77	13.044		
8,200.00	7,244.17	7,209.83	7,244.17	45.38	249.97	-91.37	-395.14	-4,917.55	3,576.27	3,294.41	281.86	12.688		
8,300.00	7,243.86	7,189.86	7,243.86	47.44	249.27	-91.33	-395.14	-4,917.55	3,477.14	3,195.88	281.25	12.363		
8,400.00	7,243.55	7,189.55	7,243.55	49.58	249.26	-91.29	-395.14	-4,917.55	3,378.05	3,096.71	281.35	12.007		
8,500.00	7,243.23	7,189.23	7,243.23	51.78	249.25	-91.25	-395.14	-4,917.55	3,279.02	2,997.57	281.46	11.650		
8,600.00	7,242.92	7,188.92	7,242.92	54.05	249.24	-91.22	-395.14	-4,917.55	3,180.06	2,898.47	281.58	11.294		
8,700.00	7,242.61	7,188.61	7,242.61	56.37	249.23	-91.18	-395.14	-4,917.55	3,081.15	2,799.42	281.73	10.937		
8,800.00	7,242.30	7,188.30	7,242.30	58.74	249.22	-91.14	-395.14	-4,917.55	2,982.32	2,700.43	281.90	10.579		
8,900.00	7,241.99	7,187.99	7,241.99	61.16	249.21	-91.10	-395.14	-4,917.55	2,883.58	2,601.48	282.09	10.222		
9,000.00	7,241.67	7,187.67	7,241.67	63.61	249.20	-91.06	-395.14	-4,917.55	2,784.92	2,502.60	282.32	9.864		
9,100.00	7,241.36	7,187.36	7,241.36	66.09	249.19	-91.02	-395.14	-4,917.55	2,686.36	2,403.78	282.58	9.507		
9,200.00	7,241.05	7,187.05	7,241.05	68.60	249.18	-90.98	-395.14	-4,917.55	2,587.91	2,305.03	282.88	9.148		
9,300.00	7,240.74	7,186.74	7,240.74	71.13	249.17	-90.95	-395.14	-4,917.55	2,489.59	2,206.36	283.23	8.790		
9,400.00	7,240.43	7,186.43	7,240.43	73.70	249.15	-90.91	-395.14	-4,917.55	2,391.40	2,107.77	283.63	8.432		
9,500.00	7,240.11	7,186.11	7,240.11	76.28	249.14	-90.87	-395.14	-4,917.55	2,293.37	2,009.28	284.09	8.073		
9,600.00	7,239.80	7,185.80	7,239.80	78.88	249.13	-90.83	-395.14	-4,917.55	2,195.52	1,910.89	284.62	7.714		
9,700.00	7,239.49	7,185.49	7,239.49	81.50	249.12	-90.79	-395.14	-4,917.55	2,097.87	1,812.62	285.25	7.355		
9,800.00	7,239.18	7,185.18	7,239.18	84.13	249.11	-90.75	-395.14	-4,917.55	2,000.45	1,714.48	285.97	6.995		
9,900.00	7,238.87	7,184.87	7,238.87	86.78	249.10	-90.71	-395.14	-4,917.55	1,903.30	1,616.48	286.82	6.636		
10,000.00	7,238.55	7,184.55	7,238.55	89.44	249.09	-90.67	-395.14	-4,917.55	1,806.46	1,518.66	287.81	6.277		
10,100.00	7,238.24	7,184.24	7,238.24	92.11	249.08	-90.64	-395.14	-4,917.55	1,709.99	1,421.02	288.97	5.918		
10,200.00	7,237.93	7,183.93	7,237.93	94.80	249.07	-90.60	-395.14	-4,917.55	1,613.95	1,323.61	290.34	5.559		
10,300.00	7,237.62	7,183.62	7,237.62	97.49	249.06	-90.56	-395.14	-4,917.55	1,518.41	1,226.46	291.95	5.201		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	7,183.31	7,237.31	100.19	249.05	-90.52	-395.14	-4,917.55	1,423.49	1,129.62	293.87	4.844		
10,500.00	7,236.99	7,182.99	7,236.99	102.90	249.03	-90.48	-395.14	-4,917.55	1,329.32	1,033.16	296.15	4.489		
10,600.00	7,236.68	7,182.68	7,236.68	105.62	249.02	-90.44	-395.14	-4,917.55	1,236.06	937.18	298.88	4.136		
10,700.00	7,236.37	7,182.37	7,236.37	108.35	249.01	-90.40	-395.14	-4,917.55	1,143.93	841.79	302.14	3.786		
10,800.00	7,236.06	7,182.06	7,236.06	111.08	249.00	-90.37	-395.14	-4,917.55	1,053.25	747.17	306.08	3.441		
10,900.00	7,235.75	7,181.75	7,235.75	113.82	248.99	-90.33	-395.14	-4,917.55	964.41	653.57	310.84	3.103		
11,000.00	7,235.44	7,181.44	7,235.44	116.56	248.98	-90.29	-395.14	-4,917.55	877.97	561.38	316.60	2.773		
11,100.00	7,235.12	7,181.12	7,235.12	119.31	248.97	-90.25	-395.14	-4,917.55	794.73	471.16	323.56	2.456		
11,200.00	7,234.81	7,180.81	7,234.81	122.07	248.96	-90.21	-395.14	-4,917.55	715.78	383.84	331.94	2.156		
11,300.00	7,234.50	7,180.50	7,234.50	124.83	248.95	-90.17	-395.14	-4,917.55	642.72	300.87	341.85	1.880		
11,400.00	7,234.19	7,180.19	7,234.19	127.59	248.94	-90.13	-395.14	-4,917.55	577.79	224.63	353.16	1.636		
11,500.00	7,233.88	7,179.88	7,233.88	130.36	248.93	-90.10	-395.14	-4,917.55	524.02	158.82	365.20	1.435 Level 3		
11,600.00	7,233.56	7,179.56	7,233.56	133.13	248.92	-90.06	-395.14	-4,917.55	485.12	108.77	376.35	1.289 Level 3		
11,700.00	7,233.25	7,179.25	7,233.25	135.91	248.90	-90.02	-395.14	-4,917.55	464.86	80.64	384.21	1.210 Level 2		
11,746.25	7,233.11	7,179.11	7,233.11	137.19	248.90	-90.00	-395.14	-4,917.55	462.55	76.46	386.09	1.198 Level 2, CC, ES, SF		
11,800.00	7,232.94	7,178.94	7,232.94	138.68	248.89	-89.98	-395.14	-4,917.55	465.66	79.01	386.66	1.204 Level 2		
11,900.00	7,232.63	7,178.63	7,232.63	141.47	248.88	-89.94	-395.14	-4,917.55	487.44	104.03	383.40	1.271 Level 3		
12,000.00	7,232.32	7,178.32	7,232.32	144.25	248.87	-89.90	-395.14	-4,917.55	527.58	151.44	376.14	1.403 Level 3		
12,100.00	7,232.00	7,178.00	7,232.00	147.04	248.86	-89.86	-395.14	-4,917.55	582.32	215.18	367.13	1.586		
12,200.00	7,231.69	7,177.69	7,231.69	149.83	248.85	-89.82	-395.14	-4,917.55	647.95	289.94	358.02	1.810		
12,300.00	7,231.38	7,177.38	7,231.38	152.62	248.84	-89.79	-395.14	-4,917.55	721.52	371.88	349.64	2.064		
12,400.00	7,231.07	7,177.07	7,231.07	155.42	248.83	-89.75	-395.14	-4,917.55	800.84	458.55	342.29	2.340		
12,500.00	7,230.76	7,176.76	7,230.76	158.22	248.82	-89.71	-395.14	-4,917.55	884.36	548.39	335.97	2.632		
12,600.00	7,230.44	7,176.44	7,230.44	161.01	248.81	-89.67	-395.14	-4,917.55	971.00	640.41	330.59	2.937		
12,700.00	7,230.13	7,176.13	7,230.13	163.82	248.80	-89.63	-395.14	-4,917.55	1,059.99	733.99	326.01	3.251		
12,800.00	7,229.82	7,175.82	7,229.82	166.62	248.78	-89.59	-395.14	-4,917.55	1,150.80	828.70	322.10	3.573		
12,900.00	7,229.51	7,175.51	7,229.51	169.43	248.77	-89.55	-395.14	-4,917.55	1,243.01	924.27	318.75	3.900		
13,000.00	7,229.20	7,175.20	7,229.20	172.23	248.76	-89.52	-395.14	-4,917.55	1,336.35	1,020.49	315.86	4.231		
13,100.00	7,228.88	7,174.88	7,228.88	175.04	248.75	-89.48	-395.14	-4,917.55	1,430.59	1,117.22	313.36	4.565		
13,200.00	7,228.57	7,174.57	7,228.57	177.85	248.74	-89.44	-395.14	-4,917.55	1,525.56	1,214.37	311.19	4.902		
13,300.00	7,228.26	7,174.26	7,228.26	180.66	248.73	-89.40	-395.14	-4,917.55	1,621.13	1,311.85	309.28	5.242		
13,400.00	7,227.95	7,173.95	7,227.95	183.48	248.72	-89.36	-395.14	-4,917.55	1,717.21	1,409.60	307.61	5.582		
13,500.00	7,227.64	7,173.64	7,227.64	186.29	248.71	-89.32	-395.14	-4,917.55	1,813.72	1,507.59	306.13	5.925		
13,600.00	7,227.33	7,173.33	7,227.33	189.11	248.70	-89.28	-395.14	-4,917.55	1,910.58	1,605.76	304.81	6.268		
13,700.00	7,227.01	7,173.01	7,227.01	191.92	248.69	-89.25	-395.14	-4,917.55	2,007.75	1,704.11	303.64	6.612		
13,800.00	7,226.70	7,172.70	7,226.70	194.74	248.68	-89.21	-395.14	-4,917.55	2,105.18	1,802.59	302.60	6.957		
13,900.00	7,226.39	7,172.39	7,226.39	197.56	248.66	-89.17	-395.14	-4,917.55	2,202.85	1,901.19	301.66	7.302		
14,000.00	7,226.08	7,172.08	7,226.08	200.38	248.65	-89.13	-395.14	-4,917.55	2,300.72	1,999.90	300.81	7.648		
14,100.00	7,225.77	7,171.77	7,225.77	203.21	248.64	-89.09	-395.14	-4,917.55	2,398.76	2,098.71	300.05	7.995		
14,200.00	7,225.45	7,171.45	7,225.45	206.03	248.63	-89.05	-395.14	-4,917.55	2,496.95	2,197.60	299.36	8.341		
14,300.00	7,225.14	7,171.14	7,225.14	208.85	248.62	-89.01	-395.14	-4,917.55	2,595.29	2,296.56	298.73	8.688		
14,400.00	7,224.83	7,170.83	7,224.83	211.68	248.61	-88.97	-395.14	-4,917.55	2,693.75	2,395.59	298.16	9.035		
14,500.00	7,224.52	7,170.52	7,224.52	214.50	248.60	-88.94	-395.14	-4,917.55	2,792.31	2,494.67	297.64	9.381		
14,600.00	7,224.21	7,170.21	7,224.21	217.33	248.59	-88.90	-395.14	-4,917.55	2,890.98	2,593.81	297.17	9.728		
14,700.00	7,223.89	7,169.89	7,223.89	220.16	248.58	-88.86	-395.14	-4,917.55	2,989.73	2,693.00	296.73	10.075		
14,800.00	7,223.58	7,169.58	7,223.58	222.98	248.57	-88.82	-395.14	-4,917.55	3,088.57	2,792.23	296.34	10.422		
14,900.00	7,223.27	7,169.27	7,223.27	225.81	248.56	-88.78	-395.14	-4,917.55	3,187.47	2,891.50	295.98	10.769		
14,987.41	7,223.00	7,169.00	7,223.00	228.28	248.55	-88.75	-395.14	-4,917.55	3,273.98	2,978.30	295.68	11.073		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	57.00	3.28	3.28	-112.06	-3,102.68	-7,655.31	8,260.37					
100.00	100.00	43.00	100.00	3.28	3.36	-112.06	-3,102.68	-7,655.31	8,260.17	8,253.52	6.65	1,242.224		
200.00	200.00	143.00	200.00	3.34	4.62	-112.06	-3,102.68	-7,655.31	8,260.17	8,252.22	7.95	1,038.739		
300.00	300.00	243.00	300.00	3.44	7.49	-112.06	-3,102.68	-7,655.31	8,260.17	8,249.23	10.94	755.146		
400.00	400.00	343.00	400.00	3.60	10.74	-112.06	-3,102.68	-7,655.31	8,260.17	8,245.83	14.34	575.822		
500.00	500.00	443.00	500.00	3.81	14.11	-112.06	-3,102.68	-7,655.31	8,260.17	8,242.26	17.91	461.146		
600.00	600.00	543.00	600.00	4.05	17.52	-112.06	-3,102.68	-7,655.31	8,260.17	8,238.61	21.57	383.006		
700.00	699.98	642.98	699.98	4.32	20.96	-54.08	-3,102.68	-7,655.31	8,259.17	8,233.90	25.27	326.788		
800.00	799.94	742.94	799.94	4.61	24.41	-54.10	-3,102.68	-7,655.31	8,257.43	8,228.41	29.02	284.563		
900.00	899.89	842.89	899.89	4.92	27.87	-54.12	-3,102.68	-7,655.31	8,255.69	8,222.90	32.79	251.750		
1,000.00	999.85	942.85	999.85	5.25	31.34	-54.13	-3,102.68	-7,655.31	8,253.95	8,217.36	36.59	225.564		
1,100.00	1,099.80	1,042.80	1,099.80	5.60	34.81	-54.15	-3,102.68	-7,655.31	8,252.21	8,211.80	40.41	204.207		
1,200.00	1,199.76	1,142.76	1,199.76	5.96	38.29	-54.17	-3,102.68	-7,655.31	8,250.48	8,206.23	44.24	186.474		
1,300.00	1,299.72	1,242.72	1,299.72	6.33	41.77	-54.18	-3,102.68	-7,655.31	8,248.74	8,200.65	48.09	171.524		
1,400.00	1,399.67	1,342.67	1,399.67	6.71	45.25	-54.20	-3,102.68	-7,655.31	8,247.00	8,195.05	51.95	158.756		
1,500.00	1,499.63	1,442.63	1,499.63	7.10	48.73	-54.22	-3,102.68	-7,655.31	8,245.27	8,189.45	55.81	147.731		
1,600.00	1,599.58	1,542.58	1,599.58	7.49	52.21	-54.23	-3,102.68	-7,655.31	8,243.53	8,183.85	59.68	138.118		
1,700.00	1,699.54	1,642.54	1,699.54	7.88	55.69	-54.25	-3,102.68	-7,655.31	8,241.80	8,178.23	63.56	129.663		
1,800.00	1,799.50	1,742.50	1,799.50	8.28	59.18	-54.27	-3,102.68	-7,655.31	8,240.06	8,172.62	67.45	122.172		
1,900.00	1,899.45	1,842.45	1,899.45	8.69	62.66	-54.28	-3,102.68	-7,655.31	8,238.33	8,167.00	71.33	115.489		
2,000.00	1,999.41	1,942.41	1,999.41	9.10	66.15	-54.30	-3,102.68	-7,655.31	8,236.60	8,161.37	75.23	109.492		
2,100.00	2,099.36	2,042.36	2,099.36	9.51	69.63	-54.32	-3,102.68	-7,655.31	8,234.87	8,155.75	79.12	104.080		
2,200.00	2,199.32	2,142.32	2,199.32	9.92	73.12	-54.33	-3,102.68	-7,655.31	8,233.14	8,150.12	83.02	99.172		
2,300.00	2,299.28	2,242.28	2,299.28	10.34	76.60	-54.35	-3,102.68	-7,655.31	8,231.41	8,144.49	86.92	94.702		
2,400.00	2,399.23	2,342.23	2,399.23	10.75	80.09	-54.37	-3,102.68	-7,655.31	8,229.68	8,138.86	90.82	90.614		
2,500.00	2,499.19	2,442.19	2,499.19	11.17	83.58	-54.39	-3,102.68	-7,655.31	8,227.95	8,133.22	94.73	86.860		
2,600.00	2,599.14	2,542.14	2,599.14	11.60	87.06	-54.40	-3,102.68	-7,655.31	8,226.22	8,127.59	98.63	83.403		
2,700.00	2,699.10	2,642.10	2,699.10	12.02	90.55	-54.42	-3,102.68	-7,655.31	8,224.49	8,121.95	102.54	80.207		
2,800.00	2,799.06	2,742.06	2,799.06	12.44	94.04	-54.44	-3,102.68	-7,655.31	8,222.77	8,116.32	106.45	77.246		
2,900.00	2,899.01	2,842.01	2,899.01	12.87	97.52	-54.45	-3,102.68	-7,655.31	8,221.04	8,110.68	110.36	74.493		
3,000.00	2,998.97	2,941.97	2,998.97	13.29	101.01	-54.47	-3,102.68	-7,655.31	8,219.32	8,105.04	114.27	71.928		
3,100.00	3,098.92	3,041.92	3,098.92	13.72	104.50	-54.49	-3,102.68	-7,655.31	8,217.59	8,099.41	118.18	69.532		
3,200.00	3,198.88	3,141.88	3,198.88	14.14	107.99	-54.50	-3,102.68	-7,655.31	8,215.87	8,093.77	122.10	67.289		
3,300.00	3,298.84	3,241.84	3,298.84	14.57	111.48	-54.52	-3,102.68	-7,655.31	8,214.14	8,088.13	126.01	65.185		
3,400.00	3,398.79	3,341.79	3,398.79	15.00	114.96	-54.54	-3,102.68	-7,655.31	8,212.42	8,082.49	129.93	63.207		
3,500.00	3,498.75	3,441.75	3,498.75	15.43	118.45	-54.55	-3,102.68	-7,655.31	8,210.70	8,076.86	133.84	61.345		
3,600.00	3,598.70	3,541.70	3,598.70	15.86	121.94	-54.57	-3,102.68	-7,655.31	8,208.98	8,071.22	137.76	59.588		
3,700.00	3,698.66	3,641.66	3,698.66	16.29	125.43	-54.59	-3,102.68	-7,655.31	8,207.26	8,065.58	141.68	57.929		
3,800.00	3,798.62	3,741.62	3,798.62	16.72	128.92	-54.60	-3,102.68	-7,655.31	8,205.54	8,059.94	145.60	56.358		
3,900.00	3,898.57	3,841.57	3,898.57	17.15	132.40	-54.62	-3,102.68	-7,655.31	8,203.82	8,054.31	149.52	54.869		
4,000.00	3,998.53	3,941.53	3,998.53	17.59	135.89	-54.64	-3,102.68	-7,655.31	8,202.10	8,048.67	153.43	53.457		
4,100.00	4,098.48	4,041.48	4,098.48	18.02	139.38	-54.65	-3,102.68	-7,655.31	8,200.39	8,043.03	157.35	52.114		
4,200.00	4,198.44	4,141.44	4,198.44	18.45	142.87	-54.67	-3,102.68	-7,655.31	8,198.67	8,037.40	161.27	50.837		
4,300.00	4,298.40	4,241.40	4,298.40	18.88	146.36	-54.69	-3,102.68	-7,655.31	8,196.95	8,031.76	165.19	49.620		
4,400.00	4,398.35	4,341.35	4,398.35	19.32	149.85	-54.71	-3,102.68	-7,655.31	8,195.24	8,026.12	169.11	48.460		
4,500.00	4,498.31	4,441.31	4,498.31	19.75	153.34	-54.72	-3,102.68	-7,655.31	8,193.53	8,020.49	173.04	47.352		
4,600.00	4,598.26	4,541.26	4,598.26	20.19	156.82	-54.74	-3,102.68	-7,655.31	8,191.81	8,014.85	176.96	46.293		
4,700.00	4,698.22	4,641.22	4,698.22	20.62	160.31	-54.76	-3,102.68	-7,655.31	8,190.10	8,009.22	180.88	45.280		
4,800.00	4,798.18	4,741.18	4,798.18	21.05	163.80	-54.77	-3,102.68	-7,655.31	8,188.39	8,003.59	184.80	44.309		
4,900.00	4,898.13	4,841.13	4,898.13	21.49	167.29	-54.79	-3,102.68	-7,655.31	8,186.67	7,997.95	188.72	43.379		
5,000.00	4,998.09	4,941.09	4,998.09	21.92	170.78	-54.81	-3,102.68	-7,655.31	8,184.96	7,992.32	192.64	42.487		
5,100.00	5,098.04	5,041.04	5,098.04	22.36	174.27	-54.82	-3,102.68	-7,655.31	8,183.25	7,986.69	196.57	41.631		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,141.00	5,198.00	22.79	177.76	-54.84	-3,102.68	-7,655.31	8,181.54	7,981.05	200.49	40.808		
5,300.00	5,297.96	5,240.96	5,297.96	23.23	181.25	-54.86	-3,102.68	-7,655.31	8,179.84	7,975.42	204.41	40.016		
5,400.00	5,397.91	5,340.91	5,397.91	23.67	184.74	-54.88	-3,102.68	-7,655.31	8,178.13	7,969.79	208.34	39.255		
5,500.00	5,497.87	5,440.87	5,497.87	24.10	188.22	-54.89	-3,102.68	-7,655.31	8,176.42	7,964.16	212.26	38.521		
5,600.00	5,597.82	5,540.82	5,597.82	24.54	191.71	-54.91	-3,102.68	-7,655.31	8,174.71	7,958.53	216.18	37.814		
5,700.00	5,697.78	5,640.78	5,697.78	24.97	195.20	-54.93	-3,102.68	-7,655.31	8,173.01	7,952.90	220.11	37.132		
5,800.00	5,797.74	5,740.74	5,797.74	25.41	198.69	-54.94	-3,102.68	-7,655.31	8,171.30	7,947.27	224.03	36.474		
5,900.00	5,897.69	5,840.69	5,897.69	25.85	202.18	-54.96	-3,102.68	-7,655.31	8,169.60	7,941.64	227.95	35.839		
6,000.00	5,997.65	5,940.65	5,997.65	26.28	205.67	-54.98	-3,102.68	-7,655.31	8,167.90	7,936.02	231.88	35.225		
6,100.00	6,097.60	6,040.60	6,097.60	26.72	209.16	-54.99	-3,102.68	-7,655.31	8,166.19	7,930.39	235.80	34.631		
6,200.00	6,197.56	6,140.56	6,197.56	27.16	212.65	-55.01	-3,102.68	-7,655.31	8,164.49	7,924.76	239.73	34.057		
6,300.00	6,297.52	6,240.52	6,297.52	27.59	216.14	-55.03	-3,102.68	-7,655.31	8,162.79	7,919.14	243.65	33.502		
6,400.00	6,397.47	6,340.47	6,397.47	28.03	219.63	-55.05	-3,102.68	-7,655.31	8,161.09	7,913.51	247.58	32.964		
6,500.00	6,497.43	6,440.43	6,497.43	28.47	223.11	-55.06	-3,102.68	-7,655.31	8,159.39	7,907.89	251.50	32.443		
6,600.00	6,597.38	6,540.38	6,597.38	28.90	226.60	-55.08	-3,102.68	-7,655.31	8,157.69	7,902.26	255.43	31.938		
6,700.00	6,697.08	6,640.08	6,697.08	29.34	230.08	-29.43	-3,102.68	-7,655.31	8,152.24	7,892.90	259.34	31.434		
6,800.00	6,794.63	6,737.63	6,794.63	29.79	233.49	-26.73	-3,102.68	-7,655.31	8,133.03	7,869.85	263.18	30.903		
6,900.00	6,887.62	6,830.62	6,887.62	30.24	236.73	-27.10	-3,102.68	-7,655.31	8,099.98	7,833.14	266.84	30.355		
7,000.00	6,973.77	6,916.77	6,973.77	30.70	239.74	-28.83	-3,102.68	-7,655.31	8,053.93	7,783.71	270.23	29.804		
7,100.00	7,050.94	7,006.06	7,050.94	31.20	242.86	-31.86	-3,102.68	-7,655.31	7,996.07	7,722.37	273.69	29.215		
