



# **SRC ENERGY**

**SECTION 15, T6N, R66W  
HARVESTERS STATE 7-15 PAD  
HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	15,257.41	PLAN #1 (OH)	MWD+IFR1	OWSG MWD + IFR1

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
HARVESTERS STATE 7-15 PAD						
BERG 33-15 (AB_150CC) - OH - OH	5,450.95	5,232.11	433.96	382.66	8.459	CC
BERG 33-15 (AB_150CC) - OH - OH	5,500.00	5,278.56	434.22	382.45	8.389	ES
BERG 33-15 (AB_150CC) - OH - OH	5,800.00	5,567.11	445.90	391.41	8.184	SF
BERRY 22-2(PR_75CC) - OH - OH	7,310.89	6,985.93	2,394.79	2,329.77	36.827	CC, ES
BERRY 22-2(PR_75CC) - OH - OH	7,700.00	7,152.90	2,466.11	2,397.30	35.841	SF
BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH	7,320.47	7,116.67	2,411.94	2,346.45	36.825	CC, ES
BLACK GOLD PETROLEUM 1(PR_150CC) - OH - OH	7,800.00	7,341.02	2,517.48	2,447.12	35.785	SF
BLACKGOLD 3(AB_150CC) - OH - OH	0.00	23.88	2,828.65			
BLACKGOLD 3(AB_150CC) - OH - OH	11,100.00	7,246.04	5,228.75	5,104.11	41.950	SF
BURBACH 15-22(SI_150CC) - OH - OH	200.00	180.00	2,457.91	2,448.97	275.040	CC
BURBACH 15-22(SI_150CC) - OH - OH	500.00	479.45	2,464.22	2,445.08	128.787	ES
BURBACH 15-22(SI_150CC) - OH - OH	9,800.00	7,217.52	3,108.44	2,782.02	9.523	SF
BURBACH 15-23(SI_150CC) - OH - OH	9,616.45	7,203.61	1,726.19	1,402.79	5.338	CC, ES
BURBACH 15-23(SI_150CC) - OH - OH	9,800.00	7,202.52	1,735.93	1,408.92	5.308	SF
BURMAN 16-42(PR_75CC) - OH - OH	11,884.80	7,179.10	570.33	187.24	1.489	Level 3, CC, ES
BURMAN 16-42(PR_75CC) - OH - OH	11,900.00	7,179.01	570.54	187.25	1.489	Level 3, SF
BURMAN 16-43(PR_75CC) - OH - OH	11,899.42	7,176.01	930.54	547.15	2.427	CC
BURMAN 16-43(PR_75CC) - OH - OH	11,900.00	7,176.01	930.54	547.13	2.427	ES
BURMAN 16-43(PR_75CC) - OH - OH	12,000.00	7,175.41	935.96	549.82	2.424	SF
DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN	10,232.66	7,309.56	1,478.96	1,355.21	11.952	CC
DONN 30N 20A-L(SRC PLAN_75CC) - OH - SRC PLAN	15,258.04	12,351.51	1,617.51	1,212.57	3.994	ES, SF
DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN	10,203.73	7,395.33	1,656.15	1,532.03	13.343	CC
DONN 30N-20B-L(SRC PLAN_75CC) - OH - PLAN	15,258.04	12,430.55	1,744.54	1,336.29	4.273	ES, SF
FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1	6,350.94	15,933.60	4,062.59	3,787.07	14.746	CC
FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1	6,400.00	15,934.80	4,062.88	3,786.43	14.696	ES
FALKEN 34C-9-L(SRC PLAN_75CC) - OH - Plan 1	10,900.00	19,118.26	4,281.26	3,835.17	9.597	SF
FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1	6,292.23	15,878.92	3,877.31	3,601.26	14.046	CC
FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1	6,400.00	15,881.91	3,878.80	3,600.67	13.946	ES
FALKEN 34N-9C-L(SRC PLAN_75CC) - OH - Plan 1	10,900.00	19,018.34	4,083.71	3,639.44	9.192	SF
FRITZLER 11-21-4(PR_150CC) - OH - OH	14,171.98	7,267.48	1,416.49	1,184.67	6.110	CC
FRITZLER 11-21-4(PR_150CC) - OH - OH	14,200.00	7,268.47	1,416.76	1,183.98	6.086	ES
FRITZLER 11-21-4(PR_150CC) - OH - OH	14,300.00	7,272.00	1,422.25	1,186.66	6.037	SF
FRITZLER 11-21(PR_150CC) - OH - OH	14,765.41	7,140.93	2,086.17	1,623.86	4.513	CC
FRITZLER 11-21(PR_150CC) - OH - OH	14,800.00	7,140.73	2,086.46	1,623.10	4.503	ES
FRITZLER 11-21(PR_150CC) - OH - OH	15,000.00	7,139.53	2,099.32	1,631.02	4.483	SF
FRITZLER 1-17(PR_150CC) - OH - OH	15,258.04	7,153.00	1,104.26	700.58	2.735	CC, ES, SF
FRITZLER 17-23-18(PR_150CC) - OH - OH	15,258.04	7,460.10	2,851.69	2,770.89	35.293	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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 17-32-12(PR_150CC) - OH - OH	15,258.04	7,572.78	1,892.76	1,698.34	9.735	CC, ES, SF
FRITZLER 17-42-11(PR_150CC) - OH - MWD	15,258.04	7,538.09	1,219.49	952.64	4.570	CC, ES, SF
FRITZLER 34-17(PR_150CC) - OH - OH	15,258.04	7,259.34	2,247.46	2,126.72	18.615	CC, ES, SF
FRITZLER 43-17(PR_150CC) - OH - OH	15,258.04	7,320.90	1,008.63	830.49	5.662	CC, ES, SF
FRITZLER 6-6-17 (PR_150CC) - OH - OH	15,258.04	7,184.41	1,509.51	1,431.38	19.321	CC, ES, SF
FRITZLER 6-8-17(PR_150CC) - OH - OH	15,258.04	7,256.96	1,999.52	1,813.20	10.731	CC, ES, SF
FRITZLER 8-8-17(PR_150CC) - OH - OH	15,258.04	7,224.10	1,429.81	1,170.30	5.510	CC, ES, SF
GREELEY SWD #1(XX) - OH - OH	10,468.07	7,169.54	1,146.80	802.51	3.331	CC
GREELEY SWD #1(XX) - OH - OH	10,500.00	7,169.35	1,147.24	801.96	3.323	ES
GREELEY SWD #1(XX) - OH - OH	10,600.00	7,168.75	1,154.36	806.38	3.317	SF
HARVESTER 31-15(SI_150CC) - OH - OH	0.00	0.00	1,294.55			
HARVESTER 31-15(SI_150CC) - OH - OH	8,800.00	7,363.39	3,762.02	3,683.16	47.704	SF
HARVESTER 32-15(SI_150CC) - OH - OH	100.00	77.52	542.18	535.61	82.531	CC, ES
HARVESTER 32-15(SI_150CC) - OH - OH	6,900.00	6,647.57	1,976.22	1,915.06	32.312	SF
HARVESTERS RESOURCES 15M-303 (PR_150CC) - O	7,353.41	10,643.47	185.49	89.17	1.926	CC
HARVESTERS RESOURCES 15M-303 (PR_150CC) - O	7,400.00	10,653.90	192.59	81.77	1.738	ES, SF
HARVESTERS RESOURCES 15M-423(PR_150CC) - O	7,224.04	10,684.08	496.36	389.74	4.656	CC, ES
HARVESTERS RESOURCES 15M-423(PR_150CC) - O	7,300.00	10,703.28	506.26	391.89	4.427	SF
HARVESTERS RESOURCES 15R-243(PR_150CC) - OH	7,088.17	10,613.62	841.83	726.68	7.311	CC
HARVESTERS RESOURCES 15R-243(PR_150CC) - OH	7,100.00	10,617.55	842.02	726.27	7.275	ES
HARVESTERS RESOURCES 15R-243(PR_150CC) - OH	7,200.00	10,644.58	858.29	738.37	7.157	SF
HARVESTERS RESOURCES 15R-403(PR_150CC) - OH	7,082.79	10,745.48	1,209.15	1,090.77	10.214	CC, ES
HARVESTERS RESOURCES 15R-403(PR_150CC) - OH	7,200.00	10,757.46	1,225.36	1,103.96	10.094	SF
HARVESTERS STATE 30C-16-M - OH - PLAN #1	200.00	202.00	399.66	392.99	59.868	CC, ES
HARVESTERS STATE 30C-16-M - OH - PLAN #1	15,258.04	15,216.01	3,769.92	3,312.46	8.241	SF
HARVESTERS STATE 30N-16B-M - OH - PLAN #1	200.00	202.00	379.99	373.32	56.922	CC, ES
HARVESTERS STATE 30N-16B-M - OH - PLAN #1	15,258.04	14,942.37	3,554.31	3,097.33	7.778	SF
HARVESTERS STATE 31C-16-M - OH - PLAN #1	200.00	201.00	299.84	293.16	44.920	CC, ES
HARVESTERS STATE 31C-16-M - OH - PLAN #1	15,258.04	14,995.55	2,670.06	2,213.08	5.843	SF
HARVESTERS STATE 34C-16-M - OH - PLAN #1	1,022.64	988.99	115.72	104.86	10.659	CC, ES
HARVESTERS STATE 34C-16-M - OH - PLAN #1	15,258.04	15,777.83	1,262.25	804.67	2.759	SF
HARVESTERS STATE 5C-16-M - OH - PLAN #1	200.00	201.00	259.76	253.09	38.917	CC, ES
HARVESTERS STATE 5C-16-M - OH - PLAN #1	15,258.04	14,987.41	2,229.98	1,773.09	4.881	SF
HARVESTERS STATE 12N-16A-M - OH - PLAN #1	947.89	952.93	19.11	8.66	1.829	CC, ES
HARVESTERS STATE 12N-16A-M - OH - PLAN #1	15,257.29	14,917.02	352.31	59.69	1.204	Level 2, SF
HARVESTERS STATE 12N-16B-M - OH - PLAN #1	847.58	856.46	38.89	29.16	3.994	CC
HARVESTERS STATE 12N-16B-M - OH - PLAN #1	15,258.04	14,984.82	447.38	19.63	1.046	Level 2, ES, SF
HARVESTERS STATE 12N-16C-M - OH - PLAN #1	724.27	735.13	59.02	50.09	6.610	CC, ES
HARVESTERS STATE 12N-16C-M - OH - PLAN #1	15,253.39	15,009.47	636.69	186.95	1.416	Level 3, SF
HARVESTERS STATE 13C-16-M - OH - PLAN #1	1,007.47	990.16	57.75	46.95	5.344	CC, ES
HARVESTERS STATE 13C-16-M - OH - PLAN #1	15,258.04	15,428.86	631.31	174.07	1.381	Level 3, SF
HARVESTERS STATE 13N-16B-M - OH - PLAN #1	1,012.65	989.89	77.06	66.23	7.119	CC, ES
HARVESTERS STATE 13N-16B-M - OH - PLAN #1	15,258.04	15,332.36	855.64	402.33	1.888	SF
HARVESTERS STATE 31N-16B-M - OH - PLAN #1	200.00	201.00	279.81	273.14	41.921	CC, ES
HARVESTERS STATE 31N-16B-M - OH - PLAN #1	15,258.04	14,817.75	2,467.05	2,013.04	5.434	SF
HARVESTERS STATE 32C-16-M - OH - PLAN #1	667.19	680.39	78.98	70.40	9.198	CC, ES
HARVESTERS STATE 32C-16-M - OH - PLAN #1	15,253.64	15,089.09	838.95	342.36	1.689	SF
HARVESTERS STATE 32C-16-M2 - OH - PLAN #1	200.00	201.00	199.66	192.98	29.912	CC, ES
HARVESTERS STATE 32C-16-M2 - OH - PLAN #1	15,247.63	15,012.65	1,568.63	1,111.79	3.434	SF
HARVESTERS STATE 32N-16B-M - OH - PLAN #1	200.00	200.00	99.84	93.16	14.959	CC, ES
HARVESTERS STATE 32N-16B-M - OH - PLAN #1	15,246.43	14,876.18	1,051.88	602.06	2.338	SF
HARVESTERS STATE 32N-16C-M - OH - PLAN #1	200.00	201.00	179.99	173.32	26.965	CC, ES
HARVESTERS STATE 32N-16C-M - OH - PLAN #1	15,250.15	14,920.92	1,354.99	900.09	2.979	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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33N-16B-M - OH - PLAN #1	1,000.00	994.53	19.34	8.54	1.791	CC
HARVESTERS STATE 33N-16B-M - OH - PLAN #1	15,258.04	15,142.04	262.91	-127.23	0.674	Level 1, ES, SF
HARVESTERS STATE 33N-16C-M - OH - PLAN #1	1,002.39	990.53	38.43	27.64	3.562	CC
HARVESTERS STATE 33N-16C-M - OH - PLAN #1	15,258.04	15,268.79	432.21	-17.11	0.962	Level 1, ES, SF
HARVESTERS STATE 34N-16C-M - OH - PLAN #1	1,017.83	989.62	96.37	85.53	8.888	CC, ES
HARVESTERS STATE 34N-16C-M - OH - PLAN #1	15,258.04	15,477.56	1,056.05	598.94	2.310	SF
HARVESTERS STATE 4N-16C-M - OH - PLAN #1	200.00	202.00	359.95	355.99	90.895	CC, ES
HARVESTERS STATE 4C-16-M - OH - PLAN #1	15,258.04	15,116.21	3,365.66	2,908.44	7.361	SF
HARVESTERS STATE 4N-16A-M - OH - PLAN #1	200.00	201.00	319.88	313.21	47.923	CC, ES
HARVESTERS STATE 4N-16A-M - OH - PLAN #1	15,258.04	14,732.12	2,905.09	2,450.28	6.387	SF
HARVESTERS STATE 4N-16C-M - OH - PLAN #1	200.00	201.00	339.92	333.25	50.926	CC, ES
HARVESTERS STATE 4N-16C-M - OH - PLAN #1	15,258.04	14,969.16	3,013.43	2,557.16	6.605	SF
HARVESTERS STATE 5N-16B-M - OH - PLAN #1	200.00	201.00	219.70	213.03	32.915	CC, ES
HARVESTERS STATE 5N-16B-M - OH - PLAN #1	15,249.90	14,814.91	1,899.13	1,444.63	4.179	SF
HARVESTERS STATE 5N-16C-M - OH - PLAN #1	200.00	201.00	239.73	233.06	35.916	CC, ES
HARVESTERS STATE 5N-16C-M - OH - PLAN #1	15,258.04	14,872.41	2,013.57	1,557.94	4.419	SF
HOOD 41-20(PR_150CC) - OH - OH	15,258.04	7,145.00	2,264.77	1,806.65	4.944	CC, ES, SF
HOOD 6-2-20(PR_150CC) - OH - OH	15,258.04	7,565.84	3,078.79	2,842.14	13.010	CC, ES, SF
LEFFLER 1 21-2(SI_75CC) - OH - OH	12,120.39	7,130.53	2,059.75	1,888.48	12.026	CC
LEFFLER 1 21-2(SI_75CC) - OH - OH	12,200.00	7,135.12	2,061.28	1,887.64	11.871	ES
LEFFLER 1 21-2(SI_75CC) - OH - OH	12,500.00	7,152.42	2,094.33	1,913.59	11.588	SF
LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P	7,500.00	10,256.32	1,763.15	1,623.07	12.587	SF
LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P	7,800.00	9,976.69	1,731.73	1,597.77	12.927	ES
LEFFLER 26C-23-L(SRC PLAN_75CC) - OH - BAKER P	10,050.17	7,730.93	1,725.03	1,602.78	14.111	CC
LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN	7,400.00	10,192.58	1,512.34	1,370.24	10.642	SF
LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN	10,056.75	7,591.14	1,455.40	1,333.88	11.976	CC
LEFFLER 26N-23B-L(SRC PLAN_75CC) - OH - PLAN	10,100.00	7,567.90	1,455.71	1,333.24	11.887	ES
LEFFLER FARM 1-21(PA_75CC) - OH - OH	13,448.46	7,150.78	2,273.83	1,848.21	5.342	CC
LEFFLER FARM 1-21(PA_75CC) - OH - OH	13,500.00	7,150.47	2,274.42	1,847.25	5.324	ES
LEFFLER FARM 1-21(PA_75CC) - OH - OH	13,700.00	7,149.28	2,287.70	1,855.40	5.292	SF
LOVELY 1(AB_150CC) - OH - OH	13,421.21	7,202.06	4,525.15	4,098.50	10.606	CC
LOVELY 1(AB_150CC) - OH - OH	13,500.00	7,202.53	4,525.84	4,097.11	10.556	ES
LOVELY 1(AB_150CC) - OH - OH	14,300.00	7,207.30	4,609.69	4,163.01	10.320	SF
LOVELY 14-9(AB_150CC) - OH - OH	14,917.85	7,207.98	4,468.74	3,999.80	9.529	CC
LOVELY 14-9(AB_150CC) - OH - OH	15,000.00	7,208.47	4,469.50	3,998.38	9.487	ES
LOVELY 14-9(AB_150CC) - OH - OH	15,258.04	7,190.00	4,481.67	4,004.90	9.400	SF
LUCAS SCHOOL 1(TA_150CC) - OH - OH	200.00	202.00	4,497.14	4,487.56	469.662	CC
LUCAS SCHOOL 1(TA_150CC) - OH - OH	10,800.00	7,233.56	4,560.94	4,205.72	12.840	ES
LUCAS SCHOOL 1(TA_150CC) - OH - OH	11,800.00	7,227.60	4,692.21	4,314.71	12.430	SF
LUCAS SCHOOL 34-9(TA_150CC) - OH - OH	11,908.15	7,186.96	4,537.83	4,153.82	11.817	CC
LUCAS SCHOOL 34-9(TA_150CC) - OH - OH	12,000.00	7,186.41	4,538.76	4,152.39	11.747	ES
LUCAS SCHOOL 34-9(TA_150CC) - OH - OH	12,900.00	7,181.05	4,644.96	4,238.57	11.430	SF
MAURICE LEFFLER 1(AB_150CC) - OH - OH	13,470.01	4,452.00	3,404.13	3,185.64	15.580	CC
MAURICE LEFFLER 1(AB_150CC) - OH - OH	13,500.00	4,452.00	3,404.27	3,185.17	15.538	ES
MAURICE LEFFLER 1(AB_150CC) - OH - OH	14,500.00	4,452.00	3,556.55	3,316.65	14.825	SF
MCGLOTHLIN 8-6-17 (PR_150CC) - OH - OH	15,258.04	7,335.82	236.18	143.23	2.541	CC, ES, SF
MCGLOTHLIN 17-11(PR_75CC) - OH - OH	15,258.04	7,176.00	3,485.07	3,014.26	7.402	CC, ES, SF
MONTERA 10-34 (PR_75CC) - OH - OH	225.54	261.52	2,465.92	2,459.16	364.658	CC, ES
MONTERA 10-34 (PR_75CC) - OH - OH	10,600.00	7,334.89	5,665.40	5,557.06	52.295	SF
RUTT-ADAMS HEIRS 2-22 - OH - OH	8,148.46	7,188.36	2,073.87	1,782.65	7.121	CC
RUTT-ADAMS HEIRS 2-22 - OH - OH	8,200.00	7,188.05	2,074.51	1,782.39	7.102	ES
RUTT-ADAMS HEIRS 2-22 - OH - OH	8,400.00	7,186.86	2,089.07	1,793.14	7.059	SF
SENA 15-21(PR_75CC) - OH - OH	200.00	204.00	1,842.06	1,832.43	191.189	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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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						
SENA 15-21(PR_75CC) - OH - OH	300.00	304.02	1,843.32	1,830.43	142.952	ES
SENA 15-21(PR_75CC) - OH - OH	8,900.00	7,238.88	3,383.73	3,077.89	11.064	SF
SENA 15-24(PR_75CC) - OH - OH	200.00	182.00	1,109.22	1,100.23	123.339	CC
SENA 15-24(PR_75CC) - OH - OH	1,000.00	971.65	1,118.20	1,080.47	29.632	ES
SENA 15-24(PR_75CC) - OH - OH	8,400.00	7,227.86	2,024.55	1,728.29	6.834	SF
SENA 15-25(PR_75CC) - OH - OH	200.00	189.00	1,686.25	1,677.06	183.406	CC
SENA 15-25(PR_75CC) - OH - OH	500.00	488.45	1,692.66	1,673.22	87.066	ES
SENA 15-25(PR_75CC) - OH - OH	9,000.00	7,231.29	2,732.50	2,424.35	8.868	SF
STATE 1(AB_150CC) - OH - OH	12,061.54	7,176.04	3,224.68	2,836.81	8.314	CC
STATE 1(AB_150CC) - OH - OH	12,100.00	7,175.81	3,224.91	2,836.08	8.294	ES
STATE 1(AB_150CC) - OH - OH	12,600.00	7,172.83	3,269.33	2,869.70	8.181	SF
STATE BEATRICE 16-1(AB_150CC) - OH - OH	12,191.30	7,177.27	3,246.23	2,854.72	8.292	CC
STATE BEATRICE 16-1(AB_150CC) - OH - OH	12,300.00	7,176.62	3,248.05	2,853.86	8.240	ES
STATE BEATRICE 16-1(AB_150CC) - OH - OH	12,700.00	7,174.24	3,285.85	2,883.12	8.159	SF
STATE BEATRICE 32-16(PR_75CC) - OH - OH	11,997.15	7,171.43	1,773.24	1,387.31	4.595	CC
STATE BEATRICE 32-16(PR_75CC) - OH - OH	12,000.00	7,171.41	1,773.24	1,387.24	4.594	ES
STATE BEATRICE 32-16(PR_75CC) - OH - OH	12,100.00	7,170.81	1,776.22	1,388.07	4.576	SF
STATE-HOPPE 16-1(SI_75CC) - OH - OH	14,750.72	7,152.02	918.28	456.00	1.986	CC
STATE-HOPPE 16-1(SI_75CC) - OH - OH	14,800.00	7,151.73	919.60	455.87	1.983	ES, SF
STATE-HOPPE 16-2(PR_75CC) - OH - OH	13,606.39	7,171.84	566.94	136.15	1.316	Level 3, CC, ES, SF
STATE-HOPPE 16-3(PR_150CC) - OH - OH	14,812.39	7,182.68	1,729.35	1,482.58	7.008	CC, ES
STATE-HOPPE 16-3(PR_150CC) - OH - OH	15,000.00	7,185.57	1,739.50	1,489.38	6.955	SF
STOCKOVER 16-1(PR_75CC) - OH - OH	10,654.61	7,171.43	595.37	246.04	1.704	CC, ES, SF
ULRICH PC I 17-07D(PR_75CC) - OH - OH	15,258.04	7,330.74	2,794.35	2,601.87	14.518	CC, ES, SF
ULRICH PC I 17-08(PR_75CC) - OH - OH	15,258.04	7,167.00	2,127.38	1,671.38	4.665	CC, ES, SF
ULRICH PC I 17-17D(PR_75CC) - OH - OH	15,258.04	7,421.61	3,179.90	2,948.89	13.765	CC, ES, SF

<b>Offset Design</b> 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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	37.00	3.28	3.28	165.50	-1,360.31	351.87	1,405.57				
100.00	100.00	60.14	97.14	3.28	3.28	165.50	-1,360.37	351.87	1,405.14	1,398.58	6.57	213.962	
200.00	200.00	158.72	195.72	3.34	3.31	165.50	-1,360.68	351.85	1,405.44	1,398.79	6.65	211.343	
300.00	299.98	260.93	297.93	3.44	3.40	-19.27	-1,361.00	351.64	1,404.04	1,397.20	6.84	205.201	
400.00	399.84	361.52	398.52	3.59	3.54	-19.37	-1,361.11	351.57	1,399.19	1,392.06	7.13	196.159	
500.00	499.45	460.81	497.81	3.79	3.72	-19.55	-1,361.21	351.59	1,391.08	1,383.57	7.51	185.128	
600.00	598.70	556.68	593.68	4.03	3.93	-19.79	-1,361.37	351.72	1,379.79	1,371.82	7.97	173.186	
700.00	697.47	652.80	689.79	4.31	4.18	-20.10	-1,361.85	351.83	1,365.57	1,357.08	8.49	160.893	
800.00	795.62	753.11	790.11	4.64	4.45	-20.50	-1,362.44	351.68	1,348.15	1,339.08	9.08	148.525	
900.00	893.06	853.46	890.45	5.00	4.76	-20.97	-1,362.88	351.14	1,327.32	1,317.61	9.72	136.609	
1,000.00	989.65	951.71	988.70	5.40	5.07	-21.52	-1,363.16	350.64	1,303.24	1,292.84	10.40	125.359	
1,100.00	1,085.85	1,046.94	1,083.93	5.82	5.39	-21.93	-1,363.41	349.98	1,277.82	1,266.73	11.08	115.277	
1,200.00	1,182.06	1,141.45	1,178.44	6.27	5.71	-22.36	-1,363.83	349.42	1,252.66	1,240.86	11.80	106.150	
1,300.00	1,278.26	1,238.07	1,275.05	6.73	6.06	-22.81	-1,364.30	348.79	1,227.59	1,215.04	12.55	97.830	
1,400.00	1,374.47	1,335.24	1,372.21	7.20	6.41	-23.27	-1,364.80	348.02	1,202.58	1,189.26	13.32	90.298	
1,500.00	1,470.67	1,434.06	1,471.03	7.69	6.78	-23.76	-1,365.14	347.23	1,177.49	1,163.38	14.11	83.454	
1,600.00	1,566.88	1,532.64	1,569.61	8.18	7.15	-24.28	-1,365.22	346.53	1,152.27	1,137.35	14.91	77.259	
1,700.00	1,663.08	1,629.19	1,666.15	8.68	7.52	-24.80	-1,365.26	345.53	1,127.00	1,111.27	15.73	71.664	

CC - Min centre to center distance or covergent 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
1,800.00	1,759.29	1,723.13	1,760.10	9.19	7.88	-25.33	-1,365.43	344.61	1,101.95	1,085.41	16.54	66.614		
1,900.00	1,855.49	1,818.30	1,855.26	9.70	8.26	-25.89	-1,365.74	343.71	1,077.16	1,059.79	17.37	62.005		
2,000.00	1,951.70	1,914.88	1,951.84	10.22	8.64	-26.48	-1,366.09	342.77	1,052.49	1,034.27	18.22	57.781		
2,100.00	2,047.90	2,009.80	2,046.74	10.73	9.02	-27.07	-1,366.57	341.68	1,028.00	1,008.93	19.06	53.929		
2,200.00	2,144.11	2,106.31	2,143.24	11.26	9.40	-27.71	-1,367.11	340.58	1,003.67	983.75	19.92	50.385		
2,300.00	2,240.31	2,200.94	2,237.87	11.78	9.79	-28.38	-1,367.60	339.83	979.56	958.77	20.78	47.137		
2,400.00	2,336.52	2,296.87	2,333.80	12.31	10.17	-29.09	-1,368.17	339.14	955.68	934.03	21.65	44.139		
2,500.00	2,432.72	2,397.39	2,434.31	12.84	10.58	-29.87	-1,368.66	338.19	931.78	909.24	22.54	41.345		
2,600.00	2,528.93	2,493.72	2,530.63	13.37	10.98	-30.67	-1,368.85	337.34	907.80	884.38	23.42	38.763		
2,700.00	2,625.13	2,590.44	2,627.36	13.91	11.37	-31.53	-1,368.89	336.75	883.98	859.68	24.31	36.365		
2,800.00	2,721.34	2,684.73	2,721.65	14.44	11.76	-32.42	-1,368.97	336.27	860.44	835.24	25.20	34.144		
2,900.00	2,817.54	2,780.52	2,817.43	14.98	12.16	-33.36	-1,369.23	335.76	837.27	811.17	26.10	32.078		
3,000.00	2,913.75	2,877.18	2,914.09	15.52	12.56	-34.37	-1,369.48	335.28	814.34	787.33	27.01	30.151		
3,100.00	3,009.95	2,972.62	3,009.53	16.06	12.95	-35.43	-1,369.69	334.87	791.67	763.75	27.92	28.354		
3,200.00	3,106.16	3,067.85	3,104.76	16.60	13.35	-36.54	-1,370.10	334.40	769.42	740.58	28.84	26.679		
3,300.00	3,202.37	3,164.22	3,201.13	17.14	13.75	-37.72	-1,370.57	333.98	747.55	717.79	29.77	25.113		
3,400.00	3,298.57	3,263.57	3,300.47	17.68	14.16	-39.04	-1,370.72	333.78	725.86	695.16	30.70	23.642		
3,500.00	3,394.78	3,362.86	3,399.77	18.22	14.57	-40.43	-1,370.51	333.17	704.04	672.39	31.64	22.249		
3,600.00	3,490.98	3,458.94	3,495.84	18.76	14.98	-41.87	-1,370.04	332.54	682.38	649.79	32.59	20.937		
3,700.00	3,587.19	3,553.43	3,590.33	19.31	15.37	-43.35	-1,369.88	331.81	661.35	627.80	33.55	19.713		
3,800.00	3,683.39	3,647.22	3,684.11	19.85	15.76	-44.90	-1,370.04	331.12	641.08	606.57	34.51	18.574		
3,900.00	3,779.60	3,741.74	3,778.63	20.39	16.16	-46.51	-1,370.78	330.34	621.72	586.23	35.49	17.519		
4,000.00	3,875.80	3,838.38	3,875.26	20.94	16.57	-48.25	-1,371.66	329.58	603.01	566.54	36.47	16.535		
4,100.00	3,972.01	3,935.76	3,972.63	21.48	16.98	-50.13	-1,372.26	328.91	584.76	547.30	37.46	15.610		
4,200.00	4,068.21	4,032.56	4,069.43	22.03	17.38	-52.13	-1,372.76	328.19	567.06	528.60	38.46	14.744		
4,300.00	4,164.42	4,129.08	4,165.94	22.57	17.79	-54.23	-1,373.25	327.40	550.05	510.58	39.47	13.936		
4,400.00	4,260.62	4,226.59	4,263.45	23.12	18.20	-56.51	-1,373.52	326.77	533.81	493.33	40.49	13.184		
4,500.00	4,356.83	4,325.94	4,362.80	23.67	18.62	-59.03	-1,373.01	325.95	517.88	476.36	41.52	12.474		
4,600.00	4,453.03	4,421.14	4,457.99	24.21	19.02	-61.60	-1,372.43	325.17	502.92	460.36	42.56	11.817		
4,700.00	4,549.24	4,518.82	4,555.67	24.76	19.43	-64.37	-1,371.86	324.23	488.99	445.38	43.60	11.214		
4,800.00	4,645.44	4,615.85	4,652.68	25.31	19.84	-67.31	-1,370.71	323.13	475.85	431.19	44.66	10.656		
4,900.00	4,741.65	4,705.64	4,742.47	25.86	20.22	-70.23	-1,369.48	322.98	464.82	419.11	45.71	10.169		
5,000.00	4,837.85	4,808.76	4,845.58	26.40	20.65	-73.70	-1,368.23	322.48	455.12	408.36	46.76	9.733		
5,100.00	4,934.06	4,902.38	4,939.19	26.95	21.05	-76.82	-1,368.02	321.25	446.56	398.75	47.80	9.342		
5,200.00	5,030.26	4,992.25	5,029.05	27.50	21.43	-79.85	-1,368.50	320.70	440.39	391.57	48.82	9.021		
5,300.00	5,126.47	5,089.36	5,126.17	28.05	21.84	-83.29	-1,368.47	320.94	436.46	386.63	49.83	8.760		
5,400.00	5,222.67	5,183.97	5,220.77	28.60	22.23	-86.82	-1,367.41	321.32	434.24	383.43	50.81	8.546		
5,450.95	5,271.69	5,232.11	5,268.90	28.88	22.43	-88.65	-1,366.68	321.68	433.96	382.66	51.30	8.459 CC		
5,500.00	5,318.88	5,278.56	5,315.34	29.15	22.63	-90.42	-1,365.96	322.08	434.22	382.45	51.76	8.389 ES		
5,600.00	5,415.08	5,372.19	5,408.96	29.70	23.02	-93.94	-1,364.75	323.15	436.43	383.75	52.68	8.285		
5,700.00	5,511.29	5,470.50	5,507.26	30.25	23.43	-97.48	-1,364.29	324.44	440.62	387.02	53.60	8.221		
5,800.00	5,607.49	5,567.11	5,603.87	30.79	23.84	-100.84	-1,364.35	325.15	445.90	391.41	54.48	8.184 SF		
5,900.00	5,703.70	5,660.84	5,697.59	31.34	24.23	-104.07	-1,363.87	326.07	453.09	397.77	55.31	8.191		
6,000.00	5,799.90	5,760.40	5,797.14	31.89	24.65	-107.39	-1,363.38	327.24	462.04	405.86	56.18	8.224		
6,100.00	5,896.11	5,857.65	5,894.39	32.44	25.06	-110.53	-1,362.99	327.34	471.44	414.43	57.01	8.269		
6,200.00	5,992.32	5,948.97	5,985.70	32.99	25.45	-113.33	-1,362.72	328.01	482.80	425.04	57.76	8.359		
6,300.00	6,088.52	6,042.32	6,079.04	33.54	25.84	-116.01	-1,362.52	329.78	496.44	437.92	58.52	8.483		
6,400.00	6,184.73	6,141.00	6,177.70	34.09	26.26	-118.64	-1,362.88	331.75	511.06	451.72	59.34	8.612		
6,500.00	6,280.93	6,236.89	6,273.58	34.64	26.66	-121.11	-1,362.92	333.03	526.27	466.15	60.12	8.754		
6,600.00	6,377.14	6,330.59	6,367.26	35.19	27.06	-123.39	-1,362.69	334.84	543.05	482.19	60.87	8.922		
6,700.00	6,473.34	6,430.75	6,467.41	35.74	27.48	-125.64	-1,363.02	336.68	560.35	498.65	61.70	9.081		
6,800.00	6,569.55	6,531.18	6,567.80	36.29	27.91	-127.64	-1,364.65	338.63	577.79	515.24	62.55	9.237		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
6,900.00	6,665.75	6,632.21	6,668.82	36.84	28.34	-134.38	-1,366.25	339.50	595.16	531.75	63.41	9.386		
7,000.00	6,761.11	6,772.94	6,763.66	37.39	28.93	-163.28	-1,366.85	339.25	620.66	556.26	64.40	9.638		
7,100.00	6,853.41	6,819.55	6,856.15	37.89	29.13	178.48	-1,367.88	339.55	658.28	593.26	65.02	10.124		
7,200.00	6,940.36	6,906.63	6,943.22	38.34	29.50	166.90	-1,368.84	339.84	706.76	640.94	65.82	10.738		
7,300.00	7,019.83	6,986.17	7,022.75	38.74	29.84	158.48	-1,369.72	340.09	765.17	698.59	66.58	11.493		
7,400.00	7,089.85	7,056.19	7,092.77	39.10	30.14	151.12	-1,370.50	340.32	832.56	765.29	67.27	12.377		
7,500.00	7,148.71	7,114.98	7,151.55	39.42	30.39	143.32	-1,371.15	340.51	907.86	840.00	67.86	13.378		
7,600.00	7,194.95	7,161.08	7,197.66	39.71	30.59	133.66	-1,371.66	340.66	989.75	921.41	68.34	14.482		
7,700.00	7,227.43	7,193.37	7,229.94	40.01	30.72	120.68	-1,372.01	340.77	1,076.63	1,007.93	68.71	15.670		
7,800.00	7,245.37	7,211.05	7,247.62	40.37	30.80	103.61	-1,372.21	340.82	1,166.67	1,097.73	68.95	16.922		
7,900.00	7,248.84	7,214.22	7,250.79	40.87	30.81	89.44	-1,372.24	340.83	1,257.91	1,188.83	69.07	18.211		
8,000.00	7,248.24	7,213.31	7,249.87	41.62	30.81	89.34	-1,372.23	340.83	1,350.07	1,280.90	69.17	19.518		
8,100.00	7,247.65	7,212.39	7,248.96	42.66	30.80	89.24	-1,372.22	340.83	1,443.27	1,374.01	69.26	20.838		
8,200.00	7,247.05	7,211.48	7,248.05	43.96	30.80	89.13	-1,372.21	340.82	1,537.33	1,467.99	69.34	22.170		
8,300.00	7,246.46	7,210.57	7,247.14	45.46	30.80	89.03	-1,372.20	340.82	1,632.09	1,562.67	69.42	23.510		
8,400.00	7,245.86	7,209.65	7,246.22	47.13	30.79	88.93	-1,372.19	340.82	1,727.45	1,657.96	69.49	24.859		
8,500.00	7,245.27	7,208.74	7,245.31	48.93	30.79	88.82	-1,372.18	340.82	1,823.30	1,753.74	69.56	26.213		
8,600.00	7,244.67	7,207.83	7,244.40	50.84	30.79	88.72	-1,372.17	340.81	1,919.57	1,849.95	69.62	27.572		
8,700.00	7,244.07	7,206.91	7,243.48	52.85	30.78	88.62	-1,372.16	340.81	2,016.21	1,946.53	69.68	28.936		
8,800.00	7,243.48	7,206.00	7,242.57	54.94	30.78	88.51	-1,372.15	340.81	2,113.16	2,043.42	69.73	30.303		
8,900.00	7,242.88	7,205.09	7,241.66	57.10	30.77	88.41	-1,372.14	340.80	2,210.38	2,140.59	69.79	31.674		
9,000.00	7,242.29	7,204.17	7,240.74	59.32	30.77	88.31	-1,372.13	340.80	2,307.84	2,238.00	69.84	33.046		
9,100.00	7,241.69	7,203.26	7,239.83	61.60	30.77	88.20	-1,372.12	340.80	2,405.50	2,335.62	69.89	34.421		
9,200.00	7,241.09	7,202.35	7,238.92	63.92	30.76	88.10	-1,372.11	340.79	2,503.35	2,433.42	69.93	35.797		
9,300.00	7,240.50	7,201.43	7,238.00	66.29	30.76	88.00	-1,372.10	340.79	2,601.37	2,531.39	69.98	37.174		
9,400.00	7,239.90	7,200.52	7,237.09	68.70	30.75	87.89	-1,372.09	340.79	2,699.52	2,629.50	70.02	38.552		
9,500.00	7,239.31	7,199.61	7,236.18	71.14	30.75	87.79	-1,372.08	340.79	2,797.81	2,727.75	70.07	39.931		
9,600.00	7,238.71	7,198.69	7,235.26	73.61	30.75	87.69	-1,372.07	340.78	2,896.22	2,826.11	70.11	41.311		
9,700.00	7,238.11	7,197.78	7,234.35	76.11	30.74	87.58	-1,372.06	340.78	2,994.73	2,924.58	70.15	42.690		
9,800.00	7,237.52	7,196.87	7,233.44	78.64	30.74	87.48	-1,372.05	340.78	3,093.34	3,023.14	70.19	44.070		
9,900.00	7,236.92	7,195.95	7,232.52	81.19	30.73	87.38	-1,372.04	340.77	3,192.03	3,121.80	70.23	45.449		
10,000.00	7,236.33	7,195.04	7,231.61	83.75	30.73	87.27	-1,372.03	340.77	3,290.80	3,220.53	70.27	46.828		
10,100.00	7,235.73	7,194.13	7,230.70	86.34	30.73	87.17	-1,372.02	340.77	3,389.64	3,319.33	70.31	48.207		
10,200.00	7,235.14	7,193.21	7,229.78	88.94	30.72	87.07	-1,372.01	340.77	3,488.55	3,418.20	70.35	49.585		
10,300.00	7,234.54	7,192.30	7,228.87	91.56	30.72	86.96	-1,372.00	340.76	3,587.52	3,517.13	70.40	50.962		
10,400.00	7,233.94	7,191.39	7,227.96	94.19	30.72	86.86	-1,371.99	340.76	3,686.55	3,616.11	70.44	52.339		
10,500.00	7,233.35	7,190.47	7,227.04	96.84	30.71	86.76	-1,371.98	340.76	3,785.62	3,715.15	70.48	53.715		
10,600.00	7,232.75	7,189.56	7,226.13	99.50	30.71	86.66	-1,371.97	340.75	3,884.74	3,814.23	70.52	55.089		
10,700.00	7,232.16	7,188.65	7,225.22	102.17	30.70	86.55	-1,371.96	340.75	3,983.91	3,913.35	70.56	56.462		
10,800.00	7,231.56	7,187.73	7,224.30	104.85	30.70	86.45	-1,371.95	340.75	4,083.12	4,012.52	70.60	57.835		
10,900.00	7,230.96	7,186.82	7,223.39	107.53	30.70	86.35	-1,371.94	340.74	4,182.36	4,111.72	70.64	59.205		
11,000.00	7,230.37	7,185.91	7,222.48	110.23	30.69	86.24	-1,371.93	340.74	4,281.64	4,210.96	70.68	60.575		
11,100.00	7,229.77	7,184.99	7,221.56	112.93	30.69	86.14	-1,371.92	340.74	4,380.95	4,310.23	70.73	61.943		
11,200.00	7,229.18	7,184.08	7,220.65	115.65	30.68	86.04	-1,371.91	340.74	4,480.30	4,409.53	70.77	63.309		
11,300.00	7,228.58	7,183.17	7,219.74	118.37	30.68	85.94	-1,371.90	340.73	4,579.67	4,508.86	70.81	64.674		
11,400.00	7,227.99	7,182.25	7,218.83	121.09	30.68	85.83	-1,371.89	340.73	4,679.06	4,608.21	70.86	66.037		
11,500.00	7,227.39	7,181.34	7,217.91	123.82	30.67	85.73	-1,371.88	340.73	4,778.49	4,707.59	70.90	67.398		
11,600.00	7,226.79	7,180.43	7,217.00	126.56	30.67	85.63	-1,371.87	340.72	4,877.93	4,806.99	70.94	68.757		
11,700.00	7,226.20	7,179.51	7,216.09	129.30	30.66	85.52	-1,371.86	340.72	4,977.40	4,906.41	70.99	70.115		
11,800.00	7,225.60	7,178.60	7,215.17	132.05	30.66	85.42	-1,371.85	340.72	5,076.89	5,005.85	71.03	71.470		
11,900.00	7,225.01	7,177.69	7,214.26	134.80	30.66	85.32	-1,371.84	340.71	5,176.40	5,105.32	71.08	72.824		
12,000.00	7,224.41	7,176.77	7,213.35	137.56	30.65	85.22	-1,371.83	340.71	5,275.92	5,204.80	71.13	74.175		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
12,100.00	7,223.81	7,175.86	7,212.43	140.32	30.65	85.11	-1,371.82	340.71	5,375.47	5,304.29	71.18	75.524		
12,200.00	7,223.22	7,174.95	7,211.52	143.08	30.65	85.01	-1,371.81	340.71	5,475.03	5,403.81	71.22	76.871		
12,300.00	7,222.62	7,174.03	7,210.61	145.85	30.64	84.91	-1,371.80	340.70	5,574.61	5,503.33	71.27	78.216		
12,400.00	7,222.03	7,173.12	7,209.69	148.62	30.64	84.81	-1,371.79	340.70	5,674.20	5,602.88	71.32	79.559		
12,500.00	7,221.43	7,172.21	7,208.78	151.40	30.63	84.70	-1,371.78	340.70	5,773.80	5,702.43	71.37	80.899		
12,600.00	7,220.83	7,171.29	7,207.87	154.18	30.63	84.60	-1,371.77	340.69	5,873.42	5,802.00	71.42	82.237		
12,700.00	7,220.24	7,170.38	7,206.95	156.96	30.63	84.50	-1,371.76	340.69	5,973.05	5,901.58	71.47	83.572		
12,800.00	7,219.64	7,169.47	7,206.04	159.74	30.62	84.40	-1,371.75	340.69	6,072.69	6,001.17	71.52	84.905		
12,900.00	7,219.05	7,168.55	7,205.13	162.53	30.62	84.29	-1,371.74	340.69	6,172.35	6,100.77	71.58	86.235		
13,000.00	7,218.45	7,167.64	7,204.21	165.32	30.61	84.19	-1,371.73	340.68	6,272.01	6,200.38	71.63	87.563		
13,100.00	7,217.86	7,166.73	7,203.30	168.11	30.61	84.09	-1,371.72	340.68	6,371.69	6,300.01	71.68	88.888		
13,200.00	7,217.26	7,165.81	7,202.39	170.90	30.61	83.99	-1,371.71	340.68	6,471.37	6,399.64	71.74	90.210		
13,300.00	7,216.66	7,164.90	7,201.47	173.70	30.60	83.89	-1,371.70	340.67	6,571.07	6,499.28	71.79	91.530		
13,400.00	7,216.07	7,163.99	7,200.56	176.49	30.60	83.78	-1,371.69	340.67	6,670.77	6,598.92	71.85	92.847		
13,500.00	7,215.47	7,163.08	7,199.65	179.29	30.59	83.68	-1,371.68	340.67	6,770.48	6,698.58	71.90	94.161		
13,600.00	7,214.88	7,162.16	7,198.73	182.09	30.59	83.58	-1,371.67	340.66	6,870.20	6,798.24	71.96	95.472		
13,700.00	7,214.28	7,161.25	7,197.82	184.90	30.59	83.48	-1,371.66	340.66	6,969.93	6,897.92	72.02	96.781		
13,800.00	7,213.68	7,160.34	7,196.91	187.70	30.58	83.38	-1,371.65	340.66	7,069.67	6,997.59	72.08	98.086		
13,900.00	7,213.09	7,159.42	7,195.99	190.51	30.58	83.27	-1,371.64	340.66	7,169.41	7,097.28	72.13	99.389		
14,000.00	7,212.49	7,158.51	7,195.08	193.32	30.58	83.17	-1,371.63	340.65	7,269.16	7,196.97	72.19	100.689		
14,100.00	7,211.90	7,157.60	7,194.17	196.13	30.57	83.07	-1,371.62	340.65	7,368.92	7,296.67	72.25	101.985		
14,200.00	7,211.30	7,156.68	7,193.26	198.94	30.57	82.97	-1,371.61	340.65	7,468.68	7,396.37	72.32	103.279		
14,300.00	7,210.71	7,155.77	7,192.34	201.75	30.56	82.87	-1,371.60	340.64	7,568.45	7,496.08	72.38	104.569		
14,400.00	7,210.11	7,154.86	7,191.43	204.56	30.56	82.77	-1,371.59	340.64	7,668.23	7,595.79	72.44	105.857		
14,500.00	7,209.51	7,153.94	7,190.52	207.38	30.56	82.66	-1,371.58	340.64	7,768.01	7,695.51	72.50	107.141		
14,600.00	7,208.92	7,153.03	7,189.60	210.19	30.55	82.56	-1,371.57	340.63	7,867.80	7,795.23	72.57	108.422		
14,700.00	7,208.32	7,152.12	7,188.69	213.01	30.55	82.46	-1,371.56	340.63	7,967.59	7,894.96	72.63	109.700		
14,800.00	7,207.73	7,151.20	7,187.78	215.83	30.54	82.36	-1,371.55	340.63	8,067.38	7,994.69	72.70	110.975		
14,900.00	7,207.13	7,150.29	7,186.86	218.65	30.54	82.26	-1,371.54	340.63	8,167.19	8,094.42	72.76	112.246		
15,000.00	7,206.53	7,149.38	7,185.95	221.47	30.54	82.16	-1,371.53	340.62	8,266.99	8,194.16	72.83	113.514		
15,100.00	7,205.94	7,148.46	7,185.04	224.29	30.53	82.06	-1,371.52	340.62	8,366.80	8,293.91	72.89	114.779		
15,200.00	7,205.34	7,147.55	7,184.12	227.11	30.53	81.96	-1,371.51	340.62	8,466.62	8,393.66	72.96	116.041		
15,258.04	7,205.00	7,147.02	7,183.59	228.75	30.53	81.90	-1,371.50	340.62	8,524.56	8,451.55	73.00	116.771		





## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	69.00	3.28	3.28	172.39	-4,099.51	547.47	4,136.48				
100.00	100.00	30.37	99.37	3.28	3.28	172.39	-4,099.52	547.46	4,135.91	4,129.34	6.57	629.961	
200.00	200.00	126.03	195.03	3.34	3.30	172.40	-4,099.59	547.24	4,135.96	4,129.32	6.63	623.528	