7,200.00	7,117.24	7,060.24	7,117.24	31.77	244.75	-36.54	-3,102.68	-7,655.31	7,927.85	7,651.95	275.90	28.734		
7,300.00	7,171.03	7,114.03	7,171.03	32.46	246.63	-43.57	-3,102.68	-7,655.31	7,851.01	7,572.95	278.06	28.234		
7,400.00	7,211.00	7,154.00	7,211.00	33.29	248.02	-54.00	-3,102.68	-7,655.31	7,767.49	7,487.76	279.73	27.768		
7,500.00	7,236.16	7,179.16	7,236.16	34.29	248.90	-68.86	-3,102.68	-7,655.31	7,679.38	7,398.51	280.87	27.342		
7,600.00	7,245.89	7,188.89	7,245.89	35.43	249.24	-87.62	-3,102.68	-7,655.31	7,588.87	7,307.40	281.47	26.961		
7,700.00	7,245.73	7,188.73	7,245.73	36.72	249.24	-90.39	-3,102.68	-7,655.31	7,498.00	7,216.24	281.76	26.611		
7,800.00	7,245.42	7,188.42	7,245.42	38.18	249.22	-90.38	-3,102.68	-7,655.31	7,407.37	7,125.27	282.10	26.258		
7,900.00	7,245.10	7,188.10	7,245.10	39.80	249.21	-90.37	-3,102.68	-7,655.31	7,316.98	7,034.48	282.50	25.901		
8,000.00	7,244.79	7,187.79	7,244.79	41.54	249.20	-90.37	-3,102.68	-7,655.31	7,226.84	6,943.89	282.95	25.541		
8,100.00	7,244.48	7,187.48	7,244.48	43.41	249.19	-90.36	-3,102.68	-7,655.31	7,136.97	6,853.50	283.47	25.177		
8,200.00	7,244.17	7,187.17	7,244.17	45.38	249.18	-90.36	-3,102.68	-7,655.31	7,047.37	6,763.31	284.06	24.810		
8,300.00	7,243.86	7,186.86	7,243.86	47.44	249.17	-90.35	-3,102.68	-7,655.31	6,958.05	6,673.34	284.71	24.439		
8,400.00	7,243.55	7,186.55	7,243.55	49.58	249.16	-90.35	-3,102.68	-7,655.31	6,869.03	6,583.60	285.42	24.066		
8,500.00	7,243.23	7,186.23	7,243.23	51.78	249.15	-90.34	-3,102.68	-7,655.31	6,780.31	6,494.10	286.21	23.690		
8,600.00	7,242.92	7,185.92	7,242.92	54.05	249.14	-90.34	-3,102.68	-7,655.31	6,691.91	6,404.85	287.06	23.312		
8,700.00	7,242.61	7,185.61	7,242.61	56.37	249.13	-90.33	-3,102.68	-7,655.31	6,603.84	6,315.85	287.99	22.931		
8,800.00	7,242.30	7,185.30	7,242.30	58.74	249.12	-90.32	-3,102.68	-7,655.31	6,516.12	6,227.13	288.99	22.548		
8,900.00	7,241.99	7,184.99	7,241.99	61.16	249.10	-90.32	-3,102.68	-7,655.31	6,428.75	6,138.70	290.06	22.164		
9,000.00	7,241.67	7,184.67	7,241.67	63.61	249.09	-90.31	-3,102.68	-7,655.31	6,341.76	6,050.56	291.20	21.778		
9,100.00	7,241.36	7,184.36	7,241.36	66.09	249.08	-90.31	-3,102.68	-7,655.31	6,255.16	5,962.74	292.42	21.391		
9,200.00	7,241.05	7,184.05	7,241.05	68.60	249.07	-90.30	-3,102.68	-7,655.31	6,168.96	5,875.25	293.71	21.004		
9,300.00	7,240.74	7,183.74	7,240.74	71.13	249.06	-90.30	-3,102.68	-7,655.31	6,083.18	5,788.11	295.07	20.616		
9,400.00	7,240.43	7,183.43	7,240.43	73.70	249.05	-90.29	-3,102.68	-7,655.31	5,997.85	5,701.33	296.52	20.228		
9,500.00	7,240.11	7,183.11	7,240.11	76.28	249.04	-90.28	-3,102.68	-7,655.31	5,912.97	5,614.93	298.04	19.840		
9,600.00	7,239.80	7,182.80	7,239.80	78.88	249.03	-90.28	-3,102.68	-7,655.31	5,828.58	5,528.94	299.64	19.452		
9,700.00	7,239.49	7,182.49	7,239.49	81.50	249.02	-90.27	-3,102.68	-7,655.31	5,744.68	5,443.37	301.31	19.066		
9,800.00	7,239.18	7,182.18	7,239.18	84.13	249.01	-90.27	-3,102.68	-7,655.31	5,661.31	5,358.24	303.07	18.680		
9,900.00	7,238.87	7,181.87	7,238.87	86.78	249.00	-90.26	-3,102.68	-7,655.31	5,578.49	5,273.58	304.90	18.296		
10,000.00	7,238.55	7,181.55	7,238.55	89.44	248.98	-90.26	-3,102.68	-7,655.31	5,496.23	5,189.41	306.82	17.913		
10,100.00	7,238.24	7,181.24	7,238.24	92.11	248.97	-90.25	-3,102.68	-7,655.31	5,414.58	5,105.75	308.82	17.533		
10,200.00	7,237.93	7,180.93	7,237.93	94.80	248.96	-90.24	-3,102.68	-7,655.31	5,333.54	5,022.64	310.91	17.155		
10,300.00	7,237.62	7,180.62	7,237.62	97.49	248.95	-90.24	-3,102.68	-7,655.31	5,253.17	4,940.09	313.07	16.779		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	7,180.31	7,237.31	100.19	248.94	-90.23	-3,102.68	-7,655.31	5,173.47	4,858.15	315.33	16.407		
10,500.00	7,236.99	7,179.99	7,236.99	102.90	248.93	-90.23	-3,102.68	-7,655.31	5,094.50	4,776.83	317.67	16.037		
10,600.00	7,236.68	7,179.68	7,236.68	105.62	248.92	-90.22	-3,102.68	-7,655.31	5,016.27	4,696.17	320.09	15.671		
10,700.00	7,236.37	7,179.37	7,236.37	108.35	248.91	-90.22	-3,102.68	-7,655.31	4,938.83	4,616.22	322.61	15.309		
10,800.00	7,236.06	7,179.06	7,236.06	111.08	248.90	-90.21	-3,102.68	-7,655.31	4,862.21	4,536.99	325.22	14.951		
10,900.00	7,235.75	7,178.75	7,235.75	113.82	248.89	-90.20	-3,102.68	-7,655.31	4,786.45	4,458.54	327.92	14.597		
11,000.00	7,235.44	7,178.44	7,235.44	116.56	248.88	-90.20	-3,102.68	-7,655.31	4,711.60	4,380.90	330.71	14.247		
11,100.00	7,235.12	7,178.12	7,235.12	119.31	248.86	-90.19	-3,102.68	-7,655.31	4,637.70	4,304.11	333.59	13.902		
11,200.00	7,234.81	7,177.81	7,234.81	122.07	248.85	-90.19	-3,102.68	-7,655.31	4,564.79	4,228.23	336.56	13.563		
11,300.00	7,234.50	7,177.50	7,234.50	124.83	248.84	-90.18	-3,102.68	-7,655.31	4,492.93	4,153.29	339.63	13.229		
11,400.00	7,234.19	7,177.19	7,234.19	127.59	248.83	-90.18	-3,102.68	-7,655.31	4,422.15	4,079.35	342.80	12.900		
11,500.00	7,233.88	7,176.88	7,233.88	130.36	248.82	-90.17	-3,102.68	-7,655.31	4,352.53	4,006.47	346.06	12.577		
11,600.00	7,233.56	7,176.56	7,233.56	133.13	248.81	-90.16	-3,102.68	-7,655.31	4,284.11	3,934.69	349.41	12.261		
11,700.00	7,233.25	7,176.25	7,233.25	135.91	248.80	-90.16	-3,102.68	-7,655.31	4,216.95	3,864.08	352.86	11.951		
11,800.00	7,232.94	7,175.94	7,232.94	138.68	248.79	-90.15	-3,102.68	-7,655.31	4,151.11	3,794.71	356.40	11.647		
11,900.00	7,232.63	7,175.63	7,232.63	141.47	248.78	-90.15	-3,102.68	-7,655.31	4,086.65	3,726.62	360.03	11.351		
12,000.00	7,232.32	7,175.32	7,232.32	144.25	248.77	-90.14	-3,102.68	-7,655.31	4,023.66	3,659.90	363.75	11.061		
12,100.00	7,232.00	7,175.00	7,232.00	147.04	248.76	-90.14	-3,102.68	-7,655.31	3,962.18	3,594.62	367.56	10.780		
12,200.00	7,231.69	7,174.69	7,231.69	149.83	248.75	-90.13	-3,102.68	-7,655.31	3,902.30	3,530.85	371.45	10.506		
12,300.00	7,231.38	7,174.38	7,231.38	152.62	248.73	-90.13	-3,102.68	-7,655.31	3,844.08	3,468.66	375.42	10.239		
12,400.00	7,231.07	7,174.07	7,231.07	155.42	248.72	-90.12	-3,102.68	-7,655.31	3,787.62	3,408.15	379.47	9.981		
12,500.00	7,230.76	7,173.76	7,230.76	158.22	248.71	-90.11	-3,102.68	-7,655.31	3,732.98	3,349.40	383.58	9.732		
12,600.00	7,230.44	7,173.44	7,230.44	161.01	248.70	-90.11	-3,102.68	-7,655.31	3,680.24	3,292.48	387.76	9.491		
12,700.00	7,230.13	7,173.13	7,230.13	163.82	248.69	-90.10	-3,102.68	-7,655.31	3,629.49	3,237.51	391.98	9.259		
12,800.00	7,229.82	7,172.82	7,229.82	166.62	248.68	-90.10	-3,102.68	-7,655.31	3,580.82	3,184.56	396.26	9.037		
12,900.00	7,229.51	7,172.51	7,229.51	169.43	248.67	-90.09	-3,102.68	-7,655.31	3,534.31	3,133.74	400.57	8.823		
13,000.00	7,229.20	7,172.20	7,229.20	172.23	248.66	-90.09	-3,102.68	-7,655.31	3,490.04	3,085.14	404.91	8.619		
13,100.00	7,228.88	7,171.88	7,228.88	175.04	248.65	-90.08	-3,102.68	-7,655.31	3,448.11	3,038.85	409.26	8.425		
13,200.00	7,228.57	7,171.57	7,228.57	177.85	248.64	-90.07	-3,102.68	-7,655.31	3,408.59	2,994.99	413.60	8.241		
13,300.00	7,228.26	7,171.26	7,228.26	180.66	248.63	-90.07	-3,102.68	-7,655.31	3,371.58	2,953.64	417.94	8.067		
13,400.00	7,227.95	7,170.95	7,227.95	183.48	248.61	-90.06	-3,102.68	-7,655.31	3,337.16	2,914.92	422.24	7.903		
13,500.00	7,227.64	7,170.64	7,227.64	186.29	248.60	-90.06	-3,102.68	-7,655.31	3,305.40	2,878.90	426.50	7.750		
13,600.00	7,227.33	7,170.33	7,227.33	189.11	248.59	-90.05	-3,102.68	-7,655.31	3,276.39	2,845.69	430.70	7.607		
13,700.00	7,227.01	7,170.01	7,227.01	191.92	248.58	-90.05	-3,102.68	-7,655.31	3,250.20	2,815.38	434.82	7.475		
13,800.00	7,226.70	7,169.70	7,226.70	194.74	248.57	-90.04	-3,102.68	-7,655.31	3,226.90	2,788.05	438.85	7.353		
13,900.00	7,226.39	7,169.39	7,226.39	197.56	248.56	-90.03	-3,102.68	-7,655.31	3,206.54	2,763.78	442.76	7.242		
14,000.00	7,226.08	7,169.08	7,226.08	200.38	248.55	-90.03	-3,102.68	-7,655.31	3,189.19	2,742.65	446.55	7.142		
14,100.00	7,225.77	7,168.77	7,225.77	203.21	248.54	-90.02	-3,102.68	-7,655.31	3,174.90	2,724.72	450.19	7.052		
14,200.00	7,225.45	7,168.45	7,225.45	206.03	248.53	-90.02	-3,102.68	-7,655.31	3,163.71	2,710.05	453.66	6.974		
14,300.00	7,225.14	7,168.14	7,225.14	208.85	248.52	-90.01	-3,102.68	-7,655.31	3,155.65	2,698.68	456.97	6.906		
14,400.00	7,224.83	7,167.83	7,224.83	211.68	248.51	-90.01	-3,102.68	-7,655.31	3,150.74	2,690.66	460.08	6.848		
14,500.00	7,224.52	7,167.52	7,224.52	214.50	248.49	-90.00	-3,102.68	-7,655.31	3,149.01	2,686.01	463.00	6.801		
14,504.73	7,224.50	7,167.50	7,224.50	214.64	248.49	-90.00	-3,102.68	-7,655.31	3,149.00	2,685.87	463.13	6.799 CC		
14,600.00	7,224.21	7,167.21	7,224.21	217.33	248.48	-89.99	-3,102.68	-7,655.31	3,150.44	2,684.74	465.70	6.765 ES		
14,700.00	7,223.89	7,166.89	7,223.89	220.16	248.47	-89.99	-3,102.68	-7,655.31	3,155.05	2,686.86	468.19	6.739		
14,800.00	7,223.58	7,166.58	7,223.58	222.98	248.46	-89.98	-3,102.68	-7,655.31	3,162.82	2,692.36	470.46	6.723		
14,900.00	7,223.27	7,166.27	7,223.27	225.81	248.45	-89.98	-3,102.68	-7,655.31	3,173.71	2,701.22	472.50	6.717 SF		
14,987.41	7,223.00	7,166.00	7,223.00	228.28	248.44	-89.97	-3,102.68	-7,655.31	3,185.78	2,711.69	474.09	6.720		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	44.00	3.28	3.28	-103.88	-1,610.82	-6,519.70	6,715.88					
100.00	100.00	56.00	100.00	3.28	3.42	-103.88	-1,610.82	-6,519.70	6,715.74	6,709.03	6.71	1,001.262		
200.00	200.00	156.00	200.00	3.34	4.94	-103.88	-1,610.82	-6,519.70	6,715.74	6,707.46	8.28	810.893		
300.00	300.00	256.00	300.00	3.44	7.90	-103.88	-1,610.82	-6,519.70	6,715.74	6,704.39	11.35	591.744		
400.00	400.00	356.00	400.00	3.60	11.17	-103.88	-1,610.82	-6,519.70	6,715.74	6,700.96	14.78	454.441		
500.00	500.00	456.00	500.00	3.81	14.55	-103.88	-1,610.82	-6,519.70	6,715.74	6,697.39	18.35	365.900		
600.00	600.00	556.00	600.00	4.05	17.97	-103.88	-1,610.82	-6,519.70	6,715.74	6,693.73	22.01	305.085		
700.00	699.98	655.98	699.98	4.32	21.41	-45.90	-1,610.82	-6,519.70	6,714.55	6,688.83	25.72	261.041		
800.00	799.94	755.94	799.94	4.61	24.86	-45.92	-1,610.82	-6,519.70	6,712.49	6,683.02	29.47	227.791		
900.00	899.89	855.89	899.89	4.92	28.32	-45.94	-1,610.82	-6,519.70	6,710.42	6,677.18	33.24	201.855		
1,000.00	999.85	955.85	999.85	5.25	31.79	-45.96	-1,610.82	-6,519.70	6,708.36	6,671.32	37.04	181.093		
1,100.00	1,099.80	1,055.80	1,099.80	5.60	35.27	-45.97	-1,610.82	-6,519.70	6,706.30	6,665.43	40.86	164.119		
1,200.00	1,199.76	1,155.76	1,199.76	5.96	38.74	-45.99	-1,610.82	-6,519.70	6,704.23	6,659.54	44.70	149.995		
1,300.00	1,299.72	1,255.72	1,299.72	6.33	42.22	-46.01	-1,610.82	-6,519.70	6,702.17	6,653.63	48.54	138.067		
1,400.00	1,399.67	1,355.67	1,399.67	6.71	45.70	-46.03	-1,610.82	-6,519.70	6,700.11	6,647.71	52.40	127.866		
1,500.00	1,499.63	1,455.63	1,499.63	7.10	49.18	-46.05	-1,610.82	-6,519.70	6,698.05	6,641.79	56.26	119.045		
1,600.00	1,599.58	1,555.58	1,599.58	7.49	52.66	-46.07	-1,610.82	-6,519.70	6,695.99	6,635.86	60.14	111.346		
1,700.00	1,699.54	1,655.54	1,699.54	7.88	56.15	-46.08	-1,610.82	-6,519.70	6,693.93	6,629.92	64.02	104.568		
1,800.00	1,799.50	1,755.50	1,799.50	8.28	59.63	-46.10	-1,610.82	-6,519.70	6,691.88	6,623.98	67.90	98.557		
1,900.00	1,899.45	1,855.45	1,899.45	8.69	63.11	-46.12	-1,610.82	-6,519.70	6,689.82	6,618.03	71.79	93.191		
2,000.00	1,999.41	1,955.41	1,999.41	9.10	66.60	-46.14	-1,610.82	-6,519.70	6,687.76	6,612.08	75.68	88.371		
2,100.00	2,099.36	2,055.36	2,099.36	9.51	70.08	-46.16	-1,610.82	-6,519.70	6,685.71	6,606.13	79.57	84.020		
2,200.00	2,199.32	2,155.32	2,199.32	9.92	73.57	-46.18	-1,610.82	-6,519.70	6,683.65	6,600.18	83.47	80.072		
2,300.00	2,299.28	2,255.28	2,299.28	10.34	77.06	-46.19	-1,610.82	-6,519.70	6,681.60	6,594.22	87.37	76.474		
2,400.00	2,399.23	2,355.23	2,399.23	10.75	80.54	-46.21	-1,610.82	-6,519.70	6,679.54	6,588.27	91.27	73.181		
2,500.00	2,499.19	2,455.19	2,499.19	11.17	84.03	-46.23	-1,610.82	-6,519.70	6,677.49	6,582.31	95.18	70.158		
2,600.00	2,599.14	2,555.14	2,599.14	11.60	87.52	-46.25	-1,610.82	-6,519.70	6,675.44	6,576.35	99.08	67.371		
2,700.00	2,699.10	2,655.10	2,699.10	12.02	91.00	-46.27	-1,610.82	-6,519.70	6,673.38	6,570.39	102.99	64.795		
2,800.00	2,799.06	2,755.06	2,799.06	12.44	94.49	-46.29	-1,610.82	-6,519.70	6,671.33	6,564.43	106.90	62.406		
2,900.00	2,899.01	2,855.01	2,899.01	12.87	97.98	-46.30	-1,610.82	-6,519.70	6,669.28	6,558.47	110.81	60.185		
3,000.00	2,998.97	2,954.97	2,998.97	13.29	101.47	-46.32	-1,610.82	-6,519.70	6,667.23	6,552.51	114.72	58.115		
3,100.00	3,098.92	3,054.92	3,098.92	13.72	104.95	-46.34	-1,610.82	-6,519.70	6,665.18	6,546.55	118.64	56.181		
3,200.00	3,198.88	3,154.88	3,198.88	14.14	108.44	-46.36	-1,610.82	-6,519.70	6,663.14	6,540.58	122.55	54.371		
3,300.00	3,298.84	3,254.84	3,298.84	14.57	111.93	-46.38	-1,610.82	-6,519.70	6,661.09	6,534.62	126.47	52.671		
3,400.00	3,398.79	3,354.79	3,398.79	15.00	115.42	-46.40	-1,610.82	-6,519.70	6,659.04	6,528.66	130.38	51.074		
3,500.00	3,498.75	3,454.75	3,498.75	15.43	118.91	-46.41	-1,610.82	-6,519.70	6,656.99	6,522.70	134.30	49.569		
3,600.00	3,598.70	3,554.70	3,598.70	15.86	122.39	-46.43	-1,610.82	-6,519.70	6,654.95	6,516.74	138.21	48.150		
3,700.00	3,698.66	3,654.66	3,698.66	16.29	125.88	-46.45	-1,610.82	-6,519.70	6,652.90	6,510.77	142.13	46.808		
3,800.00	3,798.62	3,754.62	3,798.62	16.72	129.37	-46.47	-1,610.82	-6,519.70	6,650.86	6,504.81	146.05	45.539		
3,900.00	3,898.57	3,854.57	3,898.57	17.15	132.86	-46.49	-1,610.82	-6,519.70	6,648.82	6,498.85	149.97	44.335		
4,000.00	3,998.53	3,954.53	3,998.53	17.59	136.35	-46.51	-1,610.82	-6,519.70	6,646.77	6,492.89	153.89	43.193		
4,100.00	4,098.48	4,054.48	4,098.48	18.02	139.84	-46.53	-1,610.82	-6,519.70	6,644.73	6,486.93	157.81	42.107		
4,200.00	4,198.44	4,154.44	4,198.44	18.45	143.32	-46.54	-1,610.82	-6,519.70	6,642.69	6,480.96	161.73	41.074		
4,300.00	4,298.40	4,254.40	4,298.40	18.88	146.81	-46.56	-1,610.82	-6,519.70	6,640.65	6,475.00	165.65	40.090		
4,400.00	4,398.35	4,354.35	4,398.35	19.32	150.30	-46.58	-1,610.82	-6,519.70	6,638.61	6,469.04	169.57	39.151		
4,500.00	4,498.31	4,454.31	4,498.31	19.75	153.79	-46.60	-1,610.82	-6,519.70	6,636.57	6,463.08	173.49	38.254		
4,600.00	4,598.26	4,554.26	4,598.26	20.19	157.28	-46.62	-1,610.82	-6,519.70	6,634.53	6,457.12	177.41	37.397		
4,700.00	4,698.22	4,654.22	4,698.22	20.62	160.77	-46.64	-1,610.82	-6,519.70	6,632.49	6,451.16	181.33	36.577		
4,800.00	4,798.18	4,754.18	4,798.18	21.05	164.26	-46.66	-1,610.82	-6,519.70	6,630.45	6,445.20	185.25	35.792		
4,900.00	4,898.13	4,854.13	4,898.13	21.49	167.74	-46.67	-1,610.82	-6,519.70	6,628.42	6,439.25	189.17	35.039		
5,000.00	4,998.09	4,954.09	4,998.09	21.92	171.23	-46.69	-1,610.82	-6,519.70	6,626.38	6,433.29	193.10	34.317		
5,100.00	5,098.04	5,054.04	5,098.04	22.36	174.72	-46.71	-1,610.82	-6,519.70	6,624.35	6,427.33	197.02	33.623		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,154.00	5,198.00	22.79	178.21	-46.73	-1,610.82	-6,519.70	6,622.31	6,421.37	200.94	32.957		
5,300.00	5,297.96	5,253.96	5,297.96	23.23	181.70	-46.75	-1,610.82	-6,519.70	6,620.28	6,415.42	204.86	32.316		
5,400.00	5,397.91	5,353.91	5,397.91	23.67	185.19	-46.77	-1,610.82	-6,519.70	6,618.25	6,409.46	208.79	31.699		
5,500.00	5,497.87	5,453.87	5,497.87	24.10	188.68	-46.79	-1,610.82	-6,519.70	6,616.21	6,403.50	212.71	31.104		
5,600.00	5,597.82	5,553.82	5,597.82	24.54	192.17	-46.81	-1,610.82	-6,519.70	6,614.18	6,397.55	216.63	30.532		
5,700.00	5,697.78	5,653.78	5,697.78	24.97	195.66	-46.82	-1,610.82	-6,519.70	6,612.15	6,391.59	220.56	29.979		
5,800.00	5,797.74	5,753.74	5,797.74	25.41	199.14	-46.84	-1,610.82	-6,519.70	6,610.12	6,385.64	224.48	29.446		
5,900.00	5,897.69	5,853.69	5,897.69	25.85	202.63	-46.86	-1,610.82	-6,519.70	6,608.09	6,379.69	228.40	28.931		
6,000.00	5,997.65	5,953.65	5,997.65	26.28	206.12	-46.88	-1,610.82	-6,519.70	6,606.06	6,373.73	232.33	28.434		
6,100.00	6,097.60	6,053.60	6,097.60	26.72	209.61	-46.90	-1,610.82	-6,519.70	6,604.03	6,367.78	236.25	27.953		
6,200.00	6,197.56	6,153.56	6,197.56	27.16	213.10	-46.92	-1,610.82	-6,519.70	6,602.01	6,361.83	240.18	27.488		
6,300.00	6,297.52	6,253.52	6,297.52	27.59	216.59	-46.94	-1,610.82	-6,519.70	6,599.98	6,355.88	244.10	27.038		
6,400.00	6,397.47	6,353.47	6,397.47	28.03	220.08	-46.96	-1,610.82	-6,519.70	6,597.95	6,349.93	248.03	26.602		
6,500.00	6,497.43	6,453.43	6,497.43	28.47	223.57	-46.97	-1,610.82	-6,519.70	6,595.93	6,343.98	251.95	26.179		
6,600.00	6,597.38	6,553.38	6,597.38	28.90	227.06	-46.99	-1,610.82	-6,519.70	6,593.90	6,338.03	255.88	25.770		
6,700.00	6,697.08	6,653.08	6,697.08	29.34	230.54	-21.29	-1,610.82	-6,519.70	6,587.95	6,328.16	259.79	25.359		
6,800.00	6,794.63	6,750.63	6,794.63	29.79	233.94	-18.38	-1,610.82	-6,519.70	6,567.56	6,303.94	263.63	24.912		
6,900.00	6,887.62	6,843.62	6,887.62	30.24	237.19	-18.34	-1,610.82	-6,519.70	6,532.66	6,265.38	267.28	24.441		
7,000.00	6,973.77	6,929.77	6,973.77	30.70	240.20	-19.46	-1,610.82	-6,519.70	6,484.11	6,213.45	270.67	23.956		
7,100.00	7,050.94	7,006.94	7,050.94	31.20	242.89	-21.65	-1,610.82	-6,519.70	6,423.15	6,149.45	273.69	23.468		
7,200.00	7,117.24	7,073.24	7,117.24	31.77	245.20	-25.26	-1,610.82	-6,519.70	6,351.28	6,074.99	276.29	22.987		
7,300.00	7,171.03	7,127.03	7,171.03	32.46	247.08	-31.15	-1,610.82	-6,519.70	6,270.32	5,991.91	278.41	22.522		
7,400.00	7,211.00	7,167.00	7,211.00	33.29	248.48	-41.15	-1,610.82	-6,519.70	6,182.28	5,902.27	280.00	22.079		
7,500.00	7,236.16	7,207.84	7,236.16	34.29	249.90	-58.65	-1,610.82	-6,519.70	6,089.34	5,807.75	281.59	21.625		
7,600.00	7,245.89	7,201.89	7,245.89	35.43	249.69	-86.25	-1,610.82	-6,519.70	5,993.81	5,712.29	281.53	21.290		
7,700.00	7,245.73	7,201.73	7,245.73	36.72	249.69	-90.61	-1,610.82	-6,519.70	5,897.82	5,616.15	281.67	20.939		
7,800.00	7,245.42	7,201.42	7,245.42	38.18	249.68	-90.60	-1,610.82	-6,519.70	5,801.96	5,520.13	281.83	20.586		
7,900.00	7,245.10	7,201.10	7,245.10	39.80	249.67	-90.59	-1,610.82	-6,519.70	5,706.25	5,424.22	282.03	20.233		
8,000.00	7,244.79	7,200.79	7,244.79	41.54	249.66	-90.57	-1,610.82	-6,519.70	5,610.68	5,328.42	282.26	19.878		
8,100.00	7,244.48	7,200.48	7,244.48	43.41	249.65	-90.56	-1,610.82	-6,519.70	5,515.27	5,232.74	282.53	19.521		
8,200.00	7,244.17	7,200.17	7,244.17	45.38	249.63	-90.55	-1,610.82	-6,519.70	5,420.02	5,137.19	282.84	19.163		
8,300.00	7,243.86	7,200.14	7,243.86	47.44	249.63	-90.54	-1,610.82	-6,519.70	5,324.95	5,041.76	283.20	18.803		
8,400.00	7,243.55	7,200.46	7,243.55	49.58	249.64	-90.53	-1,610.82	-6,519.70	5,230.07	4,946.45	283.61	18.441		
8,500.00	7,243.23	7,200.77	7,243.23	51.78	249.66	-90.52	-1,610.82	-6,519.70	5,135.38	4,851.30	284.08	18.077		
8,600.00	7,242.92	7,201.08	7,242.92	54.05	249.67	-90.51	-1,610.82	-6,519.70	5,040.89	4,756.30	284.59	17.713		
8,700.00	7,242.61	7,201.39	7,242.61	56.37	249.68	-90.50	-1,610.82	-6,519.70	4,946.62	4,661.46	285.16	17.347		
8,800.00	7,242.30	7,201.70	7,242.30	58.74	249.69	-90.49	-1,610.82	-6,519.70	4,852.58	4,566.79	285.79	16.980		
8,900.00	7,241.99	7,202.01	7,241.99	61.16	249.70	-90.48	-1,610.82	-6,519.70	4,758.78	4,472.31	286.47	16.612		
9,000.00	7,241.67	7,202.33	7,241.67	63.61	249.71	-90.47	-1,610.82	-6,519.70	4,665.24	4,378.01	287.22	16.243		
9,100.00	7,241.36	7,202.64	7,241.36	66.09	249.72	-90.46	-1,610.82	-6,519.70	4,571.97	4,283.93	288.04	15.873		
9,200.00	7,241.05	7,202.95	7,241.05	68.60	249.73	-90.45	-1,610.82	-6,519.70	4,478.99	4,190.06	288.93	15.502		
9,300.00	7,240.74	7,203.26	7,240.74	71.13	249.74	-90.44	-1,610.82	-6,519.70	4,386.33	4,096.43	289.89	15.131		
9,400.00	7,240.43	7,203.57	7,240.43	73.70	249.75	-90.42	-1,610.82	-6,519.70	4,293.99	4,003.05	290.94	14.759		
9,500.00	7,240.11	7,203.89	7,240.11	76.28	249.76	-90.41	-1,610.82	-6,519.70	4,202.00	3,909.94	292.06	14.387		
9,600.00	7,239.80	7,204.20	7,239.80	78.88	249.78	-90.40	-1,610.82	-6,519.70	4,110.39	3,817.11	293.28	14.015		
9,700.00	7,239.49	7,204.51	7,239.49	81.50	249.79	-90.39	-1,610.82	-6,519.70	4,019.17	3,724.59	294.58	13.644		
9,800.00	7,239.18	7,204.82	7,239.18	84.13	249.80	-90.38	-1,610.82	-6,519.70	3,928.39	3,632.40	295.99	13.272		
9,900.00	7,238.87	7,205.13	7,238.87	86.78	249.81	-90.37	-1,610.82	-6,519.70	3,838.06	3,540.57	297.49	12.901		
10,000.00	7,238.55	7,205.45	7,238.55	89.44	249.82	-90.36	-1,610.82	-6,519.70	3,748.22	3,449.12	299.10	12.531		
10,100.00	7,238.24	7,205.76	7,238.24	92.11	249.83	-90.35	-1,610.82	-6,519.70	3,658.91	3,358.08	300.83	12.163		
10,200.00	7,237.93	7,206.07	7,237.93	94.80	249.84	-90.34	-1,610.82	-6,519.70	3,570.17	3,267.49	302.68	11.795		
10,300.00	7,237.62	7,206.38	7,237.62	97.49	249.85	-90.33	-1,610.82	-6,519.70	3,482.03	3,177.39	304.64	11.430		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	7,237.31	7,206.69	7,237.31	100.19	249.86	-90.32	-1,610.82	-6,519.70	3,394.56	3,087.81	306.75	11.066	
10,500.00	7,236.99	7,207.01	7,236.99	102.90	249.87	-90.31	-1,610.82	-6,519.70	3,307.79	2,998.81	308.99	10.705	
10,600.00	7,236.68	7,207.32	7,236.68	105.62	249.88	-90.30	-1,610.82	-6,519.70	3,221.80	2,910.43	311.37	10.347	
10,700.00	7,236.37	7,207.63	7,236.37	108.35	249.89	-90.29	-1,610.82	-6,519.70	3,136.63	2,822.72	313.91	9.992	
10,800.00	7,236.06	7,207.94	7,236.06	111.08	249.91	-90.27	-1,610.82	-6,519.70	3,052.36	2,735.75	316.61	9.641	
10,900.00	7,235.75	7,208.25	7,235.75	113.82	249.92	-90.26	-1,610.82	-6,519.70	2,969.07	2,649.60	319.47	9.294	
11,000.00	7,235.44	7,208.56	7,235.44	116.56	249.93	-90.25	-1,610.82	-6,519.70	2,886.84	2,564.32	322.51	8.951	
11,100.00	7,235.12	7,208.88	7,235.12	119.31	249.94	-90.24	-1,610.82	-6,519.70	2,805.76	2,480.02	325.74	8.613	
11,200.00	7,234.81	7,209.19	7,234.81	122.07	249.95	-90.23	-1,610.82	-6,519.70	2,725.94	2,396.79	329.16	8.282	
11,300.00	7,234.50	7,209.50	7,234.50	124.83	249.96	-90.22	-1,610.82	-6,519.70	2,647.50	2,314.72	332.78	7.956	
11,400.00	7,234.19	7,209.81	7,234.19	127.59	249.97	-90.21	-1,610.82	-6,519.70	2,570.55	2,233.95	336.60	7.637	
11,500.00	7,233.88	7,189.88	7,233.88	130.36	249.28	-90.20	-1,610.82	-6,519.70	2,495.23	2,155.30	339.93	7.341	
11,600.00	7,233.56	7,189.56	7,233.56	133.13	249.26	-90.19	-1,610.82	-6,519.70	2,421.70	2,077.55	344.15	7.037	
11,700.00	7,233.25	7,189.25	7,233.25	135.91	249.25	-90.18	-1,610.82	-6,519.70	2,350.13	2,001.53	348.60	6.742	
11,800.00	7,232.94	7,188.94	7,232.94	138.68	249.24	-90.17	-1,610.82	-6,519.70	2,280.70	1,927.44	353.26	6.456	
11,900.00	7,232.63	7,188.63	7,232.63	141.47	249.23	-90.16	-1,610.82	-6,519.70	2,213.60	1,855.47	358.13	6.181	
12,000.00	7,232.32	7,188.32	7,232.32	144.25	249.22	-90.15	-1,610.82	-6,519.70	2,149.07	1,785.86	363.21	5.917	
12,100.00	7,232.00	7,188.00	7,232.00	147.04	249.21	-90.13	-1,610.82	-6,519.70	2,087.34	1,718.86	368.47	5.665	
12,200.00	7,231.69	7,187.69	7,231.69	149.83	249.20	-90.12	-1,610.82	-6,519.70	2,028.65	1,654.75	373.90	5.426	
12,300.00	7,231.38	7,187.38	7,231.38	152.62	249.19	-90.11	-1,610.82	-6,519.70	1,973.30	1,593.83	379.47	5.200	
12,400.00	7,231.07	7,187.07	7,231.07	155.42	249.18	-90.10	-1,610.82	-6,519.70	1,921.55	1,536.43	385.13	4.989	
12,500.00	7,230.76	7,186.76	7,230.76	158.22	249.17	-90.09	-1,610.82	-6,519.70	1,873.72	1,482.88	390.84	4.794	
12,600.00	7,230.44	7,186.44	7,230.44	161.01	249.16	-90.08	-1,610.82	-6,519.70	1,830.11	1,433.57	396.54	4.615	
12,700.00	7,230.13	7,186.13	7,230.13	163.82	249.14	-90.07	-1,610.82	-6,519.70	1,791.02	1,388.87	402.16	4.454	
12,800.00	7,229.82	7,185.82	7,229.82	166.62	249.13	-90.06	-1,610.82	-6,519.70	1,756.77	1,349.15	407.62	4.310	
12,900.00	7,229.51	7,185.51	7,229.51	169.43	249.12	-90.05	-1,610.82	-6,519.70	1,727.63	1,314.78	412.84	4.185	
13,000.00	7,229.20	7,185.20	7,229.20	172.23	249.11	-90.04	-1,610.82	-6,519.70	1,703.86	1,286.13	417.74	4.079	
13,100.00	7,228.88	7,184.88	7,228.88	175.04	249.10	-90.03	-1,610.82	-6,519.70	1,685.71	1,263.49	422.22	3.992	
13,200.00	7,228.57	7,184.57	7,228.57	177.85	249.09	-90.02	-1,610.82	-6,519.70	1,673.34	1,247.13	426.22	3.926	
13,300.00	7,228.26	7,184.26	7,228.26	180.66	249.08	-90.01	-1,610.82	-6,519.70	1,666.90	1,237.24	429.65	3.880	
13,357.68	7,228.08	7,184.08	7,228.08	182.29	249.07	-90.00	-1,610.82	-6,519.70	1,665.90	1,234.54	431.36	3.862 CC	
13,400.00	7,227.95	7,183.95	7,227.95	183.48	249.07	-90.00	-1,610.82	-6,519.70	1,666.44	1,233.96	432.48	3.853 ES	
13,500.00	7,227.64	7,183.64	7,227.64	186.29	249.06	-89.98	-1,610.82	-6,519.70	1,671.97	1,237.31	434.66	3.847 SF	
13,600.00	7,227.33	7,183.33	7,227.33	189.11	249.05	-89.97	-1,610.82	-6,519.70	1,683.43	1,247.24	436.19	3.859	
13,700.00	7,227.01	7,183.01	7,227.01	191.92	249.04	-89.96	-1,610.82	-6,519.70	1,700.70	1,263.63	437.07	3.891	
13,800.00	7,226.70	7,182.70	7,226.70	194.74	249.02	-89.95	-1,610.82	-6,519.70	1,723.62	1,286.27	437.35	3.941	
13,900.00	7,226.39	7,182.39	7,226.39	197.56	249.01	-89.94	-1,610.82	-6,519.70	1,751.95	1,314.90	437.04	4.009	
14,000.00	7,226.08	7,182.08	7,226.08	200.38	249.00	-89.93	-1,610.82	-6,519.70	1,785.44	1,349.21	436.23	4.093	
14,100.00	7,225.77	7,181.77	7,225.77	203.21	248.99	-89.92	-1,610.82	-6,519.70	1,823.80	1,388.83	434.96	4.193	
14,200.00	7,225.45	7,181.45	7,225.45	206.03	248.98	-89.91	-1,610.82	-6,519.70	1,866.74	1,433.42	433.31	4.308	
14,300.00	7,225.14	7,181.14	7,225.14	208.85	248.97	-89.90	-1,610.82	-6,519.70	1,913.94	1,482.59	431.35	4.437	
14,400.00	7,224.83	7,180.83	7,224.83	211.68	248.96	-89.89	-1,610.82	-6,519.70	1,965.10	1,535.98	429.13	4.579	
14,500.00	7,224.52	7,180.52	7,224.52	214.50	248.95	-89.88	-1,610.82	-6,519.70	2,019.92	1,593.21	426.71	4.734	
14,600.00	7,224.21	7,180.21	7,224.21	217.33	248.94	-89.87	-1,610.82	-6,519.70	2,078.11	1,653.96	424.15	4.899	
14,700.00	7,223.89	7,179.89	7,223.89	220.16	248.93	-89.86	-1,610.82	-6,519.70	2,139.39	1,717.91	421.49	5.076	
14,800.00	7,223.58	7,179.58	7,223.58	222.98	248.92	-89.85	-1,610.82	-6,519.70	2,203.51	1,784.74	418.77	5.262	
14,900.00	7,223.27	7,179.27	7,223.27	225.81	248.90	-89.83	-1,610.82	-6,519.70	2,270.23	1,854.20	416.03	5.457	
14,987.41	7,223.00	7,179.00	7,223.00	228.28	248.90	-89.83	-1,610.82	-6,519.70	2,330.49	1,916.86	413.63	5.634	



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	0.00	39.00	3.28	3.28	-93.54	-474.23	-7,658.39	7,673.16					
100.00	100.00	100.00	126.51	3.28	3.29	-93.54	-473.94	-7,658.11	7,672.80	7,666.23	6.57	1,167.526		
200.00	200.00	181.93	220.92	3.34	3.33	-93.54	-473.34	-7,657.70	7,672.35	7,665.68	6.67	1,150.993		
277.64	277.64	238.65	277.64	3.42	3.38	-93.53	-472.96	-7,657.65	7,672.24	7,665.45	6.79	1,129.131		
300.00	300.00	255.11	294.11	3.44	3.40	-93.53	-472.88	-7,657.66	7,672.25	7,665.41	6.84	1,121.499		
400.00	400.00	330.17	369.16	3.60	3.49	-93.53	-472.68	-7,657.86	7,672.50	7,665.40	7.10	1,081.195		
500.00	500.00	410.98	449.98	3.81	3.63	-93.53	-472.75	-7,658.30	7,673.04	7,665.61	7.43	1,032.423		
600.00	600.00	519.79	558.78	4.05	3.85	-93.53	-473.02	-7,658.91	7,673.61	7,665.72	7.89	972.150		
700.00	699.98	609.66	648.64	4.32	4.06	-35.55	-473.67	-7,659.41	7,672.83	7,664.45	8.38	916.026		
800.00	799.94	698.15	737.13	4.61	4.30	-35.57	-474.56	-7,660.01	7,671.16	7,662.25	8.90	861.691		
900.00	899.89	800.09	839.06	4.92	4.59	-35.59	-475.59	-7,660.78	7,669.55	7,660.04	9.51	806.462		
1,000.00	999.85	905.04	944.00	5.25	4.92	-35.61	-476.63	-7,661.51	7,667.90	7,657.73	10.17	754.232		
1,100.00	1,099.80	1,010.34	1,049.29	5.60	5.26	-35.63	-477.51	-7,662.19	7,666.18	7,655.32	10.86	706.104		
1,200.00	1,199.76	1,111.46	1,150.42	5.96	5.61	-35.65	-478.05	-7,662.81	7,664.42	7,652.86	11.56	662.996		
1,300.00	1,299.72	1,209.85	1,248.80	6.33	5.95	-35.66	-478.41	-7,663.44	7,662.67	7,650.39	12.28	624.225		
1,400.00	1,399.67	1,319.72	1,358.67	6.71	6.35	-35.68	-478.67	-7,664.06	7,660.83	7,647.78	13.05	587.018		
1,500.00	1,499.63	1,412.07	1,451.01	7.10	6.69	-35.69	-478.96	-7,664.59	7,659.01	7,645.24	13.78	555.950		
1,600.00	1,599.58	1,511.83	1,550.77	7.49	7.07	-35.71	-479.36	-7,665.19	7,657.23	7,642.69	14.54	526.553		
1,700.00	1,699.54	1,605.36	1,644.31	7.88	7.43	-35.72	-479.68	-7,665.81	7,655.51	7,640.22	15.29	500.528		
1,800.00	1,799.50	1,714.17	1,753.11	8.28	7.85	-35.74	-479.85	-7,666.53	7,653.76	7,637.65	16.12	474.930		
1,900.00	1,899.45	1,810.44	1,849.38	8.69	8.22	-35.75	-479.97	-7,667.14	7,652.00	7,635.11	16.90	452.894		
2,000.00	1,999.41	1,912.52	1,951.46	9.10	8.63	-35.76	-480.19	-7,667.77	7,650.22	7,632.52	17.71	432.080		
2,100.00	2,099.36	2,006.14	2,045.07	9.51	9.00	-35.78	-480.40	-7,668.40	7,648.50	7,630.01	18.49	413.707		
2,200.00	2,199.32	2,143.44	2,182.37	9.92	9.55	-35.80	-480.46	-7,668.94	7,646.46	7,627.01	19.45	393.147		
2,300.00	2,299.28	2,254.84	2,293.77	10.34	10.00	-35.81	-480.97	-7,669.11	7,644.24	7,623.92	20.31	376.346		
2,400.00	2,399.23	2,359.81	2,398.74	10.75	10.42	-35.83	-481.62	-7,669.06	7,641.83	7,620.67	21.15	361.287		
2,500.00	2,499.19	2,458.91	2,497.84	11.17	10.83	-35.85	-482.09	-7,669.05	7,639.45	7,617.47	21.97	347.697		
2,600.00	2,599.14	2,583.97	2,622.90	11.60	11.34	-35.87	-482.53	-7,668.90	7,636.95	7,614.05	22.90	333.511		
2,700.00	2,699.10	2,708.73	2,747.66	12.02	11.84	-35.89	-482.63	-7,668.29	7,634.06	7,610.24	23.83	320.404		
2,800.00	2,799.06	2,801.99	2,840.91	12.44	12.23	-35.90	-482.39	-7,667.77	7,631.08	7,606.45	24.63	309.831		
2,900.00	2,899.01	2,855.88	2,894.80	12.87	12.45	-35.90	-482.07	-7,667.66	7,628.44	7,603.16	25.28	301.799		
3,000.00	2,998.97	2,900.01	2,938.93	13.29	12.63	-35.90	-481.68	-7,667.82	7,626.40	7,600.51	25.88	294.641		
3,100.00	3,098.92	2,972.03	3,010.94	13.72	12.93	-35.91	-480.90	-7,668.48	7,624.87	7,598.27	26.61	286.572		
3,200.00	3,198.88	3,048.51	3,087.41	14.14	13.24	-35.91	-479.95	-7,669.59	7,623.83	7,596.48	27.35	278.747		
3,300.00	3,298.84	3,124.28	3,163.16	14.57	13.56	-35.91	-478.87	-7,670.84	7,622.99	7,594.90	28.09	271.360		
3,400.00	3,398.79	3,180.63	3,219.49	15.00	13.79	-35.91	-477.96	-7,672.07	7,622.65	7,593.90	28.75	265.111		
3,423.25	3,422.03	3,200.01	3,238.86	15.10	13.87	-35.91	-477.63	-7,672.57	7,622.66	7,593.73	28.93	263.461		
3,500.00	3,498.75	3,249.12	3,287.95	15.43	14.08	-35.91	-476.75	-7,673.94	7,622.84	7,593.37	29.47	258.707		
3,600.00	3,598.70	3,333.53	3,372.29	15.86	14.43	-35.91	-475.09	-7,676.52	7,623.34	7,593.10	30.25	252.047		
3,700.00	3,698.66	3,449.64	3,488.32	16.29	14.92	-35.90	-472.22	-7,680.10	7,623.85	7,592.69	31.16	244.647		
3,800.00	3,798.62	3,579.38	3,617.96	16.72	15.46	-35.89	-468.67	-7,683.66	7,624.00	7,591.86	32.14	237.222		
3,900.00	3,898.57	3,683.35	3,721.86	17.15	15.90	-35.88	-466.15	-7,686.25	7,623.91	7,590.91	33.01	230.987		
4,000.00	3,998.53	3,786.94	3,825.41	17.59	16.34	-35.88	-463.99	-7,688.78	7,623.81	7,589.94	33.87	225.077		
4,100.00	4,098.48	3,888.65	3,927.07	18.02	16.76	-35.87	-462.09	-7,691.21	7,623.66	7,588.93	34.73	219.507		
4,200.00	4,198.44	3,992.90	4,031.28	18.45	17.20	-35.88	-460.49	-7,693.64	7,623.48	7,587.88	35.60	214.136		
4,300.00	4,298.40	4,116.57	4,154.91	18.88	17.72	-35.88	-458.70	-7,696.30	7,623.12	7,586.57	36.55	208.543		
4,400.00	4,398.35	4,205.14	4,243.45	19.32	18.10	-35.88	-457.51	-7,698.15	7,622.71	7,585.35	37.36	204.038		
4,500.00	4,498.31	4,313.07	4,351.35	19.75	18.55	-35.88	-456.34	-7,700.38	7,622.29	7,584.04	38.25	199.291		
4,600.00	4,598.26	4,418.96	4,457.21	20.19	19.00	-35.89	-455.59	-7,702.45	7,621.79	7,582.66	39.13	194.798		
4,700.00	4,698.22	4,552.20	4,590.43	20.62	19.56	-35.90	-454.96	-7,704.74	7,621.09	7,580.97	40.12	189.945		