300.00	299.98	216.72	285.72	3.44	3.36	-12.36	-4,099.84	546.98	4,134.49	4,127.69	6.80	608.303	
400.00	399.84	311.72	380.72	3.59	3.47	-12.40	-4,100.25	546.89	4,129.79	4,122.74	7.06	585.125	
500.00	499.45	413.80	482.79	3.79	3.63	-12.46	-4,100.69	546.93	4,121.71	4,114.28	7.42	555.248	
600.00	598.70	511.83	580.83	4.03	3.83	-12.54	-4,101.11	546.94	4,110.23	4,102.36	7.86	522.629	
700.00	697.47	613.96	682.96	4.31	4.07	-12.65	-4,101.55	546.69	4,095.35	4,086.96	8.39	488.344	
800.00	795.62	716.08	785.07	4.64	4.35	-12.79	-4,101.91	546.20	4,077.00	4,068.03	8.97	454.559	
900.00	893.06	806.93	875.92	5.00	4.61	-12.94	-4,102.33	545.52	4,055.38	4,045.81	9.57	423.754	
1,000.00	989.65	906.77	975.76	5.40	4.93	-13.12	-4,102.86	544.47	4,030.51	4,020.26	10.25	393.398	
1,100.00	1,085.85	985.15	1,054.13	5.82	5.18	-13.17	-4,103.48	543.39	4,004.45	3,993.58	10.87	368.413	
1,200.00	1,182.06	1,071.29	1,140.25	6.27	5.47	-13.23	-4,104.49	541.96	3,978.74	3,967.19	11.55	344.577	
1,300.00	1,278.26	1,163.47	1,232.40	6.73	5.79	-13.29	-4,105.77	540.32	3,953.21	3,940.95	12.27	322.233	
1,400.00	1,374.47	1,266.11	1,335.01	7.20	6.16	-13.36	-4,107.21	538.41	3,927.70	3,914.65	13.05	301.061	
1,500.00	1,470.67	1,369.74	1,438.61	7.69	6.54	-13.42	-4,108.46	536.22	3,901.96	3,888.12	13.85	281.822	
1,600.00	1,566.88	1,467.04	1,535.89	8.18	6.91	-13.48	-4,109.53	534.21	3,876.14	3,861.50	14.64	264.814	
1,700.00	1,663.08	1,558.36	1,627.19	8.68	7.26	-13.54	-4,110.58	532.40	3,850.37	3,834.95	15.42	249.702	
1,800.00	1,759.29	1,663.84	1,732.64	9.19	7.66	-13.61	-4,111.83	530.42	3,824.68	3,808.42	16.26	235.183	
1,900.00	1,855.49	1,758.79	1,827.57	9.70	8.03	-13.68	-4,112.68	528.66	3,798.70	3,781.63	17.08	222.448	
2,000.00	1,951.70	1,847.45	1,916.20	10.22	8.38	-13.74	-4,113.68	527.22	3,772.98	3,755.10	17.88	211.057	
2,100.00	2,047.90	1,939.11	2,007.85	10.73	8.75	-13.81	-4,114.83	525.68	3,747.38	3,728.69	18.69	200.460	
2,200.00	2,144.11	2,028.55	2,097.26	11.26	9.10	-13.87	-4,116.12	524.05	3,721.95	3,702.44	19.51	190.774	
2,300.00	2,240.31	2,118.40	2,187.08	11.78	9.46	-13.94	-4,117.63	522.35	3,696.73	3,676.40	20.33	181.814	
2,400.00	2,336.52	2,224.57	2,293.22	12.31	9.89	-14.01	-4,119.44	520.28	3,671.55	3,650.33	21.22	173.048	
2,500.00	2,432.72	2,365.67	2,434.29	12.84	10.46	-14.12	-4,120.62	517.85	3,645.56	3,623.34	22.22	164.045	
2,600.00	2,528.93	2,514.21	2,582.81	13.37	11.07	-14.25	-4,119.76	515.67	3,618.26	3,595.01	23.25	155.626	
2,700.00	2,625.13	2,611.30	2,679.89	13.91	11.47	-14.34	-4,118.51	514.21	3,590.31	3,566.20	24.11	148.931	
2,800.00	2,721.34	2,708.12	2,776.68	14.44	11.86	-14.43	-4,117.25	512.63	3,562.33	3,537.36	24.97	142.683	
2,900.00	2,817.54	2,798.84	2,867.38	14.98	12.24	-14.51	-4,116.15	511.04	3,534.42	3,508.61	25.81	136.940	
3,000.00	2,913.75	2,894.19	2,962.71	15.52	12.63	-14.59	-4,115.08	509.31	3,506.60	3,479.93	26.67	131.477	
3,100.00	3,009.95	2,984.52	3,053.02	16.06	13.01	-14.67	-4,114.15	507.60	3,478.86	3,451.34	27.52	126.420	
3,200.00	3,106.16	3,084.56	3,153.04	16.60	13.42	-14.76	-4,113.19	505.62	3,451.17	3,422.78	28.40	121.528	
3,300.00	3,202.37	3,186.85	3,255.30	17.14	13.85	-14.85	-4,112.02	503.57	3,423.33	3,394.04	29.29	116.892	
3,400.00	3,298.57	3,273.66	3,342.09	17.68	14.21	-14.93	-4,111.03	501.89	3,395.50	3,365.37	30.13	112.697	
3,500.00	3,394.78	3,359.83	3,428.23	18.22	14.57	-15.01	-4,110.34	500.12	3,367.98	3,337.01	30.97	108.739	
3,600.00	3,490.98	3,449.10	3,517.48	18.76	14.94	-15.09	-4,109.92	497.99	3,340.72	3,308.89	31.83	104.961	
3,700.00	3,587.19	3,539.84	3,608.19	19.31	15.32	-15.16	-4,109.67	495.57	3,313.62	3,280.93	32.69	101.365	
3,800.00	3,683.39	3,631.82	3,700.14	19.85	15.71	-15.24	-4,109.56	493.26	3,286.68	3,253.13	33.56	97.945	
3,900.00	3,779.60	3,725.92	3,794.22	20.39	16.10	-15.33	-4,109.42	491.35	3,259.81	3,225.38	34.43	94.678	
4,000.00	3,875.80	3,817.38	3,885.66	20.94	16.49	-15.42	-4,109.43	489.44	3,233.09	3,197.79	35.30	91.593	
4,100.00	3,972.01	3,915.89	3,984.15	21.48	16.90	-15.52	-4,109.41	487.58	3,206.39	3,170.20	36.19	88.606	
4,200.00	4,068.21	4,013.48	4,081.73	22.03	17.31	-15.62	-4,109.31	485.93	3,179.64	3,142.56	37.07	85.765	
4,300.00	4,164.42	4,109.80	4,178.04	22.57	17.72	-15.73	-4,109.13	484.66	3,152.89	3,114.93	37.96	83.063	
4,400.00	4,260.62	4,212.32	4,280.55	23.12	18.15	-15.87	-4,108.61	484.53	3,126.05	3,087.20	38.86	80.446	
4,500.00	4,356.83	4,327.04	4,395.27	23.67	18.62	-16.06	-4,107.42	485.35	3,098.89	3,059.10	39.79	77.878	
4,600.00	4,453.03	4,441.17	4,509.37	24.21	19.10	-16.25	-4,105.33	486.16	3,070.97	3,030.25	40.72	75.416	
4,700.00	4,549.24	4,527.86	4,596.04	24.76	19.46	-16.40	-4,103.63	486.91	3,043.02	3,001.44	41.58	73.177	
4,800.00	4,645.44	4,600.01	4,668.18	25.31	19.77	-16.52	-4,102.63	487.37	3,015.60	2,973.18	42.42	71.096	
4,900.00	4,741.65	4,676.62	4,744.79	25.86	20.09	-16.65	-4,102.14	487.73	2,988.87	2,945.61	43.26	69.092	
5,000.00	4,837.85	4,765.45	4,833.62	26.40	20.46	-16.79	-4,102.16	488.18	2,962.76	2,918.63	44.13	67.133	
5,100.00	4,934.06	4,861.98	4,930.15	26.95	20.86	-16.96	-4,102.20	488.65	2,936.70	2,891.67	45.03	65.223	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,200.00	5,030.26	4,957.64	5,025.81	27.50	21.26	-17.12	-4,102.29	488.86	2,910.66	2,864.74	45.92	63.389		
5,300.00	5,126.47	5,055.01	5,123.18	28.05	21.67	-17.29	-4,102.34	489.29	2,884.65	2,837.84	46.81	61.619		
5,400.00	5,222.67	5,157.28	5,225.44	28.60	22.10	-17.47	-4,102.24	489.95	2,858.56	2,810.84	47.72	59.900		
5,500.00	5,318.88	5,274.63	5,342.79	29.15	22.59	-17.69	-4,101.58	490.80	2,832.09	2,783.43	48.66	58.201		
5,600.00	5,415.08	5,387.26	5,455.40	29.70	23.07	-17.93	-4,099.92	492.17	2,804.87	2,755.28	49.59	56.565		
5,700.00	5,511.29	5,527.37	5,595.37	30.25	23.66	-18.28	-4,095.48	496.07	2,776.33	2,725.77	50.56	54.915		
5,800.00	5,607.49	5,600.01	5,667.95	30.79	23.97	-18.48	-4,093.06	498.20	2,747.83	2,696.41	51.42	53.440		
5,900.00	5,703.70	5,672.67	5,740.57	31.34	24.28	-18.66	-4,091.38	499.80	2,720.16	2,667.88	52.28	52.031		
6,000.00	5,799.90	5,751.61	5,819.50	31.89	24.61	-18.84	-4,090.31	500.90	2,693.24	2,640.09	53.15	50.672		
6,100.00	5,896.11	5,837.84	5,905.72	32.44	24.98	-19.02	-4,089.75	501.39	2,666.85	2,612.81	54.03	49.355		
6,200.00	5,992.32	5,935.56	6,003.43	32.99	25.39	-19.22	-4,089.37	501.66	2,640.65	2,585.71	54.94	48.067		
6,300.00	6,088.52	6,037.62	6,105.50	33.54	25.82	-19.43	-4,088.73	501.64	2,614.20	2,558.35	55.85	46.810		
6,400.00	6,184.73	6,133.88	6,201.75	34.09	26.23	-19.63	-4,088.18	501.48	2,587.80	2,531.05	56.75	45.600		
6,500.00	6,280.93	6,238.49	6,306.37	34.64	26.67	-19.86	-4,087.33	501.26	2,561.20	2,503.53	57.66	44.416		
6,600.00	6,377.14	6,335.76	6,403.62	35.19	27.09	-20.07	-4,086.31	500.99	2,534.39	2,475.82	58.57	43.273		
6,700.00	6,473.34	6,426.54	6,494.40	35.74	27.47	-20.27	-4,085.50	500.80	2,507.77	2,448.30	59.47	42.172		
6,800.00	6,569.55	6,522.03	6,589.89	36.29	27.88	-20.48	-4,084.83	500.27	2,481.27	2,420.90	60.37	41.101		
6,900.00	6,665.75	6,619.36	6,687.21	36.84	28.29	-25.70	-4,084.10	499.87	2,454.85	2,393.58	61.28	40.062		
7,000.00	6,761.11	6,721.54	6,789.39	37.39	28.73	-54.44	-4,082.96	500.07	2,431.11	2,368.90	62.21	39.082		
7,100.00	6,853.41	6,817.32	6,885.16	37.89	29.13	-72.51	-4,081.73	499.99	2,412.36	2,349.23	63.13	38.212		
7,200.00	6,940.36	6,902.27	6,970.10	38.34	29.49	-83.46	-4,080.67	499.74	2,399.87	2,335.84	64.04	37.477		
7,300.00	7,019.83	6,978.25	7,046.08	38.74	29.82	-90.34	-4,079.63	500.04	2,394.85	2,329.92	64.93	36.884		
7,310.89	7,027.94	6,985.93	7,053.75	38.78	29.85	-90.92	-4,079.51	500.13	2,394.79	2,329.77	65.03	36.827 CC, ES		
7,400.00	7,089.85	7,036.52	7,104.33	39.10	30.06	-94.46	-4,078.78	500.81	2,398.39	2,332.57	65.82	36.437		
7,500.00	7,148.71	7,082.04	7,149.85	39.42	30.26	-96.50	-4,078.35	501.51	2,411.40	2,344.65	66.75	36.125		
7,600.00	7,194.95	7,122.03	7,189.83	39.71	30.43	-96.91	-4,078.12	502.16	2,434.07	2,366.33	67.75	35.930		
7,700.00	7,227.43	7,152.90	7,220.69	40.01	30.56	-95.72	-4,077.95	502.68	2,466.11	2,397.30	68.81	35.841 SF		
7,800.00	7,245.37	7,169.17	7,236.96	40.37	30.63	-92.81	-4,077.87	502.95	2,506.87	2,436.97	69.91	35.859		
7,900.00	7,248.84	7,170.97	7,238.76	40.87	30.64	-89.54	-4,077.86	502.98	2,555.13	2,484.13	71.01	35.984		
8,000.00	7,248.24	7,168.71	7,236.50	41.62	30.63	-89.48	-4,077.87	502.94	2,607.36	2,535.22	72.14	36.143		
8,100.00	7,247.65	7,166.45	7,234.24	42.66	30.62	-89.42	-4,077.88	502.90	2,662.31	2,589.00	73.31	36.315		
8,200.00	7,247.05	7,164.19	7,231.98	43.96	30.61	-89.36	-4,077.89	502.86	2,719.83	2,645.33	74.50	36.508		
8,300.00	7,246.46	7,161.93	7,229.72	45.46	30.60	-89.30	-4,077.90	502.83	2,779.76	2,704.07	75.69	36.725		
8,400.00	7,245.86	7,159.67	7,227.47	47.13	30.59	-89.24	-4,077.92	502.79	2,841.94	2,765.07	76.87	36.970		
8,500.00	7,245.27	7,157.41	7,225.21	48.93	30.58	-89.18	-4,077.93	502.75	2,906.23	2,828.20	78.03	37.245		
8,600.00	7,244.67	7,155.15	7,222.95	50.84	30.57	-89.12	-4,077.94	502.71	2,972.49	2,893.33	79.16	37.549		
8,700.00	7,244.07	7,152.89	7,220.69	52.85	30.56	-89.07	-4,077.95	502.68	3,040.60	2,960.34	80.26	37.883		
8,800.00	7,243.48	7,150.63	7,218.43	54.94	30.55	-89.01	-4,077.96	502.64	3,110.43	3,029.10	81.33	38.246		
8,900.00	7,242.88	7,148.37	7,216.17	57.10	30.54	-88.95	-4,077.98	502.60	3,181.87	3,099.51	82.35	38.637		
9,000.00	7,242.29	7,146.11	7,213.91	59.32	30.53	-88.89	-4,077.99	502.56	3,254.81	3,171.47	83.34	39.056		
9,100.00	7,241.69	7,143.85	7,211.65	61.60	30.52	-88.83	-4,078.00	502.53	3,329.15	3,244.87	84.28	39.500		
9,200.00	7,241.09	7,141.60	7,209.39	63.92	30.51	-88.77	-4,078.01	502.49	3,404.81	3,319.62	85.19	39.968		
9,300.00	7,240.50	7,139.34	7,207.13	66.29	30.50	-88.71	-4,078.02	502.45	3,481.70	3,395.64	86.05	40.460		
9,400.00	7,239.90	7,137.08	7,204.87	68.70	30.49	-88.65	-4,078.04	502.41	3,559.73	3,472.85	86.88	40.972		
9,500.00	7,239.31	7,134.82	7,202.61	71.14	30.48	-88.60	-4,078.05	502.38	3,638.83	3,551.16	87.67	41.506		
9,600.00	7,238.71	7,132.56	7,200.35	73.61	30.47	-88.54	-4,078.06	502.34	3,718.95	3,630.52	88.43	42.058		
9,700.00	7,238.11	7,130.30	7,198.09	76.11	30.46	-88.48	-4,078.07	502.30	3,800.00	3,710.85	89.14	42.627		
9,800.00	7,237.52	7,128.04	7,195.83	78.64	30.45	-88.42	-4,078.08	502.26	3,881.93	3,792.10	89.83	43.214		
9,900.00	7,236.92	7,125.78	7,193.58	81.19	30.44	-88.36	-4,078.10	502.23	3,964.70	3,874.21	90.49	43.815		
10,000.00	7,236.33	7,123.52	7,191.32	83.75	30.43	-88.30	-4,078.11	502.19	4,048.23	3,957.12	91.11	44.432		
10,100.00	7,235.73	7,121.26	7,189.06	86.34	30.42	-88.24	-4,078.12	502.15	4,132.50	4,040.80	91.71	45.062		
10,200.00	7,235.14	7,119.00	7,186.80	88.94	30.41	-88.18	-4,078.13	502.11	4,217.46	4,125.18	92.28	45.704		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	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	7,234.54	7,116.74	7,184.54	91.56	30.41	-88.13	-4,078.15	502.08	4,303.06	4,210.24	92.82	46.358		
10,400.00	7,233.94	7,114.48	7,182.28	94.19	30.40	-88.07	-4,078.16	502.04	4,389.27	4,295.93	93.34	47.024		
10,500.00	7,233.35	7,112.22	7,180.02	96.84	30.39	-88.01	-4,078.17	502.00	4,476.05	4,382.21	93.84	47.699		
10,600.00	7,232.75	7,109.96	7,177.76	99.50	30.38	-87.95	-4,078.18	501.96	4,563.37	4,469.06	94.31	48.385		
10,700.00	7,232.16	7,107.70	7,175.50	102.17	30.37	-87.89	-4,078.19	501.93	4,651.20	4,556.44	94.77	49.079		
10,800.00	7,231.56	7,105.44	7,173.24	104.85	30.36	-87.83	-4,078.21	501.89	4,739.52	4,644.31	95.20	49.782		
10,900.00	7,230.96	7,103.18	7,170.98	107.53	30.35	-87.77	-4,078.22	501.85	4,828.28	4,732.66	95.62	50.493		
11,000.00	7,230.37	7,100.92	7,168.72	110.23	30.34	-87.71	-4,078.23	501.81	4,917.48	4,821.46	96.02	51.212		
11,100.00	7,229.77	7,101.37	7,166.46	112.93	30.34	-87.66	-4,078.24	501.78	5,007.09	4,910.67	96.42	51.931		
11,200.00	7,229.18	7,103.63	7,164.20	115.65	30.35	-87.60	-4,078.25	501.74	5,097.08	5,000.27	96.81	52.653		
11,300.00	7,228.58	7,105.89	7,161.94	118.37	30.36	-87.54	-4,078.27	501.70	5,187.43	5,090.25	97.18	53.381		
11,400.00	7,227.99	7,108.15	7,159.69	121.09	30.37	-87.48	-4,078.28	501.66	5,278.13	5,180.60	97.54	54.114		
11,500.00	7,227.39	7,110.41	7,157.43	123.82	30.38	-87.42	-4,078.29	501.63	5,369.17	5,271.28	97.88	54.852		
11,600.00	7,226.79	7,112.67	7,155.17	126.56	30.39	-87.36	-4,078.30	501.59	5,460.51	5,362.29	98.22	55.596		
11,700.00	7,226.20	7,114.93	7,152.91	129.30	30.40	-87.30	-4,078.31	501.55	5,552.15	5,453.61	98.54	56.344		
11,800.00	7,225.60	7,117.19	7,150.65	132.05	30.41	-87.25	-4,078.33	501.51	5,644.08	5,545.23	98.85	57.096		
11,900.00	7,225.01	7,119.44	7,148.39	134.80	30.42	-87.19	-4,078.34	501.48	5,736.27	5,637.12	99.15	57.853		
12,000.00	7,224.41	7,121.70	7,146.13	137.56	30.43	-87.13	-4,078.35	501.44	5,828.72	5,729.28	99.44	58.613		
12,100.00	7,223.81	7,082.98	7,150.79	140.32	30.26	-87.25	-4,078.34	501.52	5,921.43	5,821.88	99.55	59.482		
12,200.00	7,223.22	7,081.42	7,149.22	143.08	30.26	-87.21	-4,078.35	501.50	6,014.36	5,914.56	99.81	60.260		
12,300.00	7,222.62	7,079.86	7,147.66	145.85	30.25	-87.17	-4,078.36	501.47	6,107.52	6,007.46	100.05	61.042		
12,400.00	7,222.03	7,078.30	7,146.11	148.62	30.24	-87.13	-4,078.37	501.45	6,200.88	6,100.59	100.29	61.827		
12,500.00	7,221.43	7,076.76	7,144.56	151.40	30.24	-87.09	-4,078.39	501.42	6,294.45	6,193.93	100.53	62.614		
12,600.00	7,220.83	7,075.22	7,143.02	154.18	30.23	-87.05	-4,078.40	501.40	6,388.22	6,287.46	100.75	63.404		
12,700.00	7,220.24	7,073.68	7,141.49	156.96	30.22	-87.01	-4,078.41	501.37	6,482.17	6,381.20	100.97	64.197		
12,800.00	7,219.64	7,072.16	7,139.96	159.74	30.22	-86.97	-4,078.42	501.35	6,576.30	6,475.11	101.18	64.993		
12,900.00	7,219.05	7,070.64	7,138.44	162.53	30.21	-86.93	-4,078.44	501.32	6,670.59	6,569.20	101.39	65.791		
13,000.00	7,218.45	7,069.12	7,136.93	165.32	30.20	-86.89	-4,078.45	501.30	6,765.06	6,663.46	101.59	66.591		
13,100.00	7,217.86	7,067.62	7,135.43	168.11	30.20	-86.85	-4,078.46	501.28	6,859.67	6,757.89	101.79	67.392		
13,200.00	7,217.26	7,066.12	7,133.93	170.90	30.19	-86.81	-4,078.48	501.25	6,954.44	6,852.47	101.98	68.196		
13,300.00	7,216.66	7,064.63	7,132.43	173.70	30.18	-86.77	-4,078.49	501.23	7,049.35	6,947.19	102.16	69.002		
13,400.00	7,216.07	7,063.14	7,130.95	176.49	30.18	-86.73	-4,078.50	501.21	7,144.40	7,042.06	102.34	69.809		
13,500.00	7,215.47	7,061.66	7,129.47	179.29	30.17	-86.70	-4,078.52	501.19	7,239.59	7,137.07	102.52	70.618		
13,600.00	7,214.88	7,060.19	7,127.99	182.09	30.17	-86.66	-4,078.53	501.16	7,334.90	7,232.21	102.69	71.428		
13,700.00	7,214.28	7,058.72	7,126.53	184.90	30.16	-86.62	-4,078.54	501.14	7,430.33	7,327.48	102.86	72.240		
13,800.00	7,213.68	7,057.26	7,125.07	187.70	30.15	-86.58	-4,078.56	501.12	7,525.89	7,422.87	103.02	73.053		
13,900.00	7,213.09	7,055.80	7,123.61	190.51	30.15	-86.54	-4,078.57	501.10	7,621.55	7,518.37	103.18	73.867		
14,000.00	7,212.49	7,054.35	7,122.16	193.32	30.14	-86.51	-4,078.59	501.07	7,717.33	7,613.99	103.33	74.683		
14,100.00	7,211.90	7,052.91	7,120.72	196.13	30.13	-86.47	-4,078.60	501.05	7,813.21	7,709.72	103.49	75.499		
14,200.00	7,211.30	7,051.48	7,119.29	198.94	30.13	-86.43	-4,078.62	501.03	7,909.19	7,805.55	103.64	76.316		
14,300.00	7,210.71	7,050.05	7,117.86	201.75	30.12	-86.39	-4,078.63	501.01	8,005.27	7,901.49	103.78	77.135		
14,400.00	7,210.11	7,048.62	7,116.43	204.56	30.12	-86.36	-4,078.65	500.99	8,101.45	7,997.52	103.93	77.954		
14,500.00	7,209.51	7,047.21	7,115.02	207.38	30.11	-86.32	-4,078.66	500.97	8,197.71	8,093.65	104.07	78.773		
14,600.00	7,208.92	7,045.79	7,113.60	210.19	30.10	-86.28	-4,078.68	500.95	8,294.07	8,189.86	104.21	79.594		
14,700.00	7,208.32	7,044.39	7,112.20	213.01	30.10	-86.25	-4,078.69	500.92	8,390.51	8,286.17	104.34	80.415		
14,800.00	7,207.73	7,042.99	7,110.80	215.83	30.09	-86.21	-4,078.71	500.90	8,487.03	8,382.56	104.47	81.236		
14,900.00	7,207.13	7,041.59	7,109.41	218.65	30.09	-86.18	-4,078.72	500.88	8,583.63	8,479.03	104.60	82.058		
15,000.00	7,206.53	7,040.21	7,108.02	221.47	30.08	-86.14	-4,078.74	500.86	8,680.31	8,575.57	104.73	82.881		
15,100.00	7,205.94	7,038.82	7,106.64	224.29	30.07	-86.10	-4,078.76	500.84	8,777.06	8,672.20	104.86	83.704		
15,200.00	7,205.34	7,037.45	7,105.26	227.11	30.07	-86.07	-4,078.77	500.82	8,873.88	8,768.90	104.98	84.527		
15,258.04	7,205.00	7,036.65	7,104.46	228.75	30.07	-86.05	-4,078.78	500.81	8,930.11	8,825.06	105.05	85.005		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	21.25	-1.75	3.28	3.28	172.39	-4,099.52	547.47	4,135.91					
100.00	100.00	114.44	91.44	3.28	3.29	172.40	-4,099.66	547.36	4,136.04	4,129.47	6.58	628.929		
200.00	200.00	213.48	190.48	3.34	3.35	172.40	-4,099.90	547.25	4,136.28	4,129.58	6.69	618.182		
300.00	299.98	319.47	296.47	3.44	3.48	-12.37	-4,100.08	547.04	4,134.71	4,127.80	6.92	597.751		
400.00	399.84	419.62	396.62	3.59	3.64	-12.40	-4,100.22	546.70	4,129.69	4,122.46	7.23	570.903		
500.00	499.45	521.44	498.43	3.79	3.85	-12.46	-4,100.30	546.39	4,121.22	4,113.57	7.64	539.234		
600.00	598.70	619.08	596.08	4.03	4.09	-12.54	-4,100.40	546.02	4,109.37	4,101.25	8.12	506.160		
700.00	697.47	719.53	696.53	4.31	4.36	-12.65	-4,100.47	545.73	4,094.12	4,085.45	8.67	472.415		
800.00	795.62	814.34	791.34	4.64	4.64	-12.79	-4,100.57	545.53	4,075.56	4,066.31	9.25	440.502		
900.00	893.06	913.19	890.19	5.00	4.95	-12.95	-4,100.69	545.22	4,053.69	4,043.79	9.90	409.647		
1,000.00	989.65	1,008.09	985.09	5.40	5.26	-13.14	-4,100.83	544.94	4,028.54	4,017.97	10.57	381.105		
1,100.00	1,085.85	1,108.17	1,085.17	5.82	5.60	-13.23	-4,100.93	544.66	4,001.98	3,990.71	11.28	354.878		
1,200.00	1,182.06	1,199.74	1,176.73	6.27	5.92	-13.31	-4,101.06	544.33	3,975.45	3,963.47	11.98	331.787		
1,300.00	1,278.26	1,288.33	1,265.32	6.73	6.24	-13.38	-4,101.32	543.96	3,949.07	3,936.37	12.70	310.976		
1,400.00	1,374.47	1,385.42	1,362.41	7.20	6.60	-13.47	-4,101.71	543.50	3,922.80	3,909.33	13.46	291.347		
1,500.00	1,470.67	1,488.20	1,465.18	7.69	6.99	-13.56	-4,102.04	542.90	3,896.44	3,882.17	14.27	273.133		
1,600.00	1,566.88	1,583.86	1,560.85	8.18	7.35	-13.64	-4,102.26	542.25	3,869.99	3,854.94	15.06	257.050		
1,700.00	1,663.08	1,679.45	1,656.44	8.68	7.72	-13.73	-4,102.51	541.64	3,843.59	3,827.73	15.86	242.403		
1,800.00	1,759.29	1,772.53	1,749.52	9.19	8.09	-13.81	-4,102.80	541.03	3,817.23	3,800.57	16.66	229.154		
1,900.00	1,855.49	1,864.23	1,841.21	9.70	8.45	-13.89	-4,103.20	540.32	3,790.98	3,773.52	17.46	217.083		
2,000.00	1,951.70	1,958.26	1,935.23	10.22	8.82	-13.98	-4,103.73	539.42	3,764.85	3,746.56	18.28	205.904		
2,100.00	2,047.90	2,059.58	2,036.54	10.73	9.23	-14.06	-4,104.33	538.22	3,738.71	3,719.57	19.14	195.357		
2,200.00	2,144.11	2,162.15	2,139.10	11.26	9.64	-14.15	-4,104.74	536.95	3,712.38	3,692.38	20.00	185.612		
2,300.00	2,240.31	2,267.72	2,244.67	11.78	10.07	-14.24	-4,105.00	535.52	3,685.90	3,665.02	20.88	176.539		
2,400.00	2,336.52	2,373.12	2,350.05	12.31	10.49	-14.33	-4,104.94	534.17	3,659.15	3,637.39	21.76	168.164		
2,500.00	2,432.72	2,470.32	2,447.25	12.84	10.89	-14.42	-4,104.72	533.03	3,632.26	3,609.65	22.62	160.611		
2,600.00	2,528.93	2,568.13	2,545.05	13.37	11.29	-14.52	-4,104.46	532.11	3,605.38	3,581.90	23.48	153.574		
2,700.00	2,625.13	2,665.16	2,642.08	13.91	11.69	-14.62	-4,104.14	531.29	3,578.46	3,554.12	24.34	147.032		
2,800.00	2,721.34	2,757.09	2,734.00	14.44	12.07	-14.71	-4,103.86	530.50	3,551.57	3,526.39	25.19	141.017		
2,900.00	2,817.54	2,852.53	2,829.44	14.98	12.46	-14.81	-4,103.69	529.74	3,524.82	3,498.78	26.05	135.324		
3,000.00	2,913.75	2,943.76	2,920.67	15.52	12.84	-14.91	-4,103.48	529.11	3,498.07	3,471.17	26.90	130.050		
3,100.00	3,009.95	3,028.96	3,005.87	16.06	13.19	-15.00	-4,103.54	528.69	3,471.62	3,443.89	27.73	125.186		
3,200.00	3,106.16	3,121.27	3,098.18	16.60	13.58	-15.11	-4,103.81	528.24	3,445.40	3,416.80	28.59	120.507		
3,300.00	3,202.37	3,218.59	3,195.49	17.14	13.98	-15.22	-4,104.08	527.71	3,419.17	3,389.70	29.47	116.030		
3,400.00	3,298.57	3,305.42	3,282.32	17.68	14.34	-15.31	-4,104.47	527.21	3,393.11	3,362.79	30.31	111.932		
3,500.00	3,394.78	3,394.99	3,371.89	18.22	14.72	-15.42	-4,105.10	526.64	3,367.29	3,336.12	31.17	108.028		
3,600.00	3,490.98	3,530.73	3,507.62	18.76	15.29	-15.58	-4,105.31	525.95	3,340.97	3,308.80	32.17	103.855		
3,700.00	3,587.19	3,643.27	3,620.16	19.31	15.75	-15.73	-4,104.44	525.82	3,313.86	3,280.77	33.10	100.130		
3,800.00	3,683.39	3,748.41	3,725.30	19.85	16.19	-15.87	-4,103.27	525.58	3,286.44	3,252.44	34.00	96.660		
3,900.00	3,779.60	3,843.76	3,820.64	20.39	16.59	-16.00	-4,102.00	525.40	3,258.83	3,223.96	34.88	93.437		
4,000.00	3,875.80	3,931.21	3,908.08	20.94	16.96	-16.12	-4,101.06	525.11	3,231.46	3,195.72	35.73	90.430		
4,100.00	3,972.01	4,021.35	3,998.22	21.48	17.33	-16.24	-4,100.31	524.73	3,204.30	3,167.70	36.60	87.548		
4,200.00	4,068.21	4,111.74	4,088.60	22.03	17.71	-16.36	-4,099.72	524.22	3,177.31	3,139.84	37.47	84.799		
4,300.00	4,164.42	4,193.54	4,170.41	22.57	18.06	-16.47	-4,099.47	523.72	3,150.66	3,112.34	38.32	82.229		
4,400.00	4,260.62	4,290.94	4,267.80	23.12	18.47	-16.61	-4,099.39	523.16	3,124.24	3,085.03	39.21	79.689		
4,500.00	4,356.83	4,383.33	4,360.19	23.67	18.86	-16.74	-4,099.32	522.67	3,097.84	3,057.76	40.08	77.285		
4,600.00	4,453.03	4,479.69	4,456.55	24.21	19.27	-16.87	-4,099.31	522.22	3,071.54	3,030.57	40.97	74.966		
4,700.00	4,549.24	4,578.01	4,554.87	24.76	19.68	-17.02	-4,099.26	521.78	3,045.22	3,003.35	41.87	72.734		
4,800.00	4,645.44	4,669.91	4,646.77	25.31	20.07	-17.15	-4,099.22	521.31	3,018.92	2,976.17	42.75	70.622		
4,900.00	4,741.65	4,758.40	4,735.26	25.86	20.44	-17.29	-4,099.37	520.93	2,992.84	2,949.22	43.62	68.612		
5,000.00	4,837.85	4,850.97	4,827.82	26.40	20.83	-17.43	-4,099.67	520.92	2,967.01	2,922.51	44.50	66.669		
5,100.00	4,934.06	4,947.55	4,924.40	26.95	21.24	-17.59	-4,099.99	520.95	2,941.22	2,895.83	45.40	64.787		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,042.53	5,019.39	27.50	21.64	-17.75	-4,100.31	520.98	2,915.46	2,869.17	46.29	62.983		
5,300.00	5,126.47	5,136.53	5,113.39	28.05	22.04	-17.91	-4,100.71	521.02	2,889.80	2,842.62	47.18	61.251		
5,400.00	5,222.67	5,233.32	5,210.17	28.60	22.45	-18.08	-4,101.15	521.11	2,864.21	2,816.13	48.08	59.575		
5,500.00	5,318.88	5,332.75	5,309.60	29.15	22.87	-18.25	-4,101.54	521.04	2,838.55	2,789.56	48.98	57.951		
5,600.00	5,415.08	5,428.32	5,405.17	29.70	23.27	-18.42	-4,101.87	520.98	2,812.86	2,762.98	49.88	56.395		
5,700.00	5,511.29	5,531.53	5,508.37	30.25	23.71	-18.61	-4,102.27	520.93	2,787.25	2,736.46	50.79	54.877		
5,800.00	5,607.49	5,649.60	5,626.45	30.79	24.20	-18.84	-4,101.67	521.21	2,760.85	2,709.12	51.73	53.369		
5,900.00	5,703.70	5,739.99	5,716.84	31.34	24.58	-19.02	-4,101.01	521.39	2,734.31	2,681.69	52.62	51.964		
6,000.00	5,799.90	5,824.66	5,801.51	31.89	24.94	-19.18	-4,100.81	521.38	2,708.19	2,654.69	53.50	50.622		
6,100.00	5,896.11	5,917.25	5,894.09	32.44	25.34	-19.36	-4,100.87	521.28	2,682.35	2,627.96	54.39	49.314		
6,200.00	5,992.32	6,016.15	5,992.99	32.99	25.76	-19.56	-4,100.96	520.96	2,656.53	2,601.23	55.30	48.039		
6,300.00	6,088.52	6,109.71	6,086.55	33.54	26.15	-19.74	-4,101.10	520.52	2,630.75	2,574.55	56.20	46.813		
6,400.00	6,184.73	6,207.90	6,184.74	34.09	26.57	-19.93	-4,101.29	519.98	2,605.02	2,547.92	57.10	45.619		
6,500.00	6,280.93	6,319.24	6,298.08	34.64	27.05	-20.15	-4,101.17	519.16	2,578.99	2,520.96	58.03	44.443		
6,600.00	6,377.14	6,419.62	6,396.45	35.19	27.47	-20.35	-4,100.74	518.15	2,552.63	2,493.69	58.94	43.311		
6,700.00	6,473.34	6,515.73	6,492.56	35.74	27.88	-20.55	-4,100.27	517.18	2,526.23	2,466.39	59.84	42.215		
6,800.00	6,569.55	6,619.16	6,595.97	36.29	28.32	-20.76	-4,099.60	515.92	2,499.67	2,438.91	60.75	41.144		
6,900.00	6,665.75	6,714.04	6,690.85	36.84	28.73	-25.95	-4,098.94	514.60	2,473.09	2,411.43	61.66	40.110		
7,000.00	6,761.11	6,810.47	6,787.26	37.39	29.14	-54.62	-4,098.38	512.98	2,449.43	2,386.85	62.58	39.141		
7,100.00	6,853.41	6,915.87	6,892.63	37.89	29.59	-72.70	-4,097.67	510.37	2,430.70	2,367.20	63.51	38.273		
7,200.00	6,940.36	7,009.43	6,986.14	38.34	29.99	-83.71	-4,096.83	507.62	2,417.91	2,353.49	64.42	37.536		
7,300.00	7,019.83	7,099.31	7,075.95	38.74	30.37	-90.79	-4,095.89	504.43	2,412.16	2,346.85	65.31	36.933		
7,320.47	7,034.98	7,116.67	7,093.30	38.82	30.44	-91.89	-4,095.70	503.73	2,411.94	2,346.45	65.50	36.825 CC, ES		
7,400.00	7,089.85	7,171.84	7,148.43	39.10	30.68	-95.18	-4,095.10	501.54	2,414.58	2,348.36	66.21	36.466		
7,500.00	7,148.71	7,233.61	7,210.14	39.42	30.94	-97.61	-4,094.43	499.07	2,426.09	2,358.94	67.16	36.126		
7,600.00	7,194.95	7,283.15	7,259.64	39.71	31.15	-98.34	-4,093.89	497.10	2,447.16	2,379.00	68.16	35.903		
7,700.00	7,227.43	7,319.25	7,295.71	40.01	31.31	-97.42	-4,093.50	495.66	2,477.78	2,408.55	69.23	35.789		
7,800.00	7,245.37	7,341.02	7,317.46	40.37	31.40	-94.79	-4,093.26	494.79	2,517.48	2,447.12	70.35	35.785 SF		
7,900.00	7,248.84	7,348.45	7,324.89	40.87	31.43	-91.77	-4,093.18	494.49	2,565.09	2,493.62	71.47	35.890		
8,000.00	7,248.24	7,351.84	7,328.27	41.62	31.45	-91.85	-4,093.14	494.36	2,616.80	2,544.18	72.63	36.031		
8,100.00	7,247.65	7,355.23	7,331.66	42.66	31.46	-91.94	-4,093.11	494.22	2,671.26	2,597.43	73.82	36.184		
8,200.00	7,247.05	7,358.62	7,335.04	43.96	31.48	-92.03	-4,093.07	494.09	2,728.29	2,653.25	75.04	36.357		
8,300.00	7,246.46	7,362.01	7,338.43	45.46	31.49	-92.12	-4,093.03	493.95	2,787.74	2,711.47	76.26	36.554		
8,400.00	7,245.86	7,365.39	7,341.81	47.13	31.51	-92.20	-4,093.00	493.82	2,849.45	2,771.97	77.48	36.777		
8,500.00	7,245.27	7,368.78	7,345.20	48.93	31.52	-92.29	-4,092.96	493.68	2,913.29	2,834.61	78.67	37.030		
8,600.00	7,244.67	7,372.17	7,348.58	50.84	31.54	-92.38	-4,092.92	493.55	2,979.11	2,899.27	79.84	37.313		
8,700.00	7,244.07	7,375.56	7,351.97	52.85	31.55	-92.47	-4,092.89	493.41	3,046.79	2,965.81	80.98	37.625		
8,800.00	7,243.48	7,378.94	7,355.35	54.94	31.56	-92.55	-4,092.85	493.27	3,116.20	3,034.12	82.08	37.966		
8,900.00	7,242.88	7,382.33	7,358.74	57.10	31.58	-92.64	-4,092.81	493.14	3,187.24	3,104.09	83.14	38.334		
9,000.00	7,242.29	7,385.72	7,362.12	59.32	31.59	-92.73	-4,092.78	493.00	3,259.79	3,175.62	84.17	38.730		
9,100.00	7,241.69	7,389.11	7,365.51	61.60	31.61	-92.82	-4,092.74	492.87	3,333.76	3,248.61	85.15	39.152		
9,200.00	7,241.09	7,392.50	7,368.89	63.92	31.62	-92.90	-4,092.70	492.73	3,409.06	3,322.96	86.09	39.597		
9,300.00	7,240.50	7,395.88	7,372.28	66.29	31.64	-92.99	-4,092.67	492.60	3,485.59	3,398.59	87.00	40.065		
9,400.00	7,239.90	7,399.27	7,375.66	68.70	31.65	-93.08	-4,092.63	492.46	3,563.29	3,475.42	87.86	40.555		
9,500.00	7,239.31	7,402.66	7,379.05	71.14	31.67	-93.17	-4,092.59	492.33	3,642.07	3,553.38	88.69	41.065		
9,600.00	7,238.71	7,406.05	7,382.43	73.61	31.68	-93.25	-4,092.56	492.19	3,721.86	3,632.38	89.48	41.593		
9,700.00	7,238.11	7,409.44	7,385.82	76.11	31.69	-93.34	-4,092.52	492.06	3,802.61	3,712.37	90.24	42.139		
9,800.00	7,237.52	7,412.82	7,389.20	78.64	31.71	-93.43	-4,092.48	491.92	3,884.25	3,793.29	90.96	42.701		
9,900.00	7,236.92	7,416.21	7,392.59	81.19	31.72	-93.52	-4,092.44	491.79	3,966.73	3,875.08	91.66	43.279		
10,000.00	7,236.33	7,419.60	7,395.97	83.75	31.74	-93.60	-4,092.41	491.65	4,050.00	3,957.68	92.32	43.871		
10,100.00	7,235.73	7,422.99	7,399.36	86.34	31.75	-93.69	-4,092.37	491.52	4,134.01	4,041.06	92.95	44.476		
10,200.00	7,235.14	7,426.37	7,402.74	88.94	31.77	-93.78	-4,092.33	491.38	4,218.71	4,125.15	93.55	45.093		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,429.76	7,406.13	91.56	31.78	-93.86	-4,092.30	491.25	4,304.06	4,209.93	94.13	45.723		
10,400.00	7,233.94	7,400.00	7,376.39	94.19	31.65	-93.10	-4,092.62	492.43	4,390.16	4,295.56	94.59	46.412		
10,500.00	7,233.35	7,400.00	7,376.39	96.84	31.65	-93.10	-4,092.62	492.43	4,476.73	4,381.62	95.11	47.068		
10,600.00	7,232.75	7,400.00	7,376.39	99.50	31.65	-93.10	-4,092.62	492.43	4,563.85	4,468.24	95.61	47.735		
10,700.00	7,232.16	7,400.00	7,376.39	102.17	31.65	-93.10	-4,092.62	492.43	4,651.49	4,555.41	96.09	48.410		
10,800.00	7,231.56	7,400.00	7,376.39	104.85	31.65	-93.10	-4,092.62	492.43	4,739.63	4,643.08	96.54	49.094		
10,900.00	7,230.96	7,400.00	7,376.39	107.53	31.65	-93.10	-4,092.62	492.43	4,828.22	4,731.24	96.98	49.785		
11,000.00	7,230.37	7,400.00	7,376.39	110.23	31.65	-93.10	-4,092.62	492.43	4,917.25	4,819.85	97.40	50.485		
11,100.00	7,229.77	7,400.00	7,376.39	112.93	31.65	-93.10	-4,092.62	492.43	5,006.69	4,908.89	97.80	51.191		
11,200.00	7,229.18	7,400.00	7,376.39	115.65	31.65	-93.10	-4,092.62	492.43	5,096.53	4,998.34	98.19	51.904		
11,300.00	7,228.58	7,400.00	7,376.39	118.37	31.65	-93.10	-4,092.62	492.43	5,186.74	5,088.18	98.57	52.622		
11,400.00	7,227.99	7,400.00	7,376.39	121.09	31.65	-93.10	-4,092.62	492.43	5,277.30	5,178.38	98.92	53.347		
11,500.00	7,227.39	7,400.00	7,376.39	123.82	31.65	-93.10	-4,092.62	492.43	5,368.20	5,268.93	99.27	54.077		
11,600.00	7,226.79	7,400.00	7,376.39	126.56	31.65	-93.10	-4,092.62	492.43	5,459.41	5,359.81	99.60	54.812		
11,700.00	7,226.20	7,400.00	7,376.39	129.30	31.65	-93.10	-4,092.62	492.43	5,550.93	5,451.01	99.92	55.552		
11,800.00	7,225.60	7,400.00	7,376.39	132.05	31.65	-93.10	-4,092.62	492.43	5,642.74	5,542.51	100.23	56.297		
11,900.00	7,225.01	7,400.00	7,376.39	134.80	31.65	-93.10	-4,092.62	492.43	5,734.82	5,634.29	100.53	57.045		
12,000.00	7,224.41	7,400.00	7,376.39	137.56	31.65	-93.10	-4,092.62	492.43	5,827.16	5,726.34	100.82	57.798		
12,100.00	7,223.81	7,400.00	7,376.39	140.32	31.65	-93.10	-4,092.62	492.43	5,919.75	5,818.65	101.10	58.554		
12,200.00	7,223.22	7,400.00	7,376.39	143.08	31.65	-93.10	-4,092.62	492.43	6,012.58	5,911.21	101.37	59.314		
12,300.00	7,222.62	7,400.00	7,376.39	145.85	31.65	-93.10	-4,092.62	492.43	6,105.63	6,004.00	101.63	60.077		
12,400.00	7,222.03	7,400.00	7,376.39	148.62	31.65	-93.10	-4,092.62	492.43	6,198.90	6,097.02	101.88	60.843		
12,500.00	7,221.43	7,400.00	7,376.39	151.40	31.65	-93.10	-4,092.62	492.43	6,292.38	6,190.25	102.13	61.613		
12,600.00	7,220.83	7,400.00	7,376.39	154.18	31.65	-93.10	-4,092.62	492.43	6,386.05	6,283.69	102.37	62.385		
12,700.00	7,220.24	7,400.00	7,376.39	156.96	31.65	-93.10	-4,092.62	492.43	6,479.92	6,377.32	102.60	63.159		
12,800.00	7,219.64	7,400.00	7,376.39	159.74	31.65	-93.10	-4,092.62	492.43	6,573.96	6,471.14	102.82	63.936		
12,900.00	7,219.05	7,400.00	7,376.39	162.53	31.65	-93.10	-4,092.62	492.43	6,668.18	6,565.14	103.04	64.715		
13,000.00	7,218.45	7,400.00	7,376.39	165.32	31.65	-93.10	-4,092.62	492.43	6,762.56	6,659.31	103.25	65.496		
13,100.00	7,217.86	7,400.00	7,376.39	168.11	31.65	-93.10	-4,092.62	492.43	6,857.11	6,753.65	103.46	66.280		
13,200.00	7,217.26	7,400.00	7,376.39	170.90	31.65	-93.10	-4,092.62	492.43	6,951.80	6,848.14	103.66	67.065		
13,300.00	7,216.66	7,400.00	7,376.39	173.70	31.65	-93.10	-4,092.62	492.43	7,046.64	6,942.79	103.85	67.852		
13,400.00	7,216.07	7,400.00	7,376.39	176.49	31.65	-93.10	-4,092.62	492.43	7,141.63	7,037.58	104.04	68.640		
13,500.00	7,215.47	7,400.00	7,376.39	179.29	31.65	-93.10	-4,092.62	492.43	7,236.74	7,132.51	104.23	69.431		
13,600.00	7,214.88	7,400.00	7,376.39	182.09	31.65	-93.10	-4,092.62	492.43	7,331.99	7,227.58	104.41	70.222		
13,700.00	7,214.28	7,400.00	7,376.39	184.90	31.65	-93.10	-4,092.62	492.43	7,427.37	7,322.78	104.59	71.015		
13,800.00	7,213.68	7,400.00	7,376.39	187.70	31.65	-93.10	-4,092.62	492.43	7,522.86	7,418.10	104.76	71.809		
13,900.00	7,213.09	7,400.00	7,376.39	190.51	31.65	-93.10	-4,092.62	492.43	7,618.47	7,513.54	104.93	72.605		
14,000.00	7,212.49	7,400.00	7,376.39	193.32	31.65	-93.10	-4,092.62	492.43	7,714.19	7,609.09	105.10	73.401		
14,100.00	7,211.90	7,400.00	7,376.39	196.13	31.65	-93.10	-4,092.62	492.43	7,810.02	7,704.76	105.26	74.198		
14,200.00	7,211.30	7,400.00	7,376.39	198.94	31.65	-93.10	-4,092.62	492.43	7,905.95	7,800.53	105.42	74.997		