4,800.00	4,798.18	4,670.80	4,709.03	21.05	20.06	-35.91	-454.61	-7,706.21	7,619.88	7,578.83	41.06	185.594		
4,900.00	4,898.13	4,766.43	4,804.65	21.49	20.46	-35.92	-454.31	-7,707.37	7,618.67	7,576.78	41.89	181.853		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,000.00	4,998.09	4,873.94	4,912.15	21.92	20.92	-35.93	-453.98	-7,708.69	7,617.48	7,574.70	42.78	178.049		
5,100.00	5,098.04	4,977.05	5,015.25	22.36	21.36	-35.94	-453.59	-7,709.85	7,616.17	7,572.51	43.65	174.470		
5,200.00	5,198.00	5,087.31	5,125.50	22.79	21.82	-35.95	-453.10	-7,711.03	7,614.80	7,570.25	44.55	170.913		
5,300.00	5,297.96	5,184.69	5,222.87	23.23	22.23	-35.96	-452.70	-7,711.99	7,613.36	7,567.96	45.40	167.693		
5,400.00	5,397.91	5,289.49	5,327.67	23.67	22.68	-35.97	-452.39	-7,713.02	7,611.92	7,565.64	46.28	164.479		
5,500.00	5,497.87	5,460.60	5,498.78	24.10	23.40	-35.99	-451.46	-7,713.73	7,609.84	7,562.41	47.43	160.435		
5,600.00	5,597.82	5,547.82	5,585.99	24.54	23.77	-36.00	-450.85	-7,713.77	7,607.44	7,559.20	48.24	157.711		
5,700.00	5,697.78	5,628.04	5,666.21	24.97	24.11	-36.00	-450.57	-7,714.06	7,605.37	7,556.35	49.01	155.171		
5,800.00	5,797.74	5,727.85	5,766.03	25.41	24.53	-36.02	-450.26	-7,714.48	7,603.36	7,553.49	49.87	152.461		
5,900.00	5,897.69	5,819.04	5,857.21	25.85	24.92	-36.02	-449.91	-7,714.94	7,601.45	7,550.75	50.69	149.949		
6,000.00	5,997.65	5,913.47	5,951.64	26.28	25.32	-36.03	-449.50	-7,715.49	7,599.59	7,548.06	51.53	147.480		
6,100.00	6,097.60	5,989.39	6,027.55	26.72	25.64	-36.04	-449.25	-7,716.09	7,597.96	7,545.67	52.29	145.307		
6,200.00	6,197.56	6,102.47	6,140.63	27.16	26.12	-36.05	-449.06	-7,717.08	7,596.43	7,543.22	53.20	142.778		
6,300.00	6,297.52	6,171.21	6,209.37	27.59	26.42	-36.06	-448.98	-7,717.75	7,594.99	7,541.06	53.93	140.821		
6,400.00	6,397.47	6,257.56	6,295.71	28.03	26.78	-36.07	-448.97	-7,718.88	7,593.89	7,539.15	54.74	138.734		
6,500.00	6,497.43	6,356.16	6,394.30	28.47	27.20	-36.09	-449.18	-7,720.20	7,592.84	7,537.25	55.59	136.581		
6,600.00	6,597.38	6,474.61	6,512.75	28.90	27.71	-36.10	-449.52	-7,721.70	7,591.74	7,535.20	56.53	134.291		
6,700.00	6,697.08	6,589.06	6,627.18	29.34	28.19	-10.30	-450.09	-7,722.81	7,586.28	7,528.82	57.45	132.040		
6,800.00	6,794.63	6,675.88	6,714.00	29.79	28.56	-6.99	-450.73	-7,723.61	7,585.91	7,507.65	58.26	129.874		
6,900.00	6,887.62	6,750.43	6,788.54	30.24	28.88	-6.21	-451.66	-7,724.42	7,580.71	7,471.73	58.98	127.676		
7,000.00	6,973.77	6,820.64	6,858.74	30.70	29.18	-6.14	-452.64	-7,725.37	7,481.59	7,421.93	59.66	125.413		
7,100.00	7,050.94	6,892.33	6,930.41	31.20	29.49	-6.53	-453.53	-7,726.44	7,419.61	7,359.33	60.29	123.073		
7,200.00	7,117.24	6,939.94	6,978.01	31.77	29.69	-7.38	-454.02	-7,727.23	7,346.31	7,285.55	60.76	120.909		
7,300.00	7,171.03	6,977.47	7,015.53	32.46	29.85	-8.99	-454.35	-7,727.97	7,263.50	7,202.37	61.13	118.824		
7,400.00	7,211.00	7,008.59	7,046.64	33.29	29.98	-12.21	-454.59	-7,728.65	7,173.12	7,111.71	61.41	116.808		
7,500.00	7,236.16	7,035.32	7,073.37	34.29	30.09	-20.46	-454.77	-7,729.25	7,077.32	7,015.70	61.62	114.863		
7,600.00	7,245.89	7,047.05	7,085.09	35.43	30.14	-59.80	-454.84	-7,729.51	6,978.41	6,916.70	61.71	113.081		
7,700.00	7,245.73	7,049.12	7,087.16	36.72	30.15	-74.68	-454.85	-7,729.56	6,878.69	6,816.95	61.74	111.406		
7,800.00	7,245.42	7,051.04	7,089.08	38.18	30.16	-74.88	-454.86	-7,729.61	6,778.98	6,717.20	61.78	109.730		
7,900.00	7,245.10	7,052.97	7,091.01	39.80	30.17	-75.09	-454.87	-7,729.65	6,679.28	6,617.46	61.82	108.050		
8,000.00	7,244.79	7,054.89	7,092.93	41.54	30.18	-75.30	-454.88	-7,729.69	6,579.59	6,517.73	61.86	106.367		
8,100.00	7,244.48	7,056.82	7,094.86	43.41	30.19	-75.50	-454.89	-7,729.74	6,479.90	6,418.00	61.90	104.680		
8,200.00	7,244.17	7,058.75	7,096.79	45.38	30.19	-75.71	-454.90	-7,729.78	6,380.22	6,318.27	61.95	102.989		
8,300.00	7,243.86	7,060.69	7,098.73	47.44	30.20	-75.92	-454.91	-7,729.82	6,280.56	6,218.55	62.00	101.294		
8,400.00	7,243.55	7,062.62	7,100.66	49.58	30.21	-76.13	-454.92	-7,729.87	6,180.90	6,118.84	62.06	99.595		
8,500.00	7,243.23	7,064.56	7,102.60	51.78	30.22	-76.34	-454.93	-7,729.91	6,081.25	6,019.13	62.12	97.893		
8,600.00	7,242.92	7,066.50	7,104.54	54.05	30.23	-76.55	-454.94	-7,729.96	5,981.62	5,919.43	62.19	96.186		
8,700.00	7,242.61	7,068.45	7,106.48	56.37	30.24	-76.76	-454.95	-7,730.00	5,882.00	5,819.74	62.26	94.476		
8,800.00	7,242.30	7,070.39	7,108.43	58.74	30.24	-76.97	-454.96	-7,730.05	5,782.39	5,720.05	62.34	92.761		
8,900.00	7,241.99	7,072.34	7,110.38	61.16	30.25	-77.18	-454.97	-7,730.09	5,682.79	5,620.37	62.42	91.043		
9,000.00	7,241.67	7,074.29	7,112.33	63.61	30.26	-77.39	-454.98	-7,730.13	5,583.21	5,520.70	62.51	89.320		
9,100.00	7,241.36	7,076.24	7,114.28	66.09	30.27	-77.61	-454.98	-7,730.18	5,483.64	5,421.03	62.60	87.593		
9,200.00	7,241.05	7,078.20	7,116.23	68.60	30.28	-77.82	-454.99	-7,730.22	5,384.08	5,321.38	62.71	85.862		
9,300.00	7,240.74	7,080.16	7,118.19	71.13	30.29	-78.03	-455.00	-7,730.27	5,284.54	5,221.73	62.82	84.127		
9,400.00	7,240.43	7,082.12	7,120.15	73.70	30.29	-78.25	-455.01	-7,730.31	5,185.02	5,122.09	62.93	82.387		
9,500.00	7,240.11	7,084.08	7,122.11	76.28	30.30	-78.46	-455.02	-7,730.36	5,085.52	5,022.46	63.06	80.643		
9,600.00	7,239.80	7,086.05	7,124.08	78.88	30.31	-78.68	-455.02	-7,730.40	4,986.04	4,922.84	63.20	78.895		
9,700.00	7,239.49	7,088.01	7,126.05	81.50	30.32	-78.90	-455.03	-7,730.45	4,886.57	4,823.23	63.35	77.142		
9,800.00	7,239.18	7,089.98	7,128.02	84.13	30.33	-79.11	-455.04	-7,730.49	4,787.13	4,723.63	63.50	75.384		
9,900.00	7,238.87	7,091.96	7,129.99	86.78	30.34	-79.33	-455.05	-7,730.54	4,687.71	4,624.04	63.67	73.622		
10,000.00	7,238.55	7,093.93	7,131.96	89.44	30.34	-79.55	-455.05	-7,730.59	4,588.32	4,524.46	63.86	71.854		
10,100.00	7,238.24	7,095.91	7,133.94	92.11	30.35	-79.77	-455.06	-7,730.63	4,488.95	4,424.90	64.05	70.082		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,200.00	7,237.93	7,097.89	7,135.92	94.80	30.36	-79.99	-455.07	-7,730.68	4,389.61	4,325.34	64.27	68.305		
10,300.00	7,237.62	7,099.87	7,137.90	97.49	30.37	-80.21	-455.07	-7,730.72	4,290.30	4,225.80	64.49	66.522		
10,400.00	7,237.31	7,102.11	7,140.14	100.19	30.38	-80.46	-455.08	-7,730.77	4,191.02	4,126.27	64.74	64.734		
10,500.00	7,236.99	7,104.35	7,142.38	102.90	30.39	-80.71	-455.09	-7,730.82	4,091.77	4,026.76	65.01	62.941		
10,600.00	7,236.68	7,106.58	7,144.60	105.62	30.40	-80.96	-455.10	-7,730.88	3,992.56	3,927.26	65.30	61.142		
10,700.00	7,236.37	7,108.78	7,146.81	108.35	30.41	-81.20	-455.10	-7,730.93	3,893.39	3,827.78	65.61	59.339		
10,800.00	7,236.06	7,110.97	7,149.00	111.08	30.42	-81.45	-455.11	-7,730.98	3,794.27	3,728.31	65.95	57.530		
10,900.00	7,235.75	7,113.15	7,151.17	113.82	30.43	-81.69	-455.12	-7,731.02	3,695.18	3,628.86	66.32	55.717		
11,000.00	7,235.44	7,115.31	7,153.33	116.56	30.44	-81.93	-455.13	-7,731.07	3,596.15	3,529.43	66.72	53.898		
11,100.00	7,235.12	7,117.45	7,155.47	119.31	30.45	-82.17	-455.14	-7,731.12	3,497.17	3,430.02	67.16	52.075		
11,200.00	7,234.81	7,119.58	7,157.60	122.07	30.45	-82.41	-455.15	-7,731.17	3,398.26	3,330.63	67.63	50.247		
11,300.00	7,234.50	7,121.69	7,159.71	124.83	30.46	-82.65	-455.16	-7,731.22	3,299.40	3,231.25	68.15	48.415		
11,400.00	7,234.19	7,123.78	7,161.80	127.59	30.47	-82.89	-455.16	-7,731.26	3,200.62	3,131.90	68.71	46.579		
11,500.00	7,233.88	7,125.86	7,163.88	130.36	30.48	-83.12	-455.17	-7,731.31	3,101.91	3,032.58	69.33	44.740		
11,600.00	7,233.56	7,127.92	7,165.94	133.13	30.49	-83.35	-455.18	-7,731.35	3,003.28	2,933.27	70.01	42.898		
11,700.00	7,233.25	7,129.97	7,167.99	135.91	30.50	-83.58	-455.19	-7,731.40	2,904.75	2,834.00	70.75	41.054		
11,800.00	7,232.94	7,132.01	7,170.03	138.68	30.51	-83.81	-455.20	-7,731.44	2,806.32	2,734.75	71.57	39.209		
11,900.00	7,232.63	7,134.02	7,172.05	141.47	30.52	-84.04	-455.21	-7,731.49	2,708.01	2,635.53	72.48	37.364		
12,000.00	7,232.32	7,136.03	7,174.05	144.25	30.52	-84.27	-455.22	-7,731.53	2,609.82	2,536.34	73.47	35.521		
12,100.00	7,232.00	7,138.02	7,176.04	147.04	30.53	-84.49	-455.23	-7,731.58	2,511.77	2,437.19	74.58	33.681		
12,200.00	7,231.69	7,139.99	7,178.01	149.83	30.54	-84.72	-455.24	-7,731.62	2,413.88	2,338.08	75.80	31.846		
12,300.00	7,231.38	7,141.96	7,179.97	152.62	30.55	-84.94	-455.25	-7,731.66	2,316.17	2,239.01	77.16	30.018		
12,400.00	7,231.07	7,143.90	7,181.92	155.42	30.56	-85.16	-455.26	-7,731.70	2,218.66	2,139.99	78.67	28.201		
12,500.00	7,230.76	7,145.84	7,183.85	158.22	30.57	-85.38	-455.27	-7,731.74	2,121.39	2,041.02	80.37	26.396		
12,600.00	7,230.44	7,147.77	7,185.77	161.01	30.57	-85.60	-455.28	-7,731.78	2,024.37	1,942.11	82.26	24.608		
12,700.00	7,230.13	7,149.66	7,187.68	163.82	30.58	-85.82	-455.29	-7,731.83	1,927.66	1,843.27	84.39	22.841		
12,800.00	7,229.82	7,151.56	7,189.57	166.62	30.59	-86.03	-455.30	-7,731.87	1,831.30	1,744.51	86.80	21.099		
12,900.00	7,229.51	7,153.44	7,191.45	169.43	30.60	-86.25	-455.31	-7,731.91	1,735.35	1,645.84	89.51	19.387		
13,000.00	7,229.20	7,155.30	7,193.32	172.23	30.61	-86.46	-455.32	-7,731.95	1,639.89	1,547.29	92.60	17.710		
13,100.00	7,228.88	7,157.16	7,195.17	175.04	30.61	-86.67	-455.33	-7,731.98	1,544.99	1,448.88	96.11	16.075		
13,200.00	7,228.57	7,159.00	7,197.01	177.85	30.62	-86.88	-455.35	-7,732.02	1,450.78	1,350.65	100.13	14.489		
13,300.00	7,228.26	7,160.82	7,198.84	180.66	30.63	-87.09	-455.36	-7,732.06	1,357.39	1,252.64	104.75	12.958		
13,400.00	7,227.95	7,162.64	7,200.65	183.48	30.64	-87.30	-455.37	-7,732.10	1,265.02	1,154.93	110.09	11.491		
13,500.00	7,227.64	7,164.44	7,202.46	186.29	30.65	-87.50	-455.38	-7,732.14	1,173.89	1,057.61	116.28	10.095		
13,600.00	7,227.33	7,166.23	7,204.25	189.11	30.65	-87.71	-455.39	-7,732.17	1,084.32	960.83	123.49	8.780		
13,700.00	7,227.01	7,168.01	7,206.02	191.92	30.66	-87.91	-455.40	-7,732.21	996.74	864.81	131.93	7.555		
13,800.00	7,226.70	7,169.78	7,207.79	194.74	30.67	-88.11	-455.41	-7,732.25	911.71	769.90	141.81	6.429		
13,900.00	7,226.39	7,171.53	7,209.54	197.56	30.68	-88.31	-455.42	-7,732.28	830.02	676.64	153.38	5.411		
14,000.00	7,226.08	7,173.27	7,211.28	200.38	30.68	-88.51	-455.44	-7,732.32	752.76	585.92	166.84	4.512		
14,100.00	7,225.77	7,175.00	7,213.01	203.21	30.69	-88.71	-455.45	-7,732.35	681.43	499.21	182.22	3.740		
14,200.00	7,225.45	7,176.72	7,214.73	206.03	30.70	-88.90	-455.46	-7,732.39	618.10	418.90	199.20	3.103		
14,300.00	7,225.14	7,178.43	7,216.44	208.85	30.71	-89.10	-455.47	-7,732.42	565.46	348.78	216.68	2.610		
14,400.00	7,224.83	7,180.13	7,218.14	211.68	30.71	-89.29	-455.48	-7,732.46	526.72	294.20	232.52	2.265		
14,500.00	7,224.52	7,181.81	7,219.82	214.50	30.72	-89.49	-455.49	-7,732.49	505.09	261.45	243.64	2.073		
14,561.62	7,224.33	7,182.84	7,220.85	216.24	30.72	-89.60	-455.50	-7,732.51	501.32	254.42	246.90	2.030 CC, ES, SF		
14,600.00	7,224.21	7,183.48	7,221.49	217.33	30.73	-89.68	-455.51	-7,732.53	502.79	255.45	247.34	2.033		
14,700.00	7,223.89	7,185.15	7,223.16	220.16	30.73	-89.87	-455.52	-7,732.56	520.06	277.07	242.99	2.140		
14,800.00	7,223.58	7,186.80	7,224.81	222.98	30.74	-90.05	-455.53	-7,732.59	555.10	322.63	232.46	2.388		
14,900.00	7,223.27	7,211.98	7,226.04	225.81	30.85	-90.20	-455.54	-7,732.62	604.80	386.01	218.79	2.764		
14,987.41	7,223.00	7,210.54	7,227.49	228.28	30.84	-90.36	-455.55	-7,732.65	657.70	451.65	206.05	3.192		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	0.00	62.00	3.28	3.28	-113.68	-1,565.15	-3,568.18	3,896.85					
100.00	100.00	38.00	100.00	3.28	3.35	-113.68	-1,565.15	-3,568.18	3,896.36	3,889.72	6.63	587.587		
200.00	200.00	138.00	200.00	3.34	4.49	-113.68	-1,565.15	-3,568.18	3,896.36	3,888.52	7.83	497.553		
300.00	300.00	238.00	300.00	3.44	7.34	-113.68	-1,565.15	-3,568.18	3,896.36	3,885.57	10.78	361.377		
400.00	400.00	338.00	400.00	3.60	10.58	-113.68	-1,565.15	-3,568.18	3,896.36	3,882.18	14.18	274.799		
500.00	500.00	438.00	500.00	3.81	13.94	-113.68	-1,565.15	-3,568.18	3,896.36	3,878.61	17.74	219.605		
600.00	600.00	538.00	600.00	4.05	17.35	-113.68	-1,565.15	-3,568.18	3,896.36	3,874.96	21.40	182.113		
700.00	699.98	637.98	699.98	4.32	20.79	-55.72	-1,565.15	-3,568.18	3,895.39	3,870.29	25.10	155.186		
800.00	799.94	737.94	799.94	4.61	24.24	-55.75	-1,565.15	-3,568.18	3,893.72	3,864.88	28.84	134.988		
900.00	899.89	837.89	899.89	4.92	27.70	-55.79	-1,565.15	-3,568.18	3,892.05	3,859.43	32.62	119.315		
1,000.00	999.85	937.85	999.85	5.25	31.17	-55.83	-1,565.15	-3,568.18	3,890.39	3,853.97	36.42	106.823		
1,100.00	1,099.80	1,037.80	1,099.80	5.60	34.64	-55.86	-1,565.15	-3,568.18	3,888.72	3,848.48	40.24	96.645		
1,200.00	1,199.76	1,137.76	1,199.76	5.96	38.12	-55.90	-1,565.15	-3,568.18	3,887.06	3,842.98	44.07	88.200		
1,300.00	1,299.72	1,237.72	1,299.72	6.33	41.59	-55.93	-1,565.15	-3,568.18	3,885.39	3,837.47	47.92	81.086		
1,400.00	1,399.67	1,337.67	1,399.67	6.71	45.07	-55.97	-1,565.15	-3,568.18	3,883.73	3,831.96	51.77	75.014		
1,500.00	1,499.63	1,437.63	1,499.63	7.10	48.55	-56.01	-1,565.15	-3,568.18	3,882.07	3,826.43	55.64	69.773		
1,600.00	1,599.58	1,537.58	1,599.58	7.49	52.04	-56.04	-1,565.15	-3,568.18	3,880.41	3,820.90	59.51	65.205		
1,700.00	1,699.54	1,637.54	1,699.54	7.88	55.52	-56.08	-1,565.15	-3,568.18	3,878.75	3,815.37	63.39	61.190		
1,800.00	1,799.50	1,737.50	1,799.50	8.28	59.00	-56.12	-1,565.15	-3,568.18	3,877.10	3,809.83	67.27	57.633		
1,900.00	1,899.45	1,837.45	1,899.45	8.69	62.49	-56.15	-1,565.15	-3,568.18	3,875.45	3,804.28	71.16	54.461		
2,000.00	1,999.41	1,937.41	1,999.41	9.10	65.97	-56.19	-1,565.15	-3,568.18	3,873.79	3,798.74	75.05	51.615		
2,100.00	2,099.36	2,037.36	2,099.36	9.51	69.46	-56.22	-1,565.15	-3,568.18	3,872.14	3,793.20	78.95	49.047		
2,200.00	2,199.32	2,137.32	2,199.32	9.92	72.94	-56.26	-1,565.15	-3,568.18	3,870.49	3,787.65	82.84	46.720		
2,300.00	2,299.28	2,237.28	2,299.28	10.34	76.43	-56.30	-1,565.15	-3,568.18	3,868.85	3,782.10	86.75	44.600		
2,400.00	2,399.23	2,337.23	2,399.23	10.75	79.91	-56.33	-1,565.15	-3,568.18	3,867.20	3,776.55	90.65	42.662		
2,500.00	2,499.19	2,437.19	2,499.19	11.17	83.40	-56.37	-1,565.15	-3,568.18	3,865.55	3,771.00	94.55	40.883		
2,600.00	2,599.14	2,537.14	2,599.14	11.60	86.89	-56.41	-1,565.15	-3,568.18	3,863.91	3,765.45	98.46	39.244		
2,700.00	2,699.10	2,637.10	2,699.10	12.02	90.38	-56.44	-1,565.15	-3,568.18	3,862.27	3,759.90	102.37	37.730		
2,800.00	2,799.06	2,737.06	2,799.06	12.44	93.86	-56.48	-1,565.15	-3,568.18	3,860.63	3,754.35	106.28	36.326		
2,900.00	2,899.01	2,837.01	2,899.01	12.87	97.35	-56.52	-1,565.15	-3,568.18	3,858.99	3,748.81	110.19	35.022		
3,000.00	2,998.97	2,936.97	2,998.97	13.29	100.84	-56.55	-1,565.15	-3,568.18	3,857.36	3,743.26	114.10	33.807		
3,100.00	3,098.92	3,036.92	3,098.92	13.72	104.33	-56.59	-1,565.15	-3,568.18	3,855.72	3,737.71	118.01	32.673		
3,200.00	3,198.88	3,136.88	3,198.88	14.14	107.81	-56.63	-1,565.15	-3,568.18	3,854.09	3,732.16	121.92	31.610		
3,300.00	3,298.84	3,236.84	3,298.84	14.57	111.30	-56.66	-1,565.15	-3,568.18	3,852.46	3,726.62	125.84	30.614		
3,400.00	3,398.79	3,336.79	3,398.79	15.00	114.79	-56.70	-1,565.15	-3,568.18	3,850.83	3,721.07	129.76	29.678		
3,500.00	3,498.75	3,436.75	3,498.75	15.43	118.28	-56.74	-1,565.15	-3,568.18	3,849.20	3,715.53	133.67	28.796		
3,600.00	3,598.70	3,536.70	3,598.70	15.86	121.77	-56.78	-1,565.15	-3,568.18	3,847.57	3,709.98	137.59	27.964		
3,700.00	3,698.66	3,636.66	3,698.66	16.29	125.25	-56.81	-1,565.15	-3,568.18	3,845.94	3,704.44	141.51	27.179		
3,800.00	3,798.62	3,736.62	3,798.62	16.72	128.74	-56.85	-1,565.15	-3,568.18	3,844.32	3,698.90	145.42	26.435		
3,900.00	3,898.57	3,836.57	3,898.57	17.15	132.23	-56.89	-1,565.15	-3,568.18	3,842.70	3,693.36	149.34	25.731		
4,000.00	3,998.53	3,936.53	3,998.53	17.59	135.72	-56.92	-1,565.15	-3,568.18	3,841.08	3,687.82	153.26	25.062		
4,100.00	4,098.48	4,036.48	4,098.48	18.02	139.21	-56.96	-1,565.15	-3,568.18	3,839.46	3,682.28	157.18	24.427		
4,200.00	4,198.44	4,136.44	4,198.44	18.45	142.70	-57.00	-1,565.15	-3,568.18	3,837.84	3,676.74	161.10	23.823		
4,300.00	4,298.40	4,236.40	4,298.40	18.88	146.18	-57.03	-1,565.15	-3,568.18	3,836.23	3,671.21	165.02	23.247		
4,400.00	4,398.35	4,336.35	4,398.35	19.32	149.67	-57.07	-1,565.15	-3,568.18	3,834.61	3,665.67	168.94	22.698		
4,500.00	4,498.31	4,436.31	4,498.31	19.75	153.16	-57.11	-1,565.15	-3,568.18	3,833.00	3,660.14	172.86	22.174		
4,600.00	4,598.26	4,536.26	4,598.26	20.19	156.65	-57.15	-1,565.15	-3,568.18	3,831.39	3,654.61	176.78	21.673		
4,700.00	4,698.22	4,636.22	4,698.22	20.62	160.14	-57.18	-1,565.15	-3,568.18	3,829.78	3,649.07	180.71	21.194		
4,800.00	4,798.18	4,736.18	4,798.18	21.05	163.63	-57.22	-1,565.15	-3,568.18	3,828.17	3,643.55	184.63	20.735		
4,900.00	4,898.13	4,836.13	4,898.13	21.49	167.12	-57.26	-1,565.15	-3,568.18	3,826.57	3,638.02	188.55	20.295		
5,000.00	4,998.09	4,936.09	4,998.09	21.92	170.61	-57.30	-1,565.15	-3,568.18	3,824.96	3,632.49	192.47	19.873		
5,100.00	5,098.04	5,036.04	5,098.04	22.36	174.09	-57.33	-1,565.15	-3,568.18	3,823.36	3,626.96	196.39	19.468		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,198.00	5,136.00	5,198.00	22.79	177.58	-57.37	-1,565.15	-3,568.18	3,821.76	3,621.44	200.32	19.079		
5,300.00	5,297.96	5,235.96	5,297.96	23.23	181.07	-57.41	-1,565.15	-3,568.18	3,820.16	3,615.92	204.24	18.704		
5,400.00	5,397.91	5,335.91	5,397.91	23.67	184.56	-57.45	-1,565.15	-3,568.18	3,818.56	3,610.40	208.16	18.344		
5,500.00	5,497.87	5,435.87	5,497.87	24.10	188.05	-57.48	-1,565.15	-3,568.18	3,816.96	3,604.88	212.09	17.997		
5,600.00	5,597.82	5,535.82	5,597.82	24.54	191.54	-57.52	-1,565.15	-3,568.18	3,815.37	3,599.36	216.01	17.663		
5,700.00	5,697.78	5,635.78	5,697.78	24.97	195.03	-57.56	-1,565.15	-3,568.18	3,813.78	3,593.84	219.93	17.341		
5,800.00	5,797.74	5,735.74	5,797.74	25.41	198.52	-57.60	-1,565.15	-3,568.18	3,812.19	3,588.33	223.86	17.030		
5,900.00	5,897.69	5,835.69	5,897.69	25.85	202.01	-57.63	-1,565.15	-3,568.18	3,810.60	3,582.81	227.78	16.729		
6,000.00	5,997.65	5,935.65	5,997.65	26.28	205.49	-57.67	-1,565.15	-3,568.18	3,809.01	3,577.30	231.71	16.439		
6,100.00	6,097.60	6,035.60	6,097.60	26.72	208.98	-57.71	-1,565.15	-3,568.18	3,807.42	3,571.79	235.63	16.158		
6,200.00	6,197.56	6,135.56	6,197.56	27.16	212.47	-57.75	-1,565.15	-3,568.18	3,805.84	3,566.28	239.55	15.887		
6,300.00	6,297.52	6,235.52	6,297.52	27.59	215.96	-57.78	-1,565.15	-3,568.18	3,804.25	3,560.77	243.48	15.625		
6,400.00	6,397.47	6,335.47	6,397.47	28.03	219.45	-57.82	-1,565.15	-3,568.18	3,802.67	3,555.27	247.40	15.370		
6,500.00	6,497.43	6,435.43	6,497.43	28.47	222.94	-57.86	-1,565.15	-3,568.18	3,801.09	3,549.76	251.33	15.124		
6,600.00	6,597.38	6,535.38	6,597.38	28.90	226.43	-57.90	-1,565.15	-3,568.18	3,799.51	3,544.26	255.25	14.885		
6,700.00	6,697.08	6,635.08	6,697.08	29.34	229.91	-32.30	-1,565.15	-3,568.18	3,794.27	3,535.10	259.17	14.640		
6,800.00	6,794.63	6,732.63	6,794.63	29.79	233.31	-29.75	-1,565.15	-3,568.18	3,775.58	3,512.57	263.01	14.355		
6,900.00	6,887.62	6,825.62	6,887.62	30.24	236.56	-30.40	-1,565.15	-3,568.18	3,743.39	3,476.72	266.67	14.038		
7,000.00	6,973.77	6,911.77	6,973.77	30.70	239.57	-32.53	-1,565.15	-3,568.18	3,698.59	3,428.52	270.06	13.695		
7,100.00	7,050.94	6,988.94	7,050.94	31.20	242.26	-36.09	-1,565.15	-3,568.18	3,642.39	3,369.27	273.11	13.336		
7,200.00	7,117.24	7,055.24	7,117.24	31.77	244.58	-41.41	-1,565.15	-3,568.18	3,576.32	3,300.55	275.76	12.969		
7,300.00	7,171.03	7,109.03	7,171.03	32.46	246.45	-49.01	-1,565.15	-3,568.18	3,502.14	3,224.18	277.96	12.599		
7,400.00	7,211.00	7,149.00	7,211.00	33.29	247.85	-59.47	-1,565.15	-3,568.18	3,421.85	3,142.17	279.68	12.235		
7,500.00	7,236.16	7,174.16	7,236.16	34.29	248.73	-72.90	-1,565.15	-3,568.18	3,337.56	3,056.65	280.91	11.881		
7,600.00	7,245.89	7,183.89	7,245.89	35.43	249.07	-88.14	-1,565.15	-3,568.18	3,251.46	2,969.82	281.64	11.545		
7,700.00	7,245.73	7,183.73	7,245.73	36.72	249.06	-90.29	-1,565.15	-3,568.18	3,165.57	2,883.48	282.10	11.222		
7,800.00	7,245.42	7,183.42	7,245.42	38.18	249.05	-90.28	-1,565.15	-3,568.18	3,080.53	2,797.87	282.66	10.898		
7,900.00	7,245.10	7,183.10	7,245.10	39.80	249.04	-90.27	-1,565.15	-3,568.18	2,996.42	2,713.08	283.34	10.575		
8,000.00	7,244.79	7,182.79	7,244.79	41.54	249.03	-90.26	-1,565.15	-3,568.18	2,913.30	2,629.15	284.15	10.253		
8,100.00	7,244.48	7,182.48	7,244.48	43.41	249.02	-90.25	-1,565.15	-3,568.18	2,831.28	2,546.17	285.11	9.931		
8,200.00	7,244.17	7,182.17	7,244.17	45.38	249.01	-90.24	-1,565.15	-3,568.18	2,750.45	2,464.23	286.22	9.610		
8,300.00	7,243.86	7,181.86	7,243.86	47.44	249.00	-90.23	-1,565.15	-3,568.18	2,670.92	2,383.43	287.49	9.290		
8,400.00	7,243.55	7,181.55	7,243.55	49.58	248.98	-90.22	-1,565.15	-3,568.18	2,592.81	2,303.87	288.94	8.974		
8,500.00	7,243.23	7,181.23	7,243.23	51.78	248.97	-90.21	-1,565.15	-3,568.18	2,516.24	2,225.68	290.56	8.660		
8,600.00	7,242.92	7,180.92	7,242.92	54.05	248.96	-90.20	-1,565.15	-3,568.18	2,441.37	2,148.99	292.38	8.350		
8,700.00	7,242.61	7,180.61	7,242.61	56.37	248.95	-90.19	-1,565.15	-3,568.18	2,368.36	2,073.96	294.39	8.045		
8,800.00	7,242.30	7,180.30	7,242.30	58.74	248.94	-90.17	-1,565.15	-3,568.18	2,297.38	2,000.77	296.61	7.745		
8,900.00	7,241.99	7,179.99	7,241.99	61.16	248.93	-90.16	-1,565.15	-3,568.18	2,228.62	1,929.60	299.03	7.453		
9,000.00	7,241.67	7,179.67	7,241.67	63.61	248.92	-90.15	-1,565.15	-3,568.18	2,162.31	1,860.66	301.65	7.168		
9,100.00	7,241.36	7,179.36	7,241.36	66.09	248.91	-90.14	-1,565.15	-3,568.18	2,098.67	1,794.20	304.47	6.893		
9,200.00	7,241.05	7,179.05	7,241.05	68.60	248.90	-90.13	-1,565.15	-3,568.18	2,037.95	1,730.46	307.49	6.628		
9,300.00	7,240.74	7,178.74	7,240.74	71.13	248.89	-90.12	-1,565.15	-3,568.18	1,980.42	1,669.73	310.69	6.374		
9,400.00	7,240.43	7,178.43	7,240.43	73.70	248.88	-90.11	-1,565.15	-3,568.18	1,926.37	1,612.31	314.06	6.134		
9,500.00	7,240.11	7,178.11	7,240.11	76.28	248.86	-90.10	-1,565.15	-3,568.18	1,876.09	1,558.52	317.57	5.908		
9,600.00	7,239.80	7,177.80	7,239.80	78.88	248.85	-90.09	-1,565.15	-3,568.18	1,829.90	1,508.70	321.20	5.697		
9,700.00	7,239.49	7,177.49	7,239.49	81.50	248.84	-90.08	-1,565.15	-3,568.18	1,788.12	1,463.21	324.91	5.503		
9,800.00	7,239.18	7,177.18	7,239.18	84.13	248.83	-90.07	-1,565.15	-3,568.18	1,751.05	1,422.40	328.66	5.328		
9,900.00	7,238.87	7,176.87	7,238.87	86.78	248.82	-90.06	-1,565.15	-3,568.18	1,719.01	1,386.62	332.39	5.172		
10,000.00	7,238.55	7,176.55	7,238.55	89.44	248.81	-90.04	-1,565.15	-3,568.18	1,692.29	1,356.22	336.06	5.036		
10,100.00	7,238.24	7,176.24	7,238.24	92.11	248.80	-90.03	-1,565.15	-3,568.18	1,671.12	1,331.51	339.61	4.921		
10,200.00	7,237.93	7,175.93	7,237.93	94.80	248.79	-90.02	-1,565.15	-3,568.18	1,655.74	1,312.76	342.98	4.828		
10,300.00	7,237.62	7,175.62	7,237.62	97.49	248.78	-90.01	-1,565.15	-3,568.18	1,646.30	1,300.19	346.11	4.757		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	7,175.31	7,237.31	100.19	248.77	-90.00	-1,565.15	-3,568.18	1,642.90	1,293.94	348.96	4.708		
10,405.89	7,237.29	7,175.29	7,237.29	100.35	248.77	-90.00	-1,565.15	-3,568.18	1,642.89	1,293.78	349.12	4.706 CC, ES		
10,500.00	7,236.99	7,174.99	7,236.99	102.90	248.76	-89.99	-1,565.15	-3,568.18	1,645.58	1,294.10	351.48	4.682		
10,600.00	7,236.68	7,174.68	7,236.68	105.62	248.74	-89.98	-1,565.15	-3,568.18	1,654.32	1,300.66	353.66	4.678 SF		
10,700.00	7,236.37	7,174.37	7,236.37	108.35	248.73	-89.97	-1,565.15	-3,568.18	1,669.01	1,313.54	355.47	4.695		
10,800.00	7,236.06	7,174.06	7,236.06	111.08	248.72	-89.96	-1,565.15	-3,568.18	1,689.50	1,332.59	356.91	4.734		
10,900.00	7,235.75	7,173.75	7,235.75	113.82	248.71	-89.95	-1,565.15	-3,568.18	1,715.59	1,357.59	358.00	4.792		
11,000.00	7,235.44	7,173.44	7,235.44	116.56	248.70	-89.94	-1,565.15	-3,568.18	1,747.01	1,388.27	358.74	4.870		
11,100.00	7,235.12	7,173.12	7,235.12	119.31	248.69	-89.92	-1,565.15	-3,568.18	1,783.50	1,424.33	359.17	4.966		
11,200.00	7,234.81	7,172.81	7,234.81	122.07	248.68	-89.91	-1,565.15	-3,568.18	1,824.75	1,465.42	359.32	5.078		
11,300.00	7,234.50	7,172.50	7,234.50	124.83	248.67	-89.90	-1,565.15	-3,568.18	1,870.43	1,511.20	359.23	5.207		
11,400.00	7,234.19	7,172.19	7,234.19	127.59	248.66	-89.89	-1,565.15	-3,568.18	1,920.25	1,561.32	358.92	5.350		
11,500.00	7,233.88	7,171.88	7,233.88	130.36	248.65	-89.88	-1,565.15	-3,568.18	1,973.87	1,615.43	358.44	5.507		
11,600.00	7,233.56	7,171.56	7,233.56	133.13	248.64	-89.87	-1,565.15	-3,568.18	2,031.01	1,673.20	357.81	5.676		
11,700.00	7,233.25	7,171.25	7,233.25	135.91	248.63	-89.86	-1,565.15	-3,568.18	2,091.36	1,734.30	357.06	5.857		
11,800.00	7,232.94	7,170.94	7,232.94	138.68	248.61	-89.85	-1,565.15	-3,568.18	2,154.67	1,798.45	356.22	6.049		
11,900.00	7,232.63	7,170.63	7,232.63	141.47	248.60	-89.84	-1,565.15	-3,568.18	2,220.68	1,865.37	355.32	6.250		
12,000.00	7,232.32	7,170.32	7,232.32	144.25	248.59	-89.83	-1,565.15	-3,568.18	2,289.16	1,934.80	354.37	6.460		
12,100.00	7,232.00	7,170.00	7,232.00	147.04	248.58	-89.82	-1,565.15	-3,568.18	2,359.89	2,006.51	353.38	6.678		
12,200.00	7,231.69	7,169.69	7,231.69	149.83	248.57	-89.80	-1,565.15	-3,568.18	2,432.67	2,080.30	352.37	6.904		
12,300.00	7,231.38	7,169.38	7,231.38	152.62	248.56	-89.79	-1,565.15	-3,568.18	2,507.33	2,155.97	351.36	7.136		
12,400.00	7,231.07	7,169.07	7,231.07	155.42	248.55	-89.78	-1,565.15	-3,568.18	2,583.71	2,233.36	350.34	7.375		
12,500.00	7,230.76	7,168.76	7,230.76	158.22	248.54	-89.77	-1,565.15	-3,568.18	2,661.65	2,312.31	349.34	7.619		
12,600.00	7,230.44	7,168.44	7,230.44	161.01	248.53	-89.76	-1,565.15	-3,568.18	2,741.02	2,392.67	348.35	7.869		
12,700.00	7,230.13	7,168.13	7,230.13	163.82	248.52	-89.75	-1,565.15	-3,568.18	2,821.70	2,474.33	347.37	8.123		
12,800.00	7,229.82	7,167.82	7,229.82	166.62	248.51	-89.74	-1,565.15	-3,568.18	2,903.59	2,557.17	346.42	8.382		
12,900.00	7,229.51	7,167.51	7,229.51	169.43	248.49	-89.73	-1,565.15	-3,568.18	2,986.57	2,641.09	345.49	8.645		
13,000.00	7,229.20	7,167.20	7,229.20	172.23	248.48	-89.72	-1,565.15	-3,568.18	3,070.58	2,726.00	344.58	8.911		
13,100.00	7,228.88	7,166.88	7,228.88	175.04	248.47	-89.71	-1,565.15	-3,568.18	3,155.51	2,811.81	343.70	9.181		
13,200.00	7,228.57	7,166.57	7,228.57	177.85	248.46	-89.70	-1,565.15	-3,568.18	3,241.31	2,898.46	342.85	9.454		
13,300.00	7,228.26	7,166.26	7,228.26	180.66	248.45	-89.69	-1,565.15	-3,568.18	3,327.90	2,985.87	342.02	9.730		
13,400.00	7,227.95	7,165.95	7,227.95	183.48	248.44	-89.67	-1,565.15	-3,568.18	3,415.22	3,073.99	341.22	10.009		
13,500.00	7,227.64	7,165.64	7,227.64	186.29	248.43	-89.66	-1,565.15	-3,568.18	3,503.22	3,162.76	340.45	10.290		
13,600.00	7,227.33	7,165.33	7,227.33	189.11	248.42	-89.65	-1,565.15	-3,568.18	3,591.84	3,252.14	339.71	10.573		
13,700.00	7,227.01	7,165.01	7,227.01	191.92	248.41	-89.64	-1,565.15	-3,568.18	3,681.05	3,342.06	338.99	10.859		
13,800.00	7,226.70	7,164.70	7,226.70	194.74	248.40	-89.63	-1,565.15	-3,568.18	3,770.81	3,432.51	338.30	11.146		
13,900.00	7,226.39	7,164.39	7,226.39	197.56	248.39	-89.62	-1,565.15	-3,568.18	3,861.06	3,523.43	337.63	11.436		
14,000.00	7,226.08	7,164.08	7,226.08	200.38	248.37	-89.61	-1,565.15	-3,568.18	3,951.79	3,614.80	336.98	11.727		
14,100.00	7,225.77	7,163.77	7,225.77	203.21	248.36	-89.60	-1,565.15	-3,568.18	4,042.95	3,706.58	336.36	12.020		
14,200.00	7,225.45	7,163.45	7,225.45	206.03	248.35	-89.59	-1,565.15	-3,568.18	4,134.52	3,798.75	335.77	12.314		
14,300.00	7,225.14	7,163.14	7,225.14	208.85	248.34	-89.58	-1,565.15	-3,568.18	4,226.47	3,891.28	335.19	12.609		
14,400.00	7,224.83	7,162.83	7,224.83	211.68	248.33	-89.57	-1,565.15	-3,568.18	4,318.78	3,984.15	334.63	12.906		
14,500.00	7,224.52	7,162.52	7,224.52	214.50	248.32	-89.55	-1,565.15	-3,568.18	4,411.43	4,077.33	334.10	13.204		
14,600.00	7,224.21	7,162.21	7,224.21	217.33	248.31	-89.54	-1,565.15	-3,568.18	4,504.39	4,170.80	333.58	13.503		
14,700.00	7,223.89	7,161.89	7,223.89	220.16	248.30	-89.53	-1,565.15	-3,568.18	4,597.64	4,264.56	333.08	13.803		
14,800.00	7,223.58	7,161.58	7,223.58	222.98	248.29	-89.52	-1,565.15	-3,568.18	4,691.18	4,358.57	332.61	14.104		
14,900.00	7,223.27	7,161.27	7,223.27	225.81	248.28	-89.51	-1,565.15	-3,568.18	4,784.97	4,452.83	332.14	14.406		
14,987.41	7,223.00	7,161.00	7,223.00	228.28	248.27	-89.50	-1,565.15	-3,568.18	4,867.16	4,535.41	331.75	14.671		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	60.07	3.28	3.28	-92.21	-353.62	-9,145.08	9,152.12					
100.00	100.00	185.68	211.66	3.28	3.34	-92.21	-352.17	-9,143.51	9,150.98	9,144.35	6.62	1,381.790		
200.00	200.00	289.33	315.30	3.34	3.45	-92.20	-351.66	-9,142.19	9,149.68	9,142.89	6.79	1,348.046		
300.00	300.00	369.16	395.12	3.44	3.58	-92.20	-351.49	-9,141.29	9,148.54	9,141.52	7.02	1,303.470		
400.00	400.00	465.08	491.04	3.60	3.76	-92.20	-351.25	-9,140.32	9,147.52	9,140.16	7.36	1,242.271		
500.00	500.00	547.73	573.69	3.81	3.95	-92.20	-351.03	-9,139.57	9,146.60	9,138.85	7.75	1,179.488		
600.00	600.00	624.03	649.98	4.05	4.15	-92.20	-351.15	-9,139.04	9,145.92	9,137.73	8.19	1,116.888		
700.00	699.98	738.92	764.87	4.32	4.47	-34.23	-351.30	-9,138.46	9,144.03	9,135.25	8.78	1,041.439		
800.00	799.94	849.88	875.83	4.61	4.81	-34.24	-351.15	-9,137.61	9,140.81	9,131.39	9.41	970.913		
900.00	899.89	931.06	957.00	4.92	5.08	-34.24	-351.03	-9,137.02	9,137.62	9,127.62	9.99	914.407		
1,000.00	999.85	984.00	1,009.95	5.25	5.26	-34.25	-351.08	-9,136.72	9,134.70	9,124.20	10.50	869.730		
1,100.00	1,099.80	984.00	1,009.95	5.60	5.26	-34.25	-351.08	-9,136.72	9,132.68	9,121.83	10.85	841.735		
1,200.00	1,199.76	1,050.12	1,076.07	5.96	5.47	-34.26	-351.09	-9,137.01	9,130.92	9,119.49	11.43	799.073		
1,300.00	1,299.72	1,112.00	1,137.93	6.33	5.68	-34.26	-350.85	-9,138.39	9,130.43	9,118.43	12.00	760.580		
1,362.12	1,361.81	1,112.00	1,137.93	6.57	5.68	-34.26	-350.85	-9,138.39	9,130.22	9,117.98	12.24	746.043		
1,400.00	1,399.67	1,112.00	1,137.93	6.71	5.68	-34.26	-350.85	-9,138.39	9,130.30	9,117.91	12.38	737.386		
1,500.00	1,499.63	1,112.00	1,137.93	7.10	5.68	-34.26	-350.85	-9,138.39	9,131.26	9,118.49	12.77	715.275		
1,600.00	1,599.58	1,157.38	1,183.28	7.49	5.83	-34.27	-350.63	-9,140.13	9,132.87	9,119.56	13.31	686.352		
1,700.00	1,699.54	1,182.34	1,208.21	7.88	5.92	-34.27	-350.52	-9,141.38	9,135.38	9,121.60	13.78	662.748		
1,800.00	1,799.50	1,241.00	1,266.74	8.28	6.12	-34.27	-350.34	-9,145.11	9,138.97	9,124.59	14.38	635.473		
1,900.00	1,899.45	1,241.00	1,266.74	8.69	6.12	-34.27	-350.34	-9,145.11	9,142.90	9,128.12	14.78	618.560		
2,000.00	1,999.41	1,241.00	1,266.74	9.10	6.12	-34.27	-350.34	-9,145.11	9,147.92	9,132.73	15.18	602.539		
2,100.00	2,099.36	1,241.00	1,266.74	9.51	6.12	-34.27	-350.34	-9,145.11	9,154.02	9,138.44	15.58	587.368		
2,200.00	2,199.32	1,303.30	1,328.82	9.92	6.34	-34.28	-350.18	-9,150.35	9,160.32	9,144.11	16.21	565.126		
2,300.00	2,299.28	1,369.00	1,394.14	10.34	6.58	-34.28	-350.02	-9,157.37	9,168.21	9,151.36	16.85	544.092		
2,400.00	2,399.23	1,369.00	1,394.14	10.75	6.58	-34.28	-350.02	-9,157.37	9,176.18	9,158.93	17.25	531.810		
2,500.00	2,499.19	1,369.00	1,394.14	11.17	6.58	-34.28	-350.02	-9,157.37	9,185.24	9,167.58	17.66	520.168		
2,600.00	2,599.14	1,369.00	1,394.14	11.60	6.58	-34.28	-350.02	-9,157.37	9,195.37	9,177.31	18.06	509.131		
2,700.00	2,699.10	1,425.46	1,450.14	12.02	6.79	-34.28	-350.05	-9,164.54	9,205.91	9,187.23	18.67	492.987		