14,300.00	7,210.71	7,400.00	7,376.39	201.75	31.65	-93.10	-4,092.62	492.43	8,001.98	7,896.40	105.57	75.796		
14,400.00	7,210.11	7,400.00	7,376.39	204.56	31.65	-93.10	-4,092.62	492.43	8,098.10	7,992.38	105.73	76.596		
14,500.00	7,209.51	7,400.00	7,376.39	207.38	31.65	-93.10	-4,092.62	492.43	8,194.32	8,088.45	105.87	77.397		
14,600.00	7,208.92	7,400.00	7,376.39	210.19	31.65	-93.10	-4,092.62	492.43	8,290.63	8,184.61	106.02	78.198		
14,700.00	7,208.32	7,400.00	7,376.39	213.01	31.65	-93.10	-4,092.62	492.43	8,387.03	8,280.86	106.17	79.000		
14,800.00	7,207.73	7,400.00	7,376.39	215.83	31.65	-93.10	-4,092.62	492.43	8,483.51	8,377.20	106.31	79.802		
14,900.00	7,207.13	7,400.00	7,376.39	218.65	31.65	-93.10	-4,092.62	492.43	8,580.06	8,473.62	106.45	80.605		
15,000.00	7,206.53	7,400.00	7,376.39	221.47	31.65	-93.10	-4,092.62	492.43	8,676.70	8,570.12	106.58	81.409		
15,100.00	7,205.94	7,400.00	7,376.39	224.29	31.65	-93.10	-4,092.62	492.43	8,773.41	8,666.70	106.72	82.212		
15,200.00	7,205.34	7,400.00	7,376.39	227.11	31.65	-93.10	-4,092.62	492.43	8,870.20	8,763.35	106.85	83.016		
15,258.04	7,205.00	7,400.00	7,376.39	228.75	31.65	-93.10	-4,092.62	492.43	8,926.41	8,819.49	106.92	83.483		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	23.88	-0.12	3.28	3.28	-24.07	2,582.59	-1,153.89	2,828.65					
100.00	100.00	121.86	97.86	3.28	3.29	-24.08	2,582.52	-1,154.10	2,828.67	2,822.09	6.58	429.948		
200.00	200.00	219.43	195.43	3.34	3.36	-24.08	2,582.69	-1,154.18	2,828.86	2,822.16	6.70	422.462		
300.00	299.98	329.24	305.24	3.44	3.49	151.18	2,582.68	-1,153.83	2,830.24	2,823.30	6.93	408.382		
400.00	399.84	420.59	396.58	3.59	3.64	151.18	2,582.77	-1,153.71	2,834.85	2,827.62	7.23	391.882		
500.00	499.45	529.00	505.00	3.79	3.87	151.20	2,582.70	-1,153.65	2,842.41	2,834.76	7.66	371.203		
600.00	598.70	635.57	611.57	4.03	4.13	151.23	2,582.54	-1,153.37	2,852.88	2,844.72	8.16	349.676		
700.00	697.47	740.58	716.57	4.31	4.41	151.27	2,581.98	-1,152.78	2,865.91	2,857.19	8.73	328.466		
800.00	795.62	836.12	812.11	4.64	4.70	151.30	2,581.69	-1,152.30	2,882.24	2,872.92	9.32	309.226		
900.00	893.06	942.63	918.62	5.00	5.03	151.35	2,581.05	-1,151.49	2,901.24	2,891.24	10.00	290.162		
1,000.00	989.65	1,031.70	1,007.69	5.40	5.33	151.38	2,580.57	-1,150.92	2,923.38	2,912.72	10.66	274.122		
1,100.00	1,085.85	1,123.32	1,099.30	5.82	5.64	151.63	2,580.28	-1,150.44	2,947.08	2,935.72	11.36	259.524		
1,200.00	1,182.06	1,223.29	1,199.27	6.27	6.00	151.89	2,579.92	-1,149.92	2,970.80	2,958.70	12.10	245.443		
1,300.00	1,278.26	1,318.79	1,294.77	6.73	6.34	152.14	2,579.49	-1,149.49	2,994.53	2,981.67	12.86	232.891		
1,400.00	1,374.47	1,409.40	1,385.37	7.20	6.68	152.37	2,579.29	-1,148.93	3,018.44	3,004.83	13.61	221.768		
1,500.00	1,470.67	1,507.96	1,483.93	7.69	7.05	152.62	2,579.12	-1,148.31	3,042.46	3,028.05	14.41	211.135		
1,600.00	1,566.88	1,614.54	1,590.51	8.18	7.46	152.89	2,578.62	-1,147.84	3,066.32	3,051.06	15.26	200.990		
1,700.00	1,663.08	1,705.53	1,681.50	8.68	7.81	153.10	2,577.95	-1,147.92	3,090.18	3,074.13	16.05	192.551		
1,800.00	1,759.29	1,791.60	1,767.56	9.19	8.14	153.29	2,577.46	-1,148.19	3,114.31	3,097.48	16.83	185.066		
1,900.00	1,855.49	1,913.08	1,889.04	9.70	8.62	153.56	2,576.59	-1,148.35	3,138.30	3,120.53	17.77	176.613		
2,000.00	1,951.70	1,992.36	1,968.33	10.22	8.94	153.73	2,575.87	-1,148.66	3,162.22	3,143.69	18.53	170.626		
2,100.00	2,047.90	2,089.66	2,065.62	10.73	9.33	153.93	2,575.13	-1,149.20	3,186.38	3,167.00	19.38	164.403		
2,200.00	2,144.11	2,197.54	2,173.49	11.26	9.76	154.16	2,574.18	-1,149.52	3,210.39	3,190.11	20.28	158.275		
2,300.00	2,240.31	2,287.24	2,263.18	11.78	10.12	154.35	2,573.30	-1,149.78	3,234.35	3,213.24	21.11	153.233		
2,400.00	2,336.52	2,385.58	2,361.52	12.31	10.52	154.54	2,572.35	-1,150.33	3,258.44	3,236.46	21.97	148.281		
2,500.00	2,432.72	2,480.12	2,456.05	12.84	10.91	154.72	2,571.32	-1,151.10	3,282.53	3,259.70	22.83	143.796		
2,600.00	2,528.93	2,573.08	2,549.01	13.37	11.29	154.89	2,570.34	-1,152.00	3,306.74	3,283.07	23.68	139.668		
2,700.00	2,625.13	2,661.13	2,637.05	13.91	11.65	155.06	2,569.58	-1,152.83	3,331.14	3,306.64	24.50	135.953		
2,800.00	2,721.34	2,745.77	2,721.68	14.44	11.99	155.21	2,569.15	-1,153.55	3,355.88	3,330.56	25.31	132.576		
2,900.00	2,817.54	2,835.37	2,811.28	14.98	12.36	155.38	2,568.98	-1,154.48	3,380.97	3,354.82	26.15	129.299		
3,000.00	2,913.75	2,934.82	2,910.72	15.52	12.77	155.56	2,568.75	-1,155.51	3,406.07	3,379.04	27.03	125.989		
3,100.00	3,009.95	3,031.05	3,006.94	16.06	13.17	155.72	2,568.34	-1,156.96	3,431.17	3,403.27	27.91	122.950		
3,200.00	3,106.16	3,124.70	3,100.58	16.60	13.56	155.87	2,567.96	-1,158.41	3,456.32	3,427.55	28.77	120.143		
3,300.00	3,202.37	3,213.69	3,189.55	17.14	13.93	156.01	2,567.66	-1,160.05	3,481.65	3,452.05	29.61	117.596		
3,400.00	3,298.57	3,304.16	3,280.00	17.68	14.31	156.15	2,567.41	-1,162.11	3,507.19	3,476.74	30.45	115.163		
3,500.00	3,394.78	3,398.58	3,374.39	18.22	14.70	156.28	2,567.19	-1,164.45	3,532.85	3,501.53	31.32	112.787		
3,600.00	3,490.98	3,503.27	3,479.05	18.76	15.14	156.43	2,566.89	-1,166.93	3,558.44	3,526.20	32.25	110.351		
3,700.00	3,587.19	3,592.21	3,567.97	19.31	15.51	156.56	2,566.66	-1,168.91	3,584.05	3,550.96	33.09	108.317		
3,800.00	3,683.39	3,739.22	3,714.93	19.85	16.13	156.77	2,565.24	-1,172.18	3,608.98	3,574.75	34.24	105.412		
3,900.00	3,779.60	3,845.89	3,821.56	20.39	16.57	156.91	2,563.36	-1,174.38	3,633.18	3,598.01	35.18	103.286		
4,000.00	3,875.80	3,943.51	3,919.14	20.94	16.98	157.04	2,561.53	-1,176.33	3,657.29	3,621.22	36.07	101.397		
4,100.00	3,972.01	4,040.68	4,016.27	21.48	17.39	157.17	2,559.68	-1,178.40	3,681.42	3,644.46	36.96	99.605		
4,200.00	4,068.21	4,139.90	4,115.45	22.03	17.81	157.29	2,557.72	-1,180.55	3,705.51	3,667.64	37.86	97.866		
4,300.00	4,164.42	4,239.01	4,214.52	22.57	18.23	157.42	2,555.71	-1,182.64	3,729.56	3,690.79	38.77	96.207		
4,400.00	4,260.62	4,336.91	4,312.38	23.12	18.64	157.54	2,553.68	-1,184.66	3,753.56	3,713.90	39.66	94.636		
4,500.00	4,356.83	4,433.27	4,408.70	23.67	19.05	157.66	2,551.70	-1,186.66	3,777.60	3,737.04	40.55	93.153		
4,600.00	4,453.03	4,532.30	4,507.68	24.21	19.47	157.77	2,549.59	-1,188.83	3,801.61	3,760.15	41.46	91.701		
4,700.00	4,549.24	4,629.41	4,604.75	24.76	19.88	157.89	2,547.47	-1,190.97	3,825.60	3,783.24	42.35	90.330		
4,800.00	4,645.44	4,730.47	4,705.75	25.31	20.31	158.00	2,545.28	-1,193.21	3,849.62	3,806.35	43.27	88.972		
4,900.00	4,741.65	4,844.28	4,819.50	25.86	20.79	158.13	2,542.38	-1,195.59	3,873.25	3,829.00	44.25	87.524		
5,000.00	4,837.85	4,940.16	4,915.33	26.40	21.19	158.24	2,539.78	-1,197.51	3,896.73	3,851.59	45.14	86.320		
5,100.00	4,934.06	5,030.16	5,005.28	26.95	21.58	158.34	2,537.48	-1,199.28	3,920.36	3,874.36	46.00	85.224		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,200.00	5,030.26	5,120.51	5,095.60	27.50	21.96	158.45	2,535.36	-1,200.94	3,944.16	3,897.30	46.86	84.170		
5,300.00	5,126.47	5,207.73	5,182.78	28.05	22.33	158.55	2,533.50	-1,202.54	3,968.18	3,920.48	47.70	83.188		
5,400.00	5,222.67	5,296.98	5,272.00	28.60	22.71	158.65	2,531.82	-1,204.12	3,992.42	3,943.87	48.55	82.227		
5,500.00	5,318.88	5,380.87	5,355.86	29.15	23.06	158.75	2,530.53	-1,205.34	4,016.92	3,967.55	49.37	81.356		
5,600.00	5,415.08	5,474.67	5,449.65	29.70	23.46	158.87	2,529.41	-1,206.35	4,041.65	3,991.40	50.25	80.429		
5,700.00	5,511.29	5,564.45	5,539.43	30.25	23.84	158.98	2,528.37	-1,207.41	4,066.46	4,015.36	51.10	79.572		
5,800.00	5,607.49	5,646.12	5,621.09	30.79	24.19	159.08	2,527.62	-1,208.43	4,091.54	4,039.63	51.91	78.819		
5,900.00	5,703.70	5,745.82	5,720.78	31.34	24.61	159.20	2,527.21	-1,209.18	4,116.97	4,064.15	52.82	77.943		
6,000.00	5,799.90	5,862.75	5,837.70	31.89	25.11	159.36	2,526.31	-1,209.00	4,141.83	4,088.00	53.83	76.944		
6,100.00	5,896.11	5,964.24	5,939.19	32.44	25.54	159.50	2,525.39	-1,208.69	4,166.56	4,111.81	54.75	76.102		
6,200.00	5,992.32	6,139.04	6,113.94	32.99	26.28	159.77	2,522.55	-1,205.84	4,190.30	4,134.22	56.08	74.715		
6,300.00	6,088.52	6,322.04	6,296.76	33.54	27.06	160.06	2,516.88	-1,200.57	4,212.57	4,155.12	57.44	73.332		
6,400.00	6,184.73	6,400.00	6,374.62	34.09	27.39	160.18	2,513.48	-1,198.34	4,233.55	4,175.31	58.24	72.689		
6,500.00	6,280.93	6,458.05	6,432.61	34.64	27.64	160.26	2,511.20	-1,197.28	4,255.28	4,196.35	58.93	72.211		
6,600.00	6,377.14	6,500.00	6,474.55	35.19	27.82	160.31	2,509.97	-1,196.88	4,278.17	4,218.65	59.52	71.880		
6,700.00	6,473.34	6,564.32	6,538.85	35.74	28.09	160.39	2,508.68	-1,196.65	4,302.03	4,241.81	60.23	71.430		
6,800.00	6,569.55	6,631.81	6,606.34	36.29	28.38	160.47	2,507.92	-1,196.67	4,326.78	4,265.83	60.95	70.989		
6,900.00	6,665.75	6,716.40	6,690.92	36.84	28.74	155.59	2,507.23	-1,196.93	4,351.86	4,290.09	61.77	70.450		
7,000.00	6,761.11	6,797.13	6,771.65	37.39	29.08	127.60	2,506.75	-1,197.48	4,374.74	4,312.16	62.57	69.916		
7,100.00	6,853.41	6,856.98	6,831.50	37.89	29.34	110.54	2,506.67	-1,198.13	4,393.88	4,330.65	63.23	69.494		
7,200.00	6,940.36	6,921.90	6,896.41	38.34	29.61	100.70	2,507.02	-1,199.07	4,409.25	4,345.36	63.89	69.013		
7,300.00	7,019.83	7,009.36	6,983.86	38.74	29.98	95.07	2,507.56	-1,200.28	4,420.29	4,355.60	64.69	68.330		
7,400.00	7,089.85	7,075.48	7,049.98	39.10	30.26	91.69	2,507.98	-1,201.13	4,427.12	4,361.73	65.39	67.705		
7,500.00	7,148.71	7,132.68	7,107.17	39.42	30.51	89.80	2,508.38	-1,201.83	4,430.12	4,364.01	66.11	67.013		
7,600.00	7,194.95	7,177.82	7,152.30	39.71	30.70	88.90	2,508.74	-1,202.28	4,429.68	4,362.80	66.88	66.233		
7,700.00	7,227.43	7,210.23	7,184.71	40.01	30.83	88.70	2,509.02	-1,202.54	4,426.21	4,358.47	67.74	65.343		
7,800.00	7,245.37	7,229.45	7,203.93	40.37	30.92	89.01	2,509.19	-1,202.71	4,420.08	4,351.39	68.70	64.342		
7,900.00	7,248.84	7,233.95	7,208.43	40.87	30.93	89.50	2,509.22	-1,202.75	4,411.78	4,342.05	69.73	63.265		
8,000.00	7,248.24	7,234.28	7,208.76	41.62	30.94	89.51	2,509.23	-1,202.75	4,404.54	4,333.63	70.91	62.112		
8,100.00	7,247.65	7,234.61	7,209.09	42.66	30.94	89.51	2,509.23	-1,202.76	4,399.56	4,327.32	72.24	60.902		
8,200.00	7,247.05	7,234.94	7,209.42	43.96	30.94	89.51	2,509.23	-1,202.76	4,396.84	4,323.14	73.70	59.658		
8,269.36	7,246.64	7,235.18	7,209.66	44.99	30.94	89.52	2,509.23	-1,202.76	4,396.30	4,321.50	74.79	58.778		
8,300.00	7,246.46	7,235.28	7,209.76	45.46	30.94	89.52	2,509.24	-1,202.76	4,396.40	4,321.13	75.28	58.404		
8,400.00	7,245.86	7,235.62	7,210.10	47.13	30.94	89.52	2,509.24	-1,202.76	4,398.24	4,321.29	76.95	57.156		
8,500.00	7,245.27	7,235.96	7,210.44	48.93	30.94	89.53	2,509.24	-1,202.77	4,402.34	4,323.63	78.71	55.931		
8,600.00	7,244.67	7,236.31	7,210.79	50.84	30.94	89.53	2,509.24	-1,202.77	4,408.71	4,328.17	80.54	54.741		
8,700.00	7,244.07	7,236.65	7,211.13	52.85	30.95	89.54	2,509.25	-1,202.77	4,417.34	4,334.92	82.42	53.595		
8,800.00	7,243.48	7,237.00	7,211.49	54.94	30.95	89.54	2,509.25	-1,202.78	4,428.20	4,343.86	84.35	52.500		
8,900.00	7,242.88	7,237.36	7,211.84	57.10	30.95	89.55	2,509.25	-1,202.78	4,441.30	4,354.99	86.30	51.461		
9,000.00	7,242.29	7,237.72	7,212.20	59.32	30.95	89.55	2,509.26	-1,202.78	4,456.60	4,368.31	88.28	50.481		
9,100.00	7,241.69	7,238.08	7,212.56	61.60	30.95	89.56	2,509.26	-1,202.79	4,474.08	4,383.80	90.27	49.562		
9,200.00	7,241.09	7,238.44	7,212.92	63.92	30.95	89.56	2,509.26	-1,202.79	4,493.72	4,401.45	92.26	48.704		
9,300.00	7,240.50	7,238.81	7,213.29	66.29	30.96	89.57	2,509.26	-1,202.79	4,515.49	4,421.23	94.25	47.908		
9,400.00	7,239.90	7,239.18	7,213.66	68.70	30.96	89.57	2,509.27	-1,202.80	4,539.35	4,443.12	96.23	47.172		
9,500.00	7,239.31	7,239.55	7,214.03	71.14	30.96	89.58	2,509.27	-1,202.80	4,565.29	4,467.10	98.19	46.495		
9,600.00	7,238.71	7,239.93	7,214.41	73.61	30.96	89.58	2,509.27	-1,202.81	4,593.25	4,493.13	100.13	45.874		
9,700.00	7,238.11	7,240.31	7,214.79	76.11	30.96	89.58	2,509.28	-1,202.81	4,623.21	4,521.18	102.04	45.309		
9,800.00	7,237.52	7,240.70	7,215.18	78.64	30.96	89.59	2,509.28	-1,202.81	4,655.13	4,551.21	103.92	44.796		
9,900.00	7,236.92	7,241.08	7,215.57	81.19	30.97	89.60	2,509.28	-1,202.82	4,688.96	4,583.20	105.77	44.334		
10,000.00	7,236.33	7,241.48	7,215.96	83.75	30.97	89.60	2,509.29	-1,202.82	4,724.67	4,617.09	107.57	43.920		
10,100.00	7,235.73	7,241.87	7,216.35	86.34	30.97	89.61	2,509.29	-1,202.82	4,762.21	4,652.86	109.35	43.552		
10,200.00	7,235.14	7,242.27	7,216.75	88.94	30.97	89.61	2,509.29	-1,202.83	4,801.53	4,690.46	111.07	43.228		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,242.67	7,217.16	91.56	30.97	89.62	2,509.30	-1,202.83	4,842.61	4,729.85	112.76	42.946		
10,400.00	7,233.94	7,243.08	7,217.56	94.19	30.97	89.62	2,509.30	-1,202.83	4,885.38	4,770.98	114.40	42.703		
10,500.00	7,233.35	7,243.49	7,217.97	96.84	30.98	89.63	2,509.30	-1,202.84	4,929.82	4,813.81	116.00	42.497		
10,600.00	7,232.75	7,243.91	7,218.39	99.50	30.98	89.63	2,509.31	-1,202.84	4,975.86	4,858.31	117.56	42.328		
10,700.00	7,232.16	7,244.33	7,218.81	102.17	30.98	89.64	2,509.31	-1,202.85	5,023.48	4,904.42	119.06	42.191		
10,800.00	7,231.56	7,244.75	7,219.23	104.85	30.98	89.64	2,509.31	-1,202.85	5,072.62	4,952.09	120.53	42.087		
10,900.00	7,230.96	7,245.18	7,219.66	107.53	30.98	89.65	2,509.32	-1,202.85	5,123.24	5,001.30	121.94	42.013		
11,000.00	7,230.37	7,245.61	7,220.09	110.23	30.98	89.65	2,509.32	-1,202.86	5,175.30	5,051.98	123.31	41.968		
11,100.00	7,229.77	7,246.04	7,220.52	112.93	30.99	89.66	2,509.32	-1,202.86	5,228.75	5,104.11	124.64	41.950 SF		
11,200.00	7,229.18	7,246.48	7,220.96	115.65	30.99	89.67	2,509.33	-1,202.87	5,283.55	5,157.63	125.92	41.958		
11,300.00	7,228.58	7,246.93	7,221.41	118.37	30.99	89.67	2,509.33	-1,202.87	5,339.67	5,212.50	127.16	41.990		
11,400.00	7,227.99	7,247.38	7,221.86	121.09	30.99	89.68	2,509.34	-1,202.88	5,397.05	5,268.69	128.36	42.046		
11,500.00	7,227.39	7,247.83	7,222.31	123.82	30.99	89.68	2,509.34	-1,202.88	5,455.67	5,326.15	129.52	42.123		
11,600.00	7,226.79	7,248.29	7,222.77	126.56	31.00	89.69	2,509.34	-1,202.89	5,515.47	5,384.84	130.63	42.222		
11,700.00	7,226.20	7,248.75	7,223.23	129.30	31.00	89.69	2,509.35	-1,202.89	5,576.43	5,444.72	131.71	42.340		
11,800.00	7,225.60	7,249.22	7,223.70	132.05	31.00	89.70	2,509.35	-1,202.89	5,638.50	5,505.76	132.74	42.477		
11,900.00	7,225.01	7,249.69	7,224.17	134.80	31.00	89.71	2,509.35	-1,202.90	5,701.65	5,567.91	133.74	42.632		
12,000.00	7,224.41	7,250.17	7,224.65	137.56	31.00	89.71	2,509.36	-1,202.90	5,765.84	5,631.14	134.70	42.804		
12,100.00	7,223.81	7,250.65	7,225.13	140.32	31.01	89.72	2,509.36	-1,202.91	5,831.04	5,695.41	135.63	42.992		
12,200.00	7,223.22	7,251.14	7,225.62	143.08	31.01	89.73	2,509.37	-1,202.91	5,897.21	5,760.69	136.52	43.196		
12,300.00	7,222.62	7,251.63	7,226.11	145.85	31.01	89.73	2,509.37	-1,202.92	5,964.33	5,826.95	137.38	43.414		
12,400.00	7,222.03	7,252.13	7,226.61	148.62	31.01	89.74	2,509.37	-1,202.92	6,032.36	5,894.15	138.21	43.647		
12,500.00	7,221.43	7,252.63	7,227.11	151.40	31.01	89.75	2,509.38	-1,202.93	6,101.27	5,962.26	139.01	43.892		
12,600.00	7,220.83	7,253.14	7,227.62	154.18	31.02	89.75	2,509.38	-1,202.93	6,171.03	6,031.26	139.77	44.151		
12,700.00	7,220.24	7,253.65	7,228.13	156.96	31.02	89.76	2,509.39	-1,202.94	6,241.61	6,101.10	140.51	44.421		
12,800.00	7,219.64	7,254.17	7,228.65	159.74	31.02	89.77	2,509.39	-1,202.94	6,312.99	6,171.77	141.22	44.703		
12,900.00	7,219.05	7,254.70	7,229.18	162.53	31.02	89.77	2,509.40	-1,202.95	6,385.13	6,243.23	141.90	44.996		
13,000.00	7,218.45	7,255.23	7,229.71	165.32	31.02	89.78	2,509.40	-1,202.95	6,458.02	6,315.46	142.56	45.299		
13,100.00	7,217.86	7,255.77	7,230.25	168.11	31.03	89.79	2,509.40	-1,202.96	6,531.63	6,388.43	143.20	45.613		
13,200.00	7,217.26	7,256.31	7,230.79	170.90	31.03	89.79	2,509.41	-1,202.96	6,605.93	6,462.12	143.81	45.936		
13,300.00	7,216.66	7,256.86	7,231.34	173.70	31.03	89.80	2,509.41	-1,202.97	6,680.90	6,536.50	144.39	46.268		
13,400.00	7,216.07	7,257.41	7,231.89	176.49	31.03	89.81	2,509.42	-1,202.98	6,756.51	6,611.55	144.96	46.610		
13,500.00	7,215.47	7,257.97	7,232.45	179.29	31.04	89.82	2,509.42	-1,202.98	6,832.76	6,687.25	145.50	46.959		
13,600.00	7,214.88	7,258.54	7,233.02	182.09	31.04	89.82	2,509.43	-1,202.99	6,909.61	6,763.58	146.03	47.317		
13,700.00	7,214.28	7,259.11	7,233.59	184.90	31.04	89.83	2,509.43	-1,202.99	6,987.05	6,840.51	146.53	47.682		
13,800.00	7,213.68	7,259.69	7,234.17	187.70	31.04	89.84	2,509.44	-1,203.00	7,065.05	6,918.03	147.02	48.054		
13,900.00	7,213.09	7,260.28	7,234.76	190.51	31.05	89.85	2,509.44	-1,203.01	7,143.60	6,996.11	147.49	48.434		
14,000.00	7,212.49	7,260.88	7,235.35	193.32	31.05	89.85	2,509.45	-1,203.01	7,222.68	7,074.74	147.94	48.821		
14,100.00	7,211.90	7,261.48	7,235.96	196.13	31.05	89.86	2,509.45	-1,203.02	7,302.28	7,153.90	148.38	49.214		
14,200.00	7,211.30	7,262.08	7,236.56	198.94	31.05	89.87	2,509.46	-1,203.02	7,382.37	7,233.57	148.80	49.613		
14,300.00	7,210.71	7,262.70	7,237.18	201.75	31.06	89.88	2,509.46	-1,203.03	7,462.94	7,313.73	149.20	50.018		
14,400.00	7,210.11	7,263.32	7,237.80	204.56	31.06	89.88	2,509.47	-1,203.04	7,543.98	7,394.38	149.60	50.429		
14,500.00	7,209.51	7,263.95	7,238.43	207.38	31.06	89.89	2,509.47	-1,203.04	7,625.46	7,475.49	149.97	50.846		
14,600.00	7,208.92	7,264.59	7,239.07	210.19	31.06	89.90	2,509.48	-1,203.05	7,707.38	7,557.05	150.34	51.267		
14,700.00	7,208.32	7,265.23	7,239.71	213.01	31.07	89.91	2,509.48	-1,203.06	7,789.73	7,639.04	150.69	51.694		
14,800.00	7,207.73	7,265.89	7,240.37	215.83	31.07	89.92	2,509.49	-1,203.06	7,872.48	7,721.45	151.03	52.126		
14,900.00	7,207.13	7,266.55	7,241.03	218.65	31.07	89.93	2,509.49	-1,203.07	7,955.63	7,804.28	151.36	52.562		
15,000.00	7,206.53	7,267.22	7,241.70	221.47	31.08	89.94	2,509.50	-1,203.08	8,039.17	7,887.49	151.67	53.003		
15,100.00	7,205.94	7,267.89	7,242.37	224.29	31.08	89.94	2,509.50	-1,203.08	8,123.07	7,971.09	151.98	53.449		
15,200.00	7,205.34	7,268.58	7,243.06	227.11	31.08	89.95	2,509.51	-1,203.09	8,207.34	8,055.06	152.28	53.898		
15,258.04	7,205.00	7,268.98	7,243.46	228.75	31.08	89.96	2,509.51	-1,203.10	8,256.41	8,103.97	152.44	54.161		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	20.00	3.28	3.28	-61.71	1,164.79	-2,164.39	2,457.99					
100.00	100.00	80.00	100.00	3.28	3.56	-61.71	1,164.79	-2,164.39	2,457.91	2,451.06	6.85	358.840		
200.00	200.00	180.00	200.00	3.34	5.60	-61.71	1,164.79	-2,164.39	2,457.91	2,448.97	8.94	275.040 CC		
300.00	299.98	279.98	299.98	3.44	8.67	113.56	1,164.79	-2,164.39	2,458.61	2,446.49	12.11	202.986		
400.00	399.84	379.84	399.84	3.59	11.97	113.63	1,164.79	-2,164.39	2,460.70	2,445.14	15.56	158.126		
500.00	499.45	479.45	499.45	3.79	15.35	113.75	1,164.79	-2,164.39	2,464.22	2,445.08	19.13	128.787 ES		
600.00	598.70	578.70	598.70	4.03	18.75	113.92	1,164.79	-2,164.39	2,469.17	2,446.40	22.78	108.410		
700.00	697.47	677.47	697.47	4.31	22.15	114.13	1,164.79	-2,164.39	2,475.61	2,449.15	26.46	93.550		
800.00	795.62	775.62	795.62	4.64	25.54	114.38	1,164.79	-2,164.39	2,483.57	2,453.39	30.18	82.297		
900.00	893.06	873.06	893.06	5.00	28.92	114.67	1,164.79	-2,164.39	2,493.11	2,459.20	33.91	73.519		
1,000.00	989.65	969.65	989.65	5.40	32.27	115.00	1,164.79	-2,164.39	2,504.28	2,466.63	37.65	66.508		
1,100.00	1,085.85	1,065.85	1,085.85	5.82	35.61	115.55	1,164.79	-2,164.39	2,516.31	2,474.90	41.41	60.766		
1,200.00	1,182.06	1,162.06	1,182.06	6.27	38.96	116.09	1,164.79	-2,164.39	2,528.57	2,483.38	45.19	55.959		
1,300.00	1,278.26	1,258.26	1,278.26	6.73	42.31	116.62	1,164.79	-2,164.39	2,541.06	2,492.08	48.98	51.880		
1,400.00	1,374.47	1,354.47	1,374.47	7.20	45.66	117.16	1,164.79	-2,164.39	2,553.78	2,501.00	52.79	48.380		
1,500.00	1,470.67	1,450.67	1,470.67	7.69	49.01	117.68	1,164.79	-2,164.39	2,566.73	2,510.13	56.60	45.346		
1,600.00	1,566.88	1,546.88	1,566.88	8.18	52.36	118.20	1,164.79	-2,164.39	2,579.91	2,519.48	60.43	42.693		
1,700.00	1,663.08	1,643.08	1,663.08	8.68	55.71	118.72	1,164.79	-2,164.39	2,593.30	2,529.04	64.26	40.355		
1,800.00	1,759.29	1,739.29	1,759.29	9.19	59.06	119.23	1,164.79	-2,164.39	2,606.91	2,538.81	68.10	38.281		
1,900.00	1,855.49	1,835.49	1,855.49	9.70	62.42	119.73	1,164.79	-2,164.39	2,620.74	2,548.80	71.94	36.428		
2,000.00	1,951.70	1,931.70	1,951.70	10.22	65.77	120.24	1,164.79	-2,164.39	2,634.77	2,558.99	75.79	34.765		
2,100.00	2,047.90	2,027.90	2,047.90	10.73	69.13	120.73	1,164.79	-2,164.39	2,649.02	2,569.38	79.64	33.263		
2,200.00	2,144.11	2,124.11	2,144.11	11.26	72.48	121.22	1,164.79	-2,164.39	2,663.46	2,579.97	83.49	31.902		
2,300.00	2,240.31	2,220.31	2,240.31	11.78	75.84	121.71	1,164.79	-2,164.39	2,678.11	2,590.76	87.34	30.662		
2,400.00	2,336.52	2,316.52	2,336.52	12.31	79.19	122.19	1,164.79	-2,164.39	2,692.95	2,601.75	91.20	29.528		
2,500.00	2,432.72	2,412.72	2,432.72	12.84	82.55	122.66	1,164.79	-2,164.39	2,707.98	2,612.93	95.06	28.488		
2,600.00	2,528.93	2,508.93	2,528.93	13.37	85.90	123.13	1,164.79	-2,164.39	2,723.21	2,624.30	98.91	27.531		
2,700.00	2,625.13	2,605.13	2,625.13	13.91	89.26	123.60	1,164.79	-2,164.39	2,738.62	2,635.85	102.77	26.648		
2,800.00	2,721.34	2,701.34	2,721.34	14.44	92.62	124.06	1,164.79	-2,164.39	2,754.22	2,647.59	106.63	25.830		
2,900.00	2,817.54	2,802.46	2,817.54	14.98	96.14	124.52	1,164.79	-2,164.39	2,770.00	2,659.34	110.66	25.031		
3,000.00	2,913.75	2,906.25	2,913.75	15.52	99.77	124.97	1,164.79	-2,164.39	2,785.96	2,671.17	114.79	24.271		
3,100.00	3,009.95	2,989.95	3,009.95	16.06	102.69	125.41	1,164.79	-2,164.39	2,802.09	2,683.88	118.21	23.704		
3,200.00	3,106.16	3,086.16	3,106.16	16.60	106.04	125.85	1,164.79	-2,164.39	2,818.39	2,696.32	122.07	23.088		
3,300.00	3,202.37	3,182.37	3,202.37	17.14	109.40	126.29	1,164.79	-2,164.39	2,834.86	2,708.93	125.93	22.511		
3,400.00	3,298.57	3,278.57	3,298.57	17.68	112.76	126.72	1,164.79	-2,164.39	2,851.50	2,721.71	129.79	21.970		
3,500.00	3,394.78	3,374.78	3,394.78	18.22	116.11	127.15	1,164.79	-2,164.39	2,868.30	2,734.65	133.65	21.461		
3,600.00	3,490.98	3,470.98	3,490.98	18.76	119.47	127.57	1,164.79	-2,164.39	2,885.26	2,747.75	137.51	20.982		
3,700.00	3,587.19	3,567.19	3,587.19	19.31	122.83	127.99	1,164.79	-2,164.39	2,902.38	2,761.01	141.37	20.531		
3,800.00	3,683.39	3,663.39	3,683.39	19.85	126.19	128.40	1,164.79	-2,164.39	2,919.65	2,774.43	145.23	20.104		
3,900.00	3,779.60	3,759.60	3,779.60	20.39	129.54	128.81	1,164.79	-2,164.39	2,937.08	2,787.99	149.09	19.701		
4,000.00	3,875.80	3,855.80	3,875.80	20.94	132.90	129.21	1,164.79	-2,164.39	2,954.65	2,801.71	152.94	19.318		
4,100.00	3,972.01	3,952.01	3,972.01	21.48	136.26	129.61	1,164.79	-2,164.39	2,972.38	2,815.57	156.80	18.956		
4,200.00	4,068.21	4,048.21	4,068.21	22.03	139.62	130.00	1,164.79	-2,164.39	2,990.24	2,829.58	160.66	18.612		
4,300.00	4,164.42	4,144.42	4,164.42	22.57	142.97	130.39	1,164.79	-2,164.39	3,008.25	2,843.73	164.52	18.285		
4,400.00	4,260.62	4,240.62	4,260.62	23.12	146.33	130.78	1,164.79	-2,164.39	3,026.39	2,858.02	168.37	17.974		
4,500.00	4,356.83	4,336.83	4,356.83	23.67	149.69	131.16	1,164.79	-2,164.39	3,044.67	2,872.44	172.23	17.678		
4,600.00	4,453.03	4,433.03	4,453.03	24.21	153.05	131.53	1,164.79	-2,164.39	3,063.09	2,887.00	176.09	17.395		
4,700.00	4,549.24	4,529.24	4,549.24	24.76	156.40	131.90	1,164.79	-2,164.39	3,081.64	2,901.69	179.94	17.126		
4,800.00	4,645.44	4,625.44	4,645.44	25.31	159.76	132.27	1,164.79	-2,164.39	3,100.31	2,916.52	183.80	16.868		
4,900.00	4,741.65	4,721.65	4,741.65	25.86	163.12	132.63	1,164.79	-2,164.39	3,119.12	2,931.46	187.65	16.622		
5,000.00	4,837.85	4,817.85	4,837.85	26.40	166.48	132.99	1,164.79	-2,164.39	3,138.04	2,946.54	191.51	16.386		
5,100.00	4,934.06	4,914.06	4,934.06	26.95	169.84	133.35	1,164.79	-2,164.39	3,157.09	2,961.73	195.36	16.160		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,010.26	5,030.26	27.50	173.19	133.70	1,164.79	-2,164.39	3,176.27	2,977.05	199.21	15.944		
5,300.00	5,126.47	5,106.47	5,126.47	28.05	176.55	134.05	1,164.79	-2,164.39	3,195.55	2,992.49	203.07	15.736		
5,400.00	5,222.67	5,202.67	5,222.67	28.60	179.91	134.39	1,164.79	-2,164.39	3,214.96	3,008.04	206.92	15.537		
5,500.00	5,318.88	5,301.12	5,318.88	29.15	183.35	134.73	1,164.79	-2,164.39	3,234.48	3,023.63	210.85	15.340		
5,600.00	5,415.08	5,404.92	5,415.08	29.70	186.97	135.06	1,164.79	-2,164.39	3,254.11	3,039.14	214.97	15.138		
5,700.00	5,511.29	5,508.71	5,511.29	30.25	190.59	135.39	1,164.79	-2,164.39	3,273.85	3,054.76	219.08	14.943		
5,800.00	5,607.49	5,587.49	5,607.49	30.79	193.34	135.72	1,164.79	-2,164.39	3,293.69	3,071.37	222.33	14.815		
5,900.00	5,703.70	5,683.70	5,703.70	31.34	196.70	136.05	1,164.79	-2,164.39	3,313.65	3,087.47	226.18	14.651		
6,000.00	5,799.90	5,779.90	5,799.90	31.89	200.06	136.36	1,164.79	-2,164.39	3,333.70	3,103.68	230.03	14.493		
6,100.00	5,896.11	5,876.11	5,896.11	32.44	203.42	136.68	1,164.79	-2,164.39	3,353.86	3,119.99	233.88	14.340		
6,200.00	5,992.32	5,972.32	5,992.32	32.99	206.77	136.99	1,164.79	-2,164.39	3,374.12	3,136.40	237.73	14.193		
6,300.00	6,088.52	6,068.52	6,088.52	33.54	210.13	137.30	1,164.79	-2,164.39	3,394.48	3,152.91	241.57	14.051		
6,400.00	6,184.73	6,164.73	6,184.73	34.09	213.49	137.61	1,164.79	-2,164.39	3,414.93	3,169.51	245.42	13.914		
6,500.00	6,280.93	6,260.93	6,280.93	34.64	216.85	137.91	1,164.79	-2,164.39	3,435.48	3,186.21	249.27	13.782		
6,600.00	6,377.14	6,357.14	6,377.14	35.19	220.21	138.21	1,164.79	-2,164.39	3,456.13	3,203.01	253.12	13.654		
6,700.00	6,473.34	6,453.34	6,473.34	35.74	223.57	138.50	1,164.79	-2,164.39	3,476.86	3,219.89	256.97	13.530		
6,800.00	6,569.55	6,549.55	6,569.55	36.29	226.92	138.79	1,164.79	-2,164.39	3,497.68	3,236.87	260.81	13.411		
6,900.00	6,665.75	6,645.75	6,665.75	36.84	230.28	134.21	1,164.79	-2,164.39	3,518.50	3,253.84	264.66	13.294		
7,000.00	6,761.11	6,741.11	6,761.11	37.39	233.61	107.36	1,164.79	-2,164.39	3,533.59	3,265.11	268.48	13.162		
7,100.00	6,853.41	6,833.41	6,853.41	37.89	236.83	91.85	1,164.79	-2,164.39	3,539.63	3,267.47	272.16	13.006		
7,200.00	6,940.36	6,920.36	6,940.36	38.34	239.87	83.83	1,164.79	-2,164.39	3,536.84	3,261.21	275.63	12.832		
7,300.00	7,019.83	7,000.18	7,019.83	38.74	242.65	80.06	1,164.79	-2,164.39	3,525.73	3,246.92	278.82	12.645		
7,400.00	7,089.85	7,069.85	7,089.85	39.10	245.09	78.91	1,164.79	-2,164.39	3,507.09	3,225.43	281.66	12.451		
7,500.00	7,148.71	7,128.71	7,148.71	39.42	247.14	79.49	1,164.79	-2,164.39	3,481.86	3,197.68	284.17	12.253		
7,600.00	7,194.95	7,174.95	7,194.95	39.71	248.75	81.32	1,164.79	-2,164.39	3,451.13	3,164.80	286.33	12.053		
7,700.00	7,227.43	7,207.43	7,227.43	40.01	249.89	84.04	1,164.79	-2,164.39	3,416.06	3,127.92	288.14	11.856		
7,800.00	7,245.37	7,225.37	7,245.37	40.37	250.51	87.40	1,164.79	-2,164.39	3,377.78	3,088.21	289.58	11.665		
7,900.00	7,248.84	7,228.84	7,248.84	40.87	250.64	90.15	1,164.79	-2,164.39	3,337.53	3,046.88	290.65	11.483		
8,000.00	7,248.24	7,228.24	7,248.24	41.62	250.61	90.14	1,164.79	-2,164.39	3,298.70	3,006.96	291.74	11.307		
8,100.00	7,247.65	7,227.65	7,247.65	42.66	250.59	90.13	1,164.79	-2,164.39	3,262.47	2,969.48	292.99	11.135		
8,200.00	7,247.05	7,227.05	7,247.05	43.96	250.57	90.12	1,164.79	-2,164.39	3,228.93	2,934.53	294.40	10.968		
8,300.00	7,246.46	7,226.46	7,246.46	45.46	250.55	90.10	1,164.79	-2,164.39	3,198.17	2,902.22	295.94	10.807		
8,400.00	7,245.86	7,225.86	7,245.86	47.13	250.53	90.09	1,164.79	-2,164.39	3,170.26	2,872.64	297.62	10.652		
8,500.00	7,245.27	7,225.27	7,245.27	48.93	250.51	90.08	1,164.79	-2,164.39	3,145.29	2,845.88	299.41	10.505		
8,600.00	7,244.67	7,224.67	7,244.67	50.84	250.49	90.07	1,164.79	-2,164.39	3,123.32	2,822.02	301.30	10.366		
8,700.00	7,244.07	7,224.07	7,244.07	52.85	250.47	90.06	1,164.79	-2,164.39	3,104.41	2,801.14	303.28	10.236		
8,800.00	7,243.48	7,223.48	7,243.48	54.94	250.45	90.05	1,164.79	-2,164.39	3,088.64	2,783.31	305.32	10.116		
8,900.00	7,242.88	7,222.88	7,242.88	57.10	250.43	90.04	1,164.79	-2,164.39	3,076.03	2,768.60	307.42	10.006		
9,000.00	7,242.29	7,222.29	7,242.29	59.32	250.41	90.03	1,164.79	-2,164.39	3,066.63	2,757.07	309.56	9.906		
9,100.00	7,241.69	7,221.69	7,241.69	61.60	250.39	90.02	1,164.79	-2,164.39	3,060.47	2,748.75	311.73	9.818		
9,200.00	7,241.09	7,221.09	7,241.09	63.92	250.36	90.00	1,164.79	-2,164.39	3,057.58	2,743.68	313.90	9.741		
9,238.62	7,240.86	7,220.86	7,240.86	64.84	250.36	90.00	1,164.79	-2,164.39	3,057.33	2,742.59	314.74	9.714		
9,300.00	7,240.50	7,220.50	7,240.50	66.29	250.34	89.99	1,164.79	-2,164.39	3,057.95	2,741.88	316.07	9.675		
9,400.00	7,239.90	7,219.90	7,239.90	68.70	250.32	89.98	1,164.79	-2,164.39	3,061.59	2,743.37	318.22	9.621		
9,500.00	7,239.31	7,219.31	7,239.31	71.14	250.30	89.97	1,164.79	-2,164.39	3,068.49	2,748.14	320.34	9.579		
9,600.00	7,238.71	7,218.71	7,238.71	73.61	250.28	89.96	1,164.79	-2,164.39	3,078.62	2,756.19	322.42	9.548		
9,700.00	7,238.11	7,218.11	7,238.11	76.11	250.26	89.95	1,164.79	-2,164.39	3,091.95	2,767.50	324.45	9.530		
9,800.00	7,237.52	7,217.52	7,237.52	78.64	250.24	89.94	1,164.79	-2,164.39	3,108.44	2,782.02	326.43	9.523 SF		
9,900.00	7,236.92	7,216.92	7,236.92	81.19	250.22	89.93	1,164.79	-2,164.39	3,128.05	2,799.71	328.34	9.527		
10,000.00	7,236.33	7,216.33	7,236.33	83.75	250.20	89.91	1,164.79	-2,164.39	3,150.71	2,820.54	330.17	9.543		
10,100.00	7,235.73	7,215.73	7,235.73	86.34	250.18	89.90	1,164.79	-2,164.39	3,176.36	2,844.42	331.94	9.569		
10,200.00	7,235.14	7,215.14	7,235.14	88.94	250.16	89.89	1,164.79	-2,164.39	3,204.92	2,871.30	333.62	9.607		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,214.54	7,234.54	91.56	250.14	89.88	1,164.79	-2,164.39	3,236.32	2,901.10	335.22	9.654		
10,400.00	7,233.94	7,213.94	7,233.94	94.19	250.12	89.87	1,164.79	-2,164.39	3,270.48	2,933.75	336.74	9.712		
10,500.00	7,233.35	7,213.35	7,233.35	96.84	250.09	89.86	1,164.79	-2,164.39	3,307.31	2,969.14	338.17	9.780		
10,600.00	7,232.75	7,212.75	7,232.75	99.50	250.07	89.85	1,164.79	-2,164.39	3,346.73	3,007.21	339.52	9.857		
10,700.00	7,232.16	7,212.16	7,232.16	102.17	250.05	89.84	1,164.79	-2,164.39	3,388.64	3,047.85	340.78	9.944		
10,800.00	7,231.56	7,211.56	7,231.56	104.85	250.03	89.83	1,164.79	-2,164.39	3,432.95	3,090.98	341.97	10.039		
10,900.00	7,230.96	7,210.96	7,230.96	107.53	250.01	89.81	1,164.79	-2,164.39	3,479.57	3,136.49	343.07	10.142		
11,000.00	7,230.37	7,210.37	7,230.37	110.23	249.99	89.80	1,164.79	-2,164.39	3,528.40	3,184.30	344.10	10.254		
11,100.00	7,229.77	7,209.77	7,229.77	112.93	249.97	89.79	1,164.79	-2,164.39	3,579.37	3,234.31	345.06	10.373		
11,200.00	7,229.18	7,209.18	7,229.18	115.65	249.95	89.78	1,164.79	-2,164.39	3,632.38	3,286.43	345.94	10.500		
11,300.00	7,228.58	7,208.58	7,228.58	118.37	249.93	89.77	1,164.79	-2,164.39	3,687.33	3,340.57	346.76	10.634		
11,400.00	7,227.99	7,207.99	7,227.99	121.09	249.91	89.76	1,164.79	-2,164.39	3,744.15	3,396.64	347.51	10.774		
11,500.00	7,227.39	7,207.39	7,227.39	123.82	249.89	89.75	1,164.79	-2,164.39	3,802.76	3,454.55	348.21	10.921		
11,600.00	7,226.79	7,206.79	7,226.79	126.56	249.87	89.74	1,164.79	-2,164.39	3,863.06	3,514.22	348.84	11.074		
11,700.00	7,226.20	7,206.20	7,226.20	129.30	249.84	89.73	1,164.79	-2,164.39	3,924.98	3,575.56	349.42	11.233		
11,800.00	7,225.60	7,205.60	7,225.60	132.05	249.82	89.71	1,164.79	-2,164.39	3,988.45	3,638.50	349.95	11.397		
11,900.00	7,225.01	7,205.01	7,225.01	134.80	249.80	89.70	1,164.79	-2,164.39	4,053.39	3,702.96	350.44	11.567		
12,000.00	7,224.41	7,204.41	7,224.41	137.56	249.78	89.69	1,164.79	-2,164.39	4,119.74	3,768.86	350.87	11.741		
12,100.00	7,223.81	7,203.81	7,223.81	140.32	249.76	89.68	1,164.79	-2,164.39	4,187.42	3,836.15	351.27	11.921		
12,200.00	7,223.22	7,203.22	7,223.22	143.08	249.74	89.67	1,164.79	-2,164.39	4,256.38	3,904.75	351.63	12.105		
12,300.00	7,222.62	7,202.62	7,222.62	145.85	249.72	89.66	1,164.79	-2,164.39	4,326.55	3,974.60	351.95	12.293		