2,800.00	2,799.06	1,451.06	1,475.50	12.44	6.89	-34.29	-350.17	-9,168.11	9,217.44	9,198.27	19.17	480.778		
2,900.00	2,899.01	1,498.00	1,521.90	12.87	7.07	-34.29	-350.58	-9,175.18	9,229.86	9,210.11	19.75	467.255		
3,000.00	2,998.97	1,498.00	1,521.90	13.29	7.07	-34.29	-350.58	-9,175.18	9,242.89	9,222.74	20.15	458.672		
3,100.00	3,098.92	1,498.00	1,521.90	13.72	7.07	-34.29	-350.58	-9,175.18	9,256.98	9,236.43	20.55	450.521		
3,200.00	3,198.88	1,549.52	1,572.69	14.14	7.28	-34.30	-351.20	-9,183.76	9,271.53	9,250.38	21.15	438.450		
3,300.00	3,298.84	1,573.25	1,596.04	14.57	7.38	-34.30	-351.51	-9,188.00	9,287.05	9,265.42	21.63	429.284		
3,400.00	3,398.79	1,626.00	1,647.80	15.00	7.60	-34.31	-352.26	-9,198.12	9,303.56	9,281.32	22.24	418.341		
3,500.00	3,498.75	1,626.00	1,647.80	15.43	7.60	-34.31	-352.26	-9,198.12	9,320.49	9,297.87	22.63	411.922		
3,600.00	3,598.70	1,626.00	1,647.80	15.86	7.60	-34.31	-352.26	-9,198.12	9,338.47	9,315.46	23.01	405.818		
3,700.00	3,698.66	1,626.00	1,647.80	16.29	7.60	-34.31	-352.26	-9,198.12	9,357.47	9,334.08	23.39	400.013		
3,800.00	3,798.62	1,687.38	1,707.78	16.72	7.88	-34.32	-353.30	-9,211.10	9,376.62	9,352.58	24.03	390.159		
3,900.00	3,898.57	1,754.00	1,772.54	17.15	8.19	-34.33	-354.68	-9,226.70	9,397.39	9,372.69	24.70	380.488		
4,000.00	3,998.53	1,754.00	1,772.54	17.59	8.19	-34.33	-354.68	-9,226.70	9,418.13	9,393.06	25.07	375.639		
4,100.00	4,098.48	1,754.00	1,772.54	18.02	8.19	-34.33	-354.68	-9,226.70	9,439.89	9,414.44	25.44	371.025		
4,200.00	4,198.44	1,754.00	1,772.54	18.45	8.19	-34.33	-354.68	-9,226.70	9,462.65	9,436.84	25.81	366.635		
4,300.00	4,298.40	1,809.40	1,826.13	18.88	8.48	-34.34	-355.84	-9,240.71	9,485.85	9,459.43	26.42	358.987		
4,400.00	4,398.35	1,837.45	1,853.17	19.32	8.62	-34.34	-356.35	-9,248.10	9,509.90	9,482.99	26.91	353.353		
4,500.00	4,498.31	1,883.00	1,896.99	19.75	8.86	-34.35	-357.08	-9,260.53	9,534.71	9,507.22	27.48	346.939		
4,600.00	4,598.26	1,883.00	1,896.99	20.19	8.86	-34.35	-357.08	-9,260.53	9,560.12	9,532.28	27.84	343.436		
4,700.00	4,698.22	1,925.78	1,938.02	20.62	9.10	-34.35	-357.71	-9,272.65	9,586.21	9,557.82	28.39	337.638		
4,800.00	4,798.18	1,956.92	1,967.81	21.05	9.28	-34.36	-358.20	-9,281.70	9,612.98	9,584.09	28.89	332.742		
4,900.00	4,898.13	2,011.00	2,019.39	21.49	9.60	-34.37	-359.09	-9,297.90	9,640.49	9,610.99	29.50	326.803		
5,000.00	4,998.09	2,011.00	2,019.39	21.92	9.60	-34.37	-359.09	-9,297.90	9,668.49	9,638.65	29.84	324.003		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	5,098.04	2,066.14	2,071.84	22.36	9.94	-34.37	-360.02	-9,314.91	9,697.09	9,666.63	30.46	318.395		
5,200.00	5,198.00	2,109.95	2,113.42	22.79	10.22	-34.38	-360.76	-9,328.67	9,726.22	9,695.21	31.01	313.603		
5,300.00	5,297.96	5,300.00	2,381.18	23.23	32.19	-34.41	-364.71	-9,415.02	9,754.43	9,707.91	46.52	209.677		
5,400.00	5,397.91	2,465.25	2,451.76	23.67	12.60	-34.42	-365.88	-9,436.99	9,781.92	9,748.37	33.55	291.562		
5,500.00	5,497.87	2,525.00	2,508.67	24.10	13.01	-34.42	-366.68	-9,455.16	9,809.96	9,775.75	34.21	286.782		
5,600.00	5,597.82	2,566.67	2,548.30	24.54	13.31	-34.43	-367.12	-9,468.01	9,838.42	9,803.65	34.77	282.974		
5,700.00	5,697.78	2,624.71	2,603.45	24.97	13.73	-34.43	-367.47	-9,486.11	9,867.26	9,831.85	35.42	278.599		
5,800.00	5,797.74	2,653.00	2,630.30	25.41	13.94	-34.43	-367.53	-9,495.01	9,896.55	9,860.65	35.90	275.656		
5,900.00	5,897.69	2,701.09	2,675.86	25.85	14.30	-34.43	-367.56	-9,510.42	9,926.34	9,889.84	36.50	271.978		
6,000.00	5,997.65	2,732.74	2,705.76	26.28	14.54	-34.43	-367.56	-9,520.79	9,956.78	9,919.78	37.00	269.120		
6,100.00	6,097.60	3,006.82	2,965.47	26.72	16.62	-34.45	-370.31	-9,608.21	9,985.80	9,946.92	38.88	256.833		
7,100.00	7,050.94	6,911.74	6,763.75	31.20	39.29	-4.49	-390.76	-10,302.63	9,990.36	9,928.97	61.39	162.738		
7,200.00	7,117.24	6,965.10	6,817.07	31.77	39.48	-4.93	-391.92	-10,304.15	9,917.74	9,855.85	61.89	160.252		
7,300.00	7,171.03	7,009.06	6,861.00	32.46	39.64	-5.85	-392.98	-10,305.46	9,835.38	9,773.09	62.29	157.907		
7,400.00	7,211.00	7,056.67	6,908.57	33.29	39.81	-7.78	-394.15	-10,306.90	9,745.24	9,682.62	62.63	155.606		
7,500.00	7,236.16	7,091.79	6,943.67	34.29	39.93	-12.79	-394.87	-10,307.94	9,649.49	9,586.63	62.86	153.510		
7,600.00	7,245.89	7,107.60	6,959.48	35.43	39.99	-42.25	-395.15	-10,308.40	9,550.51	9,487.55	62.97	151.680		
7,700.00	7,245.73	7,111.06	6,962.93	36.72	40.00	-58.97	-395.21	-10,308.50	9,450.65	9,387.65	63.00	150.016		
7,800.00	7,245.42	7,114.31	6,966.18	38.18	40.02	-59.30	-395.27	-10,308.60	9,350.79	9,287.76	63.03	148.355		
7,900.00	7,245.10	7,117.54	6,969.41	39.80	40.03	-59.63	-395.32	-10,308.69	9,250.93	9,187.86	63.06	146.691		
8,000.00	7,244.79	7,120.76	6,972.63	41.54	40.04	-59.96	-395.37	-10,308.78	9,151.07	9,087.97	63.10	145.025		
8,100.00	7,244.48	7,123.97	6,975.84	43.41	40.05	-60.29	-395.42	-10,308.88	9,051.21	8,988.07	63.14	143.356		
8,200.00	7,244.17	7,127.17	6,979.03	45.38	40.06	-60.62	-395.47	-10,308.97	8,951.35	8,888.18	63.18	141.685		
8,300.00	7,243.86	7,130.35	6,982.21	47.44	40.07	-60.96	-395.52	-10,309.06	8,851.50	8,788.28	63.22	140.012		
8,400.00	7,243.55	7,133.52	6,985.38	49.58	40.09	-61.29	-395.56	-10,309.15	8,751.65	8,688.39	63.26	138.336		
8,500.00	7,243.23	7,136.68	6,988.53	51.78	40.10	-61.62	-395.61	-10,309.24	8,651.80	8,588.49	63.31	136.658		
8,600.00	7,242.92	7,139.82	6,991.68	54.05	40.11	-61.96	-395.65	-10,309.33	8,551.96	8,488.60	63.36	134.978		
8,700.00	7,242.61	7,142.95	6,994.81	56.37	40.12	-62.29	-395.70	-10,309.42	8,452.12	8,388.71	63.41	133.296		
8,800.00	7,242.30	7,146.07	6,997.92	58.74	40.13	-62.63	-395.74	-10,309.51	8,352.28	8,288.81	63.46	131.612		
8,900.00	7,241.99	7,150.55	7,002.40	61.16	40.15	-63.11	-395.80	-10,309.64	8,252.44	8,188.92	63.52	129.916		
9,000.00	7,241.67	7,155.50	7,007.35	63.61	40.17	-63.65	-395.86	-10,309.78	8,152.61	8,089.02	63.58	128.216		
9,100.00	7,241.36	7,160.35	7,012.19	66.09	40.18	-64.19	-395.92	-10,309.91	8,052.77	7,989.12	63.65	126.515		
9,200.00	7,241.05	7,165.09	7,016.93	68.60	40.20	-64.71	-395.98	-10,310.04	7,952.94	7,889.23	63.72	124.814		
9,300.00	7,240.74	7,169.72	7,021.56	71.13	40.22	-65.23	-396.04	-10,310.17	7,853.12	7,789.33	63.79	123.111		
9,400.00	7,240.43	7,174.25	7,026.09	73.70	40.23	-65.74	-396.09	-10,310.29	7,753.29	7,689.43	63.86	121.408		
9,500.00	7,240.11	7,178.68	7,030.52	76.28	40.25	-66.25	-396.15	-10,310.41	7,653.48	7,589.54	63.94	119.704		
9,600.00	7,239.80	7,183.02	7,034.85	78.88	40.26	-66.75	-396.20	-10,310.53	7,553.66	7,489.64	64.01	117.999		
9,700.00	7,239.49	7,187.27	7,039.10	81.50	40.28	-67.24	-396.25	-10,310.64	7,453.85	7,389.75	64.10	116.293		
9,800.00	7,239.18	7,191.42	7,043.25	84.13	40.29	-67.72	-396.30	-10,310.75	7,354.04	7,289.86	64.18	114.586		
9,900.00	7,238.87	7,195.50	7,047.32	86.78	40.31	-68.20	-396.35	-10,310.85	7,254.23	7,189.97	64.27	112.878		
10,000.00	7,238.55	7,199.48	7,051.31	89.44	40.32	-68.67	-396.39	-10,310.96	7,154.43	7,090.07	64.36	111.169		
10,100.00	7,238.24	7,203.39	7,055.22	92.11	40.34	-69.13	-396.43	-10,311.05	7,054.63	6,990.18	64.45	109.459		
10,200.00	7,237.93	7,207.22	7,059.04	94.80	40.35	-69.59	-396.48	-10,311.15	6,954.84	6,890.29	64.55	107.748		
10,300.00	7,237.62	7,210.97	7,062.80	97.49	40.36	-70.04	-396.52	-10,311.24	6,855.05	6,790.41	64.65	106.037		
10,400.00	7,237.31	7,214.65	7,066.47	100.19	40.38	-70.48	-396.56	-10,311.34	6,755.27	6,690.52	64.75	104.324		
10,500.00	7,236.99	7,218.26	7,070.08	102.90	40.39	-70.92	-396.60	-10,311.42	6,655.50	6,590.63	64.86	102.610		
10,600.00	7,236.68	7,221.80	7,073.62	105.62	40.40	-71.35	-396.63	-10,311.51	6,555.72	6,490.75	64.98	100.895		
10,700.00	7,236.37	7,225.27	7,077.08	108.35	40.42	-71.77	-396.67	-10,311.59	6,455.96	6,390.86	65.09	99.178		
10,800.00	7,236.06	7,228.67	7,080.49	111.08	40.43	-72.19	-396.70	-10,311.67	6,356.20	6,290.98	65.22	97.461		
10,900.00	7,235.75	7,232.01	7,083.83	113.82	40.44	-72.60	-396.74	-10,311.75	6,256.45	6,191.10	65.35	95.742		
11,000.00	7,235.44	7,235.29	7,087.10	116.56	40.45	-73.01	-396.77	-10,311.83	6,156.70	6,091.22	65.48	94.022		
11,100.00	7,235.12	7,238.51	7,090.32	119.31	40.46	-73.41	-396.80	-10,311.91	6,056.96	5,991.34	65.62	92.301		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
11,200.00	7,234.81	7,241.66	7,093.48	122.07	40.47	-73.81	-396.83	-10,311.98	5,957.23	5,891.46	65.77	90.579		
11,300.00	7,234.50	7,244.77	7,096.58	124.83	40.49	-74.19	-396.86	-10,312.05	5,857.51	5,791.59	65.92	88.855		
11,400.00	7,234.19	7,247.81	7,099.62	127.59	40.50	-74.58	-396.89	-10,312.12	5,757.80	5,691.71	66.08	87.130		
11,500.00	7,233.88	7,250.80	7,102.61	130.36	40.51	-74.96	-396.92	-10,312.19	5,658.09	5,591.84	66.25	85.404		
11,600.00	7,233.56	7,253.74	7,105.55	133.13	40.52	-75.33	-396.95	-10,312.25	5,558.40	5,491.97	66.43	83.676		
11,700.00	7,233.25	7,256.63	7,108.44	135.91	40.53	-75.70	-396.97	-10,312.32	5,458.71	5,392.10	66.61	81.946		
11,800.00	7,232.94	7,259.47	7,111.28	138.68	40.54	-76.06	-397.00	-10,312.38	5,359.04	5,292.23	66.81	80.215		
11,900.00	7,232.63	7,262.26	7,114.07	141.47	40.55	-76.42	-397.03	-10,312.44	5,259.38	5,192.36	67.01	78.483		
12,000.00	7,232.32	7,265.00	7,116.81	144.25	40.56	-76.77	-397.05	-10,312.50	5,159.72	5,092.50	67.23	76.749		
12,100.00	7,232.00	7,267.70	7,119.50	147.04	40.57	-77.12	-397.07	-10,312.56	5,060.09	4,992.63	67.46	75.014		
12,200.00	7,231.69	7,270.35	7,122.15	149.83	40.58	-77.46	-397.10	-10,312.61	4,960.46	4,892.77	67.70	73.276		
12,300.00	7,231.38	7,272.95	7,124.76	152.62	40.59	-77.80	-397.12	-10,312.67	4,860.85	4,792.90	67.95	71.538		
12,400.00	7,231.07	7,275.52	7,127.32	155.42	40.60	-78.13	-397.14	-10,312.72	4,761.26	4,693.04	68.22	69.797		
12,500.00	7,230.76	7,278.04	7,129.84	158.22	40.61	-78.46	-397.16	-10,312.78	4,661.68	4,593.18	68.50	68.055		
12,600.00	7,230.44	7,280.52	7,132.32	161.01	40.61	-78.78	-397.18	-10,312.83	4,562.12	4,493.32	68.80	66.311		
12,700.00	7,230.13	7,282.96	7,134.76	163.82	40.62	-79.10	-397.20	-10,312.88	4,462.57	4,393.46	69.12	64.566		
12,800.00	7,229.82	7,285.36	7,137.17	166.62	40.63	-79.41	-397.22	-10,312.93	4,363.05	4,293.60	69.45	62.818		
12,900.00	7,229.51	7,287.73	7,139.53	169.43	40.64	-79.72	-397.24	-10,312.98	4,263.55	4,193.74	69.81	61.070		
13,000.00	7,229.20	7,290.06	7,141.86	172.23	40.65	-80.03	-397.26	-10,313.02	4,164.07	4,093.88	70.20	59.320		
13,100.00	7,228.88	7,292.35	7,144.15	175.04	40.66	-80.33	-397.28	-10,313.07	4,064.62	3,994.01	70.61	57.568		
13,200.00	7,228.57	7,294.60	7,146.40	177.85	40.66	-80.63	-397.30	-10,313.12	3,965.19	3,894.15	71.04	55.815		
13,300.00	7,228.26	7,296.82	7,148.62	180.66	40.67	-80.92	-397.31	-10,313.16	3,865.79	3,794.29	71.51	54.061		
13,400.00	7,227.95	7,299.01	7,150.81	183.48	40.68	-81.21	-397.33	-10,313.20	3,766.43	3,694.42	72.01	52.305		
13,500.00	7,227.64	7,301.17	7,152.96	186.29	40.69	-81.49	-397.35	-10,313.25	3,667.09	3,594.55	72.54	50.549		
13,600.00	7,227.33	7,302.86	7,154.66	189.11	40.69	-81.72	-397.37	-10,313.28	3,567.80	3,494.68	73.12	48.793		
13,700.00	7,227.01	7,304.92	7,156.72	191.92	40.70	-81.99	-397.39	-10,313.32	3,468.54	3,394.80	73.74	47.037		
13,800.00	7,226.70	7,306.95	7,158.75	194.74	40.71	-82.26	-397.41	-10,313.36	3,369.32	3,294.91	74.41	45.280		
13,900.00	7,226.39	7,308.95	7,160.75	197.56	40.71	-82.53	-397.42	-10,313.40	3,270.16	3,195.02	75.13	43.525		
14,000.00	7,226.08	7,310.92	7,162.72	200.38	40.72	-82.79	-397.44	-10,313.43	3,171.04	3,095.12	75.92	41.771		
14,100.00	7,225.77	7,312.87	7,164.66	203.21	40.73	-83.05	-397.46	-10,313.47	3,071.98	2,995.21	76.76	40.019		
14,200.00	7,225.45	7,314.78	7,166.58	206.03	40.73	-83.31	-397.47	-10,313.51	2,972.98	2,895.29	77.69	38.269		
14,300.00	7,225.14	7,316.67	7,168.47	208.85	40.74	-83.56	-397.49	-10,313.54	2,874.05	2,795.36	78.69	36.524		
14,400.00	7,224.83	7,318.54	7,170.33	211.68	40.75	-83.81	-397.50	-10,313.58	2,775.19	2,695.41	79.79	34.783		
14,500.00	7,224.52	7,320.37	7,172.16	214.50	40.75	-84.05	-397.52	-10,313.61	2,676.42	2,595.44	80.98	33.049		
14,600.00	7,224.21	7,322.18	7,173.98	217.33	40.76	-84.30	-397.53	-10,313.64	2,577.74	2,495.45	82.30	31.322		
14,700.00	7,223.89	7,323.97	7,175.76	220.16	40.77	-84.54	-397.55	-10,313.68	2,479.17	2,395.43	83.74	29.605		
14,800.00	7,223.58	7,325.73	7,177.52	222.98	40.77	-84.77	-397.56	-10,313.71	2,380.71	2,295.38	85.33	27.899		
14,900.00	7,223.27	7,327.47	7,179.26	225.81	40.78	-85.01	-397.58	-10,313.74	2,282.39	2,195.30	87.09	26.207		
14,987.41	7,223.00	7,328.97	7,180.76	228.28	40.78	-85.21	-397.59	-10,313.77	2,196.57	2,107.79	88.78	24.741	CC, ES, SF	



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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	39.00	3.28	3.28	-91.87	-299.21	-9,148.06	9,153.04					
100.00	100.00	61.00	100.00	3.28	3.45	-91.87	-299.21	-9,148.06	9,152.95	9,146.22	6.73	1,359.373		
200.00	200.00	161.00	200.00	3.34	5.08	-91.87	-299.21	-9,148.06	9,152.95	9,144.54	8.41	1,087.843		
300.00	300.00	261.00	300.00	3.44	8.06	-91.87	-299.21	-9,148.06	9,152.95	9,141.44	11.51	795.342		
400.00	400.00	361.00	400.00	3.60	11.34	-91.87	-299.21	-9,148.06	9,152.95	9,138.01	14.94	612.443		
500.00	500.00	461.00	500.00	3.81	14.72	-91.87	-299.21	-9,148.06	9,152.95	9,134.43	18.52	494.109		
600.00	600.00	561.00	600.00	4.05	18.14	-91.87	-299.21	-9,148.06	9,152.95	9,130.77	22.18	412.586		
700.00	699.98	660.98	699.98	4.32	21.58	-33.89	-299.21	-9,148.06	9,151.54	9,125.64	25.89	353.410		
800.00	799.94	760.94	799.94	4.61	25.03	-33.90	-299.21	-9,148.06	9,149.07	9,119.43	29.64	308.665		
900.00	899.89	860.89	899.89	4.92	28.50	-33.91	-299.21	-9,148.06	9,146.61	9,113.19	33.42	273.710		
1,000.00	999.85	960.85	999.85	5.25	31.97	-33.92	-299.21	-9,148.06	9,144.15	9,106.93	37.22	245.697		
1,100.00	1,099.80	1,060.80	1,099.80	5.60	35.44	-33.93	-299.21	-9,148.06	9,141.69	9,100.65	41.04	222.772		
1,200.00	1,199.76	1,160.76	1,199.76	5.96	38.92	-33.94	-299.21	-9,148.06	9,139.22	9,094.35	44.87	203.681		
1,300.00	1,299.72	1,260.72	1,299.72	6.33	42.39	-33.95	-299.21	-9,148.06	9,136.76	9,088.05	48.72	187.549		
1,400.00	1,399.67	1,360.67	1,399.67	6.71	45.87	-33.96	-299.21	-9,148.06	9,134.30	9,081.73	52.57	173.744		
1,500.00	1,499.63	1,460.63	1,499.63	7.10	49.35	-33.97	-299.21	-9,148.06	9,131.84	9,075.40	56.44	161.801		
1,600.00	1,599.58	1,560.58	1,599.58	7.49	52.84	-33.98	-299.21	-9,148.06	9,129.38	9,069.07	60.31	151.372		
1,700.00	1,699.54	1,660.54	1,699.54	7.88	56.32	-33.99	-299.21	-9,148.06	9,126.92	9,062.73	64.19	142.188		
1,800.00	1,799.50	1,760.50	1,799.50	8.28	59.80	-34.01	-299.21	-9,148.06	9,124.46	9,056.39	68.07	134.040		
1,900.00	1,899.45	1,860.45	1,899.45	8.69	63.29	-34.02	-299.21	-9,148.06	9,122.00	9,050.04	71.96	126.764		
2,000.00	1,999.41	1,960.41	1,999.41	9.10	66.77	-34.03	-299.21	-9,148.06	9,119.54	9,043.69	75.85	120.228		
2,100.00	2,099.36	2,060.36	2,099.36	9.51	70.26	-34.04	-299.21	-9,148.06	9,117.08	9,037.33	79.75	114.325		
2,200.00	2,199.32	2,160.32	2,199.32	9.92	73.74	-34.05	-299.21	-9,148.06	9,114.62	9,030.98	83.64	108.968		
2,300.00	2,299.28	2,260.28	2,299.28	10.34	77.23	-34.06	-299.21	-9,148.06	9,112.16	9,024.62	87.55	104.085		
2,400.00	2,399.23	2,360.23	2,399.23	10.75	80.72	-34.07	-299.21	-9,148.06	9,109.70	9,018.26	91.45	99.616		
2,500.00	2,499.19	2,460.19	2,499.19	11.17	84.20	-34.08	-299.21	-9,148.06	9,107.25	9,011.89	95.35	95.511		
2,600.00	2,599.14	2,560.14	2,599.14	11.60	87.69	-34.09	-299.21	-9,148.06	9,104.79	9,005.53	99.26	91.728		
2,700.00	2,699.10	2,660.10	2,699.10	12.02	91.18	-34.10	-299.21	-9,148.06	9,102.33	8,999.16	103.17	88.229		