12,400.00	7,222.03	7,202.03	7,222.03	148.62	249.70	89.65	1,164.79	-2,164.39	4,397.87	4,045.63	352.24	12.485		
12,500.00	7,221.43	7,201.43	7,221.43	151.40	249.68	89.64	1,164.79	-2,164.39	4,470.29	4,117.79	352.50	12.682		
12,600.00	7,220.83	7,200.83	7,220.83	154.18	249.66	89.62	1,164.79	-2,164.39	4,543.76	4,191.03	352.73	12.882		
12,700.00	7,220.24	7,200.24	7,220.24	156.96	249.64	89.61	1,164.79	-2,164.39	4,618.23	4,265.29	352.93	13.085		
12,800.00	7,219.64	7,200.36	7,219.64	159.74	249.64	89.60	1,164.79	-2,164.39	4,693.64	4,340.50	353.14	13.291		
12,900.00	7,219.05	7,200.95	7,219.05	162.53	249.66	89.59	1,164.79	-2,164.39	4,769.96	4,416.62	353.34	13.500		
13,000.00	7,218.45	7,201.55	7,218.45	165.32	249.68	89.58	1,164.79	-2,164.39	4,847.14	4,493.62	353.52	13.711		
13,100.00	7,217.86	7,202.14	7,217.86	168.11	249.70	89.57	1,164.79	-2,164.39	4,925.14	4,571.46	353.68	13.926		
13,200.00	7,217.26	7,202.74	7,217.26	170.90	249.72	89.56	1,164.79	-2,164.39	5,003.93	4,650.11	353.82	14.143		
13,300.00	7,216.66	7,203.34	7,216.66	173.70	249.75	89.55	1,164.79	-2,164.39	5,083.46	4,729.51	353.95	14.362		
13,400.00	7,216.07	7,203.93	7,216.07	176.49	249.77	89.54	1,164.79	-2,164.39	5,163.70	4,809.64	354.06	14.584		
13,500.00	7,215.47	7,204.53	7,215.47	179.29	249.79	89.52	1,164.79	-2,164.39	5,244.62	4,890.46	354.16	14.809		
13,600.00	7,214.88	7,205.12	7,214.88	182.09	249.81	89.51	1,164.79	-2,164.39	5,326.19	4,971.94	354.24	15.035		
13,700.00	7,214.28	7,205.72	7,214.28	184.90	249.83	89.50	1,164.79	-2,164.39	5,408.37	5,054.06	354.32	15.264		
13,800.00	7,213.68	7,206.32	7,213.68	187.70	249.85	89.49	1,164.79	-2,164.39	5,491.15	5,136.77	354.38	15.495		
13,900.00	7,213.09	7,206.91	7,213.09	190.51	249.87	89.48	1,164.79	-2,164.39	5,574.49	5,220.06	354.43	15.728		
14,000.00	7,212.49	7,207.51	7,212.49	193.32	249.89	89.47	1,164.79	-2,164.39	5,658.38	5,303.90	354.48	15.962		
14,100.00	7,211.90	7,208.10	7,211.90	196.13	249.91	89.46	1,164.79	-2,164.39	5,742.78	5,388.26	354.52	16.199		
14,200.00	7,211.30	7,208.70	7,211.30	198.94	249.93	89.45	1,164.79	-2,164.39	5,827.67	5,473.12	354.55	16.437		
14,300.00	7,210.71	7,209.30	7,210.71	201.75	249.95	89.43	1,164.79	-2,164.39	5,913.03	5,558.46	354.58	16.676		
14,400.00	7,210.11	7,209.89	7,210.11	204.56	249.97	89.42	1,164.79	-2,164.39	5,998.85	5,644.25	354.60	16.917		
14,500.00	7,209.51	7,209.51	7,209.51	207.38	249.26	89.41	1,164.79	-2,164.39	6,085.10	5,731.22	353.88	17.195		
14,600.00	7,208.92	7,208.92	7,208.92	210.19	249.24	89.40	1,164.79	-2,164.39	6,171.76	5,817.92	353.85	17.442		
14,700.00	7,208.32	7,208.32	7,208.32	213.01	249.22	89.39	1,164.79	-2,164.39	6,258.83	5,905.02	353.81	17.690		
14,800.00	7,207.73	7,207.73	7,207.73	215.83	249.20	89.38	1,164.79	-2,164.39	6,346.27	5,992.50	353.77	17.939		
14,900.00	7,207.13	7,207.13	7,207.13	218.65	249.18	89.37	1,164.79	-2,164.39	6,434.08	6,080.36	353.72	18.190		
15,000.00	7,206.53	7,206.53	7,206.53	221.47	249.16	89.36	1,164.79	-2,164.39	6,522.24	6,168.56	353.68	18.441		
15,100.00	7,205.94	7,205.94	7,205.94	224.29	249.14	89.35	1,164.79	-2,164.39	6,610.74	6,257.11	353.63	18.694		
15,200.00	7,205.34	7,205.34	7,205.34	227.11	249.12	89.33	1,164.79	-2,164.39	6,699.56	6,345.98	353.58	18.948		
15,258.04	7,205.00	7,205.00	7,205.00	228.75	249.10	89.33	1,164.79	-2,164.39	6,751.26	6,397.71	353.54	19.096		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	35.00	3.28	3.28	-93.80	-168.53	-2,534.43	2,540.27					
100.00	100.00	65.00	100.00	3.28	3.47	-93.80	-168.53	-2,534.43	2,540.03	2,533.28	6.76	376.000		
200.00	200.00	165.00	200.00	3.34	5.18	-93.80	-168.53	-2,534.43	2,540.03	2,531.51	8.52	298.083		
300.00	299.98	264.98	299.98	3.44	8.19	81.49	-168.53	-2,534.43	2,539.77	2,528.14	11.63	218.387		
400.00	399.84	364.84	399.84	3.59	11.47	81.62	-168.53	-2,534.43	2,539.00	2,523.94	15.06	168.611		
500.00	499.45	464.45	499.45	3.79	14.84	81.84	-168.53	-2,534.43	2,537.74	2,519.12	18.62	136.278		
600.00	598.70	563.70	598.70	4.03	18.23	82.14	-168.53	-2,534.43	2,536.03	2,513.77	22.26	113.928		
700.00	697.47	662.47	697.47	4.31	21.63	82.53	-168.53	-2,534.43	2,533.92	2,507.98	25.94	97.665		
800.00	795.62	760.62	795.62	4.64	25.02	83.00	-168.53	-2,534.43	2,531.47	2,501.81	29.66	85.346		
900.00	893.06	858.06	893.06	5.00	28.40	83.54	-168.53	-2,534.43	2,528.77	2,495.37	33.40	75.717		
1,000.00	989.65	954.65	989.65	5.40	31.75	84.16	-168.53	-2,534.43	2,525.90	2,488.76	37.15	68.001		
1,100.00	1,085.85	1,050.85	1,085.85	5.82	35.09	84.75	-168.53	-2,534.43	2,523.16	2,482.25	40.91	61.672		
1,200.00	1,182.06	1,147.06	1,182.06	6.27	38.44	85.35	-168.53	-2,534.43	2,520.72	2,476.02	44.70	56.389		
1,300.00	1,278.26	1,243.26	1,278.26	6.73	41.79	85.94	-168.53	-2,534.43	2,518.56	2,470.05	48.51	51.917		
1,400.00	1,374.47	1,339.47	1,374.47	7.20	45.13	86.54	-168.53	-2,534.43	2,516.71	2,464.37	52.33	48.089		
1,500.00	1,470.67	1,435.67	1,470.67	7.69	48.48	87.14	-168.53	-2,534.43	2,515.14	2,458.97	56.17	44.777		
1,600.00	1,566.88	1,531.88	1,566.88	8.18	51.84	87.73	-168.53	-2,534.43	2,513.87	2,453.86	60.02	41.887		
1,700.00	1,663.08	1,628.08	1,663.08	8.68	55.19	88.33	-168.53	-2,534.43	2,512.90	2,449.03	63.87	39.345		
1,800.00	1,759.29	1,724.29	1,759.29	9.19	58.54	88.93	-168.53	-2,534.43	2,512.22	2,444.49	67.73	37.093		
1,900.00	1,855.49	1,820.49	1,855.49	9.70	61.89	89.53	-168.53	-2,534.43	2,511.84	2,440.25	71.59	35.085		
1,978.61	1,931.12	1,903.88	1,931.12	10.10	64.80	90.00	-168.53	-2,534.43	2,511.75	2,436.84	74.91	33.532		
2,000.00	1,951.70	1,916.70	1,951.70	10.22	65.25	90.13	-168.53	-2,534.43	2,511.76	2,436.29	75.46	33.284		
2,100.00	2,047.90	2,012.90	2,047.90	10.73	68.60	90.73	-168.53	-2,534.43	2,511.97	2,432.63	79.34	31.661		
2,200.00	2,144.11	2,109.11	2,144.11	11.26	71.96	91.33	-168.53	-2,534.43	2,512.48	2,429.26	83.22	30.192		
2,300.00	2,240.31	2,205.31	2,240.31	11.78	75.31	91.92	-168.53	-2,534.43	2,513.28	2,426.18	87.10	28.856		
2,400.00	2,336.52	2,301.52	2,336.52	12.31	78.67	92.52	-168.53	-2,534.43	2,514.38	2,423.40	90.98	27.637		
2,500.00	2,432.72	2,402.28	2,432.72	12.84	82.18	93.12	-168.53	-2,534.43	2,515.77	2,420.75	95.02	26.476		
2,600.00	2,528.93	2,506.07	2,528.93	13.37	85.80	93.72	-168.53	-2,534.43	2,517.47	2,418.29	99.17	25.384		
2,700.00	2,625.13	2,609.87	2,625.13	13.91	89.43	94.31	-168.53	-2,534.43	2,519.45	2,416.12	103.33	24.383		
2,800.00	2,721.34	2,686.34	2,721.34	14.44	92.09	94.91	-168.53	-2,534.43	2,521.73	2,415.20	106.53	23.672		
2,900.00	2,817.54	2,782.54	2,817.54	14.98	95.45	95.50	-168.53	-2,534.43	2,524.30	2,413.88	110.42	22.861		
3,000.00	2,913.75	2,878.75	2,913.75	15.52	98.81	96.09	-168.53	-2,534.43	2,527.16	2,412.86	114.31	22.108		
3,100.00	3,009.95	2,974.95	3,009.95	16.06	102.16	96.68	-168.53	-2,534.43	2,530.32	2,412.12	118.20	21.407		
3,200.00	3,106.16	3,071.16	3,106.16	16.60	105.52	97.27	-168.53	-2,534.43	2,533.76	2,411.67	122.09	20.753		
3,300.00	3,202.37	3,167.37	3,202.37	17.14	108.88	97.86	-168.53	-2,534.43	2,537.50	2,411.51	125.98	20.142		
3,400.00	3,298.57	3,263.57	3,298.57	17.68	112.23	98.45	-168.53	-2,534.43	2,541.52	2,411.64	129.87	19.569		
3,500.00	3,394.78	3,359.78	3,394.78	18.22	115.59	99.03	-168.53	-2,534.43	2,545.82	2,412.06	133.77	19.032		
3,600.00	3,490.98	3,455.98	3,490.98	18.76	118.95	99.62	-168.53	-2,534.43	2,550.42	2,412.76	137.66	18.527		
3,700.00	3,587.19	3,552.19	3,587.19	19.31	122.31	100.20	-168.53	-2,534.43	2,555.29	2,413.74	141.55	18.052		
3,800.00	3,683.39	3,648.39	3,683.39	19.85	125.66	100.78	-168.53	-2,534.43	2,560.45	2,415.01	145.44	17.605		
3,900.00	3,779.60	3,744.60	3,779.60	20.39	129.02	101.35	-168.53	-2,534.43	2,565.88	2,416.55	149.33	17.182		
4,000.00	3,875.80	3,840.80	3,875.80	20.94	132.38	101.93	-168.53	-2,534.43	2,571.60	2,418.37	153.22	16.783		
4,100.00	3,972.01	3,937.01	3,972.01	21.48	135.74	102.50	-168.53	-2,534.43	2,577.59	2,420.47	157.11	16.406		
4,200.00	4,068.21	4,033.21	4,068.21	22.03	139.09	103.07	-168.53	-2,534.43	2,583.85	2,422.85	161.00	16.048		
4,300.00	4,164.42	4,129.42	4,164.42	22.57	142.45	103.64	-168.53	-2,534.43	2,590.39	2,425.50	164.89	15.710		
4,400.00	4,260.62	4,225.62	4,260.62	23.12	145.81	104.20	-168.53	-2,534.43	2,597.20	2,428.42	168.78	15.388		
4,500.00	4,356.83	4,321.83	4,356.83	23.67	149.17	104.76	-168.53	-2,534.43	2,604.27	2,431.60	172.67	15.082		
4,600.00	4,453.03	4,418.03	4,453.03	24.21	152.52	105.32	-168.53	-2,534.43	2,611.61	2,435.06	176.56	14.792		
4,700.00	4,549.24	4,514.24	4,549.24	24.76	155.88	105.88	-168.53	-2,534.43	2,619.22	2,438.78	180.44	14.516		
4,800.00	4,645.44	4,610.44	4,645.44	25.31	159.24	106.43	-168.53	-2,534.43	2,627.08	2,442.76	184.33	14.252		
4,900.00	4,741.65	4,706.65	4,741.65	25.86	162.60	106.98	-168.53	-2,534.43	2,635.21	2,447.00	188.21	14.001		
5,000.00	4,837.85	4,802.85	4,837.85	26.40	165.95	107.52	-168.53	-2,534.43	2,643.59	2,451.50	192.10	13.762		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	4,900.94	4,934.06	26.95	169.38	108.07	-168.53	-2,534.43	2,652.23	2,456.18	196.04	13.529		
5,200.00	5,030.26	5,004.74	5,030.26	27.50	173.00	108.61	-168.53	-2,534.43	2,661.12	2,460.93	200.19	13.293		
5,300.00	5,126.47	5,108.53	5,126.47	28.05	176.62	109.14	-168.53	-2,534.43	2,670.25	2,465.92	204.34	13.068		
5,400.00	5,222.67	5,187.67	5,222.67	28.60	179.39	109.68	-168.53	-2,534.43	2,679.64	2,472.02	207.62	12.906		
5,500.00	5,318.88	5,283.88	5,318.88	29.15	182.74	110.21	-168.53	-2,534.43	2,689.27	2,477.77	211.50	12.715		
5,600.00	5,415.08	5,380.08	5,415.08	29.70	186.10	110.73	-168.53	-2,534.43	2,699.14	2,483.76	215.38	12.532		
5,700.00	5,511.29	5,476.29	5,511.29	30.25	189.46	111.25	-168.53	-2,534.43	2,709.25	2,489.99	219.26	12.357		
5,800.00	5,607.49	5,572.49	5,607.49	30.79	192.82	111.77	-168.53	-2,534.43	2,719.59	2,496.46	223.13	12.188		
5,900.00	5,703.70	5,668.70	5,703.70	31.34	196.18	112.29	-168.53	-2,534.43	2,730.17	2,503.16	227.01	12.027		
6,000.00	5,799.90	5,764.90	5,799.90	31.89	199.53	112.80	-168.53	-2,534.43	2,740.98	2,510.10	230.88	11.872		
6,100.00	5,896.11	5,861.11	5,896.11	32.44	202.89	113.30	-168.53	-2,534.43	2,752.02	2,517.26	234.75	11.723		
6,200.00	5,992.32	5,957.32	5,992.32	32.99	206.25	113.81	-168.53	-2,534.43	2,763.28	2,524.65	238.63	11.580		
6,300.00	6,088.52	6,053.52	6,088.52	33.54	209.61	114.31	-168.53	-2,534.43	2,774.76	2,532.27	242.50	11.442		
6,400.00	6,184.73	6,149.73	6,184.73	34.09	212.97	114.80	-168.53	-2,534.43	2,786.47	2,540.10	246.37	11.310		
6,500.00	6,280.93	6,245.93	6,280.93	34.64	216.33	115.29	-168.53	-2,534.43	2,798.39	2,548.15	250.24	11.183		
6,600.00	6,377.14	6,342.14	6,377.14	35.19	219.68	115.78	-168.53	-2,534.43	2,810.53	2,556.42	254.11	11.060		
6,700.00	6,473.34	6,438.34	6,473.34	35.74	223.04	116.26	-168.53	-2,534.43	2,822.88	2,564.90	257.97	10.943		
6,800.00	6,569.55	6,534.55	6,569.55	36.29	226.40	116.74	-168.53	-2,534.43	2,835.43	2,573.59	261.84	10.829		
6,900.00	6,665.75	6,630.75	6,665.75	36.84	229.76	117.24	-168.53	-2,534.43	2,848.05	2,582.35	265.70	10.719		
7,000.00	6,761.11	6,726.11	6,761.11	37.39	233.09	117.74	-168.53	-2,534.43	2,860.74	2,591.26	269.54	10.583		
7,100.00	6,857.41	6,822.41	6,857.41	37.89	236.31	118.24	-168.53	-2,534.43	2,873.50	2,600.32	273.37	10.409		
7,200.00	6,953.71	6,905.36	6,953.71	38.34	239.34	118.74	-168.53	-2,534.43	2,886.32	2,609.44	277.18	10.203		
7,300.00	7,050.01	6,984.83	7,050.01	38.74	242.12	119.24	-168.53	-2,534.43	2,899.19	2,618.63	281.00	9.973		
7,400.00	7,089.85	7,054.85	7,089.85	39.10	244.56	119.74	-168.53	-2,534.43	2,912.11	2,627.87	284.82	9.722		
7,500.00	7,148.71	7,113.71	7,148.71	39.42	246.62	120.24	-168.53	-2,534.43	2,925.08	2,637.16	288.63	9.458		
7,600.00	7,194.95	7,159.95	7,194.95	39.71	248.23	120.74	-168.53	-2,534.43	2,938.08	2,646.50	292.44	9.185		
7,700.00	7,227.43	7,207.57	7,227.43	40.01	249.89	121.24	-168.53	-2,534.43	2,950.97	2,655.89	296.25	8.893		
7,800.00	7,245.37	7,210.37	7,245.37	40.37	249.99	121.74	-168.53	-2,534.43	2,963.92	2,665.32	300.06	8.635		
7,900.00	7,248.84	7,213.84	7,248.84	40.87	250.11	122.24	-168.53	-2,534.43	2,976.81	2,674.79	303.87	8.368		
8,000.00	7,248.24	7,213.24	7,248.24	41.62	250.09	122.74	-168.53	-2,534.43	2,989.75	2,684.21	307.68	8.107		
8,100.00	7,247.65	7,212.65	7,247.65	42.66	250.07	123.24	-168.53	-2,534.43	2,997.67	2,693.68	311.49	7.850		
8,200.00	7,247.05	7,212.05	7,247.05	43.96	250.05	123.74	-168.53	-2,534.43	2,999.94	2,699.13	315.30	7.600		
8,300.00	7,246.46	7,211.46	7,246.46	45.46	250.03	124.24	-168.53	-2,534.43	2,997.88	2,697.78	319.11	7.356		
8,400.00	7,245.86	7,210.86	7,245.86	47.13	250.01	124.74	-168.53	-2,534.43	2,991.74	2,691.17	322.92	7.120		
8,500.00	7,245.27	7,210.27	7,245.27	48.93	249.99	125.24	-168.53	-2,534.43	2,981.76	2,681.55	326.73	6.893		
8,600.00	7,244.67	7,209.67	7,244.67	50.84	249.97	125.74	-168.53	-2,534.43	2,968.22	2,670.18	330.03	6.677		
8,700.00	7,244.07	7,209.07	7,244.07	52.85	249.95	126.24	-168.53	-2,534.43	2,950.38	2,652.37	333.84	6.471		
8,800.00	7,243.48	7,208.48	7,243.48	54.94	249.92	126.74	-168.53	-2,534.43	2,928.53	2,630.40	337.65	6.279		
8,900.00	7,242.88	7,207.88	7,242.88	57.10	249.90	127.24	-168.53	-2,534.43	2,892.97	2,605.58	341.46	6.100		
9,000.00	7,242.29	7,207.29	7,242.29	59.32	249.88	127.74	-168.53	-2,534.43	2,843.96	2,574.22	345.27	5.937		
9,100.00	7,241.69	7,206.69	7,241.69	61.60	249.86	128.24	-168.53	-2,534.43	2,781.79	2,540.63	349.08	5.791		
9,200.00	7,241.09	7,206.09	7,241.09	63.92	249.84	128.74	-168.53	-2,534.43	2,707.72	2,496.10	352.89	5.662		
9,300.00	7,240.50	7,205.50	7,240.50	66.29	249.82	129.24	-168.53	-2,534.43	2,622.96	2,448.88	356.70	5.552		
9,400.00	7,239.90	7,204.90	7,239.90	68.70	249.80	129.74	-168.53	-2,534.43	2,529.71	2,391.21	360.51	5.462		
9,500.00	7,239.31	7,204.31	7,239.31	71.14	249.78	130.24	-168.53	-2,534.43	2,428.12	2,330.83	364.32	5.393		
9,600.00	7,238.71	7,203.71	7,238.71	73.61	249.76	130.74	-168.53	-2,534.43	2,313.27	2,253.05	368.13	5.344		
9,616.45	7,238.61	7,203.61	7,238.61	74.03	249.75	130.00	-168.53	-2,534.43	2,126.19	2,102.79	371.94	5.338 CC, ES		
9,700.00	7,238.11	7,203.11	7,238.11	76.11	249.74	129.98	-168.53	-2,534.43	2,028.22	2,103.10	375.75	5.316		
9,800.00	7,237.52	7,202.52	7,237.52	78.64	249.72	129.96	-168.53	-2,534.43	2,035.93	2,108.92	379.56	5.308 SF		
9,900.00	7,236.92	7,201.92	7,236.92	81.19	249.70	129.94	-168.53	-2,534.43	2,043.33	2,114.63	383.37	5.322		
10,000.00	7,236.33	7,201.33	7,236.33	83.75	249.67	129.92	-168.53	-2,534.43	2,050.29	2,120.11	387.18	5.355		
10,100.00	7,235.73	7,200.73	7,235.73	86.34	249.65	129.90	-168.53	-2,534.43	2,056.64	2,125.19	391.00	5.408		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,200.00	7,235.14	7,200.14	7,235.14	88.94	249.63	89.88	-168.53	-2,534.43	1,822.16	1,489.66	332.50	5.480		
10,300.00	7,234.54	7,200.46	7,234.54	91.56	249.64	89.86	-168.53	-2,534.43	1,856.60	1,523.22	333.38	5.569		
10,400.00	7,233.94	7,201.06	7,233.94	94.19	249.67	89.85	-168.53	-2,534.43	1,895.70	1,561.62	334.08	5.674		
10,500.00	7,233.35	7,201.65	7,233.35	96.84	249.69	89.83	-168.53	-2,534.43	1,939.17	1,604.57	334.60	5.795		
10,600.00	7,232.75	7,202.25	7,232.75	99.50	249.71	89.81	-168.53	-2,534.43	1,986.73	1,651.77	334.96	5.931		
10,700.00	7,232.16	7,202.84	7,232.16	102.17	249.73	89.79	-168.53	-2,534.43	2,038.08	1,702.90	335.18	6.081		
10,800.00	7,231.56	7,203.44	7,231.56	104.85	249.75	89.77	-168.53	-2,534.43	2,092.96	1,757.68	335.28	6.242		
10,900.00	7,230.96	7,204.04	7,230.96	107.53	249.77	89.75	-168.53	-2,534.43	2,151.09	1,815.82	335.27	6.416		
11,000.00	7,230.37	7,204.63	7,230.37	110.23	249.79	89.73	-168.53	-2,534.43	2,212.21	1,877.04	335.17	6.600		
11,100.00	7,229.77	7,205.23	7,229.77	112.93	249.81	89.71	-168.53	-2,534.43	2,276.09	1,941.09	335.00	6.794		
11,200.00	7,229.18	7,205.82	7,229.18	115.65	249.83	89.69	-168.53	-2,534.43	2,342.50	2,007.73	334.77	6.997		
11,300.00	7,228.58	7,206.42	7,228.58	118.37	249.85	89.67	-168.53	-2,534.43	2,411.22	2,076.73	334.49	7.209		
11,400.00	7,227.99	7,207.02	7,227.99	121.09	249.87	89.65	-168.53	-2,534.43	2,482.07	2,147.90	334.17	7.428		
11,500.00	7,227.39	7,207.61	7,227.39	123.82	249.89	89.63	-168.53	-2,534.43	2,554.87	2,221.05	333.82	7.653		
11,600.00	7,226.79	7,208.21	7,226.79	126.56	249.92	89.61	-168.53	-2,534.43	2,629.46	2,296.01	333.45	7.886		
11,700.00	7,226.20	7,208.80	7,226.20	129.30	249.94	89.59	-168.53	-2,534.43	2,705.69	2,372.63	333.07	8.124		
11,800.00	7,225.60	7,209.40	7,225.60	132.05	249.96	89.57	-168.53	-2,534.43	2,783.43	2,450.76	332.67	8.367		
11,900.00	7,225.01	7,209.99	7,225.01	134.80	249.98	89.55	-168.53	-2,534.43	2,862.54	2,530.27	332.27	8.615		
12,000.00	7,224.41	7,189.41	7,224.41	137.56	249.26	89.53	-168.53	-2,534.43	2,942.93	2,611.80	331.13	8.888		
12,100.00	7,223.81	7,188.81	7,223.81	140.32	249.24	89.51	-168.53	-2,534.43	3,024.49	2,693.81	330.69	9.146		
12,200.00	7,223.22	7,188.22	7,223.22	143.08	249.22	89.49	-168.53	-2,534.43	3,107.13	2,776.88	330.24	9.409		
12,300.00	7,222.62	7,187.62	7,222.62	145.85	249.20	89.47	-168.53	-2,534.43	3,190.76	2,860.95	329.81	9.675		
12,400.00	7,222.03	7,187.03	7,222.03	148.62	249.18	89.45	-168.53	-2,534.43	3,275.30	2,945.92	329.38	9.944		
12,500.00	7,221.43	7,186.43	7,221.43	151.40	249.15	89.43	-168.53	-2,534.43	3,360.70	3,031.74	328.96	10.216		
12,600.00	7,220.83	7,185.83	7,220.83	154.18	249.13	89.41	-168.53	-2,534.43	3,446.88	3,118.33	328.55	10.491		
12,700.00	7,220.24	7,185.24	7,220.24	156.96	249.11	89.39	-168.53	-2,534.43	3,533.79	3,205.65	328.15	10.769		
12,800.00	7,219.64	7,184.64	7,219.64	159.74	249.09	89.37	-168.53	-2,534.43	3,621.38	3,293.62	327.75	11.049		
12,900.00	7,219.05	7,184.05	7,219.05	162.53	249.07	89.35	-168.53	-2,534.43	3,709.59	3,382.22	327.37	11.331		
13,000.00	7,218.45	7,183.45	7,218.45	165.32	249.05	89.33	-168.53	-2,534.43	3,798.39	3,471.39	327.00	11.616		
13,100.00	7,217.86	7,182.86	7,217.86	168.11	249.03	89.31	-168.53	-2,534.43	3,887.73	3,561.09	326.64	11.902		
13,200.00	7,217.26	7,182.26	7,217.26	170.90	249.01	89.29	-168.53	-2,534.43	3,977.58	3,651.29	326.29	12.190		
13,300.00	7,216.66	7,181.66	7,216.66	173.70	248.99	89.27	-168.53	-2,534.43	4,067.90	3,741.95	325.95	12.480		
13,400.00	7,216.07	7,181.07	7,216.07	176.49	248.97	89.25	-168.53	-2,534.43	4,158.66	3,833.04	325.62	12.771		
13,500.00	7,215.47	7,180.47	7,215.47	179.29	248.95	89.23	-168.53	-2,534.43	4,249.84	3,924.54	325.30	13.064		
13,600.00	7,214.88	7,179.88	7,214.88	182.09	248.93	89.21	-168.53	-2,534.43	4,341.41	4,016.42	324.99	13.358		
13,700.00	7,214.28	7,179.28	7,214.28	184.90	248.91	89.19	-168.53	-2,534.43	4,433.34	4,108.65	324.70	13.654		
13,800.00	7,213.68	7,178.68	7,213.68	187.70	248.88	89.17	-168.53	-2,534.43	4,525.62	4,201.21	324.41	13.950		
13,900.00	7,213.09	7,178.09	7,213.09	190.51	248.86	89.15	-168.53	-2,534.43	4,618.21	4,294.09	324.13	14.248		
14,000.00	7,212.49	7,177.49	7,212.49	193.32	248.84	89.13	-168.53	-2,534.43	4,711.11	4,387.26	323.86	14.547		
14,100.00	7,211.90	7,176.90	7,211.90	196.13	248.82	89.11	-168.53	-2,534.43	4,804.29	4,480.70	323.59	14.847		
14,200.00	7,211.30	7,176.30	7,211.30	198.94	248.80	89.09	-168.53	-2,534.43	4,897.75	4,574.41	323.34	15.147		
14,300.00	7,210.71	7,175.71	7,210.71	201.75	248.78	89.07	-168.53	-2,534.43	4,991.45	4,668.36	323.10	15.449		
14,400.00	7,210.11	7,175.11	7,210.11	204.56	248.76	89.05	-168.53	-2,534.43	5,085.40	4,762.54	322.86	15.751		
14,500.00	7,209.51	7,174.51	7,209.51	207.38	248.74	89.03	-168.53	-2,534.43	5,179.57	4,856.94	322.63	16.054		
14,600.00	7,208.92	7,173.92	7,208.92	210.19	248.72	89.01	-168.53	-2,534.43	5,273.96	4,951.55	322.41	16.358		
14,700.00	7,208.32	7,173.32	7,208.32	213.01	248.70	88.99	-168.53	-2,534.43	5,368.55	5,046.35	322.20	16.662		
14,800.00	7,207.73	7,172.73	7,207.73	215.83	248.68	88.97	-168.53	-2,534.43	5,463.33	5,141.34	321.99	16.967		
14,900.00	7,207.13	7,172.13	7,207.13	218.65	248.66	88.96	-168.53	-2,534.43	5,558.30	5,236.50	321.79	17.273		
15,000.00	7,206.53	7,171.53	7,206.53	221.47	248.63	88.94	-168.53	-2,534.43	5,653.43	5,331.83	321.60	17.579		
15,100.00	7,205.94	7,170.94	7,205.94	224.29	248.61	88.92	-168.53	-2,534.43	5,748.74	5,427.32	321.41	17.886		
15,200.00	7,205.34	7,170.34	7,205.34	227.11	248.59	88.90	-168.53	-2,534.43	5,844.20	5,522.96	321.23	18.193		
15,258.04	7,205.00	7,170.00	7,205.00	228.75	248.58	88.88	-168.53	-2,534.43	5,899.68	5,578.54	321.13	18.371		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	46.00	3.28	3.28	-105.58	-1,337.61	-4,795.96	4,979.21				
100.00	100.00	54.00	100.00	3.28	3.41	-105.58	-1,337.61	-4,795.96	4,979.00	4,972.30	6.70	743.415	
200.00	200.00	154.00	200.00	3.34	4.89	-105.58	-1,337.61	-4,795.96	4,979.00	4,970.77	8.23	604.991	
300.00	299.98	253.98	299.98	3.44	7.84	69.69	-1,337.61	-4,795.96	4,978.39	4,967.12	11.28	441.370	
400.00	399.84	353.84	399.84	3.59	11.10	69.78	-1,337.61	-4,795.96	4,976.58	4,961.89	14.69	338.743	
500.00	499.45	453.45	499.45	3.79	14.46	69.93	-1,337.61	-4,795.96	4,973.57	4,955.32	18.25	272.551	
600.00	598.70	552.70	598.70	4.03	17.85	70.14	-1,337.61	-4,795.96	4,969.38	4,947.50	21.88	227.091	
700.00	697.47	651.47	697.47	4.31	21.25	70.41	-1,337.61	-4,795.96	4,964.04	4,938.48	25.57	194.172	
800.00	795.62	749.62	795.62	4.64	24.64	70.74	-1,337.61	-4,795.96	4,957.59	4,928.31	29.28	169.325	
900.00	893.06	847.06	893.06	5.00	28.02	71.12	-1,337.61	-4,795.96	4,950.07	4,917.06	33.01	149.950	
1,000.00	989.65	943.65	989.65	5.40	31.37	71.54	-1,337.61	-4,795.96	4,941.53	4,904.77	36.76	134.443	
1,100.00	1,085.85	1,039.85	1,085.85	5.82	34.71	71.83	-1,337.61	-4,795.96	4,932.65	4,892.14	40.52	121.745	
1,200.00	1,182.06	1,136.06	1,182.06	6.27	38.06	72.13	-1,337.61	-4,795.96	4,923.91	4,879.61	44.30	111.149	
1,300.00	1,278.26	1,232.26	1,278.26	6.73	41.40	72.42	-1,337.61	-4,795.96	4,915.31	4,867.21	48.10	102.184	
1,400.00	1,374.47	1,328.47	1,374.47	7.20	44.75	72.71	-1,337.61	-4,795.96	4,906.84	4,854.92	51.92	94.508	
1,500.00	1,470.67	1,424.67	1,470.67	7.69	48.10	73.01	-1,337.61	-4,795.96	4,898.51	4,842.76	55.75	87.867	
1,600.00	1,566.88	1,520.88	1,566.88	8.18	51.45	73.30	-1,337.61	-4,795.96	4,890.32	4,830.73	59.59	82.068	
1,700.00	1,663.08	1,617.08	1,663.08	8.68	54.81	73.60	-1,337.61	-4,795.96	4,882.27	4,818.83	63.44	76.962	
1,800.00	1,759.29	1,713.29	1,759.29	9.19	58.16	73.89	-1,337.61	-4,795.96	4,874.35	4,807.06	67.29	72.436	
1,900.00	1,855.49	1,809.49	1,855.49	9.70	61.51	74.19	-1,337.61	-4,795.96	4,866.58	4,795.42	71.15	68.395	
2,000.00	1,951.70	1,905.70	1,951.70	10.22	64.87	74.49	-1,337.61	-4,795.96	4,858.95	4,783.93	75.02	64.769	
2,100.00	2,047.90	2,001.90	2,047.90	10.73	68.22	74.79	-1,337.61	-4,795.96	4,851.45	4,772.56	78.89	61.496	
2,200.00	2,144.11	2,101.89	2,144.11	11.26	71.71	75.09	-1,337.61	-4,795.96	4,844.10	4,761.21	82.90	58.434	
2,300.00	2,240.31	2,205.69	2,240.31	11.78	75.33	75.39	-1,337.61	-4,795.96	4,836.90	4,749.86	87.04	55.570	
2,400.00	2,336.52	2,309.48	2,336.52	12.31	78.95	75.69	-1,337.61	-4,795.96	4,829.83	4,738.65	91.19	52.966	
2,500.00	2,432.72	2,386.72	2,432.72	12.84	81.64	76.00	-1,337.61	-4,795.96	4,822.91	4,728.50	94.41	51.085	
2,600.00	2,528.93	2,482.93	2,528.93	13.37	85.00	76.30	-1,337.61	-4,795.96	4,816.14	4,717.84	98.30	48.996	
2,700.00	2,625.13	2,579.13	2,625.13	13.91	88.35	76.61	-1,337.61	-4,795.96	4,809.51	4,707.33	102.19	47.066	
2,800.00	2,721.34	2,675.34	2,721.34	14.44	91.71	76.91	-1,337.61	-4,795.96	4,803.03	4,696.95	106.08	45.279	
2,900.00	2,817.54	2,771.54	2,817.54	14.98	95.07	77.22	-1,337.61	-4,795.96	4,796.69	4,686.72	109.97	43.619	
3,000.00	2,913.75	2,867.75	2,913.75	15.52	98.42	77.52	-1,337.61	-4,795.96	4,790.50	4,676.64	113.86	42.073	
3,100.00	3,009.95	2,963.95	3,009.95	16.06	101.78	77.83	-1,337.61	-4,795.96	4,784.46	4,666.70	117.76	40.629	
3,200.00	3,106.16	3,060.16	3,106.16	16.60	105.14	78.14	-1,337.61	-4,795.96	4,778.56	4,656.91	121.66	39.280	
3,300.00	3,202.37	3,156.37	3,202.37	17.14	108.49	78.45	-1,337.61	-4,795.96	4,772.82	4,647.26	125.55	38.014	
3,400.00	3,298.57	3,252.57	3,298.57	17.68	111.85	78.76	-1,337.61	-4,795.96	4,767.22	4,637.77	129.45	36.826	
3,500.00	3,394.78	3,348.78	3,394.78	18.22	115.21	79.07	-1,337.61	-4,795.96	4,761.78	4,628.42	133.35	35.708	
3,600.00	3,490.98	3,444.98	3,490.98	18.76	118.56	79.38	-1,337.61	-4,795.96	4,756.48	4,619.23	137.25	34.655	
3,700.00	3,587.19	3,541.19	3,587.19	19.31	121.92	79.69	-1,337.61	-4,795.96	4,751.33	4,610.18	141.16	33.660	
3,800.00	3,683.39	3,637.39	3,683.39	19.85	125.28	80.00	-1,337.61	-4,795.96	4,746.34	4,601.28	145.06	32.720	
3,900.00	3,779.60	3,733.60	3,779.60	20.39	128.64	80.31	-1,337.61	-4,795.96	4,741.50	4,592.54	148.96	31.830	
4,000.00	3,875.80	3,829.80	3,875.80	20.94	131.99	80.63	-1,337.61	-4,795.96	4,736.81	4,583.94	152.87	30.987	
4,100.00	3,972.01	3,926.01	3,972.01	21.48	135.35	80.94	-1,337.61	-4,795.96	4,732.27	4,575.50	156.77	30.186	
4,200.00	4,068.21	4,022.21	4,068.21	22.03	138.71	81.26	-1,337.61	-4,795.96	4,727.89	4,567.21	160.68	29.425	
4,300.00	4,164.42	4,118.42	4,164.42	22.57	142.07	81.57	-1,337.61	-4,795.96	4,723.66	4,559.07	164.58	28.701	
4,400.00	4,260.62	4,214.62	4,260.62	23.12	145.42	81.89	-1,337.61	-4,795.96	4,719.58	4,551.09	168.49	28.011	
4,500.00	4,356.83	4,310.83	4,356.83	23.67	148.78	82.20	-1,337.61	-4,795.96	4,715.66	4,543.26	172.40	27.354	
4,600.00	4,453.03	4,407.03	4,453.03	24.21	152.14	82.52	-1,337.61	-4,795.96	4,711.89	4,535.59	176.30	26.726	
4,700.00	4,549.24	4,503.24	4,549.24	24.76	155.50	82.84	-1,337.61	-4,795.96	4,708.28	4,528.07	180.21	26.126	
4,800.00	4,645.44	4,600.56	4,645.44	25.31	158.89	83.15	-1,337.61	-4,795.96	4,704.82	4,520.66	184.16	25.548	
4,900.00	4,741.65	4,704.35	4,741.65	25.86	162.52	83.47	-1,337.61	-4,795.96	4,701.52	4,513.19	188.33	24.964	
5,000.00	4,837.85	4,808.15	4,837.85	26.40	166.14	83.79	-1,337.61	-4,795.96	4,698.37	4,505.87	192.50	24.407	
5,100.00	4,934.06	4,888.06	4,934.06	26.95	169.93	84.11	-1,337.61	-4,795.96	4,695.39	4,499.54	195.84	23.975	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,030.26	4,984.26	5,030.26	27.50	172.29	84.43	-1,337.61	-4,795.96	4,692.55	4,492.80	199.75	23.492		
5,300.00	5,126.47	5,080.47	5,126.47	28.05	175.64	84.75	-1,337.61	-4,795.96	4,689.88	4,486.22	203.66	23.028		
5,400.00	5,222.67	5,176.67	5,222.67	28.60	179.00	85.07	-1,337.61	-4,795.96	4,687.36	4,479.79	207.57	22.582		
5,500.00	5,318.88	5,272.88	5,318.88	29.15	182.36	85.39	-1,337.61	-4,795.96	4,685.00	4,473.52	211.48	22.153		
5,600.00	5,415.08	5,369.08	5,415.08	29.70	185.72	85.71	-1,337.61	-4,795.96	4,682.80	4,467.41	215.39	21.741		
5,700.00	5,511.29	5,465.29	5,511.29	30.25	189.08	86.03	-1,337.61	-4,795.96	4,680.76	4,461.45	219.30	21.344		
5,800.00	5,607.49	5,561.49	5,607.49	30.79	192.43	86.35	-1,337.61	-4,795.96	4,678.87	4,455.66	223.21	20.962		
5,900.00	5,703.70	5,657.70	5,703.70	31.34	195.79	86.67	-1,337.61	-4,795.96	4,677.14	4,450.02	227.12	20.593		
6,000.00	5,799.90	5,753.90	5,799.90	31.89	199.15	86.99	-1,337.61	-4,795.96	4,675.57	4,444.54	231.03	20.238		
6,100.00	5,896.11	5,850.11	5,896.11	32.44	202.51	87.31	-1,337.61	-4,795.96	4,674.16	4,439.22	234.94	19.895		
6,200.00	5,992.32	5,946.32	5,992.32	32.99	205.87	87.63	-1,337.61	-4,795.96	4,672.91	4,434.06	238.85	19.564		
6,300.00	6,088.52	6,042.52	6,088.52	33.54	209.23	87.95	-1,337.61	-4,795.96	4,671.82	4,429.06	242.76	19.245		
6,400.00	6,184.73	6,138.73	6,184.73	34.09	212.58	88.28	-1,337.61	-4,795.96	4,670.89	4,424.22	246.67	18.936		
6,500.00	6,280.93	6,234.93	6,280.93	34.64	215.94	88.60	-1,337.61	-4,795.96	4,670.12	4,419.54	250.58	18.637		
6,600.00	6,377.14	6,331.14	6,377.14	35.19	219.30	88.92	-1,337.61	-4,795.96	4,669.50	4,415.01	254.49	18.348		
6,700.00	6,473.34	6,427.34	6,473.34	35.74	222.66	89.24	-1,337.61	-4,795.96	4,669.05	4,410.65	258.40	18.069		
6,800.00	6,569.55	6,523.55	6,569.55	36.29	226.02	89.56	-1,337.61	-4,795.96	4,668.75	4,406.44	262.31	17.799		
6,900.00	6,665.75	6,619.75	6,665.75	36.84	229.37	89.84	-1,337.61	-4,795.96	4,668.44	4,402.23	266.22	17.536		
7,000.00	6,761.11	6,715.11	6,761.11	37.39	232.70	89.95	-1,337.61	-4,795.96	4,668.35	4,398.26	270.09	17.248		
7,100.00	6,853.41	6,807.41	6,853.41	37.89	235.92	90.00	-1,337.61	-4,795.96	4,668.07	4,394.26	273.81	16.921		
7,200.00	6,940.36	6,905.64	6,940.36	38.34	239.35	90.00	-1,337.61	-4,795.96	4,667.89	4,390.26	277.69	16.641		
7,300.00	7,019.83	6,973.83	7,019.83	38.74	241.73	90.00	-1,337.61	-4,795.96	4,667.81	4,386.26	281.57	16.361		
7,400.00	7,089.85	7,043.85	7,089.85	39.10	244.18	90.00	-1,337.61	-4,795.96	4,667.81	4,382.26	285.45	16.081		
7,500.00	7,148.71	7,102.71	7,148.71	39.42	246.23	90.00	-1,337.61	-4,795.96	4,667.81	4,378.26	289.33	15.801		
7,600.00	7,194.95	7,148.95	7,194.95	39.71	247.85	90.00	-1,337.61	-4,795.96	4,667.81	4,374.26	293.21	15.521		
7,700.00	7,227.43	7,181.43	7,227.43	40.01	248.98	90.00	-1,337.61	-4,795.96	4,667.81	4,370.26	297.09	15.241		
7,800.00	7,245.37	7,200.63	7,245.37	40.37	249.65	90.00	-1,337.61	-4,795.96	4,667.81	4,366.26	300.97	14.961		
7,900.00	7,248.84	7,202.84	7,248.84	40.87	249.73	90.00	-1,337.61	-4,795.96	4,667.81	4,362.26	304.85	14.681		
8,000.00	7,248.24	7,202.24	7,248.24	41.62	249.71	90.00	-1,337.61	-4,795.96	4,667.81	4,358.26	308.73	14.401		
8,100.00	7,247.65	7,201.65	7,247.65	42.66	249.69	90.00	-1,337.61	-4,795.96	4,667.81	4,354.26	312.61	14.121		
8,200.00	7,247.05	7,201.05	7,247.05	43.96	249.67	90.00	-1,337.61	-4,795.96	4,667.81	4,350.26	316.49	13.841		
8,300.00	7,246.46	7,200.46	7,246.46	45.46	249.64	90.00	-1,337.61	-4,795.96	4,667.81	4,346.26	320.37	13.561		
8,400.00	7,245.86	7,200.14	7,245.86	47.13	249.63	90.00	-1,337.61	-4,795.96	4,667.81	4,342.26	324.25	13.281		
8,500.00	7,245.27	7,200.74	7,245.27	48.93	249.65	90.00	-1,337.61	-4,795.96	4,667.81	4,338.26	328.13	13.001		
8,600.00	7,244.67	7,201.33	7,244.67	50.84	249.68	90.00	-1,337.61	-4,795.96	4,667.81	4,334.26	332.01	12.721		
8,700.00	7,244.07	7,201.93	7,244.07	52.85	249.70	90.00	-1,337.61	-4,795.96	4,667.81	4,330.26	335.89	12.441		
8,800.00	7,243.48	7,202.52	7,243.48	54.94	249.72	90.00	-1,337.61	-4,795.96	4,667.81	4,326.26	339.77	12.161		
8,900.00	7,242.88	7,203.12	7,242.88	57.10	249.74	90.00	-1,337.61	-4,795.96	4,667.81	4,322.26	343.65	11.881		
9,000.00	7,242.29	7,203.71	7,242.29	59.32	249.76	90.00	-1,337.61	-4,795.96	4,667.81	4,318.26	347.53	11.601		
9,100.00	7,241.69	7,204.31	7,241.69	61.60	249.78	90.00	-1,337.61	-4,795.96	4,667.81	4,314.26	351.41	11.321		
9,200.00	7,241.09	7,204.91	7,241.09	63.92	249.80	90.00	-1,337.61	-4,795.96	4,667.81	4,310.26	355.29	11.041		
9,300.00	7,240.50	7,205.50	7,240.50	66.29	249.82	90.00	-1,337.61	-4,795.96	4,667.81	4,306.26	359.17	10.761		
9,400.00	7,239.90	7,206.10	7,239.90	68.70	249.84	90.00	-1,337.61	-4,795.96	4,667.81	4,302.26	363.05	10.481		
9,500.00	7,239.31	7,206.69	7,239.31	71.14	249.86	90.00	-1,337.61	-4,795.96	4,667.81	4,298.26	366.93	10.201		
9,600.00	7,238.71	7,207.29	7,238.71	73.61	249.88	90.00	-1,337.61	-4,795.96	4,667.81	4,294.26	370.81	9.921		
9,700.00	7,238.11	7,207.89	7,238.11	76.11	249.90	90.00	-1,337.61	-4,795.96	4,667.81	4,290.26	374.69	9.641		
9,800.00	7,237.52	7,208.48	7,237.52	78.64	249.92	90.00	-1,337.61	-4,795.96	4,667.81	4,286.26	378.57	9.361		
9,900.00	7,236.92	7,209.08	7,236.92	81.19	249.95	90.00	-1,337.61	-4,795.96	4,667.81	4,282.26	382.45	9.081		
10,000.00	7,236.33	7,209.67	7,236.33	83.75	249.97	90.00	-1,337.61	-4,795.96	4,667.81	4,278.26	386.33	8.801		
10,100.00	7,235.73	7,189.73	7,235.73	86.34	249.27	90.00	-1,337.61	-4,795.96	4,667.81	4,274.26	390.21	8.521		
10,200.00	7,235.14	7,189.14	7,235.14	88.94	249.25	90.00	-1,337.61	-4,795.96	4,667.81	4,270.26	394.09	8.241		
10,300.00	7,234.54	7,188.54	7,234.54	91.56	249.23	90.00	-1,337.61	-4,795.96	4,667.81	4,266.26	397.97	7.961		





# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,187.94	7,233.94	94.19	249.21	90.89	-1,337.61	-4,795.96	1,590.55	1,287.03	303.52	5.240	