2,800.00	2,799.06	2,760.06	2,799.06	12.44	94.67	-34.11	-299.21	-9,148.06	9,099.87	8,992.80	107.08	84.985		
2,900.00	2,899.01	2,860.01	2,899.01	12.87	98.15	-34.12	-299.21	-9,148.06	9,097.42	8,986.43	110.99	81.969		
3,000.00	2,998.97	2,959.97	2,998.97	13.29	101.64	-34.13	-299.21	-9,148.06	9,094.96	8,980.06	114.90	79.157		
3,100.00	3,098.92	3,059.92	3,098.92	13.72	105.13	-34.14	-299.21	-9,148.06	9,092.51	8,973.69	118.81	76.529		
3,200.00	3,198.88	3,159.88	3,198.88	14.14	108.62	-34.15	-299.21	-9,148.06	9,090.05	8,967.32	122.72	74.069		
3,300.00	3,298.84	3,259.84	3,298.84	14.57	112.10	-34.16	-299.21	-9,148.06	9,087.59	8,960.95	126.64	71.760		
3,400.00	3,398.79	3,359.79	3,398.79	15.00	115.59	-34.17	-299.21	-9,148.06	9,085.14	8,954.58	130.55	69.589		
3,500.00	3,498.75	3,459.75	3,498.75	15.43	119.08	-34.18	-299.21	-9,148.06	9,082.68	8,948.21	134.47	67.544		
3,600.00	3,598.70	3,559.70	3,598.70	15.86	122.57	-34.19	-299.21	-9,148.06	9,080.23	8,941.84	138.39	65.614		
3,700.00	3,698.66	3,659.66	3,698.66	16.29	126.06	-34.20	-299.21	-9,148.06	9,077.77	8,935.47	142.31	63.791		
3,800.00	3,798.62	3,759.62	3,798.62	16.72	129.54	-34.21	-299.21	-9,148.06	9,075.32	8,929.10	146.22	62.065		
3,900.00	3,898.57	3,859.57	3,898.57	17.15	133.03	-34.23	-299.21	-9,148.06	9,072.87	8,922.73	150.14	60.429		
4,000.00	3,998.53	3,959.53	3,998.53	17.59	136.52	-34.24	-299.21	-9,148.06	9,070.41	8,916.35	154.06	58.876		
4,100.00	4,098.48	4,059.48	4,098.48	18.02	140.01	-34.25	-299.21	-9,148.06	9,067.96	8,909.98	157.98	57.399		
4,200.00	4,198.44	4,159.44	4,198.44	18.45	143.50	-34.26	-299.21	-9,148.06	9,065.51	8,903.61	161.90	55.995		
4,300.00	4,298.40	4,259.40	4,298.40	18.88	146.99	-34.27	-299.21	-9,148.06	9,063.06	8,897.24	165.82	54.656		
4,400.00	4,398.35	4,359.35	4,398.35	19.32	150.48	-34.28	-299.21	-9,148.06	9,060.60	8,890.86	169.74	53.379		
4,500.00	4,498.31	4,459.31	4,498.31	19.75	153.96	-34.29	-299.21	-9,148.06	9,058.15	8,884.49	173.66	52.160		
4,600.00	4,598.26	4,559.26	4,598.26	20.19	157.45	-34.30	-299.21	-9,148.06	9,055.70	8,878.12	177.58	50.994		
4,700.00	4,698.22	4,659.22	4,698.22	20.62	160.94	-34.31	-299.21	-9,148.06	9,053.25	8,871.74	181.50	49.879		
4,800.00	4,798.18	4,759.18	4,798.18	21.05	164.43	-34.32	-299.21	-9,148.06	9,050.80	8,865.37	185.43	48.811		
4,900.00	4,898.13	4,859.13	4,898.13	21.49	167.92	-34.33	-299.21	-9,148.06	9,048.35	8,859.00	189.35	47.787		
5,000.00	4,998.09	4,959.09	4,998.09	21.92	171.41	-34.34	-299.21	-9,148.06	9,045.90	8,852.63	193.27	46.804		
5,100.00	5,098.04	5,059.04	5,098.04	22.36	174.90	-34.35	-299.21	-9,148.06	9,043.45	8,846.25	197.19	45.861		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
5,200.00	5,198.00	5,159.00	5,198.00	22.79	178.39	-34.36	-299.21	-9,148.06	9,041.00	8,839.88	201.12	44.954		
5,300.00	5,297.96	5,258.96	5,297.96	23.23	181.87	-34.37	-299.21	-9,148.06	9,038.55	8,833.51	205.04	44.082		
5,400.00	5,397.91	5,358.91	5,397.91	23.67	185.36	-34.38	-299.21	-9,148.06	9,036.10	8,827.14	208.96	43.243		
5,500.00	5,497.87	5,458.87	5,497.87	24.10	188.85	-34.39	-299.21	-9,148.06	9,033.65	8,820.77	212.88	42.434		
5,600.00	5,597.82	5,558.82	5,597.82	24.54	192.34	-34.41	-299.21	-9,148.06	9,031.20	8,814.39	216.81	41.655		
5,700.00	5,697.78	5,658.78	5,697.78	24.97	195.83	-34.42	-299.21	-9,148.06	9,028.75	8,808.02	220.73	40.904		
5,800.00	5,797.74	5,758.74	5,797.74	25.41	199.32	-34.43	-299.21	-9,148.06	9,026.31	8,801.65	224.66	40.178		
5,900.00	5,897.69	5,858.69	5,897.69	25.85	202.81	-34.44	-299.21	-9,148.06	9,023.86	8,795.28	228.58	39.478		
6,000.00	5,997.65	5,958.65	5,997.65	26.28	206.30	-34.45	-299.21	-9,148.06	9,021.41	8,788.91	232.50	38.801		
6,100.00	6,097.60	6,058.60	6,097.60	26.72	209.79	-34.46	-299.21	-9,148.06	9,018.96	8,782.54	236.43	38.147		
6,200.00	6,197.56	6,158.56	6,197.56	27.16	213.28	-34.47	-299.21	-9,148.06	9,016.52	8,776.17	240.35	37.514		
6,300.00	6,297.52	6,258.52	6,297.52	27.59	216.76	-34.48	-299.21	-9,148.06	9,014.07	8,769.79	244.28	36.901		
6,400.00	6,397.47	6,358.47	6,397.47	28.03	220.25	-34.49	-299.21	-9,148.06	9,011.63	8,763.42	248.20	36.308		
6,500.00	6,497.43	6,458.43	6,497.43	28.47	223.74	-34.50	-299.21	-9,148.06	9,009.18	8,757.05	252.13	35.733		
6,600.00	6,597.38	6,558.38	6,597.38	28.90	227.23	-34.51	-299.21	-9,148.06	9,006.73	8,750.68	256.05	35.176		
6,700.00	6,697.08	6,658.08	6,697.08	29.34	230.71	-8.69	-299.21	-9,148.06	9,004.23	8,744.27	259.97	34.621		
6,800.00	6,794.63	6,755.63	6,794.63	29.79	234.12	-5.32	-299.21	-9,148.06	8,978.83	8,715.03	263.80	34.036		
6,900.00	6,887.62	6,848.62	6,887.62	30.24	237.36	-4.43	-299.21	-9,148.06	8,942.44	8,674.98	267.46	33.435		
7,000.00	6,973.77	6,934.77	6,973.77	30.70	240.37	-4.19	-299.21	-9,148.06	8,891.96	8,621.12	270.83	32.832		
7,100.00	7,050.94	7,011.94	7,050.94	31.20	243.06	-4.30	-299.21	-9,148.06	8,828.62	8,554.77	273.85	32.239		
7,200.00	7,117.24	7,078.24	7,117.24	31.77	245.38	-4.75	-299.21	-9,148.06	8,754.00	8,477.57	276.43	31.668		
7,300.00	7,171.03	7,132.03	7,171.03	32.46	247.26	-5.70	-299.21	-9,148.06	8,669.92	8,391.42	278.50	31.130		
7,400.00	7,211.00	7,172.00	7,211.00	33.29	248.65	-7.75	-299.21	-9,148.06	8,578.46	8,298.43	280.04	30.633		
7,500.00	7,236.16	7,202.84	7,236.16	34.29	249.73	-13.58	-299.21	-9,148.06	8,481.88	8,200.68	281.20	30.164		
7,600.00	7,245.89	7,206.89	7,245.89	35.43	249.87	-64.75	-299.21	-9,148.06	8,382.54	8,101.17	281.37	29.792		
7,700.00	7,245.73	7,206.73	7,245.73	36.72	249.86	-94.42	-299.21	-9,148.06	8,282.62	8,001.24	281.38	29.436		
7,800.00	7,245.42	7,206.42	7,245.42	38.18	249.85	-94.36	-299.21	-9,148.06	8,182.70	7,901.32	281.39	29.080		
7,900.00	7,245.10	7,206.10	7,245.10	39.80	249.84	-94.31	-299.21	-9,148.06	8,082.79	7,801.40	281.39	28.724		
8,000.00	7,244.79	7,205.79	7,244.79	41.54	249.83	-94.26	-299.21	-9,148.06	7,982.88	7,701.48	281.40	28.368		
8,100.00	7,244.48	7,205.48	7,244.48	43.41	249.82	-94.20	-299.21	-9,148.06	7,882.96	7,601.56	281.41	28.012		
8,200.00	7,244.17	7,205.17	7,244.17	45.38	249.81	-94.15	-299.21	-9,148.06	7,783.06	7,501.64	281.42	27.656		
8,300.00	7,243.86	7,204.86	7,243.86	47.44	249.80	-94.10	-299.21	-9,148.06	7,683.15	7,401.72	281.43	27.300		
8,400.00	7,243.55	7,204.55	7,243.55	49.58	249.79	-94.05	-299.21	-9,148.06	7,583.25	7,301.80	281.45	26.943		
8,500.00	7,243.23	7,204.23	7,243.23	51.78	249.78	-93.99	-299.21	-9,148.06	7,483.35	7,201.88	281.47	26.587		
8,600.00	7,242.92	7,203.92	7,242.92	54.05	249.77	-93.94	-299.21	-9,148.06	7,383.45	7,101.96	281.49	26.230		
8,700.00	7,242.61	7,203.61	7,242.61	56.37	249.75	-93.89	-299.21	-9,148.06	7,283.55	7,002.04	281.51	25.873		
8,800.00	7,242.30	7,203.30	7,242.30	58.74	249.74	-93.83	-299.21	-9,148.06	7,183.66	6,902.12	281.53	25.516		
8,900.00	7,241.99	7,202.99	7,241.99	61.16	249.73	-93.78	-299.21	-9,148.06	7,083.77	6,802.21	281.56	25.159		
9,000.00	7,241.67	7,202.67	7,241.67	63.61	249.72	-93.73	-299.21	-9,148.06	6,983.88	6,702.29	281.59	24.802		
9,100.00	7,241.36	7,202.36	7,241.36	66.09	249.71	-93.67	-299.21	-9,148.06	6,884.00	6,602.38	281.62	24.444		
9,200.00	7,241.05	7,202.05	7,241.05	68.60	249.70	-93.62	-299.21	-9,148.06	6,784.12	6,502.46	281.66	24.087		
9,300.00	7,240.74	7,201.74	7,240.74	71.13	249.69	-93.57	-299.21	-9,148.06	6,684.24	6,402.55	281.69	23.729		
9,400.00	7,240.43	7,201.43	7,240.43	73.70	249.68	-93.51	-299.21	-9,148.06	6,584.37	6,302.64	281.73	23.371		
9,500.00	7,240.11	7,201.11	7,240.11	76.28	249.67	-93.46	-299.21	-9,148.06	6,484.50	6,202.73	281.78	23.013		
9,600.00	7,239.80	7,200.80	7,239.80	78.88	249.66	-93.41	-299.21	-9,148.06	6,384.64	6,102.81	281.82	22.655		
9,700.00	7,239.49	7,200.49	7,239.49	81.50	249.65	-93.35	-299.21	-9,148.06	6,284.78	6,002.91	281.87	22.297		
9,800.00	7,239.18	7,200.18	7,239.18	84.13	249.63	-93.30	-299.21	-9,148.06	6,184.92	5,903.00	281.92	21.938		
9,900.00	7,238.87	7,200.13	7,238.87	86.78	249.63	-93.25	-299.21	-9,148.06	6,085.07	5,803.08	281.99	21.579		
10,000.00	7,238.55	7,200.45	7,238.55	89.44	249.64	-93.19	-299.21	-9,148.06	5,985.22	5,703.15	282.07	21.219		
10,100.00	7,238.24	7,200.76	7,238.24	92.11	249.65	-93.14	-299.21	-9,148.06	5,885.38	5,603.23	282.16	20.859		
10,200.00	7,237.93	7,201.07	7,237.93	94.80	249.67	-93.09	-299.21	-9,148.06	5,785.55	5,503.30	282.25	20.498		
10,300.00	7,237.62	7,201.38	7,237.62	97.49	249.68	-93.03	-299.21	-9,148.06	5,685.72	5,403.38	282.34	20.138		

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



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,237.31	7,201.69	7,237.31	100.19	249.69	-92.98	-299.21	-9,148.06	5,585.89	5,303.45	282.44	19.777		
10,500.00	7,236.99	7,202.01	7,236.99	102.90	249.70	-92.93	-299.21	-9,148.06	5,486.08	5,203.53	282.54	19.417		
10,600.00	7,236.68	7,202.32	7,236.68	105.62	249.71	-92.87	-299.21	-9,148.06	5,386.27	5,103.61	282.65	19.056		
10,700.00	7,236.37	7,202.63	7,236.37	108.35	249.72	-92.82	-299.21	-9,148.06	5,286.46	5,003.70	282.77	18.696		
10,800.00	7,236.06	7,202.94	7,236.06	111.08	249.73	-92.77	-299.21	-9,148.06	5,186.67	4,903.78	282.89	18.335		
10,900.00	7,235.75	7,203.25	7,235.75	113.82	249.74	-92.71	-299.21	-9,148.06	5,086.88	4,803.87	283.01	17.974		
11,000.00	7,235.44	7,203.56	7,235.44	116.56	249.75	-92.66	-299.21	-9,148.06	4,987.10	4,703.95	283.15	17.613		
11,100.00	7,235.12	7,203.88	7,235.12	119.31	249.76	-92.61	-299.21	-9,148.06	4,887.33	4,604.04	283.29	17.252		
11,200.00	7,234.81	7,204.19	7,234.81	122.07	249.77	-92.55	-299.21	-9,148.06	4,787.57	4,504.13	283.44	16.891		
11,300.00	7,234.50	7,204.50	7,234.50	124.83	249.79	-92.50	-299.21	-9,148.06	4,687.82	4,404.22	283.59	16.530		
11,400.00	7,234.19	7,204.81	7,234.19	127.59	249.80	-92.45	-299.21	-9,148.06	4,588.08	4,304.32	283.76	16.169		
11,500.00	7,233.88	7,205.12	7,233.88	130.36	249.81	-92.39	-299.21	-9,148.06	4,488.35	4,204.41	283.94	15.807		
11,600.00	7,233.56	7,205.44	7,233.56	133.13	249.82	-92.34	-299.21	-9,148.06	4,388.64	4,104.51	284.13	15.446		
11,700.00	7,233.25	7,205.75	7,233.25	135.91	249.83	-92.29	-299.21	-9,148.06	4,288.93	4,004.61	284.32	15.085		
11,800.00	7,232.94	7,206.06	7,232.94	138.68	249.84	-92.23	-299.21	-9,148.06	4,189.24	3,904.71	284.54	14.723		
11,900.00	7,232.63	7,206.37	7,232.63	141.47	249.85	-92.18	-299.21	-9,148.06	4,089.57	3,804.81	284.76	14.361		
12,000.00	7,232.32	7,206.68	7,232.32	144.25	249.86	-92.13	-299.21	-9,148.06	3,989.92	3,704.91	285.00	14.000		
12,100.00	7,232.00	7,207.00	7,232.00	147.04	249.87	-92.07	-299.21	-9,148.06	3,890.28	3,605.01	285.26	13.638		
12,200.00	7,231.69	7,207.31	7,231.69	149.83	249.88	-92.02	-299.21	-9,148.06	3,790.66	3,505.12	285.54	13.276		
12,300.00	7,231.38	7,207.62	7,231.38	152.62	249.89	-91.97	-299.21	-9,148.06	3,691.06	3,405.22	285.83	12.913		
12,400.00	7,231.07	7,207.93	7,231.07	155.42	249.91	-91.91	-299.21	-9,148.06	3,591.48	3,305.33	286.15	12.551		
12,500.00	7,230.76	7,208.24	7,230.76	158.22	249.92	-91.86	-299.21	-9,148.06	3,491.93	3,205.43	286.50	12.188		
12,600.00	7,230.44	7,208.56	7,230.44	161.01	249.93	-91.80	-299.21	-9,148.06	3,392.40	3,105.53	286.87	11.826		
12,700.00	7,230.13	7,208.87	7,230.13	163.82	249.94	-91.75	-299.21	-9,148.06	3,292.90	3,005.63	287.27	11.463		
12,800.00	7,229.82	7,209.18	7,229.82	166.62	249.95	-91.70	-299.21	-9,148.06	3,193.43	2,905.73	287.70	11.100		
12,900.00	7,229.51	7,209.49	7,229.51	169.43	249.96	-91.64	-299.21	-9,148.06	3,094.00	2,805.82	288.18	10.737		
13,000.00	7,229.20	7,209.80	7,229.20	172.23	249.97	-91.59	-299.21	-9,148.06	2,994.60	2,705.91	288.69	10.373		
13,100.00	7,228.88	7,189.88	7,228.88	175.04	249.28	-91.54	-299.21	-9,148.06	2,895.25	2,606.70	288.55	10.034		
13,200.00	7,228.57	7,189.57	7,228.57	177.85	249.26	-91.48	-299.21	-9,148.06	2,795.94	2,506.80	289.14	9.670		
13,300.00	7,228.26	7,189.26	7,228.26	180.66	249.25	-91.43	-299.21	-9,148.06	2,696.69	2,406.89	289.80	9.305		
13,400.00	7,227.95	7,188.95	7,227.95	183.48	249.24	-91.38	-299.21	-9,148.06	2,597.49	2,306.96	290.53	8.941		
13,500.00	7,227.64	7,188.64	7,227.64	186.29	249.23	-91.32	-299.21	-9,148.06	2,498.35	2,207.02	291.33	8.576		
13,600.00	7,227.33	7,188.33	7,227.33	189.11	249.22	-91.27	-299.21	-9,148.06	2,399.29	2,107.06	292.23	8.210		
13,700.00	7,227.01	7,188.01	7,227.01	191.92	249.21	-91.22	-299.21	-9,148.06	2,300.31	2,007.08	293.22	7.845		
13,800.00	7,226.70	7,187.70	7,226.70	194.74	249.20	-91.16	-299.21	-9,148.06	2,201.42	1,907.07	294.34	7.479		
13,900.00	7,226.39	7,187.39	7,226.39	197.56	249.19	-91.11	-299.21	-9,148.06	2,102.63	1,807.03	295.60	7.113		
14,000.00	7,226.08	7,187.08	7,226.08	200.38	249.18	-91.06	-299.21	-9,148.06	2,003.96	1,706.95	297.01	6.747		
14,100.00	7,225.77	7,186.77	7,225.77	203.21	249.17	-91.00	-299.21	-9,148.06	1,905.44	1,606.82	298.61	6.381		
14,200.00	7,225.45	7,186.45	7,225.45	206.03	249.16	-90.95	-299.21	-9,148.06	1,807.07	1,506.64	300.44	6.015		
14,300.00	7,225.14	7,186.14	7,225.14	208.85	249.14	-90.90	-299.21	-9,148.06	1,708.90	1,406.38	302.52	5.649		
14,400.00	7,224.83	7,185.83	7,224.83	211.68	249.13	-90.84	-299.21	-9,148.06	1,610.95	1,306.04	304.91	5.283		
14,500.00	7,224.52	7,185.52	7,224.52	214.50	249.12	-90.79	-299.21	-9,148.06	1,513.26	1,205.60	307.67	4.919		
14,600.00	7,224.21	7,185.21	7,224.21	217.33	249.11	-90.74	-299.21	-9,148.06	1,415.91	1,105.03	310.87	4.555		
14,700.00	7,223.89	7,184.89	7,223.89	220.16	249.10	-90.68	-299.21	-9,148.06	1,318.94	1,004.32	314.63	4.192		
14,800.00	7,223.58	7,184.58	7,223.58	222.98	249.09	-90.63	-299.21	-9,148.06	1,222.47	903.42	319.05	3.832		
14,900.00	7,223.27	7,184.27	7,223.27	225.81	249.08	-90.58	-299.21	-9,148.06	1,126.61	802.31	324.30	3.474		
14,987.41	7,223.00	7,184.00	7,223.00	228.28	249.07	-90.53	-299.21	-9,148.06	1,043.45	713.71	329.74	3.164 CC, ES, SF		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
0.00	0.00	0.00	26.00	3.28	3.28	-92.06	-328.36	-9,145.29	9,151.22					
100.00	100.00	110.41	136.41	3.28	3.29	-92.06	-328.64	-9,144.93	9,150.91	9,144.33	6.58	1,391.352		
200.00	200.00	185.35	211.35	3.34	3.34	-92.06	-328.56	-9,144.74	9,150.64	9,143.97	6.67	1,371.462		
243.37	243.37	217.37	243.37	3.38	3.36	-92.06	-328.51	-9,144.72	9,150.62	9,143.88	6.74	1,357.744		
300.00	300.00	259.39	285.39	3.44	3.41	-92.06	-328.51	-9,144.75	9,150.66	9,143.81	6.85	1,335.713		
400.00	400.00	346.35	372.35	3.60	3.52	-92.06	-328.60	-9,144.95	9,150.89	9,143.77	7.13	1,283.969		
500.00	500.00	434.76	460.75	3.81	3.68	-92.06	-328.72	-9,145.27	9,151.26	9,143.77	7.49	1,222.416		
600.00	600.00	608.72	634.72	4.05	4.07	-92.06	-329.20	-9,145.58	9,151.57	9,143.45	8.12	1,126.982		
700.00	699.98	678.70	704.69	4.32	4.26	-34.08	-329.55	-9,145.38	9,149.91	9,141.33	8.57	1,067.076		
800.00	799.94	727.00	752.99	4.61	4.40	-34.09	-329.79	-9,145.42	9,147.62	9,138.62	9.00	1,016.179		
900.00	899.89	767.60	793.60	4.92	4.51	-34.09	-329.83	-9,145.71	9,145.94	9,136.51	9.43	969.450		
1,000.00	999.85	800.41	826.40	5.25	4.61	-34.10	-329.66	-9,146.22	9,145.02	9,135.15	9.86	927.060		
1,045.35	1,045.18	815.30	841.28	5.41	4.66	-34.10	-329.52	-9,146.53	9,144.84	9,134.77	10.07	908.527		
1,100.00	1,099.80	856.00	881.96	5.60	4.78	-34.10	-328.94	-9,147.64	9,144.91	9,134.53	10.38	880.808		
1,106.85	1,106.65	856.00	881.96	5.63	4.78	-34.10	-328.94	-9,147.64	9,144.91	9,134.50	10.41	878.753		
1,200.00	1,199.76	856.00	881.96	5.96	4.78	-34.10	-328.94	-9,147.64	9,145.38	9,134.64	10.74	851.355		
1,300.00	1,299.72	856.00	881.96	6.33	4.78	-34.10	-328.94	-9,147.64	9,146.95	9,135.84	11.11	823.161		
1,400.00	1,399.67	913.35	939.25	6.71	4.97	-34.09	-327.68	-9,150.04	9,148.88	9,137.21	11.67	783.946		
1,500.00	1,499.63	938.20	964.05	7.10	5.05	-34.09	-326.97	-9,151.42	9,151.87	9,139.74	12.13	754.195		
1,600.00	1,599.58	984.00	1,009.72	7.49	5.20	-34.09	-325.43	-9,154.50	9,155.77	9,143.10	12.67	722.380		