10,500.00	7,233.35	7,187.35	7,233.35	96.84	249.19	90.83	-1,337.61	-4,795.96	1,497.63	1,192.06	305.56	4.901	
10,600.00	7,232.75	7,186.75	7,232.75	99.50	249.17	90.77	-1,337.61	-4,795.96	1,405.68	1,097.73	307.95	4.565	
10,700.00	7,232.16	7,186.16	7,232.16	102.17	249.15	90.71	-1,337.61	-4,795.96	1,314.91	1,004.17	310.74	4.232	
10,800.00	7,231.56	7,185.56	7,231.56	104.85	249.12	90.65	-1,337.61	-4,795.96	1,225.58	911.57	314.01	3.903	
10,900.00	7,230.96	7,184.96	7,230.96	107.53	249.10	90.59	-1,337.61	-4,795.96	1,138.02	820.18	317.84	3.580	
11,000.00	7,230.37	7,184.37	7,230.37	110.23	249.08	90.53	-1,337.61	-4,795.96	1,052.68	730.34	322.34	3.266	
11,100.00	7,229.77	7,183.77	7,229.77	112.93	249.06	90.47	-1,337.61	-4,795.96	970.14	642.53	327.61	2.961	
11,200.00	7,229.18	7,183.18	7,229.18	115.65	249.04	90.41	-1,337.61	-4,795.96	891.19	557.43	333.76	2.670	
11,300.00	7,228.58	7,182.58	7,228.58	118.37	249.02	90.35	-1,337.61	-4,795.96	816.86	476.01	340.85	2.397	
11,400.00	7,227.99	7,181.99	7,227.99	121.09	249.00	90.29	-1,337.61	-4,795.96	748.54	399.70	348.84	2.146	
11,500.00	7,227.39	7,181.39	7,227.39	123.82	248.98	90.23	-1,337.61	-4,795.96	688.00	330.48	357.53	1.924	
11,600.00	7,226.79	7,180.79	7,226.79	126.56	248.96	90.17	-1,337.61	-4,795.96	637.49	271.12	366.37	1.740	
11,700.00	7,226.20	7,180.20	7,226.20	129.30	248.94	90.11	-1,337.61	-4,795.96	599.53	225.09	374.44	1.601	
11,800.00	7,225.60	7,179.60	7,225.60	132.05	248.92	90.05	-1,337.61	-4,795.96	576.60	196.14	380.46	1.516	
11,884.80	7,225.10	7,179.10	7,225.10	134.38	248.90	90.00	-1,337.61	-4,795.96	570.33	187.24	383.10	1.489	Level 3, CC, ES
11,900.00	7,225.01	7,179.01	7,225.01	134.80	248.90	89.99	-1,337.61	-4,795.96	570.54	187.25	383.29	1.489	Level 3, SF
12,000.00	7,224.41	7,178.41	7,224.41	137.56	248.87	89.93	-1,337.61	-4,795.96	581.85	199.41	382.44	1.521	
12,100.00	7,223.81	7,177.81	7,223.81	140.32	248.85	89.87	-1,337.61	-4,795.96	609.58	231.20	378.38	1.611	
12,200.00	7,223.22	7,177.22	7,223.22	143.08	248.83	89.81	-1,337.61	-4,795.96	651.63	279.43	372.20	1.751	
12,300.00	7,222.62	7,176.62	7,222.62	145.85	248.81	89.75	-1,337.61	-4,795.96	705.45	340.38	365.07	1.932	
12,400.00	7,222.03	7,176.03	7,222.03	148.62	248.79	89.69	-1,337.61	-4,795.96	768.57	410.73	357.84	2.148	
12,500.00	7,221.43	7,175.43	7,221.43	151.40	248.77	89.63	-1,337.61	-4,795.96	838.89	487.86	351.02	2.390	
12,600.00	7,220.83	7,174.83	7,220.83	154.18	248.75	89.57	-1,337.61	-4,795.96	914.75	569.90	344.85	2.653	
12,700.00	7,220.24	7,174.24	7,220.24	156.96	248.73	89.51	-1,337.61	-4,795.96	994.89	655.52	339.37	2.932	
12,800.00	7,219.64	7,173.64	7,219.64	159.74	248.71	89.45	-1,337.61	-4,795.96	1,078.35	743.78	334.57	3.223	
12,900.00	7,219.05	7,173.05	7,219.05	162.53	248.69	89.39	-1,337.61	-4,795.96	1,164.42	834.03	330.39	3.524	
13,000.00	7,218.45	7,172.45	7,218.45	165.32	248.67	89.33	-1,337.61	-4,795.96	1,252.56	925.82	326.74	3.833	
13,100.00	7,217.86	7,171.86	7,217.86	168.11	248.65	89.27	-1,337.61	-4,795.96	1,342.36	1,018.80	323.56	4.149	
13,200.00	7,217.26	7,171.26	7,217.26	170.90	248.63	89.21	-1,337.61	-4,795.96	1,433.51	1,112.72	320.79	4.469	
13,300.00	7,216.66	7,170.66	7,216.66	173.70	248.60	89.15	-1,337.61	-4,795.96	1,525.78	1,207.42	318.36	4.793	
13,400.00	7,216.07	7,170.07	7,216.07	176.49	248.58	89.09	-1,337.61	-4,795.96	1,618.96	1,302.74	316.22	5.120	
13,500.00	7,215.47	7,169.47	7,215.47	179.29	248.56	89.03	-1,337.61	-4,795.96	1,712.91	1,398.58	314.33	5.449	
13,600.00	7,214.88	7,168.88	7,214.88	182.09	248.54	88.97	-1,337.61	-4,795.96	1,807.51	1,494.85	312.66	5.781	
13,700.00	7,214.28	7,168.28	7,214.28	184.90	248.52	88.91	-1,337.61	-4,795.96	1,902.66	1,591.49	311.17	6.115	
13,800.00	7,213.68	7,167.68	7,213.68	187.70	248.50	88.85	-1,337.61	-4,795.96	1,998.28	1,688.44	309.84	6.449	
13,900.00	7,213.09	7,167.09	7,213.09	190.51	248.48	88.79	-1,337.61	-4,795.96	2,094.31	1,785.66	308.66	6.785	
14,000.00	7,212.49	7,166.49	7,212.49	193.32	248.46	88.73	-1,337.61	-4,795.96	2,190.70	1,883.11	307.59	7.122	
14,100.00	7,211.90	7,165.90	7,211.90	196.13	248.44	88.67	-1,337.61	-4,795.96	2,287.40	1,980.77	306.63	7.460	
14,200.00	7,211.30	7,165.30	7,211.30	198.94	248.42	88.61	-1,337.61	-4,795.96	2,384.37	2,078.61	305.76	7.798	
14,300.00	7,210.71	7,164.71	7,210.71	201.75	248.40	88.55	-1,337.61	-4,795.96	2,481.58	2,176.60	304.98	8.137	
14,400.00	7,210.11	7,164.11	7,210.11	204.56	248.38	88.49	-1,337.61	-4,795.96	2,579.01	2,274.74	304.27	8.476	
14,500.00	7,209.51	7,163.51	7,209.51	207.38	248.35	88.43	-1,337.61	-4,795.96	2,676.62	2,373.00	303.62	8.816	
14,600.00	7,208.92	7,162.92	7,208.92	210.19	248.33	88.38	-1,337.61	-4,795.96	2,774.40	2,471.37	303.03	9.156	
14,700.00	7,208.32	7,162.32	7,208.32	213.01	248.31	88.32	-1,337.61	-4,795.96	2,872.34	2,569.85	302.49	9.496	
14,800.00	7,207.73	7,161.73	7,207.73	215.83	248.29	88.26	-1,337.61	-4,795.96	2,970.41	2,668.42	302.00	9.836	
14,900.00	7,207.13	7,161.13	7,207.13	218.65	248.27	88.20	-1,337.61	-4,795.96	3,068.61	2,767.07	301.54	10.176	
15,000.00	7,206.53	7,160.53	7,206.53	221.47	248.25	88.14	-1,337.61	-4,795.96	3,166.92	2,865.79	301.13	10.517	
15,100.00	7,205.94	7,159.94	7,205.94	224.29	248.23	88.08	-1,337.61	-4,795.96	3,265.33	2,964.59	300.75	10.857	
15,200.00	7,205.34	7,159.34	7,205.34	227.11	248.21	88.02	-1,337.61	-4,795.96	3,363.84	3,063.44	300.40	11.198	
15,258.04	7,205.00	7,159.00	7,205.00	228.75	248.20	87.98	-1,337.61	-4,795.96	3,421.06	3,120.85	300.20	11.396	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	49.00	3.28	3.28	-120.59	-2,838.55	-4,801.82	5,578.28					
100.00	100.00	51.00	100.00	3.28	3.40	-120.59	-2,838.55	-4,801.82	5,578.06	5,571.38	6.68	834.617		
200.00	200.00	151.00	200.00	3.34	4.82	-120.59	-2,838.55	-4,801.82	5,578.06	5,569.91	8.15	684.200		
300.00	299.98	250.98	299.98	3.44	7.75	54.69	-2,838.55	-4,801.82	5,577.05	5,565.87	11.18	498.637		
400.00	399.84	350.84	399.84	3.59	11.00	54.78	-2,838.55	-4,801.82	5,574.03	5,559.44	14.59	381.989		
500.00	499.45	450.45	499.45	3.79	14.36	54.94	-2,838.55	-4,801.82	5,569.00	5,550.85	18.15	306.873		
600.00	598.70	549.70	598.70	4.03	17.75	55.15	-2,838.55	-4,801.82	5,561.98	5,540.20	21.78	255.360		
700.00	697.47	648.47	697.47	4.31	21.15	55.43	-2,838.55	-4,801.82	5,553.00	5,527.54	25.46	218.096		
800.00	795.62	746.62	795.62	4.64	24.54	55.78	-2,838.55	-4,801.82	5,542.09	5,512.91	29.17	189.986		
900.00	893.06	844.06	893.06	5.00	27.91	56.18	-2,838.55	-4,801.82	5,529.27	5,496.38	32.90	168.073		
1,000.00	989.65	940.65	989.65	5.40	31.27	56.62	-2,838.55	-4,801.82	5,514.62	5,477.98	36.63	150.530		
1,100.00	1,085.85	1,036.85	1,085.85	5.82	34.61	56.85	-2,838.55	-4,801.82	5,499.25	5,458.86	40.38	136.179		
1,200.00	1,182.06	1,133.06	1,182.06	6.27	37.95	57.09	-2,838.55	-4,801.82	5,483.97	5,439.81	44.15	124.205		
1,300.00	1,278.26	1,229.26	1,278.26	6.73	41.30	57.32	-2,838.55	-4,801.82	5,468.78	5,420.84	47.94	114.074		
1,400.00	1,374.47	1,325.47	1,374.47	7.20	44.65	57.56	-2,838.55	-4,801.82	5,453.69	5,401.95	51.74	105.398		
1,500.00	1,470.67	1,421.67	1,470.67	7.69	48.00	57.79	-2,838.55	-4,801.82	5,438.70	5,383.14	55.56	97.891		
1,600.00	1,566.88	1,517.88	1,566.88	8.18	51.35	58.03	-2,838.55	-4,801.82	5,423.80	5,364.41	59.38	91.334		
1,700.00	1,663.08	1,614.08	1,663.08	8.68	54.70	58.27	-2,838.55	-4,801.82	5,408.99	5,345.78	63.22	85.561		
1,800.00	1,759.29	1,710.29	1,759.29	9.19	58.05	58.51	-2,838.55	-4,801.82	5,394.29	5,327.23	67.06	80.441		
1,900.00	1,855.49	1,806.49	1,855.49	9.70	61.41	58.75	-2,838.55	-4,801.82	5,379.68	5,308.77	70.91	75.871		
2,000.00	1,951.70	1,902.70	1,951.70	10.22	64.76	58.99	-2,838.55	-4,801.82	5,365.17	5,290.41	74.76	71.767		
2,100.00	2,047.90	2,001.10	2,047.90	10.73	68.19	59.23	-2,838.55	-4,801.82	5,350.76	5,272.07	78.69	67.996		
2,200.00	2,144.11	2,104.89	2,144.11	11.26	71.81	59.48	-2,838.55	-4,801.82	5,336.45	5,253.64	82.82	64.435		
2,300.00	2,240.31	2,208.69	2,240.31	11.78	75.43	59.72	-2,838.55	-4,801.82	5,322.25	5,235.30	86.95	61.211		
2,400.00	2,336.52	2,287.52	2,336.52	12.31	78.18	59.97	-2,838.55	-4,801.82	5,308.14	5,217.93	90.21	58.841		
2,500.00	2,432.72	2,383.72	2,432.72	12.84	81.54	60.22	-2,838.55	-4,801.82	5,294.14	5,200.06	94.08	56.271		
2,600.00	2,528.93	2,479.93	2,528.93	13.37	84.89	60.47	-2,838.55	-4,801.82	5,280.25	5,182.29	97.96	53.904		
2,700.00	2,625.13	2,576.13	2,625.13	13.91	88.25	60.72	-2,838.55	-4,801.82	5,266.45	5,164.62	101.83	51.717		
2,800.00	2,721.34	2,672.34	2,721.34	14.44	91.60	60.97	-2,838.55	-4,801.82	5,252.77	5,147.05	105.71	49.690		
2,900.00	2,817.54	2,768.54	2,817.54	14.98	94.96	61.23	-2,838.55	-4,801.82	5,239.18	5,129.59	109.59	47.806		
3,000.00	2,913.75	2,864.75	2,913.75	15.52	98.32	61.48	-2,838.55	-4,801.82	5,225.71	5,112.24	113.47	46.052		
3,100.00	3,009.95	2,960.95	3,009.95	16.06	101.67	61.74	-2,838.55	-4,801.82	5,212.35	5,094.99	117.36	44.414		
3,200.00	3,106.16	3,057.16	3,106.16	16.60	105.03	61.99	-2,838.55	-4,801.82	5,199.09	5,077.84	121.24	42.881		
3,300.00	3,202.37	3,153.37	3,202.37	17.14	108.39	62.25	-2,838.55	-4,801.82	5,185.94	5,060.81	125.13	41.444		
3,400.00	3,298.57	3,249.57	3,298.57	17.68	111.75	62.51	-2,838.55	-4,801.82	5,172.90	5,043.88	129.02	40.094		
3,500.00	3,394.78	3,345.78	3,394.78	18.22	115.10	62.77	-2,838.55	-4,801.82	5,159.98	5,027.07	132.91	38.823		
3,600.00	3,490.98	3,441.98	3,490.98	18.76	118.46	63.03	-2,838.55	-4,801.82	5,147.17	5,010.36	136.80	37.625		
3,700.00	3,587.19	3,538.19	3,587.19	19.31	121.82	63.30	-2,838.55	-4,801.82	5,134.47	4,993.77	140.70	36.494		
3,800.00	3,683.39	3,634.39	3,683.39	19.85	125.17	63.56	-2,838.55	-4,801.82	5,121.88	4,977.29	144.59	35.424		
3,900.00	3,779.60	3,730.60	3,779.60	20.39	128.53	63.83	-2,838.55	-4,801.82	5,109.41	4,960.92	148.48	34.410		
4,000.00	3,875.80	3,826.80	3,875.80	20.94	131.89	64.09	-2,838.55	-4,801.82	5,097.05	4,944.67	152.38	33.450		
4,100.00	3,972.01	3,923.01	3,972.01	21.48	135.25	64.36	-2,838.55	-4,801.82	5,084.81	4,928.54	156.28	32.537		
4,200.00	4,068.21	4,019.21	4,068.21	22.03	138.60	64.63	-2,838.55	-4,801.82	5,072.69	4,912.52	160.18	31.670		
4,300.00	4,164.42	4,115.42	4,164.42	22.57	141.96	64.90	-2,838.55	-4,801.82	5,060.69	4,896.61	164.07	30.844		
4,400.00	4,260.62	4,211.62	4,260.62	23.12	145.32	65.17	-2,838.55	-4,801.82	5,048.80	4,880.83	167.97	30.057		
4,500.00	4,356.83	4,307.83	4,356.83	23.67	148.68	65.45	-2,838.55	-4,801.82	5,037.04	4,865.16	171.87	29.306		
4,600.00	4,453.03	4,404.03	4,453.03	24.21	152.03	65.72	-2,838.55	-4,801.82	5,025.39	4,849.62	175.78	28.590		
4,700.00	4,549.24	4,500.24	4,549.24	24.76	155.39	66.00	-2,838.55	-4,801.82	5,013.87	4,834.19	179.68	27.905		
4,800.00	4,645.44	4,603.56	4,645.44	25.31	159.00	66.27	-2,838.55	-4,801.82	5,002.47	4,818.64	183.83	27.212		
4,900.00	4,741.65	4,707.35	4,741.65	25.86	162.62	66.55	-2,838.55	-4,801.82	4,991.19	4,803.19	188.00	26.549		
5,000.00	4,837.85	4,788.85	4,837.85	26.40	165.47	66.83	-2,838.55	-4,801.82	4,980.04	4,788.65	191.39	26.020		
5,100.00	4,934.06	4,885.06	4,934.06	26.95	168.82	67.11	-2,838.55	-4,801.82	4,969.01	4,773.71	195.30	25.443		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,030.26	4,981.26	5,030.26	27.50	172.18	67.39	-2,838.55	-4,801.82	4,958.10	4,758.90	199.20	24.890		
5,300.00	5,126.47	5,077.47	5,126.47	28.05	175.54	67.67	-2,838.55	-4,801.82	4,947.33	4,744.22	203.11	24.358		
5,400.00	5,222.67	5,173.67	5,222.67	28.60	178.90	67.96	-2,838.55	-4,801.82	4,936.68	4,729.66	207.02	23.847		
5,500.00	5,318.88	5,269.88	5,318.88	29.15	182.26	68.24	-2,838.55	-4,801.82	4,926.16	4,715.23	210.92	23.355		
5,600.00	5,415.08	5,366.08	5,415.08	29.70	185.61	68.53	-2,838.55	-4,801.82	4,915.76	4,700.93	214.83	22.882		
5,700.00	5,511.29	5,462.29	5,511.29	30.25	188.97	68.81	-2,838.55	-4,801.82	4,905.50	4,686.76	218.74	22.426		
5,800.00	5,607.49	5,558.49	5,607.49	30.79	192.33	69.10	-2,838.55	-4,801.82	4,895.37	4,672.72	222.65	21.987		
5,900.00	5,703.70	5,654.70	5,703.70	31.34	195.69	69.39	-2,838.55	-4,801.82	4,885.37	4,658.81	226.56	21.563		
6,000.00	5,799.90	5,750.90	5,799.90	31.89	199.05	69.68	-2,838.55	-4,801.82	4,875.50	4,645.03	230.47	21.154		
6,100.00	5,896.11	5,847.11	5,896.11	32.44	202.40	69.97	-2,838.55	-4,801.82	4,865.76	4,631.38	234.38	20.760		
6,200.00	5,992.32	5,943.32	5,992.32	32.99	205.76	70.26	-2,838.55	-4,801.82	4,856.16	4,617.86	238.30	20.379		
6,300.00	6,088.52	6,039.52	6,088.52	33.54	209.12	70.56	-2,838.55	-4,801.82	4,846.69	4,604.48	242.21	20.010		
6,400.00	6,184.73	6,135.73	6,184.73	34.09	212.48	70.85	-2,838.55	-4,801.82	4,837.36	4,591.24	246.12	19.654		
6,500.00	6,280.93	6,231.93	6,280.93	34.64	215.84	71.15	-2,838.55	-4,801.82	4,828.17	4,578.13	250.04	19.310		
6,600.00	6,377.14	6,328.14	6,377.14	35.19	219.19	71.44	-2,838.55	-4,801.82	4,819.11	4,565.16	253.95	18.977		
6,700.00	6,473.34	6,424.34	6,473.34	35.74	222.55	71.74	-2,838.55	-4,801.82	4,810.19	4,552.32	257.86	18.654		
6,800.00	6,569.55	6,520.55	6,569.55	36.29	225.91	72.04	-2,838.55	-4,801.82	4,801.40	4,539.63	261.78	18.341		
6,900.00	6,665.75	6,616.75	6,665.75	36.84	229.27	67.66	-2,838.55	-4,801.82	4,792.59	4,526.90	265.69	18.038		
7,000.00	6,761.11	6,712.11	6,761.11	37.39	232.60	41.42	-2,838.55	-4,801.82	4,774.26	4,504.70	269.56	17.711		
7,100.00	6,853.41	6,804.41	6,853.41	37.89	235.82	25.30	-2,838.55	-4,801.82	4,741.25	4,467.98	273.27	17.350		
7,200.00	6,940.36	6,908.64	6,940.36	38.34	239.46	15.45	-2,838.55	-4,801.82	4,694.32	4,416.99	277.33	16.927		
7,300.00	7,019.83	6,970.83	7,019.83	38.74	241.63	8.50	-2,838.55	-4,801.82	4,634.60	4,354.73	279.86	16.560		
7,400.00	7,089.85	7,040.85	7,089.85	39.10	244.07	2.49	-2,838.55	-4,801.82	4,563.51	4,280.91	282.60	16.148		
7,500.00	7,148.71	7,100.29	7,148.71	39.42	246.15	-4.08	-2,838.55	-4,801.82	4,482.79	4,197.90	284.89	15.735		
7,600.00	7,194.95	7,145.95	7,194.95	39.71	247.74	-13.35	-2,838.55	-4,801.82	4,394.44	4,107.82	286.62	15.332		
7,700.00	7,227.43	7,178.43	7,227.43	40.01	248.88	-29.80	-2,838.55	-4,801.82	4,300.64	4,012.83	287.81	14.942		
7,800.00	7,245.37	7,203.63	7,245.37	40.37	249.76	-61.68	-2,838.55	-4,801.82	4,203.76	3,915.07	288.69	14.562		
7,900.00	7,248.84	7,200.16	7,248.84	40.87	249.63	-91.47	-2,838.55	-4,801.82	4,106.18	3,817.67	288.51	14.232		
8,000.00	7,248.24	7,200.76	7,248.24	41.62	249.65	-91.43	-2,838.55	-4,801.82	4,008.85	3,720.37	288.47	13.897		
8,100.00	7,247.65	7,201.35	7,247.65	42.66	249.68	-91.39	-2,838.55	-4,801.82	3,911.65	3,623.20	288.45	13.561		
8,200.00	7,247.05	7,201.95	7,247.05	43.96	249.70	-91.36	-2,838.55	-4,801.82	3,814.60	3,526.15	288.44	13.225		
8,300.00	7,246.46	7,202.54	7,246.46	45.46	249.72	-91.32	-2,838.55	-4,801.82	3,717.70	3,429.25	288.45	12.888		
8,400.00	7,245.86	7,203.14	7,245.86	47.13	249.74	-91.28	-2,838.55	-4,801.82	3,620.97	3,332.49	288.48	12.552		
8,500.00	7,245.27	7,203.74	7,245.27	48.93	249.76	-91.25	-2,838.55	-4,801.82	3,524.42	3,235.89	288.54	12.215		
8,600.00	7,244.67	7,204.33	7,244.67	50.84	249.78	-91.21	-2,838.55	-4,801.82	3,428.08	3,139.45	288.62	11.877		
8,700.00	7,244.07	7,204.93	7,244.07	52.85	249.80	-91.17	-2,838.55	-4,801.82	3,331.94	3,043.20	288.74	11.540		
8,800.00	7,243.48	7,205.52	7,243.48	54.94	249.82	-91.14	-2,838.55	-4,801.82	3,236.04	2,947.15	288.89	11.202		
8,900.00	7,242.88	7,206.12	7,242.88	57.10	249.84	-91.10	-2,838.55	-4,801.82	3,140.40	2,851.31	289.09	10.863		
9,000.00	7,242.29	7,206.71	7,242.29	59.32	249.86	-91.06	-2,838.55	-4,801.82	3,045.04	2,755.69	289.34	10.524		
9,100.00	7,241.69	7,207.31	7,241.69	61.60	249.88	-91.03	-2,838.55	-4,801.82	2,949.98	2,660.33	289.65	10.184		
9,200.00	7,241.09	7,207.91	7,241.09	63.92	249.90	-90.99	-2,838.55	-4,801.82	2,855.26	2,565.23	290.03	9.845		
9,300.00	7,240.50	7,208.50	7,240.50	66.29	249.93	-90.95	-2,838.55	-4,801.82	2,760.92	2,470.43	290.49	9.504		
9,400.00	7,239.90	7,209.10	7,239.90	68.70	249.95	-90.92	-2,838.55	-4,801.82	2,666.98	2,375.94	291.04	9.164		
9,500.00	7,239.31	7,209.69	7,239.31	71.14	249.97	-90.88	-2,838.55	-4,801.82	2,573.50	2,281.81	291.69	8.823		
9,600.00	7,238.71	7,189.71	7,238.71	73.61	249.27	-90.84	-2,838.55	-4,801.82	2,480.54	2,188.79	291.74	8.502		
9,700.00	7,238.11	7,189.11	7,238.11	76.11	249.25	-90.81	-2,838.55	-4,801.82	2,388.14	2,095.52	292.61	8.161		
9,800.00	7,237.52	7,188.52	7,237.52	78.64	249.23	-90.77	-2,838.55	-4,801.82	2,296.37	2,002.74	293.63	7.821		
9,900.00	7,236.92	7,187.92	7,236.92	81.19	249.21	-90.73	-2,838.55	-4,801.82	2,205.32	1,910.49	294.84	7.480		
10,000.00	7,236.33	7,187.33	7,236.33	83.75	249.19	-90.70	-2,838.55	-4,801.82	2,115.08	1,818.84	296.24	7.140		
10,100.00	7,235.73	7,186.73	7,235.73	86.34	249.17	-90.66	-2,838.55	-4,801.82	2,025.76	1,727.89	297.87	6.801		
10,200.00	7,235.14	7,186.14	7,235.14	88.94	249.14	-90.62	-2,838.55	-4,801.82	1,937.48	1,637.72	299.77	6.463		
10,300.00	7,234.54	7,185.54	7,234.54	91.56	249.12	-90.59	-2,838.55	-4,801.82	1,850.40	1,548.45	301.95	6.128		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,184.94	7,233.94	94.19	249.10	-90.55	-2,838.55	-4,801.82	1,764.68	1,460.22	304.46	5.796		
10,500.00	7,233.35	7,184.35	7,233.35	96.84	249.08	-90.51	-2,838.55	-4,801.82	1,680.54	1,373.21	307.33	5.468		
10,600.00	7,232.75	7,183.75	7,232.75	99.50	249.06	-90.48	-2,838.55	-4,801.82	1,598.23	1,287.63	310.60	5.146		
10,700.00	7,232.16	7,183.16	7,232.16	102.17	249.04	-90.44	-2,838.55	-4,801.82	1,518.05	1,203.73	314.32	4.830		
10,800.00	7,231.56	7,182.56	7,231.56	104.85	249.02	-90.40	-2,838.55	-4,801.82	1,440.34	1,121.84	318.50	4.522		
10,900.00	7,230.96	7,181.96	7,230.96	107.53	249.00	-90.37	-2,838.55	-4,801.82	1,365.55	1,042.35	323.20	4.225		
11,000.00	7,230.37	7,181.37	7,230.37	110.23	248.98	-90.33	-2,838.55	-4,801.82	1,294.15	965.74	328.42	3.941		
11,100.00	7,229.77	7,180.77	7,229.77	112.93	248.96	-90.29	-2,838.55	-4,801.82	1,226.77	892.61	334.16	3.671		
11,200.00	7,229.18	7,180.18	7,229.18	115.65	248.94	-90.26	-2,838.55	-4,801.82	1,164.08	823.69	340.39	3.420		
11,300.00	7,228.58	7,179.58	7,228.58	118.37	248.92	-90.22	-2,838.55	-4,801.82	1,106.89	759.85	347.03	3.190		
11,400.00	7,227.99	7,178.99	7,227.99	121.09	248.89	-90.18	-2,838.55	-4,801.82	1,056.09	702.13	353.96	2.984		
11,500.00	7,227.39	7,178.39	7,227.39	123.82	248.87	-90.15	-2,838.55	-4,801.82	1,012.64	651.69	360.94	2.806		
11,600.00	7,226.79	7,177.79	7,226.79	126.56	248.85	-90.11	-2,838.55	-4,801.82	977.53	609.80	367.72	2.658		
11,700.00	7,226.20	7,177.20	7,226.20	129.30	248.83	-90.07	-2,838.55	-4,801.82	951.67	577.72	373.95	2.545		
11,800.00	7,225.60	7,176.60	7,225.60	132.05	248.81	-90.04	-2,838.55	-4,801.82	935.84	556.55	379.28	2.467		
11,899.42	7,225.01	7,176.01	7,225.01	134.79	248.79	-90.00	-2,838.55	-4,801.82	930.54	547.15	383.39	2.427 CC		
11,900.00	7,225.01	7,176.01	7,225.01	134.80	248.79	-90.00	-2,838.55	-4,801.82	930.54	547.13	383.41	2.427 ES		
12,000.00	7,224.41	7,175.41	7,224.41	137.56	248.77	-89.96	-2,838.55	-4,801.82	935.96	549.82	386.14	2.424 SF		
12,100.00	7,223.81	7,174.81	7,223.81	140.32	248.75	-89.93	-2,838.55	-4,801.82	951.91	564.49	387.42	2.457		
12,200.00	7,223.22	7,174.22	7,223.22	143.08	248.73	-89.89	-2,838.55	-4,801.82	977.88	590.53	387.35	2.525		
12,300.00	7,222.62	7,173.62	7,222.62	145.85	248.71	-89.85	-2,838.55	-4,801.82	1,013.10	626.98	386.11	2.624		
12,400.00	7,222.03	7,173.03	7,222.03	148.62	248.69	-89.82	-2,838.55	-4,801.82	1,056.63	672.65	383.98	2.752		
12,500.00	7,221.43	7,172.43	7,221.43	151.40	248.67	-89.78	-2,838.55	-4,801.82	1,107.51	726.30	381.22	2.905		
12,600.00	7,220.83	7,171.83	7,220.83	154.18	248.65	-89.74	-2,838.55	-4,801.82	1,164.77	786.72	378.06	3.081		
12,700.00	7,220.24	7,171.24	7,220.24	156.96	248.62	-89.71	-2,838.55	-4,801.82	1,227.52	852.83	374.69	3.276		
12,800.00	7,219.64	7,170.64	7,219.64	159.74	248.60	-89.67	-2,838.55	-4,801.82	1,294.96	923.69	371.27	3.488		
12,900.00	7,219.05	7,170.05	7,219.05	162.53	248.58	-89.63	-2,838.55	-4,801.82	1,366.39	998.51	367.88	3.714		
13,000.00	7,218.45	7,169.45	7,218.45	165.32	248.56	-89.60	-2,838.55	-4,801.82	1,441.23	1,076.63	364.60	3.953		
13,100.00	7,217.86	7,168.86	7,217.86	168.11	248.54	-89.56	-2,838.55	-4,801.82	1,518.96	1,157.50	361.47	4.202		
13,200.00	7,217.26	7,168.26	7,217.26	170.90	248.52	-89.52	-2,838.55	-4,801.82	1,599.17	1,240.67	358.50	4.461		
13,300.00	7,216.66	7,167.66	7,216.66	173.70	248.50	-89.49	-2,838.55	-4,801.82	1,681.50	1,325.79	355.72	4.727		
13,400.00	7,216.07	7,167.07	7,216.07	176.49	248.48	-89.45	-2,838.55	-4,801.82	1,765.66	1,412.55	353.11	5.000		
13,500.00	7,215.47	7,166.47	7,215.47	179.29	248.46	-89.41	-2,838.55	-4,801.82	1,851.40	1,500.72	350.68	5.279		
13,600.00	7,214.88	7,165.88	7,214.88	182.09	248.44	-89.38	-2,838.55	-4,801.82	1,938.50	1,590.08	348.42	5.564		
13,700.00	7,214.28	7,165.28	7,214.28	184.90	248.42	-89.34	-2,838.55	-4,801.82	2,026.79	1,680.48	346.31	5.853		
13,800.00	7,213.68	7,164.68	7,213.68	187.70	248.40	-89.30	-2,838.55	-4,801.82	2,116.12	1,771.77	344.35	6.145		
13,900.00	7,213.09	7,164.09	7,213.09	190.51	248.37	-89.27	-2,838.55	-4,801.82	2,206.37	1,863.85	342.53	6.441		
14,000.00	7,212.49	7,163.49	7,212.49	193.32	248.35	-89.23	-2,838.55	-4,801.82	2,297.43	1,956.60	340.83	6.741		
14,100.00	7,211.90	7,162.90	7,211.90	196.13	248.33	-89.19	-2,838.55	-4,801.82	2,389.20	2,049.95	339.25	7.043		
14,200.00	7,211.30	7,162.30	7,211.30	198.94	248.31	-89.16	-2,838.55	-4,801.82	2,481.61	2,143.83	337.78	7.347		
14,300.00	7,210.71	7,161.71	7,210.71	201.75	248.29	-89.12	-2,838.55	-4,801.82	2,574.58	2,238.18	336.40	7.653		
14,400.00	7,210.11	7,161.11	7,210.11	204.56	248.27	-89.08	-2,838.55	-4,801.82	2,668.07	2,332.95	335.11	7.962		
14,500.00	7,209.51	7,160.51	7,209.51	207.38	248.25	-89.05	-2,838.55	-4,801.82	2,762.01	2,428.09	333.91	8.272		
14,600.00	7,208.92	7,159.92	7,208.92	210.19	248.23	-89.01	-2,838.55	-4,801.82	2,856.36	2,523.57	332.79	8.583		
14,700.00	7,208.32	7,159.32	7,208.32	213.01	248.21	-88.97	-2,838.55	-4,801.82	2,951.08	2,619.35	331.73	8.896		
14,800.00	7,207.73	7,158.73	7,207.73	215.83	248.19	-88.94	-2,838.55	-4,801.82	3,046.14	2,715.40	330.74	9.210		
14,900.00	7,207.13	7,158.13	7,207.13	218.65	248.17	-88.90	-2,838.55	-4,801.82	3,141.51	2,811.70	329.81	9.525		
15,000.00	7,206.53	7,157.53	7,206.53	221.47	248.15	-88.86	-2,838.55	-4,801.82	3,237.15	2,908.22	328.93	9.841		
15,100.00	7,205.94	7,156.94	7,205.94	224.29	248.13	-88.83	-2,838.55	-4,801.82	3,333.05	3,004.95	328.11	10.158		
15,200.00	7,205.34	7,156.34	7,205.34	227.11	248.10	-88.79	-2,838.55	-4,801.82	3,429.19	3,101.86	327.33	10.476		
15,258.04	7,205.00	7,156.00	7,205.00	228.75	248.09	-88.77	-2,838.55	-4,801.82	3,485.09	3,158.19	326.90	10.661		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	25.00	67.00	3.28	3.28	-140.83	-4,009.67	-3,266.46	5,172.20					
100.00	100.00	889.84	926.78	3.28	5.11	-141.00	-3,962.52	-3,208.93	5,165.50	5,157.08	8.42	613.132		
200.00	200.00	988.49	1,024.11	3.34	5.52	-141.04	-3,952.31	-3,196.47	5,149.50	5,140.69	8.81	584.444		
300.00	299.98	1,086.93	1,121.23	3.44	5.95	34.38	-3,942.12	-3,184.03	5,132.07	5,122.81	9.26	553.941		
400.00	399.84	1,184.85	1,217.83	3.59	6.40	34.61	-3,931.98	-3,171.66	5,111.82	5,102.04	9.78	522.748		
500.00	499.45	1,282.14	1,313.81	3.79	6.86	34.90	-3,921.91	-3,159.37	5,088.76	5,078.42	10.34	491.909		
600.00	598.70	1,378.67	1,409.05	4.03	7.32	35.25	-3,911.91	-3,147.17	5,062.93	5,051.98	10.96	462.129		
700.00	697.47	1,474.33	1,503.42	4.31	7.79	35.67	-3,902.01	-3,135.09	5,034.36	5,022.76	11.60	433.839		
800.00	795.62	1,569.00	1,596.82	4.64	8.26	36.15	-3,892.20	-3,123.13	5,003.10	4,990.81	12.28	407.258		
900.00	893.06	1,662.57	1,689.13	5.00	8.73	36.69	-3,882.52	-3,111.31	4,969.18	4,956.19	12.99	382.461		
1,000.00	989.65	1,754.92	1,780.25	5.40	9.20	37.27	-3,872.95	-3,099.64	4,932.68	4,918.95	13.73	359.273		
1,100.00	1,085.85	1,846.74	1,870.83	5.82	9.67	37.42	-3,863.45	-3,088.04	4,895.12	4,880.65	14.47	338.314		
1,200.00	1,182.06	1,938.55	1,961.40	6.27	10.14	37.58	-3,853.94	-3,076.44	4,857.59	4,842.36	15.23	318.935		
1,300.00	1,278.26	2,030.36	2,051.98	6.73	10.62	37.75	-3,844.44	-3,064.84	4,820.09	4,804.08	16.01	301.056		
1,400.00	1,374.47	2,127.84	2,142.56	7.20	11.13	37.91	-3,834.93	-3,053.24	4,782.63	4,765.80	16.83	284.159		
1,500.00	1,470.67	2,213.98	2,233.14	7.69	11.58	38.08	-3,825.43	-3,041.64	4,745.21	4,727.59	17.61	269.389		
1,600.00	1,566.88	2,305.79	2,323.72	8.18	12.06	38.25	-3,815.92	-3,030.04	4,707.82	4,689.38	18.43	255.381		
1,700.00	1,663.08	2,402.39	2,414.30	8.68	12.57	38.42	-3,806.41	-3,018.44	4,670.47	4,651.18	19.29	242.180		
1,800.00	1,759.29	2,489.42	2,504.88	9.19	13.03	38.60	-3,796.91	-3,006.84	4,633.15	4,613.05	20.10	230.486		
1,900.00	1,855.49	2,581.23	2,595.46	9.70	13.52	38.78	-3,787.40	-2,995.25	4,595.88	4,574.93	20.95	219.409		
2,000.00	1,951.70	2,673.04	2,688.03	10.22	14.01	38.96	-3,777.90	-2,983.65	4,558.64	4,536.84	21.80	209.132		
2,100.00	2,047.90	2,764.85	2,776.61	10.73	14.50	39.14	-3,768.39	-2,972.05	4,521.45	4,498.79	22.65	199.580		
2,200.00	2,144.11	2,856.67	2,867.19	11.26	14.99	39.33	-3,758.88	-2,960.45	4,484.29	4,460.78	23.52	190.686		
2,300.00	2,240.31	2,948.48	2,957.77	11.78	15.48	39.52	-3,749.38	-2,948.85	4,447.18	4,422.80	24.38	182.389		
2,400.00	2,336.52	3,040.29	3,048.35	12.31	15.97	39.71	-3,739.87	-2,937.25	4,410.12	4,384.86	25.25	174.636		
2,500.00	2,432.72	3,132.10	3,138.93	12.84	16.46	39.91	-3,730.37	-2,925.65	4,373.09	4,346.97	26.13	167.378		
2,600.00	2,528.93	3,223.91	3,229.51	13.37	16.96	40.11	-3,720.86	-2,914.05	4,336.12	4,309.11	27.00	160.572		
2,700.00	2,625.13	3,315.73	3,320.09	13.91	17.45	40.31	-3,711.35	-2,902.45	4,299.19	4,271.31	27.88	154.179		
2,800.00	2,721.34	3,407.54	3,410.67	14.44	17.95	40.52	-3,701.85	-2,890.85	4,262.31	4,233.54	28.77	148.165		
2,900.00	2,817.54	3,500.65	3,501.24	14.98	18.45	40.73	-3,692.34	-2,879.25	4,225.48	4,195.82	29.66	142.470		
3,000.00	2,913.75	3,591.16	3,591.82	15.52	18.94	40.94	-3,682.84	-2,867.65	4,188.70	4,158.16	30.54	137.151		
3,100.00	3,009.95	3,682.97	3,682.40	16.06	19.43	41.16	-3,673.33	-2,856.05	4,151.98	4,120.54	31.43	132.098		
3,200.00	3,106.16	3,774.79	3,772.98	16.60	19.93	41.38	-3,663.83	-2,844.45	4,115.30	4,082.98	32.32	127.317		
3,300.00	3,202.37	3,866.60	3,863.56	17.14	20.43	41.60	-3,654.32	-2,832.86	4,078.69	4,045.47	33.22	122.787		
3,400.00	3,298.57	3,958.41	3,954.14	17.68	20.93	41.83	-3,644.81	-2,821.26	4,042.13	4,008.01	34.11	118.489		
3,500.00	3,394.78	4,050.22	4,044.72	18.22	21.42	42.06	-3,635.31	-2,809.66	4,005.62	3,970.61	35.01	114.407		
3,600.00	3,490.98	4,142.03	4,135.30	18.76	21.92	42.30	-3,625.80	-2,798.06	3,969.18	3,933.27	35.91	110.525		
3,700.00	3,587.19	4,233.84	4,225.87	19.31	22.42	42.54	-3,616.30	-2,786.46	3,932.80	3,895.99	36.81	106.830		
3,800.00	3,683.39	4,325.66	4,316.45	19.85	22.92	42.79	-3,606.79	-2,774.86	3,896.48	3,858.77	37.72	103.308		
3,900.00	3,779.60	4,417.47	4,407.03	20.39	23.42	43.04	-3,597.28	-2,763.26	3,860.23	3,821.61	38.62	99.949		
4,000.00	3,875.80	4,509.28	4,497.61	20.94	23.92	43.29	-3,587.78	-2,751.66	3,824.05	3,784.52	39.53	96.741		
4,100.00	3,972.01	4,601.09	4,588.19	21.48	24.42	43.55	-3,578.27	-2,740.06	3,787.93	3,747.50	40.44	93.674		
4,200.00	4,068.21	4,692.90	4,678.77	22.03	24.92	43.82	-3,568.77	-2,728.46	3,751.89	3,710.54	41.35	90.741		
4,300.00	4,164.42	4,784.72	4,769.35	22.57	25.42	44.08	-3,559.26	-2,716.86	3,715.92	3,673.66	42.26	87.932		
4,400.00	4,260.62	4,876.53	4,859.93	23.12	25.92	44.36	-3,549.75	-2,705.26	3,680.02	3,636.85	43.17	85.241		
4,500.00	4,356.83	4,968.34	4,950.51	23.67	26.42	44.64	-3,540.25	-2,693.66	3,644.20	3,600.11	44.09	82.660		
4,600.00	4,453.03	5,060.15	5,041.08	24.21	26.92	44.92	-3,530.74	-2,682.06	3,608.46	3,563.46	45.00	80.182		
4,700.00	4,549.24	5,151.96	5,131.66	24.76	27.42	45.21	-3,521.24	-2,670.47	3,572.80	3,526.88	45.92	77.803		
4,800.00	4,645.44	5,243.78	5,222.24	25.31	27.92	45.51	-3,511.73	-2,658.87	3,537.23	3,490.39	46.84	75.516		
4,900.00	4,741.65	5,335.59	5,312.82	25.86	28.42	45.81	-3,502.23	-2,647.27	3,501.75	3,453.98	47.76	73.316		
5,000.00	4,837.85	5,427.40	5,403.40	26.40	28.92	46.12	-3,492.72	-2,635.67	3,466.35	3,417.66	48.69	71.198		
5,100.00	4,934.06	5,530.81	5,493.98	26.95	29.49	46.43	-3,483.21	-2,624.07	3,431.05	3,381.38	49.66	69.085		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,030.26	5,611.02	5,584.56	27.50	29.92	46.75	-3,473.71	-2,612.47	3,395.84	3,345.30	50.54	67.194		
5,300.00	5,126.47	5,702.84	5,675.14	28.05	30.43	47.08	-3,464.20	-2,600.87	3,360.73	3,309.26	51.47	65.299		
5,400.00	5,222.67	5,794.65	5,765.71	28.60	30.93	47.41	-3,454.70	-2,589.27	3,325.72	3,273.33	52.40	63.471		
5,500.00	5,318.88	5,886.46	5,856.29	29.15	31.43	47.75	-3,445.19	-2,577.67	3,290.82	3,237.49	53.33	61.707		
5,600.00	5,415.08	5,978.27	5,946.87	29.70	31.93	48.10	-3,435.68	-2,566.07	3,256.03	3,201.76	54.26	60.002		
5,700.00	5,511.29	6,070.08	6,037.45	30.25	32.43	48.45	-3,426.18	-2,554.47	3,221.34	3,166.14	55.20	58.356		
5,800.00	5,607.49	6,161.90	6,128.03	30.79	32.93	48.81	-3,416.67	-2,542.87	3,186.78	3,130.63	56.14	56.764		
5,900.00	5,703.70	6,253.71	6,218.61	31.34	33.44	49.18	-3,407.17	-2,531.27	3,152.33	3,095.24	57.08	55.224		
6,000.00	5,799.90	6,277.87	6,242.48	31.89	33.56	49.28	-3,404.67	-2,528.46	3,118.93	3,061.02	57.91	53.859		
6,100.00	5,896.11	6,300.00	6,264.41	32.44	33.68	49.39	-3,402.39	-2,526.65	3,087.84	3,029.12	58.72	52.589		
6,200.00	5,992.32	6,325.01	6,289.27	32.99	33.79	49.51	-3,399.83	-2,525.53	3,059.18	2,999.67	59.51	51.408		
6,300.00	6,088.52	6,335.21	6,299.41	33.54	33.83	49.57	-3,398.79	-2,525.36	3,032.84	2,972.60	60.23	50.350		
6,400.00	6,184.73	6,350.00	6,314.12	34.09	33.90	49.65	-3,397.29	-2,525.39	3,009.08	2,948.14	60.94	49.378		
6,500.00	6,280.93	6,373.74	6,337.73	34.64	33.98	49.79	-3,394.90	-2,526.17	2,987.84	2,926.20	61.64	48.472		
6,600.00	6,377.14	6,400.00	6,363.79	35.19	34.08	49.96	-3,392.28	-2,528.06	2,969.28	2,906.96	62.32	47.643		
6,700.00	6,473.34	6,412.18	6,375.85	35.74	34.12	50.04	-3,391.08	-2,529.30	2,953.30	2,890.39	62.91	46.947		
6,800.00	6,569.55	6,425.01	6,388.52	36.29	34.16	50.13	-3,389.82	-2,530.86	2,940.11	2,876.66	63.45	46.339		
6,900.00	6,665.75	6,450.00	6,413.10	36.84	34.23	45.59	-3,387.40	-2,534.63	2,929.46	2,865.46	64.01	45.768		
7,000.00	6,761.11	6,469.35	6,432.02	37.39	34.27	18.73	-3,385.55	-2,538.21	2,913.48	2,849.02	64.46	45.197		
7,100.00	6,853.41	6,500.00	6,461.76	37.89	34.34	1.81	-3,382.68	-2,545.07	2,887.78	2,822.89	64.89	44.500		
7,200.00	6,940.36	6,500.00	6,461.76	38.34	34.34	-9.18	-3,382.68	-2,545.07	2,852.47	2,787.45	65.03	43.867		
7,300.00	7,019.83	6,525.01	6,485.76	38.74	34.39	-17.35	-3,380.38	-2,551.72	2,808.32	2,743.07	65.25	43.041		
7,400.00	7,089.85	6,550.00	6,509.46	39.10	34.44	-24.57	-3,378.13	-2,559.31	2,756.14	2,690.73	65.41	42.137		
7,500.00	7,148.71	6,550.00	6,509.46	39.42	34.44	-31.71	-3,378.13	-2,559.31	2,696.85	2,631.53	65.32	41.285		
7,600.00	7,194.95	6,576.98	6,534.69	39.71	34.47	-39.60	-3,375.77	-2,568.54	2,631.39	2,565.94	65.45	40.207		
7,700.00	7,227.43	6,600.00	6,555.91	40.01	34.51	-48.53	-3,373.81	-2,577.26	2,561.45	2,495.88	65.57	39.066		
7,800.00	7,245.37	6,600.00	6,555.91	40.37	34.51	-58.01	-3,373.81	-2,577.26	2,488.32	2,422.75	65.57	37.950		
7,900.00	7,248.84	6,614.41	6,569.02	40.87	34.52	-65.63	-3,372.60	-2,583.11	2,413.96	2,348.14	65.82	36.675		
8,000.00	7,248.24	6,625.01	6,578.58	41.62	34.53	-65.93	-3,371.73	-2,587.60	2,340.77	2,274.59	66.19	35.367		
8,100.00	7,247.65	6,635.80	6,588.24	42.66	34.54	-66.23	-3,370.85	-2,592.34	2,269.43	2,202.72	66.72	34.016		
8,200.00	7,247.05	6,650.00	6,600.82	43.96	34.55	-66.63	-3,369.72	-2,598.82	2,200.10	2,132.64	67.46	32.614		
8,300.00	7,246.46	6,650.00	6,600.82	45.46	34.55	-66.63	-3,369.72	-2,598.82	2,133.02	2,064.72	68.30	31.231		
8,400.00	7,245.86	6,674.48	6,622.17	47.13	34.57	-67.30	-3,367.81	-2,610.65	2,068.11	1,998.57	69.54	29.740		
8,500.00	7,245.27	6,700.00	6,643.92	48.93	34.58	-68.00	-3,365.89	-2,623.85	2,005.91	1,934.90	71.01	28.249		
8,600.00	7,244.67	6,700.00	6,643.92	50.84	34.58	-68.00	-3,365.89	-2,623.85	1,946.29	1,873.72	72.58	26.818		
8,700.00	7,244.07	6,725.01	6,664.72	52.85	34.59	-68.68	-3,364.08	-2,637.63	1,889.65	1,815.11	74.54	25.352		
8,800.00	7,243.48	6,750.00	6,684.94	54.94	34.59	-69.35	-3,362.35	-2,652.19	1,836.20	1,759.46	76.74	23.927		
8,900.00	7,242.88	6,764.17	6,696.15	57.10	34.59	-69.72	-3,361.41	-2,660.81	1,786.01	1,706.86	79.15	22.564		
9,000.00	7,242.29	6,800.00	6,723.63	59.32	34.59	-70.65	-3,359.13	-2,683.68	1,739.51	1,657.66	81.86	21.250		
9,100.00	7,241.69	6,812.68	6,733.04	61.60	34.59	-70.97	-3,358.36	-2,692.14	1,696.47	1,611.74	84.73	20.022		
9,200.00	7,241.09	6,840.48	6,753.08	63.92	34.59	-71.66	-3,356.75	-2,711.35	1,657.41	1,569.58	87.82	18.872		
9,300.00	7,240.50	6,871.00	6,774.09	66.29	34.58	-72.39	-3,355.11	-2,733.41	1,622.31	1,531.23	91.08	17.811		
9,400.00	7,239.90	6,900.00	6,793.07	68.70	34.58	-73.05	-3,353.68	-2,755.29	1,591.26	1,496.80	94.46	16.845		
9,500.00	7,239.31	6,941.13	6,818.24	71.14	34.57	-73.95	-3,351.85	-2,787.76	1,564.24	1,466.31	97.94	15.972		
9,600.00	7,238.71	6,981.19	6,840.71	73.61	34.58	-74.76	-3,350.31	-2,820.88	1,541.25	1,439.79	101.47	15.190		
9,700.00	7,238.11	7,025.01	6,862.87	76.11	34.60	-75.57	-3,348.92	-2,858.65	1,522.18	1,417.17	105.01	14.495		
9,800.00	7,237.52	7,071.90	6,883.65	78.64	34.64	-76.34	-3,347.75	-2,900.65	1,506.87	1,398.29	108.57	13.879		
9,900.00	7,236.92	7,125.01	6,903.41	81.19	34.74	-77.08	-3,346.86	-2,949.93	1,495.12	1,383.01	112.11	13.336		
10,000.00	7,236.33	7,176.09	6,918.50	83.75	34.90	-77.65	-3,346.44	-2,998.71	1,486.72	1,371.08	115.64	12.856		
10,100.00	7,235.73	7,232.31	6,930.55	86.34	35.17	-78.12	-3,346.46	-3,053.61	1,481.44	1,362.30	119.14	12.435		
10,200.00	7,235.14	7,290.36	6,937.89	88.94	35.56	-78.41	-3,347.03	-3,111.16	1,479.10	1,356.49	122.62	12.063		
10,232.66	7,234.94	7,309.56	6,939.17	89.80	35.72	-78.46	-3,347.33	-3,130.32	1,478.96	1,355.21	123.74	11.952 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,300.00	7,234.54	7,352.20	6,939.98	91.56	36.11	-78.51	-3,348.22	-3,172.94	1,479.58	1,353.51	126.07	11.736		
10,400.00	7,233.94	7,452.19	6,939.56	94.19	37.30	-78.53	-3,350.55	-3,272.90	1,481.25	1,351.34	129.91	11.402		
10,500.00	7,233.35	7,552.17	6,939.14	96.84	38.79	-78.55	-3,352.87	-3,372.85	1,482.92	1,348.93	133.99	11.067		
10,600.00	7,232.75	7,652.16	6,938.73	99.50	40.52	-78.57	-3,355.20	-3,472.81	1,484.59	1,346.28	138.31	10.734		
10,700.00	7,232.16	7,752.14	6,938.31	102.17	42.46	-78.59	-3,357.52	-3,572.77	1,486.26	1,343.44	142.82	10.406		
10,800.00	7,231.56	7,852.12	6,937.89	104.85	44.57	-78.61	-3,359.85	-3,672.72	1,487.93	1,340.42	147.52	10.087		
10,900.00	7,230.96	7,952.11	6,937.48	107.53	46.82	-78.63	-3,362.17	-3,772.68	1,489.61	1,337.25	152.36	9.777		
11,000.00	7,230.37	8,052.09	6,937.06	110.23	49.19	-78.65	-3,364.50	-3,872.64	1,491.28	1,333.94	157.34	9.478		
11,100.00	7,229.77	8,152.08	6,936.64	112.93	51.67	-78.67	-3,366.82	-3,972.59	1,492.95	1,330.53	162.43	9.192		
11,200.00	7,229.18	8,252.06	6,936.23	115.65	54.24	-78.69	-3,369.15	-4,072.55	1,494.62	1,327.01	167.61	8.917		
11,300.00	7,228.58	8,352.05	6,935.81	118.37	56.88	-78.71	-3,371.47	-4,172.51	1,496.30	1,323.41	172.89	8.655		
11,400.00	7,227.99	8,452.03	6,935.39	121.09	59.59	-78.73	-3,373.80	-4,272.46	1,497.97	1,319.73	178.24	8.404		
11,500.00	7,227.39	8,552.02	6,934.97	123.82	62.36	-78.75	-3,376.12	-4,372.42	1,499.64	1,315.99	183.65	8.166		
11,600.00	7,226.79	8,652.00	6,934.56	126.56	65.18	-78.77	-3,378.45	-4,472.38	1,501.32	1,312.19	189.13	7.938		
11,700.00	7,226.20	8,751.99	6,934.14	129.30	68.05	-78.79	-3,380.77	-4,572.33	1,502.99	1,308.34	194.65	7.722		
11,800.00	7,225.60	8,851.97	6,933.72	132.05	70.96	-78.81	-3,383.10	-4,672.29	1,504.66	1,304.45	200.22	7.515		
11,900.00	7,225.01	8,951.96	6,933.31	134.80	73.90	-78.83	-3,385.42	-4,772.25	1,506.34	1,300.51	205.82	7.319		
12,000.00	7,224.41	9,051.94	6,932.89	137.56	76.87	-78.85	-3,387.75	-4,872.20	1,508.01	1,296.54	211.47	7.131		
12,100.00	7,223.81	9,151.93	6,932.47	140.32	79.87	-78.87	-3,390.07	-4,972.16	1,509.69	1,292.54	217.14	6.952		
12,200.00	7,223.22	9,251.91	6,932.05	143.08	82.90	-78.88	-3,392.40	-5,072.12	1,511.36	1,288.51	222.85	6.782		
12,300.00	7,222.62	9,351.89	6,931.64	145.85	85.94	-78.90	-3,394.72	-5,172.07	1,513.04	1,284.46	228.58	6.619		
12,400.00	7,222.03	9,451.88	6,931.22	148.62	89.01	-78.92	-3,397.05	-5,272.03	1,514.71	1,280.38	234.33	6.464		
12,500.00	7,221.43	9,551.86	6,930.80	151.40	92.09	-78.94	-3,399.37	-5,371.99	1,516.39	1,276.28	240.11	6.315		
12,600.00	7,220.83	9,651.85	6,930.39	154.18	95.19	-78.96	-3,401.70	-5,471.94	1,518.06	1,272.16	245.90	6.173		
12,700.00	7,220.24	9,751.83	6,929.97	156.96	98.31	-78.98	-3,404.02	-5,571.90	1,519.74	1,268.02	251.71	6.038		
12,800.00	7,219.64	9,851.82	6,929.55	159.74	101.44	-79.00	-3,406.35	-5,671.86	1,521.41	1,263.87	257.54	5.907		
12,900.00	7,219.05	9,951.80	6,929.13	162.53	104.58	-79.02	-3,408.67	-5,771.81	1,523.09	1,259.70	263.38	5.783		
13,000.00	7,218.45	10,051.79	6,928.72	165.32	107.73	-79.04	-3,411.00	-5,871.77	1,524.76	1,255.52	269.24	5.663		
13,100.00	7,217.86	10,151.77	6,928.30	168.11	110.89	-79.06	-3,413.32	-5,971.73	1,526.44	1,251.33	275.11	5.548		
13,200.00	7,217.26	10,251.76	6,927.88	170.90	114.06	-79.08	-3,415.65	-6,071.69	1,528.11	1,247.12	280.99	5.438		
13,300.00	7,216.66	10,351.74	6,927.47	173.70	117.24	-79.10	-3,417.97	-6,171.64	1,529.79	1,242.91	286.89	5.332		
13,400.00	7,216.07	10,451.73	6,927.05	176.49	120.43	-79.11	-3,420.30	-6,271.60	1,531.47	1,238.68	292.79	5.231		
13,500.00	7,215.47	10,551.76	6,926.78	179.29	122.47	-79.13	-3,422.63	-6,371.56	1,533.14	1,234.44	298.74	5.157		
13,600.00	7,214.88	10,607.96	6,926.40	182.09	125.41	-79.17	-3,427.12	-6,471.67	1,538.58	1,235.48	303.10	5.076		
13,700.00	7,214.28	10,707.85	6,925.98	184.90	128.59	-79.20	-3,432.33	-6,571.73	1,543.10	1,234.07	309.02	4.993		
13,800.00	7,213.68	10,771.29	6,925.72	187.70	130.61	-79.23	-3,436.19	-6,671.75	1,548.59	1,235.09	313.49	4.940		
13,900.00	7,213.09	10,825.02	6,925.49	190.51	132.32	-79.27	-3,441.03	-6,771.78	1,556.89	1,239.55	317.34	4.906		
14,000.00	7,212.49	10,881.75	6,925.25	193.32	134.11	-79.32	-3,447.78	-6,871.80	1,568.01	1,246.93	321.08	4.883		
14,100.00	7,211.90	10,936.42	6,925.03	196.13	135.81	-79.37	-3,455.86	-6,971.84	1,581.94	1,257.46	324.48	4.875		
14,200.00	7,211.30	10,992.19	6,924.79	198.94	137.54	-79.44	-3,465.69	-7,071.89	1,598.65	1,270.94	327.71	4.878		
14,300.00	7,210.71	11,087.55	6,924.40	201.75	140.48	-79.56	-3,483.87	-7,171.95	1,616.81	1,283.42	333.39	4.850		
14,400.00	7,210.11	11,493.49	6,922.70	204.56	153.43	-79.80	-3,519.80	-7,306.75	1,622.83	1,269.35	353.48	4.591		
14,500.00	7,209.51	11,593.48	6,922.28	207.38	156.68	-79.80	-3,519.78	-7,406.75	1,622.21	1,262.75	359.46	4.513		
14,600.00	7,208.92	11,693.48	6,921.86	210.19	159.94	-79.81	-3,519.77	-7,506.75	1,621.59	1,256.14	365.45	4.437		
14,700.00	7,208.32	11,793.48	6,921.45	213.01	163.20	-79.81	-3,519.76	-7,606.74	1,620.97	1,249.53	371.44	4.364		
14,800.00	7,207.73	11,893.48	6,921.03	215.83	166.47	-79.81	-3,519.74	-7,706.74	1,620.35	1,242.91	377.44	4.293		
14,900.00	7,207.13	11,993.48	6,920.61	218.65	169.73	-79.81	-3,519.73	-7,806.74	1,619.73	1,236.29	383.44	4.224		
15,000.00	7,206.53	12,093.47	6,920.20	221.47	173.00	-79.82	-3,519.72	-7,906.74	1,619.11	1,229.67	389.44	4.158		
15,100.00	7,205.94	12,193.47	6,919.78	224.29	176.27	-79.82	-3,519.70	-8,006.73	1,618.49	1,223.05	395.45	4.093		
15,200.00	7,205.34	12,293.47	6,919.36	227.11	179.55	-79.82	-3,519.69	-8,106.73	1,617.87	1,216.42	401.46	4.030		
15,258.04	7,205.00	12,351.51	6,919.12	228.75	181.45	-79.82	-3,519.68	-8,164.77	1,617.51	1,212.57	404.95	3.994 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	67.00	3.28	0.00	-140.97	-4,029.70	-3,266.46	5,187.75					
100.00	100.00	58.00	100.00	3.28	0.07	-140.97	-4,029.70	-3,266.46	5,187.32	5,183.96	3.36	1,545.121		
200.00	200.00	87.05	915.85	3.34	3.72	-141.18	-4,001.92	-3,220.42	5,186.41	5,179.28	7.13	727.717		
300.00	299.98	975.80	1,013.53	3.44	4.22	34.20	-3,994.43	-3,208.01	5,171.18	5,163.51	7.67	674.285		
400.00	399.84	1,074.12	1,110.79	3.59	4.72	34.38	-3,986.97	-3,195.65	5,153.11	5,144.85	8.26	623.787		
500.00	499.45	1,171.91	1,207.52	3.79	5.23	34.62	-3,979.56	-3,183.37	5,132.21	5,123.31	8.90	576.826		
600.00	598.70	1,269.04	1,303.59	4.03	5.73	34.92	-3,972.19	-3,171.16	5,108.51	5,098.94	9.57	533.708		
700.00	697.47	1,365.39	1,398.90	4.31	6.23	35.29	-3,964.89	-3,159.06	5,082.04	5,071.76	10.28	494.437		
800.00	795.62	1,460.84	1,493.32	4.64	6.73	35.71	-3,957.65	-3,147.06	5,052.84	5,041.83	11.01	458.828		
900.00	893.06	1,555.29	1,586.74	5.00	7.23	36.20	-3,950.49	-3,135.20	5,020.96	5,009.19	11.77	426.600		
1,000.00	989.65	1,648.61	1,679.05	5.40	7.72	36.72	-3,943.41	-3,123.47	4,986.44	4,973.88	12.55	397.253		
1,100.00	1,085.85	1,741.42	1,770.86	5.82	8.20	36.85	-3,936.37	-3,111.81	4,950.83	4,937.50	13.34	371.264		
1,200.00	1,182.06	1,834.24	1,862.67	6.27	8.69	36.99	-3,929.34	-3,100.15	4,915.25	4,901.12	14.14	347.691		
1,300.00	1,278.26	1,927.06	1,954.49	6.73	9.18	37.12	-3,922.30	-3,088.48	4,879.70	4,864.74	14.95	326.307		
1,400.00	1,374.47	2,030.13	2,046.30	7.20	9.72	37.26	-3,915.26	-3,076.82	4,844.17	4,828.34	15.83	305.963		
1,500.00	1,470.67	2,112.69	2,138.11	7.69	10.16	37.40	-3,908.22	-3,065.16	4,808.66	4,792.04	16.63	289.216		
1,600.00	1,566.88	2,205.51	2,229.92	8.18	10.65	37.55	-3,901.18	-3,053.50	4,773.19	4,755.71	17.48	273.107		
1,700.00	1,663.08	2,301.67	2,321.74	8.68	11.15	37.69	-3,894.14	-3,041.83	4,737.73	4,719.38	18.35	258.165		
1,800.00	1,759.29	2,391.15	2,413.55	9.19	11.63	37.84	-3,887.11	-3,030.17	4,702.31	4,683.11	19.20	244.894		
1,900.00	1,855.49	2,483.96	2,505.36	9.70	12.12	37.99	-3,880.07	-3,018.51	4,666.91	4,646.84	20.07	232.503		
2,000.00	1,951.70	2,576.78	2,597.17	10.22	12.61	38.14	-3,873.03	-3,006.85	4,631.54	4,610.60	20.95	221.091		
2,100.00	2,047.90	2,669.60	2,688.99	10.73	13.10	38.29	-3,865.99	-2,995.18	4,596.20	4,574.38	21.83	210.555		
2,200.00	2,144.11	2,762.42	2,780.80	11.26	13.59	38.45	-3,858.95	-2,983.52	4,560.90	4,538.18	22.71	200.804		
2,300.00	2,240.31	2,855.23	2,872.61	11.78	14.08	38.61	-3,851.92	-2,971.86	4,525.62	4,502.02	23.60	191.757		
2,400.00	2,336.52	2,948.05	2,964.42	12.31	14.57	38.77	-3,844.88	-2,960.20	4,490.37	4,465.88	24.49	183.346		
2,500.00	2,432.72	3,040.87	3,056.24	12.84	15.06	38.93	-3,837.84	-2,948.54	4,455.15	4,429.77	25.38	175.507		
2,600.00	2,528.93	3,133.68	3,148.05	13.37	15.55	39.10	-3,830.80	-2,936.87	4,419.97	4,393.69	26.28	168.187		
2,700.00	2,625.13	3,226.50	3,239.86	13.91	16.04	39.26	-3,823.76	-2,925.21	4,384.82	4,357.64	27.18	161.338		
2,800.00	2,721.34	3,320.69	3,331.67	14.44	16.59	39.44	-3,816.73	-2,913.55	4,349.71	4,321.58	28.13	154.627		
2,900.00	2,817.54	3,412.14	3,423.49	14.98	17.03	39.61	-3,809.69	-2,901.89	4,314.63	4,285.65	28.98	148.887		
3,000.00	2,913.75	3,504.95	3,515.30	15.52	17.52	39.79	-3,802.65	-2,890.22	4,279.58	4,249.70	29.88	143.215		
3,100.00	3,009.95	3,602.23	3,607.11	16.06	18.03	39.97	-3,795.61	-2,878.56	4,244.58	4,213.77	30.81	137.776		
3,200.00	3,106.16	3,690.59	3,698.92	16.60	18.50	40.15	-3,788.57	-2,866.90	4,209.61	4,177.91	31.69	132.824		
3,300.00	3,202.37	3,783.41	3,790.74	17.14	18.99	40.33	-3,781.54	-2,855.24	4,174.68	4,142.08	32.60	128.055		
3,400.00	3,298.57	3,876.22	3,882.55	17.68	19.48	40.52	-3,774.50	-2,843.57	4,139.79	4,106.28	33.51	123.541		
3,500.00	3,394.78	3,969.04	3,974.36	18.22	19.97	40.71	-3,767.46	-2,831.91	4,104.94	4,070.52	34.42	119.263		
3,600.00	3,490.98	4,061.86	4,066.17	18.76	20.47	40.91	-3,760.42	-2,820.25	4,070.13	4,034.80	35.33	115.202		
3,700.00	3,587.19	4,154.68	4,157.99	19.31	20.96	41.11	-3,753.38	-2,808.59	4,035.37	3,999.12	36.24	111.343		
3,800.00	3,683.39	4,247.49	4,249.80	19.85	21.45	41.31	-3,746.34	-2,796.92	4,000.65	3,963.49	37.16	107.672		
3,900.00	3,779.60	4,340.31	4,341.61	20.39	21.94	41.51	-3,739.31	-2,785.26	3,965.97	3,927.90	38.07	104.176		
4,000.00	3,875.80	4,433.13	4,433.42	20.94	22.43	41.72	-3,732.27	-2,773.60	3,931.34	3,892.36	38.99	100.842		
4,100.00	3,972.01	4,525.95	4,525.24	21.48	22.92	41.93	-3,725.23	-2,761.94	3,896.76	3,856.86	39.90	97.660		
4,200.00	4,068.21	4,631.26	4,617.05	22.03	23.48	42.15	-3,718.19	-2,750.27	3,862.23	3,821.35	40.88	94.486		
4,300.00	4,164.42	4,711.58	4,708.86	22.57	23.91	42.37	-3,711.15	-2,738.61	3,827.75	3,786.01	41.74	91.712		
4,400.00	4,260.62	4,804.40	4,800.67	23.12	24.40	42.59	-3,704.12	-2,726.95	3,793.32	3,750.66	42.66	88.929		
4,500.00	4,356.83	4,897.22	4,892.48	23.67	24.89	42.82	-3,697.08	-2,715.29	3,758.94	3,715.36	43.58	86.263		
4,600.00	4,453.03	4,990.03	4,984.30	24.21	25.38	43.05	-3,690.04	-2,703.62	3,724.62	3,680.12	44.50	83.707		
4,700.00	4,549.24	5,082.85	5,076.11	24.76	25.87	43.29	-3,683.00	-2,691.96	3,690.35	3,644.93	45.42	81.254		
4,800.00	4,645.44	5,175.67	5,167.92	25.31	26.37	43.53	-3,675.96	-2,680.30	3,656.14	3,609.80	46.34	78.898		
4,900.00	4,741.65	5,268.49	5,259.73	25.86	26.86	43.77	-3,668.93	-2,668.64	3,621.99	3,574.73	47.26	76.634		
5,000.00	4,837.85	5,361.30	5,351.55	26.40	27.35	44.02	-3,661.89	-2,656.97	3,587.90	3,539.72	48.19	74.456		
5,100.00	4,934.06	5,454.12	5,443.36	26.95	27.84	44.28	-3,654.85	-2,645.31	3,553.88	3,504.76	49.11	72.360		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,546.94	5,535.17	27.50	28.33	44.54	-3,647.81	-2,633.65	3,519.92	3,469.88	50.04	70.342		
5,300.00	5,126.47	5,639.76	5,626.98	28.05	28.83	44.80	-3,640.77	-2,621.99	3,486.02	3,435.05	50.97	68.397		
5,400.00	5,222.67	5,732.57	5,718.80	28.60	29.32	45.07	-3,633.73	-2,610.33	3,452.19	3,400.30	51.90	66.522		
5,500.00	5,318.88	5,825.39	5,810.61	29.15	29.81	45.34	-3,626.70	-2,598.66	3,418.44	3,365.61	52.83	64.712		
5,600.00	5,415.08	5,931.82	5,902.42	29.70	30.37	45.62	-3,619.66	-2,587.00	3,384.75	3,330.94	53.82	62.892		
5,700.00	5,511.29	6,011.03	5,994.23	30.25	30.79	45.91	-3,612.62	-2,575.34	3,351.15	3,296.46	54.69	61.278		
5,800.00	5,607.49	6,103.84	6,086.05	30.79	31.29	46.20	-3,605.58	-2,563.68	3,317.61	3,261.99	55.62	59.648		
5,900.00	5,703.70	6,196.66	6,177.86	31.34	31.78	46.49	-3,598.54	-2,552.01	3,284.16	3,227.61	56.55	58.071		
6,000.00	5,799.90	6,289.48	6,269.67	31.89	32.27	46.79	-3,591.51	-2,540.35	3,250.79	3,193.30	57.49	56.546		
6,100.00	5,896.11	6,374.99	6,354.26	32.44	32.72	47.08	-3,585.02	-2,529.61	3,217.51	3,159.10	58.41	55.082		
6,200.00	5,992.32	6,400.00	6,379.05	32.99	32.85	47.17	-3,583.13	-2,526.95	3,185.57	3,126.34	59.23	53.787		
6,300.00	6,088.52	6,414.83	6,393.80	33.54	32.92	47.22	-3,582.02	-2,525.84	3,155.88	3,095.88	60.00	52.602		
6,400.00	6,184.73	6,425.01	6,403.94	34.09	32.97	47.27	-3,581.26	-2,525.28	3,128.60	3,067.88	60.73	51.520		
6,500.00	6,280.93	6,450.00	6,428.85	34.64	33.08	47.38	-3,579.41	-2,524.58	3,103.61	3,042.14	61.46	50.494		
6,600.00	6,377.14	6,473.10	6,451.88	35.19	33.16	47.50	-3,577.71	-2,524.81	3,081.11	3,018.94	62.17	49.562		
6,700.00	6,473.34	6,500.00	6,478.68	35.74	33.26	47.64	-3,575.77	-2,526.13	3,061.16	2,998.31	62.86	48.702		
6,800.00	6,569.55	6,512.03	6,490.64	36.29	33.30	47.71	-3,574.91	-2,527.09	3,043.69	2,980.24	63.45	47.968		
6,900.00	6,665.75	6,525.01	6,503.52	36.84	33.34	43.02	-3,573.99	-2,528.38	3,028.75	2,964.74	64.01	47.318		
7,000.00	6,761.11	6,550.00	6,528.24	37.39	33.41	15.87	-3,572.24	-2,531.60	3,008.55	2,944.00	64.55	46.609		
7,100.00	6,853.41	6,570.22	6,548.14	37.89	33.46	-1.46	-3,570.85	-2,534.92	2,978.96	2,913.99	64.98	45.847		
7,200.00	6,940.36	6,600.00	6,577.23	38.34	33.53	-12.79	-3,568.85	-2,540.95	2,940.55	2,875.18	65.37	44.981		
7,300.00	7,019.83	6,600.00	6,577.23	38.74	33.53	-21.47	-3,568.85	-2,540.95	2,893.74	2,828.22	65.52	44.163		
7,400.00	7,089.85	6,625.01	6,601.42	39.10	33.58	-29.24	-3,567.21	-2,547.07	2,839.52	2,773.76	65.76	43.181		
7,500.00	7,148.71	6,650.00	6,625.34	39.42	33.63	-37.09	-3,565.61	-2,554.12	2,779.03	2,713.07	65.96	42.134		
7,600.00	7,194.95	6,650.00	6,625.34	39.71	33.63	-45.25	-3,565.61	-2,554.12	2,713.40	2,647.41	65.99	41.119		
7,700.00	7,227.43	6,671.82	6,645.98	40.01	33.66	-54.41	-3,564.24	-2,561.05	2,644.04	2,577.84	66.20	39.941		
7,800.00	7,245.37	6,700.00	6,672.28	40.37	33.70	-64.38	-3,562.54	-2,571.03	2,572.92	2,506.39	66.53	38.671		
7,900.00	7,248.84	6,700.00	6,672.28	40.87	33.70	-71.25	-3,562.54	-2,571.03	2,501.21	2,434.39	66.82	37.432		
8,000.00	7,248.24	6,700.00	6,672.28	41.62	33.70	-71.25	-3,562.54	-2,571.03	2,431.21	2,363.94	67.28	36.137		
8,100.00	7,247.65	6,712.27	6,683.58	42.66	33.71	-71.59	-3,561.81	-2,575.74	2,363.26	2,295.27	67.99	34.757		
8,200.00	7,247.05	6,725.01	6,695.23	43.96	33.73	-71.95	-3,561.07	-2,580.87	2,297.48	2,228.57	68.91	33.338		
8,300.00	7,246.46	6,734.68	6,703.99	45.46	33.74	-72.22	-3,560.52	-2,584.91	2,234.03	2,164.00	70.04	31.897		
8,400.00	7,245.86	6,750.00	6,717.75	47.13	33.75	-72.64	-3,559.66	-2,591.58	2,173.11	2,101.69	71.42	30.427		
8,500.00	7,245.27	6,750.00	6,717.75	48.93	33.75	-72.64	-3,559.66	-2,591.58	2,114.97	2,041.99	72.98	28.978		
8,600.00	7,244.67	6,776.18	6,740.89	50.84	33.77	-73.36	-3,558.24	-2,603.75	2,059.55	1,984.66	74.89	27.500		
8,700.00	7,244.07	6,800.00	6,761.49	52.85	33.79	-74.00	-3,556.99	-2,615.64	2,007.34	1,930.32	77.02	26.062		
8,800.00	7,243.48	6,810.78	6,770.66	54.94	33.80	-74.29	-3,556.45	-2,621.28	1,958.32	1,878.97	79.35	24.679		
8,900.00	7,242.88	6,825.01	6,782.63	57.10	33.81	-74.67	-3,555.74	-2,628.95	1,912.82	1,830.90	81.92	23.350		
9,000.00	7,242.29	6,850.00	6,803.21	59.32	33.82	-75.32	-3,554.55	-2,643.07	1,870.91	1,786.21	84.70	22.088		
9,100.00	7,241.69	6,877.21	6,824.98	61.60	33.83	-76.02	-3,553.32	-2,659.35	1,832.77	1,745.12	87.66	20.909		
9,200.00	7,241.09	6,900.00	6,842.66	63.92	33.84	-76.59	-3,552.35	-2,673.68	1,798.53	1,707.78	90.75	19.818		
9,300.00	7,240.50	6,934.53	6,868.45	66.29	33.85	-77.43	-3,550.98	-2,696.59	1,768.22	1,674.27	93.96	18.819		
9,400.00	7,239.90	6,968.16	6,892.35	68.70	33.86	-78.22	-3,549.76	-2,720.22	1,741.90	1,644.66	97.24	17.913		
9,500.00	7,239.31	7,005.64	6,917.48	71.14	33.88	-79.05	-3,548.55	-2,748.00	1,719.51	1,618.95	100.57	17.098		
9,600.00	7,238.71	7,050.00	6,945.05	73.61	33.92	-79.97	-3,547.33	-2,782.71	1,700.96	1,597.06	103.90	16.371		
9,700.00	7,238.11	7,100.00	6,973.16	76.11	33.98	-80.92	-3,546.21	-2,824.04	1,686.06	1,578.84	107.23	15.725		
9,800.00	7,237.52	7,144.73	6,995.49	78.64	34.07	-81.68	-3,545.46	-2,862.77	1,674.53	1,563.97	110.56	15.146		
9,900.00	7,236.92	7,200.00	7,019.26	81.19	34.23	-82.50	-3,544.86	-2,912.65	1,666.11	1,552.24	113.87	14.632		
10,000.00	7,236.33	7,261.11	7,040.41	83.75	34.50	-83.23	-3,544.63	-2,969.96	1,660.46	1,543.25	117.21	14.167		
10,100.00	7,235.73	7,325.01	7,056.57	86.34	34.89	-83.80	-3,544.87	-3,031.76	1,657.23	1,536.67	120.57	13.746		
10,200.00	7,235.14	7,392.78	7,066.86	88.94	35.44	-84.17	-3,545.65	-3,098.70	1,656.15	1,532.16	123.99	13.357		
10,203.73	7,235.11	7,395.33	7,067.11	89.04	35.46	-84.18	-3,545.70	-3,101.23	1,656.15	1,532.03	124.12	13.343 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,462.24	7,070.00	91.56	36.12	-84.29	-3,547.03	-3,168.03	1,657.01	1,529.54	127.47	12.999		
10,400.00	7,233.94	7,562.22	7,069.39	94.19	37.36	-84.30	-3,549.38	-3,267.99	1,658.78	1,527.42	131.36	12.628		
10,500.00	7,233.35	7,662.20	7,068.79	96.84	38.85	-84.31	-3,551.74	-3,367.94	1,660.54	1,525.05	135.49	12.256		
10,600.00	7,232.75	7,762.19	7,068.19	99.50	40.57	-84.31	-3,554.10	-3,467.90	1,662.31	1,522.46	139.85	11.886		
10,700.00	7,232.16	7,862.17	7,067.59	102.17	42.49	-84.32	-3,556.45	-3,567.85	1,664.07	1,519.66	144.41	11.523		
10,800.00	7,231.56	7,962.16	7,066.99	104.85	44.58	-84.32	-3,558.81	-3,667.81	1,665.84	1,516.69	149.15	11.169		
10,900.00	7,230.96	8,062.14	7,066.38	107.53	46.81	-84.33	-3,561.17	-3,767.76	1,667.60	1,513.56	154.04	10.826		
11,000.00	7,230.37	8,162.13	7,065.78	110.23	49.17	-84.33	-3,563.52	-3,867.72	1,669.37	1,510.30	159.07	10.495		
11,100.00	7,229.77	8,262.11	7,065.18	112.93	51.63	-84.34	-3,565.88	-3,967.67	1,671.13	1,506.92	164.21	10.177		
11,200.00	7,229.18	8,362.09	7,064.58	115.65	54.19	-84.35	-3,568.23	-4,067.63	1,672.90	1,503.45	169.45	9.872		
11,300.00	7,228.58	8,462.08	7,063.98	118.37	56.82	-84.35	-3,570.59	-4,167.58	1,674.66	1,499.88	174.78	9.582		
11,400.00	7,227.99	8,562.06	7,063.37	121.09	59.52	-84.36	-3,572.95	-4,267.54	1,676.43	1,496.24	180.18	9.304		
11,500.00	7,227.39	8,662.05	7,062.77	123.82	62.29	-84.36	-3,575.30	-4,367.49	1,678.19	1,492.54	185.66	9.039		
11,600.00	7,226.79	8,762.03	7,062.17	126.56	65.10	-84.37	-3,577.66	-4,467.45	1,679.96	1,488.77	191.19	8.787		
11,700.00	7,226.20	8,862.02	7,061.57	129.30	67.96	-84.38	-3,580.02	-4,567.40	1,681.72	1,484.96	196.77	8.547		
11,800.00	7,225.60	8,962.00	7,060.97	132.05	70.86	-84.38	-3,582.37	-4,667.36	1,683.49	1,481.09	202.39	8.318		
11,900.00	7,225.01	9,061.98	7,060.36	134.80	73.80	-84.39	-3,584.73	-4,767.31	1,685.25	1,477.19	208.06	8.100		
12,000.00	7,224.41	9,161.97	7,059.76	137.56	76.77	-84.39	-3,587.09	-4,867.26	1,687.02	1,473.25	213.76	7.892		
12,100.00	7,223.81	9,261.95	7,059.16	140.32	79.77	-84.40	-3,589.44	-4,967.22	1,688.78	1,469.28	219.50	7.694		
12,200.00	7,223.22	9,361.94	7,058.56	143.08	82.79	-84.40	-3,591.80	-5,067.17	1,690.55	1,465.29	225.26	7.505		
12,300.00	7,222.62	9,461.92	7,057.95	145.85	85.83	-84.41	-3,594.15	-5,167.13	1,692.31	1,461.26	231.05	7.324		
12,400.00	7,222.03	9,561.91	7,057.35	148.62	88.90	-84.41	-3,596.51	-5,267.08	1,694.08	1,457.21	236.87	7.152		
12,500.00	7,221.43	9,661.89	7,056.75	151.40	91.98	-84.42	-3,598.87	-5,367.04	1,695.84	1,453.14	242.70	6.987		
12,600.00	7,220.83	9,761.87	7,056.15	154.18	95.08	-84.43	-3,601.22	-5,466.99	1,697.61	1,449.05	248.56	6.830		
12,700.00	7,220.24	9,861.86	7,055.55	156.96	98.19	-84.43	-3,603.58	-5,566.95	1,699.37	1,444.95	254.43	6.679		
12,800.00	7,219.64	9,961.84	7,054.94	159.74	101.32	-84.44	-3,605.94	-5,666.90	1,701.14	1,440.82	260.32	6.535		
12,900.00	7,219.05	10,061.83	7,054.34	162.53	104.46	-84.44	-3,608.29	-5,766.86	1,702.90	1,436.69	266.22	6.397		
13,000.00	7,218.45	10,161.81	7,053.74	165.32	107.61	-84.45	-3,610.65	-5,866.81	1,704.67	1,432.53	272.14	6.264		
13,100.00	7,217.86	10,261.80	7,053.14	168.11	110.77	-84.45	-3,613.00	-5,966.77	1,706.44	1,428.37	278.07	6.137		
13,200.00	7,217.26	10,361.78	7,052.54	170.90	113.94	-84.46	-3,615.36	-6,066.72	1,708.20	1,424.19	284.01	6.015		
13,300.00	7,216.66	10,461.76	7,051.93	173.70	117.12	-84.46	-3,617.72	-6,166.68	1,709.97	1,420.01	289.96	5.897		
13,400.00	7,216.07	10,561.75	7,051.33	176.49	120.30	-84.47	-3,620.07	-6,266.63	1,711.73	1,415.81	295.92	5.784		
13,500.00	7,215.47	10,661.73	7,050.73	179.29	123.50	-84.48	-3,622.43	-6,366.59	1,713.50	1,411.61	301.89	5.676		
13,600.00	7,214.88	10,761.72	7,050.13	182.09	126.70	-84.48	-3,624.79	-6,466.54	1,715.26	1,407.39	307.87	5.571		
13,700.00	7,214.28	10,861.70	7,049.53	184.90	129.91	-84.49	-3,627.14	-6,566.49	1,717.03	1,403.17	313.86	5.471		
13,800.00	7,213.68	10,961.69	7,048.92	187.70	133.12	-84.49	-3,629.50	-6,666.45	1,718.79	1,398.94	319.85	5.374		
13,900.00	7,213.09	11,061.67	7,048.32	190.51	136.34	-84.50	-3,631.85	-6,766.40	1,720.56	1,394.70	325.86	5.280		
14,000.00	7,212.49	11,161.65	7,047.72	193.32	139.56	-84.50	-3,634.21	-6,866.36	1,722.32	1,390.46	331.86	5.190		
14,100.00	7,211.90	11,261.64	7,047.12	196.13	142.79	-84.51	-3,636.57	-6,966.31	1,724.09	1,386.21	337.88	5.103		
14,200.00	7,211.30	11,361.62	7,046.52	198.94	146.02	-84.51	-3,638.92	-7,066.27	1,725.85	1,381.95	343.90	5.018		
14,300.00	7,210.71	11,461.61	7,045.91	201.75	149.26	-84.52	-3,641.28	-7,166.22	1,727.62	1,377.69	349.93	4.937		
14,400.00	7,210.11	11,561.59	7,045.31	204.56	152.50	-84.52	-3,643.64	-7,266.18	1,729.39	1,373.43	355.96	4.858		
14,500.00	7,209.51	11,661.58	7,044.71	207.38	155.74	-84.53	-3,645.99	-7,366.13	1,731.15	1,369.16	361.99	4.782		
14,600.00	7,208.92	11,761.56	7,044.11	210.19	158.99	-84.54	-3,648.35	-7,466.09	1,732.92	1,364.88	368.04	4.709		
14,700.00	7,208.32	11,861.54	7,043.51	213.01	162.24	-84.54	-3,650.70	-7,566.04	1,734.68	1,360.60	374.08	4.637		
14,800.00	7,207.73	11,961.53	7,042.90	215.83	165.50	-84.55	-3,653.06	-7,666.00	1,736.45	1,356.32	380.13	4.568		
14,900.00	7,207.13	12,061.51	7,042.30	218.65	168.75	-84.55	-3,655.42	-7,765.95	1,738.21	1,352.03	386.18	4.501		
15,000.00	7,206.53	12,161.50	7,041.70	221.47	172.01	-84.56	-3,657.77	-7,865.91	1,739.98	1,347.74	392.24	4.436		
15,100.00	7,205.94	12,261.48	7,041.10	224.29	175.28	-84.56	-3,660.13	-7,965.86	1,741.74	1,343.44	398.30	4.373		
15,200.00	7,205.34	12,361.47	7,040.50	227.11	178.54	-84.57	-3,662.49	-8,065.81	1,743.51	1,339.15	404.36	4.312		
15,258.04	7,205.00	12,430.55	7,040.15	228.75	180.80	-84.57	-3,663.85	-8,123.83	1,744.54	1,336.29	408.25	4.273 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
0.00	0.00	15,808.86	7,242.40	3.28	248.33	0.54	2,343.43	21.90	7,612.13					
100.00	100.00	15,808.61	7,242.41	3.28	248.32	0.53	2,343.43	21.66	7,517.05	7,394.60	122.46	61.386		
200.00	200.00	15,808.37	7,242.41	3.34	248.32	0.52	2,343.43	21.41	7,422.10	7,299.16	122.95	60.368		
300.00	299.98	15,807.98	7,242.41	3.44	248.31	176.16	2,343.44	21.03	7,327.86	7,204.38	123.49	59.340		
400.00	399.84	15,807.31	7,242.41	3.59	248.29	176.47	2,343.44	20.36	7,235.02	7,110.91	124.11	58.294		
500.00	499.45	15,806.36	7,242.41	3.79	248.26	176.71	2,343.44	19.41	7,143.75	7,018.92	124.83	57.227		
600.00	598.70	15,805.13	7,242.41	4.03	248.22	176.91	2,343.44	18.18	7,054.22	6,928.57	125.65	56.142		
700.00	697.47	15,803.62	7,242.42	4.31	248.18	177.08	2,343.44	16.67	6,966.61	6,840.04	126.58	55.039		
800.00	795.62	15,801.84	7,242.42	4.64	248.13	177.21	2,343.45	14.88	6,881.11	6,753.50	127.61	53.922		
900.00	893.06	15,800.29	7,242.43	5.00	248.09	177.33	2,343.45	12.82	6,797.89	6,669.12	128.78	52.788		
1,000.00	989.65	15,802.62	7,242.43	5.40	248.15	177.41	2,343.45	10.49	6,717.14	6,587.03	130.11	51.626		
1,100.00	1,085.85	15,805.07	7,242.44	5.82	248.22	177.37	2,343.46	8.04	6,637.81	6,506.23	131.58	50.448		
1,200.00	1,182.06	15,807.52	7,242.44	6.27	248.29	177.34	2,343.46	5.59	6,559.03	6,425.92	133.11	49.274		
1,300.00	1,278.26	15,809.97	7,242.45	6.73	248.36	177.31	2,343.47	3.14	6,480.84	6,346.13	134.72	48.107		
1,400.00	1,374.47	15,812.41	7,242.46	7.20	248.43	177.27	2,343.47	0.70	6,403.26	6,266.86	136.40	46.946		
1,500.00	1,470.67	15,814.86	7,242.46	7.69	248.50	177.24	2,343.48	-1.75	6,326.31	6,188.16	138.15	45.794		
1,600.00	1,566.88	15,817.31	7,242.47	8.18	248.57	177.20	2,343.48	-4.20	6,250.00	6,110.03	139.97	44.651		
1,700.00	1,663.08	15,819.76	7,242.47	8.68	248.64	177.17	2,343.48	-6.65	6,174.37	6,032.50	141.87	43.520		
1,800.00	1,759.29	15,822.20	7,242.48	9.19	248.71	177.13	2,343.49	-9.09	6,099.45	5,955.60	143.85	42.402		
1,900.00	1,855.49	15,824.65	7,242.49	9.70	248.78	177.10	2,343.49	-11.54	6,025.25	5,879.35	145.90	41.297		
2,000.00	1,951.70	15,827.10	7,242.49	10.22	248.85	177.06	2,343.50	-13.99	5,951.80	5,803.78	148.02	40.209		
2,100.00	2,047.90	15,829.55	7,242.50	10.73	248.91	177.03	2,343.50	-16.44	5,879.14	5,728.92	150.22	39.137		
2,200.00	2,144.11	15,831.99	7,242.50	11.26	248.98	176.99	2,343.51	-18.89	5,807.29	5,654.80	152.49	38.082		
2,300.00	2,240.31	15,834.44	7,242.51	11.78	249.05	176.96	2,343.51	-21.33	5,736.28	5,581.44	154.84	37.047		
2,400.00	2,336.52	15,836.89	7,242.52	12.31	249.12	176.93	2,343.52	-23.78	5,666.14	5,508.89	157.25	36.032		
2,500.00	2,432.72	15,839.34	7,242.52	12.84	249.19	176.89	2,343.52	-26.23	5,596.92	5,437.18	159.74	35.038		
2,600.00	2,528.93	15,841.79	7,242.53	13.37	249.26	176.86	2,343.52	-28.68	5,528.63	5,366.33	162.30	34.065		
2,700.00	2,625.13	15,844.23	7,242.53	13.91	249.33	176.82	2,343.53	-31.12	5,461.32	5,296.40	164.92	33.114		
2,800.00	2,721.34	15,846.68	7,242.54	14.44	249.40	176.79	2,343.53	-33.57	5,395.02	5,227.40	167.62	32.187		
2,900.00	2,817.54	15,849.13	7,242.55	14.98	249.47	176.75	2,343.54	-36.02	5,329.77	5,159.40	170.38	31.282		
3,000.00	2,913.75	15,851.58	7,242.55	15.52	249.54	176.72	2,343.54	-38.47	5,265.61	5,092.41	173.20	30.402		
3,100.00	3,009.95	15,854.02	7,242.56	16.06	249.61	176.68	2,343.55	-40.91	5,202.59	5,026.50	176.09	29.545		
3,200.00	3,106.16	15,856.47	7,242.56	16.60	249.68	176.65	2,343.55	-43.36	5,140.73	4,961.69	179.04	28.713		
3,300.00	3,202.37	15,858.92	7,242.57	17.14	249.75	176.62	2,343.56	-45.81	5,080.09	4,898.04	182.05	27.906		
3,400.00	3,298.57	15,861.37	7,242.58	17.68	249.81	176.58	2,343.56	-48.26	5,020.70	4,835.59	185.11	27.123		
3,500.00	3,394.78	15,863.81	7,242.58	18.22	249.88	176.55	2,343.56	-50.70	4,962.62	4,774.39	188.23	26.365		
3,600.00	3,490.98	15,866.26	7,242.59	18.76	249.95	176.51	2,343.57	-53.15	4,905.89	4,714.50	191.39	25.632		
3,700.00	3,587.19	15,868.71	7,242.59	19.31	250.02	176.48	2,343.57	-55.60	4,850.56	4,655.95	194.61	24.925		
3,800.00	3,683.39	15,871.16	7,242.60	19.85	250.09	176.44	2,343.58	-58.05	4,796.67	4,598.80	197.87	24.242		
3,900.00	3,779.60	15,873.61	7,242.61	20.39	250.16	176.41	2,343.58	-60.50	4,744.27	4,543.11	201.16	23.584		
4,000.00	3,875.80	15,876.05	7,242.61	20.94	250.23	176.37	2,343.59	-62.94	4,693.42	4,488.93	204.49	22.952		
4,100.00	3,972.01	15,878.50	7,242.62	21.48	250.30	176.34	2,343.59	-65.39	4,644.17	4,436.32	207.85	22.344		
4,200.00	4,068.21	15,880.95	7,242.62	22.03	250.37	176.31	2,343.59	-67.84	4,596.56	4,385.33	211.24	21.760		
4,300.00	4,164.42	15,883.40	7,242.63	22.57	250.44	176.27	2,343.60	-70.29	4,550.65	4,336.02	214.64	21.202		
4,400.00	4,260.62	15,885.84	7,242.64	23.12	250.51	176.24	2,343.60	-72.73	4,506.50	4,288.45	218.05	20.667		
4,500.00	4,356.83	15,888.29	7,242.64	23.67	250.58	176.20	2,343.61	-75.18	4,464.14	4,242.67	221.47	20.157		
4,600.00	4,453.03	15,909.33	7,242.65	24.21	251.17	176.17	2,343.61	-77.63	4,423.64	4,198.33	225.30	19.634		
4,700.00	4,549.24	15,906.88	7,242.65	24.76	251.10	176.13	2,343.62	-80.08	4,385.04	4,156.44	228.60	19.182		
4,800.00	4,645.44	15,904.43	7,242.66	25.31	251.03	176.10	2,343.62	-82.52	4,348.40	4,116.52	231.88	18.753		
4,900.00	4,741.65	15,901.98	7,242.67	25.86	250.96	176.06	2,343.63	-84.97	4,313.77	4,078.64	235.13	18.347		
5,000.00	4,837.85	15,900.53	7,242.67	26.40	250.92	176.03	2,343.63	-87.42	4,281.19	4,042.82	238.36	17.961		
5,100.00	4,934.06	15,902.98	7,242.68	26.95	250.99	175.99	2,343.63	-89.87	4,250.71	4,009.06	241.64	17.591		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	15,905.42	7,242.68	27.50	251.06	175.96	2,343.64	-92.32	4,222.38	3,977.50	244.88	17.243		
5,300.00	5,126.47	15,907.87	7,242.69	28.05	251.13	175.93	2,343.64	-94.76	4,196.24	3,948.19	248.05	16.917		
5,400.00	5,222.67	15,910.32	7,242.70	28.60	251.20	175.89	2,343.65	-97.21	4,172.33	3,921.19	251.15	16.613		
5,500.00	5,318.88	15,912.77	7,242.70	29.15	251.27	175.86	2,343.65	-99.66	4,150.70	3,896.53	254.17	16.331		
5,600.00	5,415.08	15,915.22	7,242.71	29.70	251.34	175.82	2,343.66	-102.11	4,131.37	3,874.27	257.10	16.069		
5,700.00	5,511.29	15,917.66	7,242.71	30.25	251.41	175.79	2,343.66	-104.55	4,114.37	3,854.44	259.94	15.828		
5,800.00	5,607.49	15,920.11	7,242.72	30.79	251.48	175.75	2,343.66	-107.00	4,099.75	3,837.08	262.67	15.608		
5,900.00	5,703.70	15,922.56	7,242.73	31.34	251.55	175.72	2,343.67	-109.45	4,087.52	3,822.23	265.29	15.408		
6,000.00	5,799.90	15,925.01	7,242.73	31.89	251.62	175.68	2,343.67	-111.90	4,077.71	3,809.92	267.79	15.228		
6,100.00	5,896.11	15,927.45	7,242.74	32.44	251.68	175.65	2,343.68	-114.34	4,070.32	3,800.17	270.16	15.066		
6,200.00	5,992.32	15,929.90	7,242.74	32.99	251.75	175.61	2,343.68	-116.79	4,065.39	3,792.99	272.40	14.925		