1,700.00	1,699.54	984.00	1,009.72	7.88	5.20	-34.09	-325.43	-9,154.50	9,160.31	9,147.24	13.07	700.983		
1,800.00	1,799.50	984.00	1,009.72	8.28	5.20	-34.09	-325.43	-9,154.50	9,165.93	9,152.47	13.46	680.755		
1,900.00	1,899.45	1,045.05	1,070.49	8.69	5.41	-34.07	-322.62	-9,159.61	9,171.92	9,157.85	14.07	651.766		
2,000.00	1,999.41	1,112.00	1,136.95	9.10	5.65	-34.05	-318.29	-9,166.43	9,179.19	9,164.48	14.71	624.067		
2,100.00	2,099.36	1,112.00	1,136.95	9.51	5.65	-34.05	-318.29	-9,166.43	9,186.68	9,171.57	15.11	607.955		
2,200.00	2,199.32	1,112.00	1,136.95	9.92	5.65	-34.05	-318.29	-9,166.43	9,195.25	9,179.73	15.51	592.724		
2,300.00	2,299.28	1,179.39	1,203.64	10.34	5.91	-34.02	-312.67	-9,174.29	9,204.30	9,188.14	16.17	569.355		
2,400.00	2,399.23	1,241.00	1,264.44	10.75	6.15	-33.99	-306.52	-9,182.10	9,214.13	9,197.33	16.80	548.307		
2,500.00	2,499.19	1,279.70	1,302.54	11.17	6.31	-33.96	-302.04	-9,187.23	9,224.44	9,207.07	17.36	531.260		
2,600.00	2,599.14	1,355.81	1,377.22	11.60	6.64	-33.90	-291.50	-9,197.48	9,235.10	9,217.02	18.08	510.844		
2,700.00	2,699.10	1,405.35	1,425.61	12.02	6.87	-33.86	-283.49	-9,204.33	9,246.13	9,227.43	18.70	494.552		
2,800.00	2,799.06	1,449.16	1,468.29	12.44	7.07	-33.81	-275.90	-9,210.66	9,257.76	9,238.47	19.29	479.838		
2,900.00	2,899.01	1,498.00	1,515.73	12.87	7.31	-33.76	-266.86	-9,218.02	9,270.00	9,250.08	19.92	465.469		
3,000.00	2,998.97	1,533.26	1,549.88	13.29	7.49	-33.72	-260.03	-9,223.55	9,282.85	9,262.36	20.49	453.128		
3,100.00	3,098.92	1,573.23	1,588.49	13.72	7.70	-33.67	-252.03	-9,230.04	9,296.33	9,275.25	21.08	441.001		
3,200.00	3,198.88	1,626.00	1,639.33	14.14	7.98	-33.61	-241.07	-9,238.98	9,310.48	9,288.75	21.74	428.305		
3,300.00	3,298.84	1,656.97	1,669.08	14.57	8.15	-33.57	-234.36	-9,244.41	9,325.21	9,302.91	22.30	418.204		
3,400.00	3,398.79	1,702.73	1,712.87	15.00	8.42	-33.51	-223.93	-9,252.62	9,340.54	9,317.60	22.94	407.217		
3,500.00	3,498.75	1,754.00	1,761.70	15.43	8.72	-33.43	-211.52	-9,262.11	9,356.44	9,332.84	23.61	396.340		
3,600.00	3,598.70	1,754.00	1,761.70	15.86	8.72	-33.43	-211.52	-9,262.11	9,373.09	9,349.10	24.00	390.618		
3,700.00	3,698.66	1,806.81	1,811.73	16.29	9.06	-33.35	-198.09	-9,272.37	9,390.27	9,365.58	24.69	380.264		
3,800.00	3,798.62	1,834.83	1,838.16	16.72	9.25	-33.31	-190.75	-9,278.09	9,408.31	9,383.06	25.24	372.686		
3,900.00	3,898.57	1,883.00	1,883.40	17.15	9.56	-33.23	-177.81	-9,288.38	9,427.16	9,401.25	25.91	363.777		
4,000.00	3,998.53	2,001.66	1,994.59	17.59	10.40	-33.04	-145.08	-9,313.82	9,446.46	9,419.41	27.05	349.180		
4,100.00	4,098.48	2,114.41	2,100.44	18.02	11.21	-32.86	-114.17	-9,337.32	9,465.15	9,436.98	28.17	335.948		
4,200.00	4,198.44	2,192.86	2,174.31	18.45	11.79	-32.73	-93.46	-9,353.69	9,483.90	9,454.83	29.07	326.201		
4,300.00	4,298.40	2,268.00	2,245.18	18.88	12.35	-32.62	-74.20	-9,369.60	9,502.96	9,473.01	29.95	317.265		
4,400.00	4,398.35	2,403.34	2,373.20	19.32	13.35	-32.43	-40.87	-9,398.16	9,522.00	9,490.77	31.24	304.843		
4,500.00	4,498.31	2,459.66	2,426.47	19.75	13.78	-32.35	-26.98	-9,410.05	9,541.07	9,509.07	32.00	298.200		
4,600.00	4,598.26	2,525.00	2,488.06	20.19	14.28	-32.25	-10.26	-9,424.04	9,560.54	9,527.72	32.82	291.342		
4,700.00	4,698.22	2,638.64	2,594.99	20.62	15.17	-32.08	19.54	-9,448.41	9,580.14	9,546.15	33.99	281.852		
4,800.00	4,798.18	2,690.10	2,643.35	21.05	15.58	-32.00	33.21	-9,459.43	9,599.85	9,565.12	34.73	276.415		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
4,900.00	4,898.13	2,731.82	2,682.44	21.49	15.92	-31.94	44.57	-9,468.59	9,620.13	9,584.73	35.40	271.761		
5,000.00	4,998.09	2,782.00	2,729.29	21.92	16.32	-31.85	58.58	-9,479.88	9,641.01	9,604.88	36.13	266.852		
5,100.00	5,098.04	5,100.00	2,922.18	22.36	35.37	-31.54	114.48	-9,525.50	9,661.65	9,609.09	52.56	183.829		
5,200.00	5,198.00	3,085.74	3,014.16	22.79	18.81	-31.39	140.19	-9,546.48	9,681.58	9,642.48	39.10	247.612		
5,300.00	5,297.96	3,129.27	3,055.03	23.23	19.17	-31.32	151.79	-9,555.98	9,701.94	9,662.16	39.78	243.881		
5,400.00	5,397.91	3,199.98	3,121.25	23.67	19.75	-31.22	170.90	-9,571.77	9,722.85	9,682.19	40.66	239.111		
5,500.00	5,497.87	3,478.09	3,383.68	24.10	21.99	-30.82	241.30	-9,631.08	9,742.46	9,699.40	43.06	226.266		
5,600.00	5,597.82	3,552.00	3,453.68	24.54	22.58	-30.72	259.37	-9,646.43	9,761.81	9,717.86	43.95	222.105		
5,700.00	5,697.78	5,852.26	5,698.34	24.97	34.60	-29.43	518.66	-9,878.87	9,761.50	9,705.80	55.70	175.252		
5,800.00	5,797.74	5,965.98	5,812.05	25.41	34.92	-29.45	516.56	-9,878.87	9,758.83	9,702.34	56.49	172.754		
5,900.00	5,897.69	6,130.03	5,976.07	25.85	35.38	-29.49	513.38	-9,878.29	9,755.83	9,698.42	57.42	169.905		
6,000.00	5,997.65	6,239.67	6,085.69	26.28	35.69	-29.51	511.25	-9,877.47	9,752.42	9,694.22	58.20	167.563		
6,100.00	6,097.60	6,332.81	6,178.81	26.72	35.96	-29.53	509.67	-9,876.72	9,748.96	9,690.02	58.94	165.397		
6,200.00	6,197.56	6,465.10	6,311.08	27.16	36.35	-29.55	507.69	-9,875.59	9,745.48	9,685.69	59.80	162.975		
6,300.00	6,297.52	6,570.74	6,416.70	27.59	36.66	-29.56	506.52	-9,874.30	9,741.63	9,681.05	60.58	160.802		
6,400.00	6,397.47	6,654.29	6,500.25	28.03	36.91	-29.57	505.96	-9,873.36	9,737.90	9,676.60	61.31	158.843		
6,500.00	6,497.43	6,731.38	6,577.33	28.47	37.15	-29.58	505.46	-9,872.66	9,734.38	9,672.37	62.01	156.974		
6,600.00	6,597.38	6,817.97	6,663.92	28.90	37.41	-29.59	504.85	-9,872.05	9,731.07	9,668.32	62.75	155.075		
6,700.00	6,697.08	6,906.49	6,752.43	29.34	37.69	-3.72	504.46	-9,871.50	9,723.80	9,660.30	63.50	153.139		
6,800.00	6,794.63	6,979.06	6,825.00	29.79	37.92	-0.16	504.33	-9,871.18	9,701.84	9,637.65	64.19	151.142		
6,900.00	6,887.62	7,205.52	7,051.44	30.24	38.65	1.09	503.82	-9,868.88	9,664.37	9,599.04	65.32	147.949		
7,000.00	6,973.77	7,276.00	7,121.91	30.70	38.87	1.90	502.93	-9,867.74	9,612.36	9,546.42	65.94	145.772		
7,100.00	7,050.94	7,337.55	7,183.45	31.20	39.06	2.68	501.93	-9,866.85	9,547.80	9,481.32	66.48	143.623		
7,200.00	7,117.24	7,384.16	7,230.04	31.77	39.20	3.66	501.18	-9,866.28	9,472.28	9,405.37	66.91	141.573		
7,300.00	7,171.03	7,442.94	7,288.82	32.46	39.39	5.19	500.24	-9,865.63	9,387.55	9,320.25	67.30	139.483		
7,400.00	7,211.00	7,502.91	7,348.77	33.29	39.58	8.20	499.33	-9,864.84	9,295.54	9,227.91	67.63	137.450		
7,500.00	7,236.16	7,539.38	7,385.24	34.29	39.70	16.86	498.81	-9,864.30	9,198.59	9,130.77	67.82	135.633		
7,600.00	7,245.89	7,551.86	7,397.71	35.43	39.74	87.46	498.63	-9,864.10	9,099.15	9,031.26	67.89	134.034		
7,700.00	7,245.73	7,549.20	7,395.05	36.72	39.73	110.71	498.67	-9,864.15	8,999.30	8,931.41	67.88	132.569		
7,800.00	7,245.42	7,546.34	7,392.19	38.18	39.72	110.40	498.71	-9,864.19	8,899.45	8,831.57	67.88	131.102		
7,900.00	7,245.10	7,543.51	7,389.36	39.80	39.71	110.09	498.75	-9,864.24	8,799.61	8,731.73	67.88	129.631		
8,000.00	7,244.79	7,540.71	7,386.56	41.54	39.70	109.79	498.79	-9,864.28	8,699.78	8,631.89	67.88	128.156		
8,100.00	7,244.48	7,537.94	7,383.80	43.41	39.69	109.49	498.83	-9,864.32	8,599.94	8,532.05	67.89	126.676		
8,200.00	7,244.17	7,535.21	7,381.07	45.38	39.68	109.19	498.87	-9,864.37	8,500.11	8,432.22	67.90	125.193		
8,300.00	7,243.86	7,532.51	7,378.37	47.44	39.67	108.89	498.91	-9,864.41	8,400.29	8,332.38	67.91	123.706		
8,400.00	7,243.55	7,529.84	7,375.69	49.58	39.67	108.60	498.94	-9,864.45	8,300.46	8,232.55	67.92	122.215		
8,500.00	7,243.23	7,527.19	7,373.05	51.78	39.66	108.31	498.98	-9,864.49	8,200.64	8,132.71	67.93	120.721		
8,600.00	7,242.92	7,524.58	7,370.44	54.05	39.65	108.02	499.02	-9,864.53	8,100.83	8,032.88	67.95	119.222		
8,700.00	7,242.61	7,522.00	7,367.86	56.37	39.64	107.73	499.06	-9,864.57	8,001.01	7,933.05	67.97	117.720		
8,800.00	7,242.30	7,519.44	7,365.30	58.74	39.63	107.45	499.09	-9,864.60	7,901.21	7,833.22	67.99	116.213		
8,900.00	7,241.99	7,516.91	7,362.77	61.16	39.63	107.17	499.13	-9,864.64	7,801.40	7,733.39	68.01	114.703		
9,000.00	7,241.67	7,514.41	7,360.28	63.61	39.62	106.89	499.17	-9,864.68	7,701.60	7,633.56	68.04	113.190		
9,100.00	7,241.36	7,511.94	7,357.80	66.09	39.61	106.61	499.20	-9,864.71	7,601.81	7,533.74	68.07	111.672		
9,200.00	7,241.05	7,509.50	7,355.36	68.60	39.60	106.33	499.24	-9,864.75	7,502.02	7,433.91	68.11	110.151		
9,300.00	7,240.74	7,507.08	7,352.94	71.13	39.59	106.06	499.27	-9,864.79	7,402.24	7,334.09	68.14	108.626		
9,400.00	7,240.43	7,504.68	7,350.54	73.70	39.59	105.79	499.31	-9,864.82	7,302.46	7,234.27	68.18	107.098		
9,500.00	7,240.11	7,502.31	7,348.17	76.28	39.58	105.52	499.34	-9,864.85	7,202.68	7,134.45	68.23	105.566		
9,600.00	7,239.80	7,499.97	7,345.83	78.88	39.57	105.25	499.38	-9,864.89	7,102.92	7,034.64	68.28	104.030		
9,700.00	7,239.49	7,497.65	7,343.51	81.50	39.56	104.99	499.41	-9,864.92	7,003.15	6,934.82	68.33	102.491		
9,800.00	7,239.18	7,495.35	7,341.22	84.13	39.56	104.73	499.45	-9,864.95	6,903.40	6,835.01	68.39	100.948		
9,900.00	7,238.87	7,493.08	7,338.95	86.78	39.55	104.47	499.48	-9,864.98	6,803.65	6,735.20	68.45	99.401		
10,000.00	7,238.55	7,490.83	7,336.70	89.44	39.54	104.21	499.51	-9,865.01	6,703.91	6,635.40	68.51	97.851		

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



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	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		
10,100.00	7,238.24	7,488.61	7,334.47	92.11	39.54	103.95	499.55	-9,865.04	6,604.17	6,535.59	68.58	96.297		
10,200.00	7,237.93	7,486.41	7,332.27	94.80	39.53	103.70	499.58	-9,865.07	6,504.45	6,435.79	68.66	94.739		
10,300.00	7,237.62	7,484.23	7,330.09	97.49	39.52	103.45	499.61	-9,865.10	6,404.73	6,335.99	68.74	93.178		
10,400.00	7,237.31	7,482.07	7,327.94	100.19	39.51	103.20	499.64	-9,865.13	6,305.02	6,236.20	68.82	91.613		
10,500.00	7,236.99	7,479.93	7,325.80	102.90	39.51	102.95	499.68	-9,865.16	6,205.32	6,136.40	68.91	90.045		
10,600.00	7,236.68	7,477.82	7,323.69	105.62	39.50	102.70	499.71	-9,865.19	6,105.62	6,036.61	69.01	88.473		
10,700.00	7,236.37	7,475.72	7,321.59	108.35	39.49	102.46	499.74	-9,865.22	6,005.94	5,936.82	69.12	86.897		
10,800.00	7,236.06	7,473.65	7,319.52	111.08	39.49	102.22	499.77	-9,865.24	5,906.27	5,837.04	69.23	85.317		
10,900.00	7,235.75	7,471.60	7,317.47	113.82	39.48	101.98	499.80	-9,865.27	5,806.61	5,737.26	69.35	83.734		
11,000.00	7,235.44	7,469.57	7,315.44	116.56	39.47	101.74	499.83	-9,865.30	5,706.95	5,637.48	69.47	82.146		
11,100.00	7,235.12	7,467.55	7,313.42	119.31	39.47	101.50	499.86	-9,865.32	5,607.32	5,537.71	69.61	80.555		
11,200.00	7,234.81	7,465.56	7,311.43	122.07	39.46	101.27	499.89	-9,865.35	5,507.69	5,437.94	69.75	78.960		
11,300.00	7,234.50	7,463.59	7,309.46	124.83	39.46	101.04	499.92	-9,865.37	5,408.08	5,338.17	69.91	77.361		
11,400.00	7,234.19	7,461.63	7,307.50	127.59	39.45	100.81	499.95	-9,865.40	5,308.48	5,238.41	70.07	75.759		
11,500.00	7,233.88	7,459.70	7,305.57	130.36	39.44	100.58	499.98	-9,865.42	5,208.89	5,138.65	70.25	74.152		
11,600.00	7,233.56	7,457.78	7,303.65	133.13	39.44	100.35	500.01	-9,865.45	5,109.32	5,038.89	70.43	72.541		
11,700.00	7,233.25	7,455.88	7,301.75	135.91	39.43	100.13	500.04	-9,865.47	5,009.77	4,939.14	70.63	70.926		
11,800.00	7,232.94	7,454.00	7,299.87	138.68	39.43	99.90	500.07	-9,865.49	4,910.24	4,839.39	70.85	69.308		
11,900.00	7,232.63	7,452.13	7,298.01	141.47	39.42	99.68	500.10	-9,865.52	4,810.72	4,739.64	71.08	67.685		
12,000.00	7,232.32	7,450.29	7,296.16	144.25	39.41	99.46	500.13	-9,865.54	4,711.22	4,639.90	71.32	66.058		
12,100.00	7,232.00	7,448.46	7,294.33	147.04	39.41	99.25	500.16	-9,865.56	4,611.75	4,540.17	71.58	64.427		
12,200.00	7,231.69	7,446.65	7,292.52	149.83	39.40	99.03	500.18	-9,865.58	4,512.30	4,440.43	71.86	62.792		
12,300.00	7,231.38	7,444.85	7,290.72	152.62	39.40	98.82	500.21	-9,865.60	4,412.87	4,340.71	72.16	61.153		
12,400.00	7,231.07	7,443.07	7,288.95	155.42	39.39	98.61	500.24	-9,865.63	4,313.47	4,240.98	72.48	59.509		
12,500.00	7,230.76	7,441.31	7,287.18	158.22	39.39	98.40	500.27	-9,865.65	4,214.09	4,141.26	72.83	57.862		
12,600.00	7,230.44	7,439.56	7,285.44	161.01	39.38	98.19	500.29	-9,865.67	4,114.75	4,041.54	73.20	56.211		
12,700.00	7,230.13	7,437.83	7,283.71	163.82	39.37	97.98	500.32	-9,865.69	4,015.43	3,941.83	73.60	54.557		
12,800.00	7,229.82	7,436.12	7,281.99	166.62	39.37	97.78	500.35	-9,865.71	3,916.15	3,842.12	74.03	52.898		
12,900.00	7,229.51	7,434.42	7,280.29	169.43	39.36	97.57	500.37	-9,865.73	3,816.91	3,742.42	74.50	51.237		
13,000.00	7,229.20	7,432.73	7,278.61	172.23	39.36	97.37	500.40	-9,865.75	3,717.71	3,642.71	75.00	49.572		
13,100.00	7,228.88	7,431.06	7,276.94	175.04	39.35	97.17	500.43	-9,865.77	3,618.55	3,543.01	75.54	47.904		
13,200.00	7,228.57	7,429.41	7,275.28	177.85	39.35	96.97	500.45	-9,865.78	3,519.44	3,443.32	76.12	46.233		
13,300.00	7,228.26	7,427.77	7,273.64	180.66	39.34	96.77	500.48	-9,865.80	3,420.38	3,343.62	76.76	44.561		
13,400.00	7,227.95	7,426.14	7,272.02	183.48	39.34	96.58	500.51	-9,865.82	3,321.37	3,243.93	77.45	42.887		
13,500.00	7,227.64	7,424.53	7,270.41	186.29	39.33	96.38	500.53	-9,865.84	3,222.43	3,144.24	78.19	41.212		
13,600.00	7,227.33	7,422.93	7,268.81	189.11	39.33	96.19	500.56	-9,865.86	3,123.55	3,044.55	79.00	39.536		
13,700.00	7,227.01	7,421.35	7,267.23	191.92	39.32	96.00	500.58	-9,865.87	3,024.75	2,944.86	79.89	37.861		
13,800.00	7,226.70	7,419.78	7,265.66	194.74	39.32	95.81	500.61	-9,865.89	2,926.02	2,845.17	80.86	36.188		
13,900.00	7,226.39	7,418.22	7,264.10	197.56	39.31	95.62	500.63	-9,865.91	2,827.39	2,745.47	81.91	34.517		
14,000.00	7,226.08	7,416.68	7,262.56	200.38	39.31	95.44	500.66	-9,865.93	2,728.85	2,645.78	83.07	32.850		
14,100.00	7,225.77	7,415.15	7,261.03	203.21	39.30	95.25	500.68	-9,865.94	2,630.42	2,546.08	84.34	31.189		
14,200.00	7,225.45	7,413.63	7,259.51	206.03	39.30	95.07	500.70	-9,865.96	2,532.12	2,446.38	85.74	29.534		
14,300.00	7,225.14	7,412.12	7,258.01	208.85	39.29	94.89	500.73	-9,865.98	2,433.95	2,346.67	87.27	27.888		
14,400.00	7,224.83	7,410.63	7,256.51	211.68	39.29	94.71	500.75	-9,865.99	2,335.94	2,246.96	88.97	26.254		
14,500.00	7,224.52	7,409.15	7,255.03	214.50	39.28	94.53	500.78	-9,866.01	2,238.10	2,147.24	90.86	24.633		
14,600.00	7,224.21	7,407.69	7,253.57	217.33	39.28	94.35	500.80	-9,866.02	2,140.46	2,047.51	92.95	23.029		
14,700.00	7,223.89	7,406.23	7,252.11	220.16	39.27	94.18	500.82	-9,866.04	2,043.05	1,947.77	95.28	21.444		
14,800.00	7,223.58	7,404.79	7,250.67	222.98	39.27	94.00	500.85	-9,866.05	1,945.90	1,848.02	97.88	19.881		
14,900.00	7,223.27	7,403.44	7,249.32	225.81	39.27	93.84	500.87	-9,866.07	1,849.05	1,748.25	100.79	18.345		
14,987.41	7,223.00	7,402.35	7,248.23	228.28	39.26	93.71	500.89	-9,866.08	1,764.68	1,661.04	103.64	17.027	CC, ES, SF	

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

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Reference Depths are relative to KB @ 4821.00ft

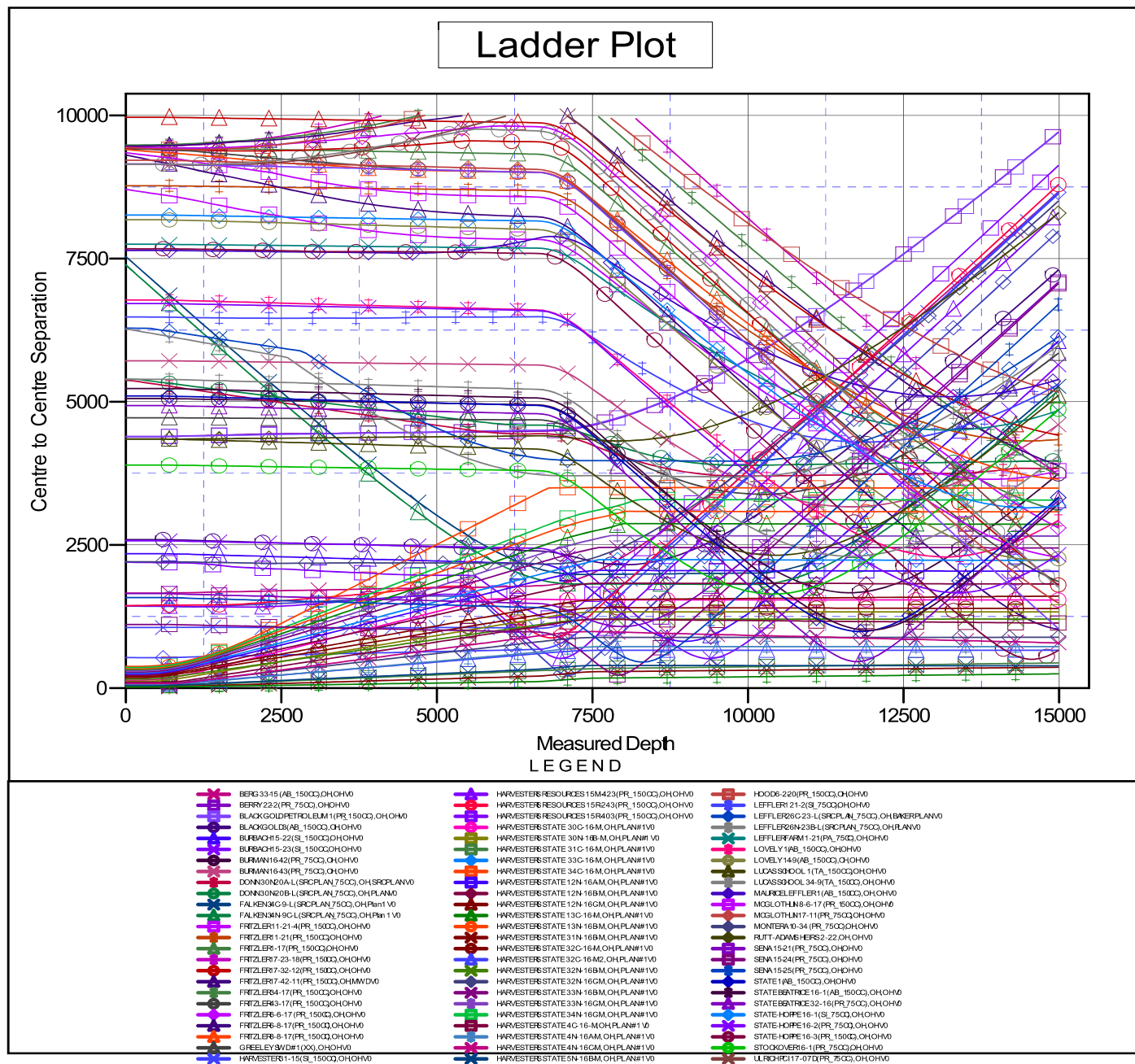
Offset Depths are relative to Offset Datum

Central Meridian is -105.5000000

Coordinates are relative to: HARVESTERS STATE 5C-16-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.48°



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 5C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4821.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4821.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 5C-16-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 ft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Reference Datum

Reference Depths are relative to KB @ 4821.00ft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.5000000

Coordinates are relative to: HARVESTERS STATE 5C-16-M  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.48°