6,300.00	6,088.52	15,932.35	7,242.75	33.54	251.82	175.58	2,343.69	-119.24	4,062.90	3,788.41	274.50	14.801		
6,350.94	6,137.53	15,933.60	7,242.75	33.82	251.86	175.56	2,343.69	-120.49	4,062.59	3,787.07	275.51	14.746 CC		
6,400.00	6,184.73	15,934.80	7,242.76	34.09	251.89	175.55	2,343.69	-121.69	4,062.88	3,786.43	276.46	14.696 ES		
6,500.00	6,280.93	15,937.24	7,242.76	34.64	251.96	175.51	2,343.70	-124.13	4,065.32	3,787.05	278.27	14.609		
6,600.00	6,377.14	15,939.69	7,242.77	35.19	252.03	175.48	2,343.70	-126.58	4,070.21	3,790.28	279.93	14.540		
6,700.00	6,473.34	15,942.14	7,242.77	35.74	252.10	175.44	2,343.70	-129.03	4,077.54	3,796.11	281.44	14.488		
6,800.00	6,569.55	15,944.59	7,242.78	36.29	252.17	175.41	2,343.71	-131.48	4,087.31	3,804.52	282.79	14.454		
6,900.00	6,665.75	15,947.21	7,242.79	36.84	252.24	170.55	2,343.71	-134.10	4,099.50	3,815.50	284.00	14.435		
7,000.00	6,761.11	15,959.80	7,242.82	37.39	252.60	142.90	2,343.74	-146.69	4,114.04	3,828.71	285.33	14.419		
7,100.00	6,853.41	15,987.73	7,242.89	37.89	253.39	125.38	2,343.79	-174.62	4,130.47	3,843.56	286.92	14.396		
7,200.00	6,940.36	16,030.32	7,242.99	38.34	254.59	114.32	2,343.86	-217.21	4,148.08	3,859.33	288.75	14.365		
7,300.00	7,019.83	16,086.53	7,243.13	38.74	256.19	106.68	2,343.96	-273.42	4,165.98	3,875.14	290.84	14.324		
7,400.00	7,089.85	16,154.96	7,243.29	39.10	258.12	101.04	2,344.09	-341.85	4,183.23	3,890.02	293.20	14.267		
7,500.00	7,148.71	16,233.93	7,243.49	39.42	260.36	96.77	2,344.23	-420.82	4,198.84	3,902.98	295.86	14.192		
7,600.00	7,194.95	16,321.50	7,243.70	39.71	262.84	93.60	2,344.39	-508.39	4,211.93	3,913.09	298.84	14.094		
7,700.00	7,227.43	16,415.51	7,243.93	40.01	265.50	91.43	2,344.55	-602.39	4,221.73	3,919.58	302.16	13.972		
7,800.00	7,245.37	16,513.64	7,244.17	40.37	268.28	90.22	2,344.73	-700.53	4,227.68	3,921.89	305.79	13.826		
7,900.00	7,248.84	16,613.50	7,244.41	40.87	271.11	89.94	2,344.91	-800.39	4,229.59	3,919.93	309.67	13.659		
8,000.00	7,248.24	16,713.49	7,244.66	41.62	273.94	89.95	2,345.09	-900.38	4,230.36	3,916.62	313.74	13.484		
8,100.00	7,247.65	16,813.49	7,244.90	42.66	276.78	89.96	2,345.27	-1,000.37	4,231.12	3,913.15	317.97	13.307		
8,200.00	7,247.05	16,913.48	7,245.15	43.96	279.61	89.97	2,345.45	-1,100.37	4,231.88	3,909.53	322.35	13.128		
8,300.00	7,246.46	17,013.47	7,245.39	45.46	282.44	89.98	2,345.63	-1,200.36	4,232.65	3,905.79	326.86	12.950		
8,400.00	7,245.86	17,113.47	7,245.64	47.13	285.28	89.99	2,345.81	-1,300.35	4,233.41	3,901.92	331.48	12.771		
8,500.00	7,245.27	17,213.46	7,245.88	48.93	288.12	90.01	2,345.99	-1,400.34	4,234.17	3,897.96	336.22	12.594		
8,600.00	7,244.67	17,313.45	7,246.12	50.84	290.95	90.02	2,346.17	-1,500.34	4,234.93	3,893.90	341.04	12.418		
8,700.00	7,244.07	17,413.45	7,246.37	52.85	293.79	90.03	2,346.35	-1,600.33	4,235.70	3,889.76	345.94	12.244		
8,800.00	7,243.48	17,513.44	7,246.61	54.94	296.63	90.04	2,346.52	-1,700.32	4,236.46	3,885.54	350.92	12.072		
8,900.00	7,242.88	17,613.43	7,246.86	57.10	299.47	90.05	2,346.70	-1,800.32	4,237.23	3,881.26	355.96	11.904		
9,000.00	7,242.29	17,713.43	7,247.10	59.32	302.30	90.06	2,346.88	-1,900.31	4,237.99	3,876.93	361.06	11.738		
9,100.00	7,241.69	17,813.42	7,247.35	61.60	305.14	90.07	2,347.06	-2,000.30	4,238.75	3,872.55	366.21	11.575		
9,200.00	7,241.09	17,913.42	7,247.59	63.92	307.98	90.09	2,347.24	-2,100.30	4,239.52	3,868.11	371.40	11.415		
9,300.00	7,240.50	18,013.41	7,247.83	66.29	310.82	90.10	2,347.42	-2,200.29	4,240.28	3,863.64	376.64	11.258		
9,400.00	7,239.90	18,113.40	7,248.08	68.70	313.66	90.11	2,347.60	-2,300.28	4,241.05	3,859.14	381.91	11.105		
9,500.00	7,239.31	18,213.40	7,248.32	71.14	316.50	90.12	2,347.78	-2,400.28	4,241.81	3,854.60	387.21	10.955		
9,600.00	7,238.71	18,313.39	7,248.57	73.61	319.34	90.13	2,347.96	-2,500.27	4,242.58	3,850.03	392.55	10.808		
9,700.00	7,238.11	18,413.38	7,248.81	76.11	322.18	90.14	2,348.14	-2,600.26	4,243.34	3,845.44	397.91	10.664		
9,800.00	7,237.52	18,513.38	7,249.06	78.64	325.03	90.15	2,348.32	-2,700.25	4,244.11	3,840.82	403.29	10.524		
9,900.00	7,236.92	18,613.37	7,249.30	81.19	327.87	90.16	2,348.50	-2,800.25	4,244.88	3,836.18	408.69	10.386		
10,000.00	7,236.33	18,713.36	7,249.55	83.75	330.71	90.18	2,348.68	-2,900.24	4,245.64	3,831.52	414.12	10.252		
10,100.00	7,235.73	18,813.36	7,249.79	86.34	333.55	90.19	2,348.86	-3,000.23	4,246.41	3,826.85	419.56	10.121		
10,200.00	7,235.14	18,913.35	7,250.03	88.94	336.39	90.20	2,349.04	-3,100.23	4,247.17	3,822.15	425.02	9.993		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	19,013.34	7,250.28	91.56	339.24	90.21	2,349.22	-3,200.22	4,247.94	3,817.45	430.49	9.868		
10,400.00	7,233.94	19,113.34	7,250.52	94.19	342.08	90.22	2,349.40	-3,300.21	4,248.71	3,812.73	435.98	9.745		
10,500.00	7,233.35	19,118.26	7,250.53	96.84	342.22	90.22	2,349.40	-3,305.13	4,250.54	3,811.96	438.57	9.692		
10,600.00	7,232.75	19,118.26	7,250.53	99.50	342.22	90.22	2,349.40	-3,305.13	4,254.71	3,813.92	440.80	9.652		
10,700.00	7,232.16	19,118.26	7,250.53	102.17	342.22	90.22	2,349.40	-3,305.13	4,261.23	3,818.44	442.79	9.624		
10,800.00	7,231.56	19,118.26	7,250.53	104.85	342.22	90.22	2,349.40	-3,305.13	4,270.09	3,825.53	444.56	9.605		
10,900.00	7,230.96	19,118.26	7,250.53	107.53	342.22	90.22	2,349.40	-3,305.13	4,281.26	3,835.17	446.09	9.597 SF		
11,000.00	7,230.37	19,118.26	7,250.53	110.23	342.22	90.22	2,349.40	-3,305.13	4,294.73	3,847.33	447.40	9.599		
11,100.00	7,229.77	19,118.26	7,250.53	112.93	342.22	90.22	2,349.40	-3,305.13	4,310.48	3,862.01	448.47	9.611		
11,200.00	7,229.18	19,118.26	7,250.53	115.65	342.22	90.22	2,349.40	-3,305.13	4,328.48	3,879.16	449.32	9.633		
11,300.00	7,228.58	19,118.26	7,250.53	118.37	342.22	90.22	2,349.40	-3,305.13	4,348.71	3,898.77	449.95	9.665		
11,400.00	7,227.99	19,118.26	7,250.53	121.09	342.22	90.22	2,349.40	-3,305.13	4,371.13	3,920.78	450.35	9.706		
11,500.00	7,227.39	19,118.26	7,250.53	123.82	342.22	90.22	2,349.40	-3,305.13	4,395.72	3,945.18	450.54	9.756		
11,600.00	7,226.79	19,118.26	7,250.53	126.56	342.22	90.22	2,349.40	-3,305.13	4,422.43	3,971.90	450.53	9.816		
11,700.00	7,226.20	19,118.26	7,250.53	129.30	342.22	90.22	2,349.40	-3,305.13	4,451.23	4,000.91	450.32	9.885		
11,800.00	7,225.60	19,118.26	7,250.53	132.05	342.22	90.22	2,349.40	-3,305.13	4,482.07	4,032.16	449.91	9.962		
11,900.00	7,225.01	19,118.26	7,250.53	134.80	342.22	90.22	2,349.40	-3,305.13	4,514.92	4,065.59	449.32	10.048		
12,000.00	7,224.41	19,118.26	7,250.53	137.56	342.22	90.22	2,349.40	-3,305.13	4,549.72	4,101.17	448.56	10.143		
12,100.00	7,223.81	19,118.26	7,250.53	140.32	342.22	90.22	2,349.40	-3,305.13	4,586.45	4,138.82	447.63	10.246		
12,200.00	7,223.22	19,118.26	7,250.53	143.08	342.22	90.22	2,349.40	-3,305.13	4,625.05	4,178.51	446.54	10.358		
12,300.00	7,222.62	19,118.26	7,250.53	145.85	342.22	90.22	2,349.40	-3,305.13	4,665.47	4,220.16	445.31	10.477		
12,400.00	7,222.03	19,118.26	7,250.53	148.62	342.22	90.22	2,349.40	-3,305.13	4,707.67	4,263.73	443.93	10.604		
12,500.00	7,221.43	19,118.26	7,250.53	151.40	342.22	90.22	2,349.40	-3,305.13	4,751.59	4,309.16	442.43	10.740		
12,600.00	7,220.83	19,118.26	7,250.53	154.18	342.22	90.22	2,349.40	-3,305.13	4,797.20	4,356.40	440.81	10.883		
12,700.00	7,220.24	19,118.26	7,250.53	156.96	342.22	90.22	2,349.40	-3,305.13	4,844.45	4,405.37	439.08	11.033		
12,800.00	7,219.64	19,118.26	7,250.53	159.74	342.22	90.22	2,349.40	-3,305.13	4,893.28	4,456.04	437.24	11.191		
12,900.00	7,219.05	19,118.26	7,250.53	162.53	342.22	90.22	2,349.40	-3,305.13	4,943.66	4,508.34	435.32	11.356		
13,000.00	7,218.45	19,118.26	7,250.53	165.32	342.22	90.22	2,349.40	-3,305.13	4,995.53	4,562.22	433.31	11.529		
13,100.00	7,217.86	19,118.26	7,250.53	168.11	342.22	90.22	2,349.40	-3,305.13	5,048.84	4,617.62	431.22	11.708		
13,200.00	7,217.26	19,118.26	7,250.53	170.90	342.22	90.22	2,349.40	-3,305.13	5,103.56	4,674.50	429.07	11.895		
13,300.00	7,216.66	19,118.26	7,250.53	173.70	342.22	90.22	2,349.40	-3,305.13	5,159.64	4,732.79	426.85	12.088		
13,400.00	7,216.07	19,118.26	7,250.53	176.49	342.22	90.22	2,349.40	-3,305.13	5,217.03	4,792.45	424.58	12.287		
13,500.00	7,215.47	19,118.26	7,250.53	179.29	342.22	90.22	2,349.40	-3,305.13	5,275.69	4,853.43	422.26	12.494		
13,600.00	7,214.88	19,118.26	7,250.53	182.09	342.22	90.22	2,349.40	-3,305.13	5,335.58	4,915.68	419.91	12.707		
13,700.00	7,214.28	19,118.26	7,250.53	184.90	342.22	90.22	2,349.40	-3,305.13	5,396.67	4,979.15	417.52	12.926		
13,800.00	7,213.68	19,118.26	7,250.53	187.70	342.22	90.22	2,349.40	-3,305.13	5,458.89	5,043.80	415.10	13.151		
13,900.00	7,213.09	19,118.26	7,250.53	190.51	342.22	90.22	2,349.40	-3,305.13	5,522.23	5,109.58	412.65	13.382		
14,000.00	7,212.49	19,118.26	7,250.53	193.32	342.22	90.22	2,349.40	-3,305.13	5,586.64	5,176.45	410.19	13.620		
14,100.00	7,211.90	19,118.26	7,250.53	196.13	342.22	90.22	2,349.40	-3,305.13	5,652.09	5,244.37	407.72	13.863		
14,200.00	7,211.30	19,118.26	7,250.53	198.94	342.22	90.22	2,349.40	-3,305.13	5,718.53	5,313.31	405.23	14.112		
14,300.00	7,210.71	19,118.26	7,250.53	201.75	342.22	90.22	2,349.40	-3,305.13	5,785.95	5,383.21	402.74	14.367		
14,400.00	7,210.11	19,118.26	7,250.53	204.56	342.22	90.22	2,349.40	-3,305.13	5,854.29	5,454.04	400.25	14.627		
14,500.00	7,209.51	19,118.26	7,250.53	207.38	342.22	90.22	2,349.40	-3,305.13	5,923.53	5,525.78	397.75	14.892		
14,600.00	7,208.92	19,118.26	7,250.53	210.19	342.22	90.22	2,349.40	-3,305.13	5,993.64	5,598.38	395.27	15.164		
14,700.00	7,208.32	19,118.26	7,250.53	213.01	342.22	90.22	2,349.40	-3,305.13	6,064.59	5,671.81	392.79	15.440		
14,800.00	7,207.73	19,118.26	7,250.53	215.83	342.22	90.22	2,349.40	-3,305.13	6,136.35	5,746.04	390.31	15.722		
14,900.00	7,207.13	19,118.26	7,250.53	218.65	342.22	90.22	2,349.40	-3,305.13	6,208.89	5,821.04	387.86	16.008		
15,000.00	7,206.53	19,118.26	7,250.53	221.47	342.22	90.22	2,349.40	-3,305.13	6,282.19	5,896.77	385.41	16.300		
15,100.00	7,205.94	19,118.26	7,250.53	224.29	342.22	90.22	2,349.40	-3,305.13	6,356.21	5,973.23	382.98	16.597		
15,200.00	7,205.34	19,118.26	7,250.53	227.11	342.22	90.22	2,349.40	-3,305.13	6,430.94	6,050.36	380.57	16.898		
15,258.04	7,205.00	19,118.26	7,250.53	228.75	342.22	90.22	2,349.40	-3,305.13	6,474.62	6,095.44	379.18	17.075		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	15,719.31	7,134.46	3.28	248.11	-0.13	2,183.13	-4.94	7,461.00					
100.00	100.00	15,719.56	7,134.46	3.28	248.12	-0.14	2,183.13	-5.18	7,365.44	7,245.03	120.41	61.169		
200.00	200.00	15,719.80	7,134.46	3.34	248.13	-0.14	2,183.12	-5.43	7,269.99	7,149.11	120.88	60.144		
300.00	299.98	15,720.21	7,134.46	3.44	248.14	175.58	2,183.12	-5.84	7,175.22	7,053.82	121.40	59.106		
400.00	399.84	15,720.94	7,134.46	3.59	248.16	175.95	2,183.11	-6.57	7,081.78	6,959.77	122.00	58.045		
500.00	499.45	15,722.00	7,134.46	3.79	248.19	176.24	2,183.10	-7.62	6,989.84	6,867.13	122.72	56.959		
600.00	598.70	15,723.37	7,134.47	4.03	248.23	176.48	2,183.09	-9.00	6,899.58	6,776.05	123.54	55.850		
700.00	697.47	15,725.07	7,134.47	4.31	248.28	176.68	2,183.07	-10.69	6,811.18	6,686.71	124.47	54.720		
800.00	795.62	15,727.09	7,134.48	4.64	248.33	176.84	2,183.05	-12.71	6,724.81	6,599.28	125.53	53.572		
900.00	893.06	15,729.42	7,134.48	5.00	248.40	176.97	2,183.03	-15.04	6,640.67	6,513.96	126.72	52.406		
1,000.00	989.65	15,732.06	7,134.49	5.40	248.48	177.07	2,183.00	-17.69	6,558.94	6,430.91	128.03	51.229		
1,100.00	1,085.85	15,734.84	7,134.50	5.82	248.55	177.03	2,182.97	-20.46	6,478.58	6,349.11	129.48	50.037		
1,200.00	1,182.06	15,737.61	7,134.50	6.27	248.63	176.99	2,182.94	-23.24	6,398.78	6,267.79	130.99	48.849		
1,300.00	1,278.26	15,740.39	7,134.51	6.73	248.71	176.94	2,182.91	-26.01	6,319.55	6,186.97	132.58	47.665		
1,400.00	1,374.47	15,743.16	7,134.52	7.20	248.79	176.90	2,182.88	-28.79	6,240.92	6,106.67	134.25	46.489		
1,500.00	1,470.67	15,745.94	7,134.52	7.69	248.87	176.86	2,182.86	-31.56	6,162.90	6,026.91	135.99	45.320		
1,600.00	1,566.88	15,748.71	7,134.53	8.18	248.95	176.82	2,182.83	-34.34	6,085.53	5,947.72	137.80	44.161		
1,700.00	1,663.08	15,751.49	7,134.54	8.68	249.02	176.78	2,182.80	-37.11	6,008.82	5,869.12	139.70	43.012		
1,800.00	1,759.29	15,754.26	7,134.54	9.19	249.10	176.74	2,182.77	-39.89	5,932.80	5,791.13	141.67	41.876		
1,900.00	1,855.49	15,757.04	7,134.55	9.70	249.18	176.70	2,182.74	-42.66	5,857.51	5,713.78	143.73	40.754		
2,000.00	1,951.70	15,759.81	7,134.56	10.22	249.26	176.66	2,182.71	-45.44	5,782.96	5,637.10	145.86	39.647		
2,100.00	2,047.90	15,762.59	7,134.56	10.73	249.34	176.62	2,182.69	-48.21	5,709.19	5,561.12	148.07	38.557		
2,200.00	2,144.11	15,765.36	7,134.57	11.26	249.42	176.58	2,182.66	-50.98	5,636.22	5,485.86	150.36	37.485		
2,300.00	2,240.31	15,768.14	7,134.58	11.78	249.49	176.53	2,182.63	-53.76	5,564.10	5,411.37	152.73	36.432		
2,400.00	2,336.52	15,770.91	7,134.58	12.31	249.57	176.49	2,182.60	-56.53	5,492.84	5,337.67	155.17	35.399		
2,500.00	2,432.72	15,773.69	7,134.59	12.84	249.65	176.45	2,182.57	-59.31	5,422.50	5,264.80	157.69	34.386		
2,600.00	2,528.93	15,776.46	7,134.60	13.37	249.73	176.41	2,182.54	-62.08	5,353.09	5,192.80	160.29	33.396		
2,700.00	2,625.13	15,779.24	7,134.60	13.91	249.81	176.37	2,182.52	-64.86	5,284.67	5,121.71	162.96	32.429		
2,800.00	2,721.34	15,782.01	7,134.61	14.44	249.89	176.33	2,182.49	-67.63	5,217.26	5,051.55	165.71	31.485		
2,900.00	2,817.54	15,784.79	7,134.62	14.98	249.96	176.29	2,182.46	-70.41	5,150.91	4,982.39	168.53	30.564		
3,000.00	2,913.75	15,787.56	7,134.62	15.52	250.04	176.25	2,182.43	-73.18	5,085.66	4,914.25	171.42	29.668		
3,100.00	3,009.95	15,809.73	7,134.63	16.06	250.67	176.21	2,182.40	-75.96	5,021.56	4,846.83	174.72	28.740		
3,200.00	3,106.16	15,806.95	7,134.64	16.60	250.59	176.17	2,182.37	-78.73	4,958.64	4,780.98	177.66	27.911		
3,300.00	3,202.37	15,804.18	7,134.65	17.14	250.51	176.12	2,182.34	-81.51	4,896.95	4,716.29	180.65	27.107		
3,400.00	3,298.57	15,798.66	7,134.65	17.68	250.36	176.08	2,182.32	-84.28	4,836.54	4,652.88	183.66	26.335		
3,500.00	3,394.78	15,801.44	7,134.66	18.22	250.43	176.04	2,182.29	-87.06	4,777.46	4,590.58	186.87	25.565		
3,600.00	3,490.98	15,804.21	7,134.67	18.76	250.51	176.00	2,182.26	-89.83	4,719.75	4,529.61	190.15	24.822		
3,700.00	3,587.19	15,806.99	7,134.67	19.31	250.59	175.96	2,182.23	-92.61	4,663.48	4,470.01	193.47	24.104		
3,800.00	3,683.39	15,809.76	7,134.68	19.85	250.67	175.92	2,182.20	-95.38	4,608.68	4,411.84	196.85	23.412		
3,900.00	3,779.60	15,812.54	7,134.69	20.39	250.75	175.88	2,182.17	-98.16	4,555.42	4,355.16	200.27	22.747		
4,000.00	3,875.80	15,815.31	7,134.69	20.94	250.83	175.84	2,182.15	-100.93	4,503.75	4,300.03	203.73	22.107		
4,100.00	3,972.01	15,818.09	7,134.70	21.48	250.91	175.80	2,182.12	-103.71	4,453.73	4,246.51	207.22	21.492		
4,200.00	4,068.21	15,820.86	7,134.71	22.03	250.98	175.76	2,182.09	-106.48	4,405.40	4,194.66	210.75	20.904		
4,300.00	4,164.42	15,823.64	7,134.71	22.57	251.06	175.72	2,182.06	-109.26	4,358.84	4,144.55	214.29	20.341		
4,400.00	4,260.62	15,826.41	7,134.72	23.12	251.14	175.67	2,182.03	-112.03	4,314.08	4,096.23	217.85	19.803		
4,500.00	4,356.83	15,829.19	7,134.73	23.67	251.22	175.63	2,182.00	-114.81	4,271.20	4,049.79	221.41	19.291		
4,600.00	4,453.03	15,831.96	7,134.73	24.21	251.30	175.59	2,181.97	-117.58	4,230.24	4,005.27	224.98	18.803		
4,700.00	4,549.24	15,834.74	7,134.74	24.76	251.38	175.55	2,181.95	-120.36	4,191.27	3,962.74	228.53	18.340		
4,800.00	4,645.44	15,837.51	7,134.75	25.31	251.45	175.51	2,181.92	-123.13	4,154.34	3,922.27	232.07	17.901		
4,900.00	4,741.65	15,840.29	7,134.75	25.86	251.53	175.47	2,181.89	-125.91	4,119.51	3,883.93	235.58	17.487		
5,000.00	4,837.85	15,843.06	7,134.76	26.40	251.61	175.43	2,181.86	-128.68	4,086.82	3,847.77	239.05	17.096		
5,100.00	4,934.06	15,845.84	7,134.77	26.95	251.69	175.39	2,181.83	-131.46	4,056.33	3,813.86	242.47	16.729		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	15,848.61	7,134.77	27.50	251.77	175.35	2,181.80	-134.23	4,028.10	3,782.26	245.84	16.385		
5,300.00	5,126.47	15,851.39	7,134.78	28.05	251.85	175.31	2,181.78	-137.01	4,002.16	3,753.03	249.13	16.064		
5,400.00	5,222.67	15,854.16	7,134.79	28.60	251.92	175.26	2,181.75	-139.78	3,978.57	3,726.21	252.35	15.766		
5,500.00	5,318.88	15,856.94	7,134.79	29.15	252.00	175.22	2,181.72	-142.56	3,957.36	3,701.87	255.48	15.490		
5,600.00	5,415.08	15,859.71	7,134.80	29.70	252.08	175.18	2,181.69	-145.33	3,938.57	3,680.06	258.51	15.236		
5,700.00	5,511.29	15,862.49	7,134.81	30.25	252.16	175.14	2,181.66	-148.11	3,922.24	3,660.81	261.43	15.003		
5,800.00	5,607.49	15,865.26	7,134.81	30.79	252.24	175.10	2,181.63	-150.88	3,908.40	3,644.17	264.24	14.791		
5,900.00	5,703.70	15,868.04	7,134.82	31.34	252.32	175.06	2,181.61	-153.66	3,897.08	3,630.17	266.92	14.600		
6,000.00	5,799.90	15,870.81	7,134.83	31.89	252.40	175.02	2,181.58	-156.43	3,888.30	3,618.84	269.46	14.430		
6,100.00	5,896.11	15,873.59	7,134.83	32.44	252.47	174.98	2,181.55	-159.20	3,882.07	3,610.21	271.86	14.280		
6,200.00	5,992.32	15,876.36	7,134.84	32.99	252.55	174.94	2,181.52	-161.98	3,878.40	3,604.30	274.11	14.149		
6,292.23	6,081.05	15,878.92	7,134.85	33.50	252.62	174.90	2,181.49	-164.54	3,877.31	3,601.26	276.05	14.046 CC		
6,300.00	6,088.52	15,879.14	7,134.85	33.54	252.63	174.90	2,181.49	-164.75	3,877.32	3,601.11	276.20	14.038		
6,400.00	6,184.73	15,881.91	7,134.86	34.09	252.71	174.85	2,181.46	-167.53	3,878.80	3,600.67	278.14	13.946 ES		
6,500.00	6,280.93	15,884.69	7,134.86	34.64	252.79	174.81	2,181.43	-170.30	3,882.87	3,602.96	279.91	13.872		
6,600.00	6,377.14	15,887.46	7,134.87	35.19	252.87	174.77	2,181.41	-173.08	3,889.49	3,607.98	281.52	13.816		
6,700.00	6,473.34	15,909.83	7,134.88	35.74	253.50	174.73	2,181.38	-175.85	3,898.67	3,615.17	283.50	13.752		
6,800.00	6,569.55	15,893.01	7,134.88	36.29	253.02	174.69	2,181.35	-178.63	3,910.39	3,626.17	284.22	13.758		
6,900.00	6,665.75	15,895.96	7,134.89	36.84	253.11	169.79	2,181.32	-181.58	3,924.61	3,639.29	285.33	13.755		
7,000.00	6,761.11	15,908.87	7,134.92	37.39	253.47	141.95	2,181.19	-194.49	3,941.14	3,654.60	286.55	13.754		
7,100.00	6,853.41	15,937.12	7,134.99	37.89	254.27	124.23	2,180.90	-222.74	3,959.40	3,671.38	288.02	13.747		
7,200.00	6,940.36	15,980.01	7,135.09	38.34	255.48	113.00	2,180.46	-265.62	3,978.58	3,688.86	289.73	13.732		
7,300.00	7,019.83	16,036.49	7,135.23	38.74	257.08	105.22	2,179.88	-322.10	3,997.78	3,706.08	291.70	13.705		
7,400.00	7,089.85	16,105.16	7,135.40	39.10	259.02	99.47	2,179.18	-390.76	4,015.96	3,722.02	293.94	13.663		
7,500.00	7,148.71	16,184.34	7,135.59	39.42	261.26	95.13	2,178.36	-469.93	4,032.13	3,735.64	296.49	13.599		
7,600.00	7,194.95	16,272.07	7,135.81	39.71	263.74	91.93	2,177.46	-557.66	4,045.37	3,745.98	299.39	13.512		
7,700.00	7,227.43	16,366.19	7,136.04	40.01	266.40	89.78	2,176.50	-651.78	4,054.89	3,752.24	302.65	13.398		
7,800.00	7,245.37	16,464.39	7,136.28	40.37	269.18	88.63	2,175.49	-749.97	4,060.12	3,753.88	306.24	13.258		
7,900.00	7,248.84	16,564.26	7,136.52	40.87	272.01	88.42	2,174.47	-849.84	4,060.92	3,750.80	310.11	13.095		
8,000.00	7,248.24	16,664.26	7,136.77	41.62	274.84	88.43	2,173.45	-949.83	4,060.45	3,746.27	314.18	12.924		
8,100.00	7,247.65	16,764.25	7,137.01	42.66	277.67	88.44	2,172.42	-1,049.82	4,059.99	3,741.57	318.42	12.751		
8,200.00	7,247.05	16,864.25	7,137.26	43.96	280.50	88.45	2,171.40	-1,149.81	4,059.52	3,736.73	322.80	12.576		
8,300.00	7,246.46	16,964.24	7,137.50	45.46	283.33	88.46	2,170.37	-1,249.80	4,059.06	3,731.75	327.31	12.401		
8,400.00	7,245.86	17,064.24	7,137.74	47.13	286.16	88.48	2,169.35	-1,349.79	4,058.60	3,726.66	331.94	12.227		
8,500.00	7,245.27	17,164.24	7,137.99	48.93	289.00	88.49	2,168.32	-1,449.78	4,058.13	3,721.46	336.67	12.054		
8,600.00	7,244.67	17,264.23	7,138.23	50.84	291.83	88.50	2,167.30	-1,549.77	4,057.67	3,716.18	341.49	11.882		
8,700.00	7,244.07	17,364.23	7,138.48	52.85	294.66	88.51	2,166.27	-1,649.76	4,057.21	3,710.81	346.40	11.712		
8,800.00	7,243.48	17,464.22	7,138.72	54.94	297.50	88.52	2,165.25	-1,749.75	4,056.75	3,705.36	351.38	11.545		
8,900.00	7,242.88	17,564.22	7,138.97	57.10	300.33	88.53	2,164.22	-1,849.74	4,056.28	3,699.86	356.42	11.380		
9,000.00	7,242.29	17,664.21	7,139.21	59.32	303.17	88.55	2,163.20	-1,949.73	4,055.82	3,694.30	361.52	11.219		
9,100.00	7,241.69	17,764.21	7,139.45	61.60	306.00	88.56	2,162.17	-2,049.72	4,055.36	3,688.68	366.68	11.060		
9,200.00	7,241.09	17,864.20	7,139.70	63.92	308.84	88.57	2,161.15	-2,149.71	4,054.90	3,683.03	371.87	10.904		
9,300.00	7,240.50	17,964.20	7,139.94	66.29	311.68	88.58	2,160.12	-2,249.70	4,054.44	3,677.33	377.11	10.751		
9,400.00	7,239.90	18,064.19	7,140.19	68.70	314.51	88.59	2,159.10	-2,349.69	4,053.97	3,671.59	382.38	10.602		
9,500.00	7,239.31	18,164.19	7,140.43	71.14	317.35	88.60	2,158.07	-2,449.68	4,053.51	3,665.83	387.68	10.456		
9,600.00	7,238.71	18,264.19	7,140.68	73.61	320.19	88.62	2,157.05	-2,549.67	4,053.05	3,660.03	393.02	10.313		
9,700.00	7,238.11	18,364.18	7,140.92	76.11	323.02	88.63	2,156.03	-2,649.66	4,052.59	3,654.21	398.38	10.173		
9,800.00	7,237.52	18,464.18	7,141.16	78.64	325.86	88.64	2,155.00	-2,749.65	4,052.13	3,648.37	403.76	10.036		
9,900.00	7,236.92	18,564.17	7,141.41	81.19	328.70	88.65	2,153.98	-2,849.64	4,051.67	3,642.50	409.17	9.902		
10,000.00	7,236.33	18,664.17	7,141.65	83.75	331.54	88.66	2,152.95	-2,949.63	4,051.21	3,636.61	414.59	9.772		
10,100.00	7,235.73	18,764.16	7,141.90	86.34	334.38	88.67	2,151.93	-3,049.62	4,050.75	3,630.71	420.04	9.644		
10,200.00	7,235.14	18,864.16	7,142.14	88.94	337.22	88.69	2,150.90	-3,149.61	4,050.29	3,624.79	425.49	9.519		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	18,964.15	7,142.39	91.56	340.06	88.70	2,149.88	-3,249.60	4,049.83	3,618.86	430.97	9.397		
10,372.81	7,234.11	19,018.34	7,142.52	93.48	341.60	88.70	2,149.32	-3,303.78	4,049.53	3,615.12	434.41	9.322		
10,400.00	7,233.94	19,018.34	7,142.52	94.19	341.60	88.70	2,149.32	-3,303.78	4,049.63	3,614.54	435.09	9.308		
10,500.00	7,233.35	19,018.34	7,142.52	96.84	341.60	88.70	2,149.32	-3,303.78	4,051.53	3,614.11	437.42	9.262		
10,600.00	7,232.75	19,018.34	7,142.52	99.50	341.60	88.70	2,149.32	-3,303.78	4,055.90	3,616.39	439.51	9.228		
10,700.00	7,232.16	19,018.34	7,142.52	102.17	341.60	88.70	2,149.32	-3,303.78	4,062.73	3,621.38	441.35	9.205		
10,800.00	7,231.56	19,018.34	7,142.52	104.85	341.60	88.70	2,149.32	-3,303.78	4,072.00	3,629.07	442.93	9.193		
10,900.00	7,230.96	19,018.34	7,142.52	107.53	341.60	88.70	2,149.32	-3,303.78	4,083.71	3,639.44	444.26	9.192 SF		
11,000.00	7,230.37	19,018.34	7,142.52	110.23	341.60	88.70	2,149.32	-3,303.78	4,097.82	3,652.47	445.34	9.201		
11,100.00	7,229.77	19,018.34	7,142.52	112.93	341.60	88.70	2,149.32	-3,303.78	4,114.31	3,668.13	446.17	9.221		
11,200.00	7,229.18	19,018.34	7,142.52	115.65	341.60	88.70	2,149.32	-3,303.78	4,133.16	3,686.40	446.76	9.251		
11,300.00	7,228.58	19,018.34	7,142.52	118.37	341.60	88.70	2,149.32	-3,303.78	4,154.32	3,707.22	447.10	9.292		
11,400.00	7,227.99	19,018.34	7,142.52	121.09	341.60	88.70	2,149.32	-3,303.78	4,177.78	3,730.56	447.22	9.342		
11,500.00	7,227.39	19,018.34	7,142.52	123.82	341.60	88.70	2,149.32	-3,303.78	4,203.49	3,756.39	447.10	9.402		
11,600.00	7,226.79	19,018.34	7,142.52	126.56	341.60	88.70	2,149.32	-3,303.78	4,231.40	3,784.63	446.76	9.471		
11,700.00	7,226.20	19,018.34	7,142.52	129.30	341.60	88.70	2,149.32	-3,303.78	4,261.47	3,815.26	446.22	9.550		
11,800.00	7,225.60	19,018.34	7,142.52	132.05	341.60	88.70	2,149.32	-3,303.78	4,293.67	3,848.20	445.47	9.639		
11,900.00	7,225.01	19,018.34	7,142.52	134.80	341.60	88.70	2,149.32	-3,303.78	4,327.94	3,883.40	444.53	9.736		
12,000.00	7,224.41	19,018.34	7,142.52	137.56	341.60	88.70	2,149.32	-3,303.78	4,364.23	3,920.81	443.41	9.842		
12,100.00	7,223.81	19,018.34	7,142.52	140.32	341.60	88.70	2,149.32	-3,303.78	4,402.49	3,960.36	442.13	9.958		
12,200.00	7,223.22	19,018.34	7,142.52	143.08	341.60	88.70	2,149.32	-3,303.78	4,442.67	4,002.00	440.68	10.081		
12,300.00	7,222.62	19,018.34	7,142.52	145.85	341.60	88.70	2,149.32	-3,303.78	4,484.73	4,045.64	439.08	10.214		
12,400.00	7,222.03	19,018.34	7,142.52	148.62	341.60	88.70	2,149.32	-3,303.78	4,528.60	4,091.25	437.35	10.355		
12,500.00	7,221.43	19,018.34	7,142.52	151.40	341.60	88.70	2,149.32	-3,303.78	4,574.24	4,138.75	435.49	10.504		
12,600.00	7,220.83	19,018.34	7,142.52	154.18	341.60	88.70	2,149.32	-3,303.78	4,621.59	4,188.07	433.52	10.661		
12,700.00	7,220.24	19,018.34	7,142.52	156.96	341.60	88.70	2,149.32	-3,303.78	4,670.60	4,239.17	431.44	10.826		
12,800.00	7,219.64	19,018.34	7,142.52	159.74	341.60	88.70	2,149.32	-3,303.78	4,721.23	4,291.97	429.26	10.999		
12,900.00	7,219.05	19,018.34	7,142.52	162.53	341.60	88.70	2,149.32	-3,303.78	4,773.41	4,346.41	427.00	11.179		
13,000.00	7,218.45	19,018.34	7,142.52	165.32	341.60	88.70	2,149.32	-3,303.78	4,827.10	4,402.44	424.66	11.367		
13,100.00	7,217.86	19,018.34	7,142.52	168.11	341.60	88.70	2,149.32	-3,303.78	4,882.24	4,459.99	422.25	11.562		
13,200.00	7,217.26	19,018.34	7,142.52	170.90	341.60	88.70	2,149.32	-3,303.78	4,938.80	4,519.02	419.78	11.765		
13,300.00	7,216.66	19,018.34	7,142.52	173.70	341.60	88.70	2,149.32	-3,303.78	4,996.72	4,579.45	417.26	11.975		
13,400.00	7,216.07	19,018.34	7,142.52	176.49	341.60	88.70	2,149.32	-3,303.78	5,055.95	4,641.25	414.70	12.192		
13,500.00	7,215.47	19,018.34	7,142.52	179.29	341.60	88.70	2,149.32	-3,303.78	5,116.45	4,704.35	412.10	12.416		
13,600.00	7,214.88	19,018.34	7,142.52	182.09	341.60	88.70	2,149.32	-3,303.78	5,178.17	4,768.70	409.47	12.646		
13,700.00	7,214.28	19,018.34	7,142.52	184.90	341.60	88.70	2,149.32	-3,303.78	5,241.08	4,834.27	406.81	12.883		
13,800.00	7,213.68	19,018.34	7,142.52	187.70	341.60	88.70	2,149.32	-3,303.78	5,305.13	4,900.98	404.14	13.127		
13,900.00	7,213.09	19,018.34	7,142.52	190.51	341.60	88.70	2,149.32	-3,303.78	5,370.27	4,968.81	401.46	13.377		
14,000.00	7,212.49	19,018.34	7,142.52	193.32	341.60	88.70	2,149.32	-3,303.78	5,436.47	5,037.71	398.76	13.633		
14,100.00	7,211.90	19,018.34	7,142.52	196.13	341.60	88.70	2,149.32	-3,303.78	5,503.70	5,107.63	396.06	13.896		
14,200.00	7,211.30	19,018.34	7,142.52	198.94	341.60	88.70	2,149.32	-3,303.78	5,571.90	5,178.54	393.37	14.165		
14,300.00	7,210.71	19,018.34	7,142.52	201.75	341.60	88.70	2,149.32	-3,303.78	5,641.06	5,250.39	390.67	14.439		
14,400.00	7,210.11	19,018.34	7,142.52	204.56	341.60	88.70	2,149.32	-3,303.78	5,711.13	5,323.14	387.99	14.720		
14,500.00	7,209.51	19,018.34	7,142.52	207.38	341.60	88.70	2,149.32	-3,303.78	5,782.08	5,396.77	385.31	15.006		
14,600.00	7,208.92	19,018.34	7,142.52	210.19	341.60	88.70	2,149.32	-3,303.78	5,853.88	5,471.23	382.65	15.298		
14,700.00	7,208.32	19,018.34	7,142.52	213.01	341.60	88.70	2,149.32	-3,303.78	5,926.49	5,546.49	380.01	15.596		
14,800.00	7,207.73	19,018.34	7,142.52	215.83	341.60	88.70	2,149.32	-3,303.78	5,999.89	5,622.51	377.38	15.899		
14,900.00	7,207.13	19,018.34	7,142.52	218.65	341.60	88.70	2,149.32	-3,303.78	6,074.06	5,699.28	374.77	16.207		
15,000.00	7,206.53	19,018.34	7,142.52	221.47	341.60	88.70	2,149.32	-3,303.78	6,148.95	5,776.76	372.19	16.521		
15,100.00	7,205.94	19,018.34	7,142.52	224.29	341.60	88.70	2,149.32	-3,303.78	6,224.55	5,854.92	369.63	16.840		
15,200.00	7,205.34	19,018.34	7,142.52	227.11	341.60	88.70	2,149.32	-3,303.78	6,300.83	5,933.73	367.10	17.164		
15,258.04	7,205.00	19,018.34	7,142.52	228.75	341.60	88.70	2,149.32	-3,303.78	6,345.41	5,979.77	365.64	17.354		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1,492.37	1,539.90	3.28	8.02	-117.16	-3,856.94	-7,518.81	8,589.51					
100.00	100.00	1,523.61	1,570.59	3.28	8.19	-117.14	-3,852.60	-7,514.89	8,571.97	8,561.14	10.83	791.425		
200.00	200.00	1,584.00	1,630.02	3.34	8.51	-117.12	-3,844.49	-7,507.93	8,555.36	8,544.24	11.12	769.291		
300.00	299.98	1,598.92	1,644.72	3.44	8.59	58.44	-3,842.52	-7,506.32	8,538.30	8,527.04	11.26	758.297		
400.00	399.84	1,710.04	1,754.09	3.59	9.16	58.85	-3,826.95	-7,494.35	8,519.56	8,507.68	11.88	716.991		
500.00	499.45	1,773.00	1,816.12	3.79	9.49	59.27	-3,818.44	-7,487.72	8,499.49	8,487.16	12.34	688.931		
600.00	598.70	1,862.08	1,903.97	4.03	9.95	59.75	-3,807.14	-7,478.19	8,477.97	8,465.02	12.95	654.563		
700.00	697.47	1,917.95	1,959.08	4.31	10.24	60.24	-3,800.15	-7,472.23	8,454.90	8,441.44	13.46	628.180		
800.00	795.62	2,121.65	2,159.93	4.64	11.31	61.03	-3,774.09	-7,450.55	8,430.39	8,415.71	14.67	574.518		
900.00	893.06	2,302.17	2,337.58	5.00	12.29	61.86	-3,751.33	-7,428.00	8,402.41	8,386.59	15.82	531.116		
1,000.00	989.65	2,506.00	2,537.66	5.40	13.43	62.80	-3,724.12	-7,400.24	8,371.47	8,354.36	17.11	489.172		
1,100.00	1,085.85	2,558.88	2,589.57	5.82	13.73	62.92	-3,717.19	-7,392.90	8,340.20	8,322.47	17.74	470.213		
1,200.00	1,182.06	2,880.03	2,903.89	6.27	15.60	63.64	-3,671.10	-7,346.16	8,307.98	8,288.36	19.62	423.541		
1,300.00	1,278.26	2,923.75	2,946.58	6.73	15.87	63.75	-3,664.39	-7,339.49	8,274.87	8,254.62	20.24	408.767		
1,400.00	1,374.47	2,967.77	2,989.62	7.20	16.13	63.85	-3,657.87	-7,332.91	8,242.36	8,221.47	20.89	394.550		
1,500.00	1,470.67	1,500.00	3,120.14	7.69	7.67	64.15	-3,639.14	-7,312.48	8,209.95	8,195.33	14.63	561.362		
1,600.00	1,566.88	3,162.83	3,180.37	8.18	17.30	64.29	-3,630.75	-7,302.53	8,177.27	8,154.57	22.70	360.170		
1,700.00	1,663.08	3,200.00	3,216.79	8.68	17.52	64.38	-3,625.89	-7,296.89	8,145.51	8,122.15	23.35	348.774		
1,800.00	1,759.29	3,323.49	3,337.76	9.19	18.24	64.66	-3,609.69	-7,278.09	8,113.83	8,089.44	24.40	332.587		
1,900.00	1,855.49	3,391.00	3,403.90	9.70	18.64	64.81	-3,600.83	-7,267.89	8,082.36	8,057.16	25.20	320.749		
2,000.00	1,951.70	3,391.00	3,403.90	10.22	18.64	64.81	-3,600.83	-7,267.89	8,051.54	8,025.83	25.71	313.155		
2,100.00	2,047.90	3,433.35	3,445.47	10.73	18.88	64.91	-3,595.32	-7,261.93	8,021.42	7,995.01	26.42	303.651		
2,200.00	2,144.11	3,486.00	3,497.27	11.26	19.18	65.03	-3,588.48	-7,255.47	7,992.46	7,965.29	27.17	294.126		
2,300.00	2,240.31	3,486.00	3,497.27	11.78	19.18	65.03	-3,588.48	-7,255.47	7,963.98	7,936.28	27.70	287.466		
2,400.00	2,336.52	3,581.00	3,590.77	12.31	19.70	65.27	-3,575.80	-7,244.42	7,935.91	7,907.25	28.66	276.898		
2,500.00	2,432.72	3,619.13	3,628.28	12.84	19.91	65.36	-3,570.52	-7,240.14	7,908.32	7,878.95	29.37	269.263		
2,600.00	2,528.93	3,642.96	3,651.76	13.37	20.04	65.42	-3,567.16	-7,237.78	7,881.67	7,851.65	30.02	262.544		
2,700.00	2,625.13	4,091.47	4,091.48	13.91	22.63	66.62	-3,495.16	-7,187.61	7,852.98	7,820.37	32.61	240.835		
2,800.00	2,721.34	2,800.00	4,217.84	14.44	15.03	66.94	-3,477.83	-7,168.62	7,822.87	7,795.88	26.99	289.833		
2,900.00	2,817.54	4,287.46	4,283.46	14.98	23.79	67.11	-3,468.85	-7,158.27	7,792.32	7,757.75	34.58	225.373		
3,000.00	2,913.75	4,343.00	4,337.99	15.52	24.11	67.24	-3,461.70	-7,150.51	7,762.96	7,727.58	35.38	219.404		
3,100.00	3,009.95	4,343.00	4,337.99	16.06	24.11	67.24	-3,461.70	-7,150.51	7,734.00	7,698.05	35.96	215.096		
3,200.00	3,106.16	4,416.58	4,410.32	16.60	24.53	67.43	-3,452.19	-7,140.97	7,705.96	7,669.12	36.85	209.141		
3,300.00	3,202.37	4,474.41	4,467.14	17.14	24.86	67.58	-3,444.40	-7,133.58	7,678.11	7,640.44	37.67	203.813		
3,400.00	3,298.57	4,534.00	4,525.77	17.68	25.20	67.73	-3,436.51	-7,126.39	7,650.97	7,612.46	38.51	198.677		
3,500.00	3,394.78	4,579.63	4,570.72	18.22	25.45	67.85	-3,430.74	-7,121.02	7,624.38	7,585.10	39.29	194.074		
3,600.00	3,490.98	4,629.00	4,619.39	18.76	25.72	67.97	-3,424.93	-7,115.13	7,598.26	7,558.18	40.08	189.578		
3,700.00	3,587.19	4,665.96	4,655.87	19.31	25.92	68.07	-3,420.82	-7,110.87	7,572.87	7,532.05	40.82	185.522		
3,800.00	3,683.39	4,724.00	4,713.28	19.85	26.23	68.21	-3,414.69	-7,104.94	7,548.58	7,506.93	41.65	181.246		
3,900.00	3,779.60	4,724.00	4,713.28	20.39	26.23	68.21	-3,414.69	-7,104.94	7,524.81	7,482.58	42.23	178.166		
4,000.00	3,875.80	4,819.00	4,807.35	20.94	26.71	68.44	-3,405.34	-7,095.50	7,501.45	7,458.24	43.22	173.579		
4,100.00	3,972.01	4,871.77	4,859.63	21.48	26.98	68.57	-3,400.46	-7,090.26	7,478.55	7,434.53	44.02	169.885		
4,200.00	4,068.21	4,915.00	4,902.51	22.03	27.19	68.67	-3,396.63	-7,086.38	7,456.54	7,411.75	44.79	166.485		
4,300.00	4,164.42	4,915.00	4,902.51	22.57	27.19	68.67	-3,396.63	-7,086.38	7,435.48	7,390.11	45.37	163.868		
4,400.00	4,260.62	4,998.71	4,985.65	23.12	27.59	68.88	-3,389.46	-7,079.69	7,414.78	7,368.47	46.31	160.122		
4,500.00	4,356.83	5,045.87	5,032.52	23.67	27.82	68.99	-3,385.54	-7,076.30	7,394.96	7,347.87	47.09	157.041		
4,600.00	4,453.03	5,104.00	5,090.34	24.21	28.09	69.14	-3,380.81	-7,072.52	7,375.86	7,327.94	47.92	153.927		
4,700.00	4,549.24	5,104.00	5,090.34	24.76	28.09	69.14	-3,380.81	-7,072.52	7,357.61	7,309.11	48.50	151.700		
4,800.00	4,645.44	5,175.67	5,161.70	25.31	28.41	69.31	-3,375.52	-7,068.45	7,339.88	7,290.50	49.38	148.652		
4,900.00	4,741.65	5,216.49	5,202.38	25.86	28.58	69.41	-3,372.91	-7,066.43	7,323.09	7,272.97	50.12	146.098		
5,000.00	4,837.85	5,294.00	5,279.71	26.40	28.92	69.59	-3,368.77	-7,063.18	7,307.32	7,256.30	51.02	143.212		
5,100.00	4,934.06	5,294.00	5,279.71	26.95	28.92	69.59	-3,368.77	-7,063.18	7,291.94	7,240.34	51.60	141.316		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,362.76	5,348.36	27.50	29.19	69.74	-3,365.75	-7,060.78	7,277.40	7,224.95	52.45	138.748		
5,300.00	5,126.47	5,424.53	5,410.05	28.05	29.44	69.88	-3,363.34	-7,058.84	7,263.41	7,210.14	53.27	136.346		
5,400.00	5,222.67	5,486.51	5,471.97	28.60	29.68	70.02	-3,361.19	-7,057.10	7,249.96	7,195.87	54.09	134.025		
5,500.00	5,318.88	5,579.00	5,564.40	29.15	30.05	70.23	-3,358.52	-7,054.91	7,237.15	7,182.11	55.04	131.487		
5,600.00	5,415.08	5,670.89	5,656.27	29.70	30.17	70.30	-3,357.74	-7,054.26	7,224.68	7,168.95	55.74	129.625		
5,700.00	5,511.29	5,673.10	5,658.46	30.25	30.40	70.43	-3,356.37	-7,053.18	7,212.85	7,156.30	56.55	127.550		
5,800.00	5,607.49	5,735.46	5,720.80	30.79	30.63	70.57	-3,355.21	-7,052.34	7,201.57	7,144.20	57.36	125.543		
5,900.00	5,703.70	5,797.96	5,783.29	31.34	30.86	70.70	-3,354.27	-7,051.73	7,190.82	7,132.65	58.18	123.602		
6,000.00	5,799.90	5,864.00	5,849.32	31.89	31.11	70.84	-3,353.50	-7,051.35	7,180.62	7,121.62	59.00	121.696		
6,100.00	5,896.11	5,932.36	5,917.68	32.44	31.34	70.99	-3,352.85	-7,051.20	7,170.91	7,111.07	59.83	119.850		
6,200.00	5,992.32	6,004.66	5,989.98	32.99	31.60	71.14	-3,352.19	-7,051.28	7,161.60	7,100.93	60.68	118.030		
6,300.00	6,088.52	6,077.00	6,062.31	33.54	31.85	71.30	-3,351.56	-7,051.59	7,152.72	7,091.20	61.52	116.269		
6,400.00	6,184.73	6,151.00	6,136.31	34.09	32.11	71.46	-3,350.96	-7,052.16	7,144.25	7,081.88	62.37	114.549		
6,500.00	6,280.93	6,254.73	6,240.04	34.64	32.47	71.68	-3,350.06	-7,053.07	7,135.98	7,072.64	63.34	112.664		
6,600.00	6,377.14	6,360.77	6,346.06	35.19	32.85	71.92	-3,348.96	-7,053.90	7,127.67	7,063.36	64.32	110.819		
6,700.00	6,473.34	6,466.69	6,451.97	35.74	33.22	72.15	-3,347.69	-7,054.61	7,119.34	7,054.04	65.30	109.030		
6,800.00	6,569.55	6,544.56	6,529.84	36.29	33.50	72.32	-3,346.70	-7,055.25	7,111.21	7,045.04	66.17	107.467		
6,900.00	6,665.75	6,628.54	6,613.80	36.84	33.80	72.83	-3,345.58	-7,056.07	7,103.17	7,036.10	67.07	105.911		
7,000.00	6,761.11	6,711.87	6,697.12	37.39	34.10	73.39	-3,344.42	-7,057.04	7,085.71	7,017.77	67.94	104.293		
7,100.00	6,853.41	6,778.06	6,763.29	37.89	34.33	73.89	-3,343.52	-7,057.98	7,053.76	6,985.07	68.69	102.693		
7,200.00	6,940.36	6,838.61	6,823.83	38.34	34.54	74.39	-3,342.82	-7,059.05	7,008.15	6,938.80	69.35	101.054		
7,300.00	7,019.83	6,894.45	6,879.66	38.74	34.74	74.82	-3,342.29	-7,060.22	6,949.91	6,879.97	69.93	99.382		
7,400.00	7,089.85	6,944.24	6,929.43	39.10	34.91	75.24	-3,341.89	-7,061.42	6,880.36	6,809.94	70.42	97.707		
7,500.00	7,148.71	6,986.75	6,971.93	39.42	35.06	75.68	-3,341.62	-7,062.56	6,801.12	6,730.32	70.80	96.058		
7,600.00	7,194.95	7,024.73	7,009.89	39.71	35.19	76.08	-3,341.41	-7,063.65	6,714.04	6,642.95	71.09	94.442		
7,700.00	7,227.43	7,058.22	7,043.36	40.01	35.31	76.45	-3,341.15	-7,064.66	6,621.16	6,549.87	71.29	92.877		
7,800.00	7,245.37	7,078.13	7,063.26	40.37	35.38	76.82	-3,340.94	-7,065.28	6,524.76	6,453.39	71.36	91.429		
7,900.00	7,248.84	7,084.41	7,069.54	40.87	35.40	77.18	-3,340.87	-7,065.48	6,427.21	6,355.88	71.33	90.100		
8,000.00	7,248.24	7,086.84	7,071.97	41.62	35.41	77.58	-3,340.84	-7,065.55	6,329.75	6,258.46	71.28	88.795		
8,100.00	7,247.65	7,089.29	7,074.41	42.66	35.42	77.98	-3,340.81	-7,065.63	6,232.36	6,161.11	71.25	87.475		
8,200.00	7,247.05	7,091.74	7,076.87	43.96	35.43	78.38	-3,340.78	-7,065.71	6,135.06	6,063.83	71.22	86.139		
8,300.00	7,246.46	7,094.22	7,079.34	45.46	35.44	78.78	-3,340.75	-7,065.79	6,037.84	5,966.63	71.21	84.786		
8,400.00	7,245.86	7,096.70	7,081.82	47.13	35.45	79.18	-3,340.72	-7,065.86	5,940.71	5,869.49	71.22	83.416		
8,500.00	7,245.27	7,099.20	7,084.32	48.93	35.46	79.58	-3,340.69	-7,065.94	5,843.68	5,772.44	71.24	82.027		
8,600.00	7,244.67	7,101.71	7,086.83	50.84	35.46	80.00	-3,340.65	-7,066.02	5,746.75	5,675.47	71.28	80.619		
8,700.00	7,244.07	7,104.24	7,089.35	52.85	35.47	80.48	-3,340.62	-7,066.10	5,649.93	5,578.58	71.34	79.192		
8,800.00	7,243.48	7,106.78	7,091.89	54.94	35.48	81.00	-3,340.58	-7,066.19	5,553.22	5,481.79	71.43	77.744		
8,900.00	7,242.88	7,109.33	7,094.45	57.10	35.49	81.58	-3,340.55	-7,066.27	5,456.62	5,385.08	71.54	76.275		
9,000.00	7,242.29	7,111.90	7,097.01	59.32	35.50	82.20	-3,340.51	-7,066.35	5,360.15	5,288.48	71.68	74.784		
9,100.00	7,241.69	7,114.48	7,099.59	61.60	35.51	82.88	-3,340.47	-7,066.43	5,263.81	5,191.97	71.84	73.270		
9,200.00	7,241.09	7,117.08	7,102.19	63.92	35.52	83.60	-3,340.44	-7,066.52	5,167.61	5,095.57	72.04	71.734		
9,300.00	7,240.50	7,119.69	7,104.80	66.29	35.53	84.38	-3,340.40	-7,066.60	5,071.55	4,999.28	72.27	70.175		
9,400.00	7,239.90	7,122.32	7,107.43	68.70	35.54	85.20	-3,340.36	-7,066.69	4,975.65	4,903.11	72.54	68.592		
9,500.00	7,239.31	7,124.96	7,110.07	71.14	35.55	86.08	-3,340.32	-7,066.77	4,879.91	4,807.05	72.85	66.985		
9,600.00	7,238.71	7,127.62	7,112.72	73.61	35.56	87.00	-3,340.27	-7,066.86	4,784.34	4,711.13	73.21	65.354		
9,700.00	7,238.11	7,130.29	7,115.39	76.11	35.57	88.00	-3,340.23	-7,066.95	4,688.95	4,615.34	73.61	63.701		
9,800.00	7,237.52	7,132.98	7,118.07	78.64	35.57	89.10	-3,340.19	-7,067.03	4,593.76	4,519.70	74.06	62.024		
9,900.00	7,236.92	7,135.68	7,120.77	81.19	35.58	90.30	-3,340.14	-7,067.12	4,498.78	4,424.21	74.57	60.326		
10,000.00	7,236.33	7,138.40	7,123.49	83.75	35.59	91.60	-3,340.10	-7,067.21	4,404.02	4,328.87	75.15	58.606		
10,100.00	7,235.73	7,141.13	7,126.22	86.34	35.60	93.00	-3,340.05	-7,067.30	4,309.49	4,233.71	75.78	56.866		
10,200.00	7,235.14	7,143.88	7,128.97	88.94	35.61	94.50	-3,340.00	-7,067.39	4,215.22	4,138.73	76.49	55.109		
10,300.00	7,234.54	7,146.64	7,131.73	91.56	35.62	96.10	-3,339.96	-7,067.49	4,121.21	4,043.94	77.27	53.334		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,149.42	7,134.51	94.19	35.63	-86.89	-3,339.91	-7,067.58	4,027.49	3,949.35	78.13	51.546		
10,500.00	7,233.35	7,152.22	7,137.30	96.84	35.64	-87.01	-3,339.86	-7,067.67	3,934.07	3,854.99	79.08	49.745		
10,600.00	7,232.75	7,155.03	7,140.11	99.50	35.65	-87.12	-3,339.81	-7,067.76	3,840.99	3,760.86	80.13	47.936		
10,700.00	7,232.16	7,157.86	7,142.94	102.17	35.66	-87.23	-3,339.75	-7,067.86	3,748.26	3,666.99	81.27	46.121		
10,800.00	7,231.56	7,160.71	7,145.79	104.85	35.67	-87.35	-3,339.70	-7,067.95	3,655.91	3,573.39	82.52	44.304		
10,900.00	7,230.96	7,163.57	7,148.65	107.53	35.68	-87.46	-3,339.65	-7,068.05	3,563.97	3,480.09	83.88	42.487		
11,000.00	7,230.37	7,166.45	7,151.52	110.23	35.69	-87.58	-3,339.59	-7,068.15	3,472.48	3,387.11	85.37	40.676		
11,100.00	7,229.77	7,169.35	7,154.42	112.93	35.70	-87.70	-3,339.53	-7,068.25	3,381.46	3,294.47	86.99	38.873		
11,200.00	7,229.18	7,172.26	7,157.33	115.65	35.71	-87.81	-3,339.48	-7,068.34	3,290.96	3,202.22	88.74	37.084		
11,300.00	7,228.58	7,175.19	7,160.26	118.37	35.72	-87.93	-3,339.42	-7,068.44	3,201.03	3,110.38	90.65	35.313		
11,400.00	7,227.99	7,178.14	7,163.20	121.09	35.73	-88.05	-3,339.36	-7,068.54	3,111.71	3,019.00	92.71	33.563		
11,500.00	7,227.39	7,181.10	7,166.17	123.82	35.74	-88.17	-3,339.30	-7,068.65	3,023.05	2,928.11	94.95	31.840		
11,600.00	7,226.79	7,184.09	7,169.15	126.56	35.75	-88.29	-3,339.23	-7,068.75	2,935.12	2,837.76	97.36	30.147		
11,700.00	7,226.20	7,187.09	7,172.15	129.30	35.77	-88.41	-3,339.17	-7,068.85	2,847.99	2,748.02	99.97	28.489		
11,800.00	7,225.60	7,190.11	7,175.17	132.05	35.78	-88.53	-3,339.11	-7,068.95	2,761.72	2,658.94	102.78	26.869		
11,900.00	7,225.01	7,193.15	7,178.20	134.80	35.79	-88.66	-3,339.04	-7,069.06	2,676.41	2,570.59	105.82	25.293		
12,000.00	7,224.41	7,196.20	7,181.25	137.56	35.80	-88.78	-3,338.97	-7,069.16	2,592.14	2,483.06	109.08	23.763		
12,100.00	7,223.81	7,199.28	7,184.33	140.32	35.81	-88.90	-3,338.90	-7,069.27	2,509.03	2,396.43	112.60	22.283		
12,200.00	7,223.22	7,202.37	7,187.42	143.08	35.82	-89.03	-3,338.83	-7,069.38	2,427.18	2,310.81	116.37	20.857		
12,300.00	7,222.62	7,205.49	7,190.53	145.85	35.83	-89.15	-3,338.76	-7,069.49	2,346.74	2,226.31	120.43	19.487		
12,400.00	7,222.03	7,208.62	7,193.66	148.62	35.84	-89.28	-3,338.69	-7,069.60	2,267.85	2,143.08	124.77	18.176		
12,500.00	7,221.43	7,211.77	7,196.81	151.40	35.85	-89.41	-3,338.62	-7,069.71	2,190.68	2,061.27	129.42	16.927		
12,600.00	7,220.83	7,214.94	7,199.97	154.18	35.86	-89.53	-3,338.54	-7,069.82	2,115.43	1,981.05	134.38	15.742		
12,700.00	7,220.24	7,218.13	7,203.16	156.96	35.87	-89.66	-3,338.46	-7,069.93	2,042.29	1,902.62	139.66	14.623		
12,800.00	7,219.64	7,221.34	7,206.37	159.74	35.89	-89.79	-3,338.39	-7,070.04	1,971.50	1,826.23	145.28	13.571		
12,900.00	7,219.05	7,224.57	7,209.59	162.53	35.90	-89.92	-3,338.31	-7,070.16	1,903.34	1,752.12	151.21	12.587		
13,000.00	7,218.45	7,227.82	7,212.84	165.32	35.91	-90.06	-3,338.23	-7,070.27	1,838.08	1,680.62	157.47	11.673		
13,100.00	7,217.86	7,231.09	7,216.11	168.11	35.92	-90.19	-3,338.14	-7,070.39	1,776.06	1,612.05	164.01	10.829		
13,200.00	7,217.26	7,234.38	7,219.40	170.90	35.93	-90.32	-3,338.06	-7,070.51	1,717.61	1,546.80	170.81	10.055		
13,300.00	7,216.66	7,237.69	7,222.71	173.70	35.94	-90.45	-3,337.97	-7,070.63	1,663.12	1,485.30	177.82	9.353		
13,400.00	7,216.07	7,241.03	7,226.04	176.49	35.96	-90.59	-3,337.89	-7,070.74	1,613.00	1,428.02	184.97	8.720		
13,500.00	7,215.47	7,244.38	7,229.39	179.29	35.97	-90.72	-3,337.80	-7,070.87	1,567.65	1,375.48	192.17	8.158		
13,600.00	7,214.88	7,247.75	7,232.76	182.09	35.98	-90.86	-3,337.71	-7,070.99	1,527.50	1,328.20	199.30	7.664		
13,700.00	7,214.28	7,251.15	7,236.15	184.90	35.99	-91.00	-3,337.62	-7,071.11	1,492.97	1,286.74	206.23	7.239		
13,800.00	7,213.68	7,254.57	7,239.57	187.70	36.00	-91.14	-3,337.52	-7,071.23	1,464.46	1,251.65	212.81	6.881		
13,900.00	7,213.09	7,258.01	7,243.00	190.51	36.02	-91.28	-3,337.43	-7,071.36	1,442.33	1,223.43	218.90	6.589		
14,000.00	7,212.49	7,261.47	7,246.46	193.32	36.03	-91.42	-3,337.33	-7,071.48	1,426.88	1,202.53	224.34	6.360		
14,100.00	7,211.90	7,264.96	7,249.94	196.13	36.04	-91.56	-3,337.23	-7,071.61	1,418.31	1,189.31	229.01	6.193		
14,171.98	7,211.47	7,267.48	7,252.46	198.15	36.05	-91.66	-3,337.16	-7,071.70	1,416.49	1,184.67	231.82	6.110 CC		
14,200.00	7,211.30	7,268.47	7,253.45	198.94	36.05	-91.70	-3,337.13	-7,071.74	1,416.76	1,183.98	232.78	6.086 ES		
14,300.00	7,210.71	7,272.00	7,256.98	201.75	36.06	-91.84	-3,337.03	-7,071.87	1,422.25	1,186.66	235.60	6.037 SF		
14,400.00	7,210.11	7,275.55	7,260.53	204.56	36.08	-91.98	-3,336.93	-7,072.00	1,434.70	1,197.27	237.44	6.042		
14,500.00	7,209.51	7,279.13	7,264.10	207.38	36.09	-92.13	-3,336.82	-7,072.13	1,453.93	1,215.62	238.31	6.101		
14,600.00	7,208.92	7,282.73	7,267.69	210.19	36.10	-92.27	-3,336.71	-7,072.27	1,479.67	1,241.38	238.29	6.210		
14,700.00	7,208.32	7,286.35	7,271.31	213.01	36.12	-92.42	-3,336.60	-7,072.40	1,511.60	1,274.15	237.45	6.366		
14,800.00	7,207.73	7,290.00	7,274.96	215.83	36.13	-92.57	-3,336.49	-7,072.54	1,549.33	1,313.42	235.91	6.568		
14,900.00	7,207.13	7,293.67	7,278.63	218.65	36.14	-92.72	-3,336.38	-7,072.67	1,592.44	1,358.67	233.77	6.812		
15,000.00	7,206.53	7,297.37	7,282.32	221.47	36.15	-92.87	-3,336.26	-7,072.81	1,640.52	1,409.35	231.17	7.097		
15,100.00	7,205.94	7,301.09	7,286.04	224.29	36.17	-93.02	-3,336.14	-7,072.95	1,693.13	1,464.93	228.21	7.419		
15,200.00	7,205.34	7,304.84	7,289.78	227.11	36.18	-93.17	-3,336.02	-7,073.09	1,749.88	1,524.90	224.98	7.778		
15,258.04	7,205.00	7,307.03	7,291.96	228.75	36.19	-93.26	-3,335.95	-7,073.18	1,784.56	1,561.53	223.03	8.002		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	67.00	3.28	3.28	-117.63	-4,010.89	-7,660.96	8,647.66					
100.00	100.00	33.00	100.00	3.28	3.33	-117.63	-4,010.89	-7,660.96	8,647.40	8,640.79	6.61	1,307.258		
200.00	200.00	133.00	200.00	3.34	4.38	-117.63	-4,010.89	-7,660.96	8,647.40	8,639.69	7.71	1,121.064		
300.00	299.98	232.98	299.98	3.44	7.18	57.64	-4,010.89	-7,660.96	8,646.47	8,635.85	10.62	814.150		
400.00	399.84	332.84	399.84	3.59	10.40	57.71	-4,010.89	-7,660.96	8,643.67	8,629.67	13.99	617.677		
500.00	499.45	432.45	499.45	3.79	13.75	57.84	-4,010.89	-7,660.96	8,639.01	8,621.47	17.54	492.637		
600.00	598.70	531.70	598.70	4.03	17.13	58.02	-4,010.89	-7,660.96	8,632.50	8,611.34	21.16	407.896		
700.00	697.47	630.47	697.47	4.31	20.53	58.25	-4,010.89	-7,660.96	8,624.17	8,599.33	24.84	347.177		
800.00	795.62	728.62	795.62	4.64	23.92	58.53	-4,010.89	-7,660.96	8,614.03	8,585.48	28.55	301.726		
900.00	893.06	826.06	893.06	5.00	27.29	58.86	-4,010.89	-7,660.96	8,602.12	8,569.84	32.28	266.518		
1,000.00	989.65	922.65	989.65	5.40	30.64	59.22	-4,010.89	-7,660.96	8,588.47	8,552.46	36.01	238.481		
1,100.00	1,085.85	1,018.85	1,085.85	5.82	33.98	59.37	-4,010.89	-7,660.96	8,574.14	8,534.38	39.76	215.634		
1,200.00	1,182.06	1,115.06	1,182.06	6.27	37.33	59.53	-4,010.89	-7,660.96	8,559.87	8,516.34	43.53	196.623		
1,300.00	1,278.26	1,211.26	1,278.26	6.73	40.67	59.68	-4,010.89	-7,660.96	8,545.67	8,498.34	47.32	180.576		
1,400.00	1,374.47	1,307.47	1,374.47	7.20	44.02	59.83	-4,010.89	-7,660.96	8,531.52	8,480.39	51.13	166.861		
1,500.00	1,470.67	1,403.67	1,470.67	7.69	47.37	59.99	-4,010.89	-7,660.96	8,517.44	8,462.50	54.95	155.014		
1,600.00	1,566.88	1,500.12	1,566.88	8.18	50.73	60.14	-4,010.89	-7,660.96	8,503.43	8,444.65	58.78	144.661		
1,700.00	1,663.08	1,603.92	1,663.08	8.68	54.35	60.30	-4,010.89	-7,660.96	8,489.48	8,426.60	62.88	135.008		
1,800.00	1,759.29	1,707.71	1,759.29	9.19	57.96	60.45	-4,010.89	-7,660.96	8,475.60	8,408.61	66.99	126.523		
1,900.00	1,855.49	1,788.49	1,855.49	9.70	60.78	60.61	-4,010.89	-7,660.96	8,461.78	8,391.48	70.30	120.368		
2,000.00	1,951.70	1,884.70	1,951.70	10.22	64.13	60.76	-4,010.89	-7,660.96	8,448.02	8,373.87	74.15	113.927		
2,100.00	2,047.90	1,980.90	2,047.90	10.73	67.49	60.92	-4,010.89	-7,660.96	8,434.33	8,356.32	78.01	108.118		
2,200.00	2,144.11	2,077.11	2,144.11	11.26	70.84	61.08	-4,010.89	-7,660.96	8,420.71	8,338.84	81.87	102.851		
2,300.00	2,240.31	2,173.31	2,240.31	11.78	74.20	61.24	-4,010.89	-7,660.96	8,407.15	8,321.42	85.74	98.056		
2,400.00	2,336.52	2,269.52	2,336.52	12.31	77.55	61.40	-4,010.89	-7,660.96	8,393.67	8,304.06	89.61	93.673		
2,500.00	2,432.72	2,365.72	2,432.72	12.84	80.91	61.55	-4,010.89	-7,660.96	8,380.24	8,286.77	93.48	89.650		
2,600.00	2,528.93	2,461.93	2,528.93	13.37	84.26	61.71	-4,010.89	-7,660.96	8,366.89	8,269.54	97.35	85.945		
2,700.00	2,625.13	2,558.13	2,625.13	13.91	87.62	61.87	-4,010.89	-7,660.96	8,353.60	8,252.38	101.23	82.523		
2,800.00	2,721.34	2,654.34	2,721.34	14.44	90.98	62.03	-4,010.89	-7,660.96	8,340.38	8,235.28	105.11	79.353		
2,900.00	2,817.54	2,750.54	2,817.54	14.98	94.33	62.20	-4,010.89	-7,660.96	8,327.23	8,218.25	108.98	76.407		
3,000.00	2,913.75	2,846.75	2,913.75	15.52	97.69	62.36	-4,010.89	-7,660.96	8,314.15	8,201.29	112.87	73.664		
3,100.00	3,009.95	2,942.95	3,009.95	16.06	101.05	62.52	-4,010.89	-7,660.96	8,301.14	8,184.39	116.75	71.102		
3,200.00	3,106.16	3,039.16	3,106.16	16.60	104.40	62.68	-4,010.89	-7,660.96	8,288.20	8,167.56	120.63	68.706		
3,300.00	3,202.37	3,135.37	3,202.37	17.14	107.76	62.84	-4,010.89	-7,660.96	8,275.33	8,150.81	124.52	66.458		
3,400.00	3,298.57	3,231.57	3,298.57	17.68	111.12	63.01	-4,010.89	-7,660.96	8,262.52	8,134.12	128.41	64.347		
3,500.00	3,394.78	3,327.78	3,394.78	18.22	114.47	63.17	-4,010.89	-7,660.96	8,249.79	8,117.50	132.29	62.360		
3,600.00	3,490.98	3,423.98	3,490.98	18.76	117.83	63.34	-4,010.89	-7,660.96	8,237.13	8,100.94	136.18	60.486		
3,700.00	3,587.19	3,520.19	3,587.19	19.31	121.19	63.50	-4,010.89	-7,660.96	8,224.54	8,084.46	140.07	58.716		
3,800.00	3,683.39	3,616.39	3,683.39	19.85	124.55	63.67	-4,010.89	-7,660.96	8,212.02	8,068.05	143.96	57.042		
3,900.00	3,779.60	3,712.60	3,779.60	20.39	127.90	63.83	-4,010.89	-7,660.96	8,199.57	8,051.71	147.86	55.456		
4,000.00	3,875.80	3,808.80	3,875.80	20.94	131.26	64.00	-4,010.89	-7,660.96	8,187.19	8,035.44	151.75	53.952		
4,100.00	3,972.01	3,905.01	3,972.01	21.48	134.62	64.16	-4,010.89	-7,660.96	8,174.89	8,019.25	155.64	52.523		
4,200.00	4,068.21	4,001.21	4,068.21	22.03	137.98	64.33	-4,010.89	-7,660.96	8,162.66	8,003.12	159.54	51.165		
4,300.00	4,164.42	4,102.58	4,164.42	22.57	141.51	64.50	-4,010.89	-7,660.96	8,150.50	7,986.89	163.61	49.816		
4,400.00	4,260.62	4,206.38	4,260.62	23.12	145.14	64.67	-4,010.89	-7,660.96	8,138.42	7,970.64	167.77	48.508		
4,500.00	4,356.83	4,289.83	4,356.83	23.67	148.05	64.84	-4,010.89	-7,660.96	8,126.41	7,955.18	171.22	47.460		
4,600.00	4,453.03	4,386.03	4,453.03	24.21	151.41	65.00	-4,010.89	-7,660.96	8,114.47	7,939.35	175.12	46.336		
4,700.00	4,549.24	4,482.24	4,549.24	24.76	154.76	65.17	-4,010.89	-7,660.96	8,102.61	7,923.59	179.02	45.261		
4,800.00	4,645.44	4,578.44	4,645.44	25.31	158.12	65.34	-4,010.89	-7,660.96	8,090.82	7,907.90	182.92	44.232		
4,900.00	4,741.65	4,674.65	4,741.65	25.86	161.48	65.51	-4,010.89	-7,660.96	8,079.11	7,892.29	186.82	43.246		
5,000.00	4,837.85	4,770.85	4,837.85	26.40	164.84	65.68	-4,010.89	-7,660.96	8,067.47	7,876.75	190.72	42.301		
5,100.00	4,934.06	4,867.06	4,934.06	26.95	168.20	65.86	-4,010.89	-7,660.96	8,055.91	7,861.29	194.62	41.394		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,963.26	5,030.26	27.50	171.55	66.03	-4,010.89	-7,660.96	8,044.42	7,845.90	198.52	40.522		
5,300.00	5,126.47	5,059.47	5,126.47	28.05	174.91	66.20	-4,010.89	-7,660.96	8,033.01	7,830.59	202.42	39.685		
5,400.00	5,222.67	5,155.67	5,222.67	28.60	178.27	66.37	-4,010.89	-7,660.96	8,021.68	7,815.36	206.32	38.879		
5,500.00	5,318.88	5,251.88	5,318.88	29.15	181.63	66.55	-4,010.89	-7,660.96	8,010.42	7,800.20	210.22	38.104		
5,600.00	5,415.08	5,348.08	5,415.08	29.70	184.99	66.72	-4,010.89	-7,660.96	7,999.24	7,785.12	214.13	37.357		
5,700.00	5,511.29	5,444.29	5,511.29	30.25	188.34	66.89	-4,010.89	-7,660.96	7,988.14	7,770.11	218.03	36.638		
5,800.00	5,607.49	5,540.49	5,607.49	30.79	191.70	67.07	-4,010.89	-7,660.96	7,977.12	7,755.18	221.93	35.944		
5,900.00	5,703.70	5,636.70	5,703.70	31.34	195.06	67.24	-4,010.89	-7,660.96	7,966.17	7,740.33	225.84	35.274		
6,000.00	5,799.90	5,732.90	5,799.90	31.89	198.42	67.42	-4,010.89	-7,660.96	7,955.30	7,725.56	229.74	34.627		
6,100.00	5,896.11	5,829.11	5,896.11	32.44	201.78	67.59	-4,010.89	-7,660.96	7,944.52	7,710.87	233.65	34.002		
6,200.00	5,992.32	5,925.32	5,992.32	32.99	205.13	67.77	-4,010.89	-7,660.96	7,933.81	7,696.25	237.55	33.398		
6,300.00	6,088.52	6,021.52	6,088.52	33.54	208.49	67.95	-4,010.89	-7,660.96	7,923.18	7,681.72	241.46	32.814		
6,400.00	6,184.73	6,117.73	6,184.73	34.09	211.85	68.12	-4,010.89	-7,660.96	7,912.63	7,667.26	245.37	32.248		
6,500.00	6,280.93	6,213.93	6,280.93	34.64	215.21	68.30	-4,010.89	-7,660.96	7,902.16	7,652.89	249.27	31.701		
6,600.00	6,377.14	6,310.14	6,377.14	35.19	218.57	68.48	-4,010.89	-7,660.96	7,891.77	7,638.59	253.18	31.171		
6,700.00	6,473.34	6,406.34	6,473.34	35.74	221.92	68.66	-4,010.89	-7,660.96	7,881.46	7,624.38	257.09	30.657		
6,800.00	6,569.55	6,502.55	6,569.55	36.29	225.28	68.84	-4,010.89	-7,660.96	7,871.24	7,610.24	261.00	30.158		
6,900.00	6,665.75	6,601.25	6,665.75	36.84	228.73	64.33	-4,010.89	-7,660.96	7,860.92	7,595.93	264.99	29.665		
7,000.00	6,761.11	6,705.89	6,761.11	37.39	232.38	37.83	-4,010.89	-7,660.96	7,841.20	7,572.03	269.17	29.131		
7,100.00	6,853.41	6,786.41	6,853.41	37.89	235.19	21.37	-4,010.89	-7,660.96	7,807.05	7,534.59	272.46	28.654		
7,200.00	6,940.36	6,873.36	6,940.36	38.34	238.23	11.04	-4,010.89	-7,660.96	7,759.27	7,483.36	275.91	28.122		
7,300.00	7,019.83	6,952.83	7,019.83	38.74	241.00	3.43	-4,010.89	-7,660.96	7,699.02	7,419.99	279.04	27.591		
7,400.00	7,089.85	7,022.85	7,089.85	39.10	243.44	-3.49	-4,010.89	-7,660.96	7,627.78	7,346.01	281.76	27.072		
7,500.00	7,148.71	7,081.71	7,148.71	39.42	245.50	-11.40	-4,010.89	-7,660.96	7,547.28	7,263.26	284.02	26.573		
7,600.00	7,194.95	7,127.95	7,194.95	39.71	247.11	-22.48	-4,010.89	-7,660.96	7,459.54	7,173.78	285.76	26.104		
7,700.00	7,227.43	7,160.43	7,227.43	40.01	248.25	-40.42	-4,010.89	-7,660.96	7,366.73	7,079.79	286.95	25.673		
7,800.00	7,245.37	7,178.37	7,245.37	40.37	248.87	-68.48	-4,010.89	-7,660.96	7,271.19	6,983.63	287.57	25.285		
7,900.00	7,248.84	7,181.84	7,248.84	40.87	248.99	-91.12	-4,010.89	-7,660.96	7,175.26	6,887.62	287.64	24.945		
8,000.00	7,248.24	7,181.24	7,248.24	41.62	248.97	-91.11	-4,010.89	-7,660.96	7,079.64	6,792.06	287.58	24.618		
8,100.00	7,247.65	7,180.65	7,247.65	42.66	248.95	-91.09	-4,010.89	-7,660.96	6,984.14	6,696.60	287.54	24.289		
8,200.00	7,247.05	7,180.05	7,247.05	43.96	248.93	-91.07	-4,010.89	-7,660.96	6,888.77	6,601.25	287.53	23.959		
8,300.00	7,246.46	7,179.46	7,246.46	45.46	248.91	-91.06	-4,010.89	-7,660.96	6,793.54	6,506.00	287.54	23.626		
8,400.00	7,245.86	7,178.86	7,245.86	47.13	248.89	-91.04	-4,010.89	-7,660.96	6,698.44	6,410.87	287.58	23.293		
8,500.00	7,245.27	7,178.27	7,245.27	48.93	248.87	-91.03	-4,010.89	-7,660.96	6,603.49	6,315.84	287.65	22.957		
8,600.00	7,244.67	7,177.67	7,244.67	50.84	248.85	-91.01	-4,010.89	-7,660.96	6,508.69	6,220.94	287.75	22.619		
8,700.00	7,244.07	7,177.07	7,244.07	52.85	248.83	-90.99	-4,010.89	-7,660.96	6,414.05	6,126.16	287.88	22.280		
8,800.00	7,243.48	7,176.48	7,243.48	54.94	248.81	-90.98	-4,010.89	-7,660.96	6,319.57	6,031.51	288.06	21.939		
8,900.00	7,242.88	7,175.88	7,242.88	57.10	248.79	-90.96	-4,010.89	-7,660.96	6,225.27	5,937.00	288.27	21.595		
9,000.00	7,242.29	7,175.29	7,242.29	59.32	248.77	-90.94	-4,010.89	-7,660.96	6,131.14	5,842.62	288.52	21.250		
9,100.00	7,241.69	7,174.69	7,241.69	61.60	248.75	-90.93	-4,010.89	-7,660.96	6,037.21	5,748.38	288.82	20.903		
9,200.00	7,241.09	7,174.09	7,241.09	63.92	248.72	-90.91	-4,010.89	-7,660.96	5,943.47	5,654.30	289.17	20.553		
9,300.00	7,240.50	7,173.50	7,240.50	66.29	248.70	-90.89	-4,010.89	-7,660.96	5,849.94	5,560.37	289.57	20.202		
9,400.00	7,239.90	7,172.90	7,239.90	68.70	248.68	-90.88	-4,010.89	-7,660.96	5,756.63	5,466.60	290.02	19.849		
9,500.00	7,239.31	7,172.31	7,239.31	71.14	248.66	-90.86	-4,010.89	-7,660.96	5,663.54	5,373.01	290.53	19.494		
9,600.00	7,238.71	7,171.71	7,238.71	73.61	248.64	-90.85	-4,010.89	-7,660.96	5,570.70	5,279.60	291.10	19.137		
9,700.00	7,238.11	7,171.11	7,238.11	76.11	248.62	-90.83	-4,010.89	-7,660.96	5,478.10	5,186.37	291.73	18.778		
9,800.00	7,237.52	7,170.52	7,237.52	78.64	248.60	-90.81	-4,010.89	-7,660.96	5,385.77	5,093.34	292.43	18.417		
9,900.00	7,236.92	7,169.92	7,236.92	81.19	248.58	-90.80	-4,010.89	-7,660.96	5,293.72	5,000.53	293.20	18.055		
10,000.00	7,236.33	7,169.33	7,236.33	83.75	248.56	-90.78	-4,010.89	-7,660.96	5,201.97	4,907.93	294.04	17.691		
10,100.00	7,235.73	7,168.73	7,235.73	86.34	248.54	-90.76	-4,010.89	-7,660.96	5,110.52	4,815.56	294.96	17.326		
10,200.00	7,235.14	7,168.14	7,235.14	88.94	248.52	-90.75	-4,010.89	-7,660.96	5,019.40	4,723.45	295.95	16.960		
10,300.00	7,234.54	7,167.54	7,234.54	91.56	248.50	-90.73	-4,010.89	-7,660.96	4,928.62	4,631.59	297.03	16.593		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,166.94	7,233.94	94.19	248.47	-90.71	-4,010.89	-7,660.96	4,838.21	4,540.01	298.20	16.225		
10,500.00	7,233.35	7,166.35	7,233.35	96.84	248.45	-90.70	-4,010.89	-7,660.96	4,748.18	4,448.72	299.46	15.856		
10,600.00	7,232.75	7,165.75	7,232.75	99.50	248.43	-90.68	-4,010.89	-7,660.96	4,658.56	4,357.75	300.81	15.487		
10,700.00	7,232.16	7,165.16	7,232.16	102.17	248.41	-90.67	-4,010.89	-7,660.96	4,569.37	4,267.11	302.25	15.118		
10,800.00	7,231.56	7,164.56	7,231.56	104.85	248.39	-90.65	-4,010.89	-7,660.96	4,480.63	4,176.83	303.80	14.748		
10,900.00	7,230.96	7,163.96	7,230.96	107.53	248.37	-90.63	-4,010.89	-7,660.96	4,392.38	4,086.92	305.46	14.380		
11,000.00	7,230.37	7,163.37	7,230.37	110.23	248.35	-90.62	-4,010.89	-7,660.96	4,304.64	3,997.42	307.23	14.011		
11,100.00	7,229.77	7,162.77	7,229.77	112.93	248.33	-90.60	-4,010.89	-7,660.96	4,217.45	3,908.35	309.10	13.644		
11,200.00	7,229.18	7,162.18	7,229.18	115.65	248.31	-90.58	-4,010.89	-7,660.96	4,130.84	3,819.74	311.10	13.278		
11,300.00	7,228.58	7,161.58	7,228.58	118.37	248.29	-90.57	-4,010.89	-7,660.96	4,044.84	3,731.62	313.22	12.914		
11,400.00	7,227.99	7,160.99	7,227.99	121.09	248.27	-90.55	-4,010.89	-7,660.96	3,959.51	3,644.04	315.47	12.551		
11,500.00	7,227.39	7,160.39	7,227.39	123.82	248.25	-90.53	-4,010.89	-7,660.96	3,874.87	3,557.03	317.85	12.191		
11,600.00	7,226.79	7,159.79	7,226.79	126.56	248.23	-90.52	-4,010.89	-7,660.96	3,790.99	3,470.63	320.36	11.834		
11,700.00	7,226.20	7,159.20	7,226.20	129.30	248.20	-90.50	-4,010.89	-7,660.96	3,707.90	3,384.88	323.02	11.479		
11,800.00	7,225.60	7,158.60	7,225.60	132.05	248.18	-90.49	-4,010.89	-7,660.96	3,625.67	3,299.85	325.82	11.128		
11,900.00	7,225.01	7,158.01	7,225.01	134.80	248.16	-90.47	-4,010.89	-7,660.96	3,544.35	3,215.57	328.77	10.780		
12,000.00	7,224.41	7,157.41	7,224.41	137.56	248.14	-90.45	-4,010.89	-7,660.96	3,464.01	3,132.12	331.89	10.437		
12,100.00	7,223.81	7,156.81	7,223.81	140.32	248.12	-90.44	-4,010.89	-7,660.96	3,384.71	3,049.55	335.16	10.099		
12,200.00	7,223.22	7,156.22	7,223.22	143.08	248.10	-90.42	-4,010.89	-7,660.96	3,306.54	2,967.94	338.60	9.765		
12,300.00	7,222.62	7,155.62	7,222.62	145.85	248.08	-90.40	-4,010.89	-7,660.96	3,229.57	2,887.37	342.21	9.438		
12,400.00	7,222.03	7,155.03	7,222.03	148.62	248.06	-90.39	-4,010.89	-7,660.96	3,153.90	2,807.91	345.99	9.116		
12,500.00	7,221.43	7,154.43	7,221.43	151.40	248.04	-90.37	-4,010.89	-7,660.96	3,079.61	2,729.67	349.95	8.800		
12,600.00	7,220.83	7,153.83	7,220.83	154.18	248.02	-90.35	-4,010.89	-7,660.96	3,006.82	2,652.73	354.09	8.492		
12,700.00	7,220.24	7,153.24	7,220.24	156.96	248.00	-90.34	-4,010.89	-7,660.96	2,935.62	2,577.21	358.41	8.191		
12,800.00	7,219.64	7,152.64	7,219.64	159.74	247.98	-90.32	-4,010.89	-7,660.96	2,866.15	2,503.24	362.91	7.898		
12,900.00	7,219.05	7,152.05	7,219.05	162.53	247.95	-90.31	-4,010.89	-7,660.96	2,798.53	2,430.94	367.59	7.613		
13,000.00	7,218.45	7,151.45	7,218.45	165.32	247.93	-90.29	-4,010.89	-7,660.96	2,732.89	2,360.44	372.44	7.338		
13,100.00	7,217.86	7,150.86	7,217.86	168.11	247.91	-90.27	-4,010.89	-7,660.96	2,669.38	2,291.92	377.47	7.072		
13,200.00	7,217.26	7,150.26	7,217.26	170.90	247.89	-90.26	-4,010.89	-7,660.96	2,608.17	2,225.52	382.65	6.816		
13,300.00	7,216.66	7,149.66	7,216.66	173.70	247.87	-90.24	-4,010.89	-7,660.96	2,549.41	2,161.43	387.98	6.571		
13,400.00	7,216.07	7,149.07	7,216.07	176.49	247.85	-90.22	-4,010.89	-7,660.96	2,493.27	2,099.84	393.43	6.337		
13,500.00	7,215.47	7,148.47	7,215.47	179.29	247.83	-90.21	-4,010.89	-7,660.96	2,439.94	2,040.95	398.99	6.115		
13,600.00	7,214.88	7,147.88	7,214.88	182.09	247.81	-90.19	-4,010.89	-7,660.96	2,389.61	1,984.98	404.64	5.906		
13,700.00	7,214.28	7,147.28	7,214.28	184.90	247.79	-90.17	-4,010.89	-7,660.96	2,342.47	1,932.14	410.33	5.709		
13,800.00	7,213.68	7,146.68	7,213.68	187.70	247.77	-90.16	-4,010.89	-7,660.96	2,298.72	1,882.68	416.04	5.525		
13,900.00	7,213.09	7,146.09	7,213.09	190.51	247.75	-90.14	-4,010.89	-7,660.96	2,258.54	1,836.83	421.71	5.356		
14,000.00	7,212.49	7,145.49	7,212.49	193.32	247.73	-90.13	-4,010.89	-7,660.96	2,222.15	1,794.83	427.32	5.200		
14,100.00	7,211.90	7,144.90	7,211.90	196.13	247.71	-90.11	-4,010.89	-7,660.96	2,189.72	1,756.92	432.80	5.059		
14,200.00	7,211.30	7,144.30	7,211.30	198.94	247.68	-90.09	-4,010.89	-7,660.96	2,161.43	1,723.32	438.11	4.934		
14,300.00	7,210.71	7,143.71	7,210.71	201.75	247.66	-90.08	-4,010.89	-7,660.96	2,137.45	1,694.27	443.18	4.823		
14,400.00	7,210.11	7,143.11	7,210.11	204.56	247.64	-90.06	-4,010.89	-7,660.96	2,117.93	1,669.95	447.98	4.728		
14,500.00	7,209.51	7,142.51	7,209.51	207.38	247.62	-90.04	-4,010.89	-7,660.96	2,102.99	1,650.55	452.44	4.648		
14,600.00	7,208.92	7,141.92	7,208.92	210.19	247.60	-90.03	-4,010.89	-7,660.96	2,092.72	1,636.21	456.51	4.584		
14,700.00	7,208.32	7,141.32	7,208.32	213.01	247.58	-90.01	-4,010.89	-7,660.96	2,087.20	1,627.03	460.16	4.536		
14,765.41	7,207.93	7,140.93	7,207.93	214.85	247.57	-90.00	-4,010.89	-7,660.96	2,086.17	1,623.86	462.31	4.513 CC		
14,800.00	7,207.73	7,140.73	7,207.73	215.83	247.56	-89.99	-4,010.89	-7,660.96	2,086.46	1,623.10	463.36	4.503 ES		
14,900.00	7,207.13	7,140.13	7,207.13	218.65	247.54	-89.98	-4,010.89	-7,660.96	2,090.51	1,624.43	466.08	4.485		
15,000.00	7,206.53	7,139.53	7,206.53	221.47	247.52	-89.96	-4,010.89	-7,660.96	2,099.32	1,631.02	468.30	4.483 SF		
15,100.00	7,205.94	7,138.94	7,205.94	224.29	247.50	-89.95	-4,010.89	-7,660.96	2,112.83	1,642.81	470.02	4.495		
15,200.00	7,205.34	7,138.34	7,205.34	227.11	247.48	-89.93	-4,010.89	-7,660.96	2,130.96	1,659.70	471.26	4.522		
15,258.04	7,205.00	7,138.00	7,205.00	228.75	247.46	-89.92	-4,010.89	-7,660.96	2,143.55	1,671.79	471.76	4.544		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	52.00	3.28	3.28	-106.73	-2,693.49	-8,961.28	9,357.46					
100.00	100.00	48.00	100.00	3.28	3.39	-106.73	-2,693.49	-8,961.28	9,357.32	9,350.65	6.67	1,402.887		
200.00	200.00	148.00	200.00	3.34	4.74	-106.73	-2,693.49	-8,961.28	9,357.32	9,349.24	8.08	1,158.581		
300.00	299.98	247.98	299.98	3.44	7.65	68.54	-2,693.49	-8,961.28	9,356.68	9,345.59	11.09	843.728		
400.00	399.84	347.84	399.84	3.59	10.90	68.60	-2,693.49	-8,961.28	9,354.76	9,340.27	14.49	645.538		
500.00	499.45	447.45	499.45	3.79	14.26	68.71	-2,693.49	-8,961.28	9,351.58	9,333.54	18.04	518.255		
600.00	598.70	546.70	598.70	4.03	17.65	68.87	-2,693.49	-8,961.28	9,347.14	9,325.47	21.68	431.202		
700.00	697.47	645.47	697.47	4.31	21.04	69.06	-2,693.49	-8,961.28	9,341.47	9,316.11	25.36	368.380		
800.00	795.62	743.62	795.62	4.64	24.44	69.30	-2,693.49	-8,961.28	9,334.57	9,305.50	29.07	321.099		
900.00	893.06	841.06	893.06	5.00	27.81	69.57	-2,693.49	-8,961.28	9,326.49	9,293.69	32.80	284.321		
1,000.00	989.65	937.65	989.65	5.40	31.16	69.88	-2,693.49	-8,961.28	9,317.25	9,280.71	36.55	254.948		
1,100.00	1,085.85	1,033.85	1,085.85	5.82	34.50	70.03	-2,693.49	-8,961.28	9,307.58	9,267.27	40.30	230.929		
1,200.00	1,182.06	1,130.06	1,182.06	6.27	37.85	70.18	-2,693.49	-8,961.28	9,297.97	9,253.88	44.09	210.901		
1,300.00	1,278.26	1,226.26	1,278.26	6.73	41.19	70.34	-2,693.49	-8,961.28	9,288.43	9,240.55	47.89	193.965		
1,400.00	1,374.47	1,322.47	1,374.47	7.20	44.54	70.49	-2,693.49	-8,961.28	9,278.97	9,227.27	51.70	179.469		
1,500.00	1,470.67	1,418.67	1,470.67	7.69	47.89	70.64	-2,693.49	-8,961.28	9,269.57	9,214.04	55.53	166.931		
1,600.00	1,566.88	1,514.88	1,566.88	8.18	51.24	70.80	-2,693.49	-8,961.28	9,260.25	9,200.88	59.37	155.984		
1,700.00	1,663.08	1,611.08	1,663.08	8.68	54.60	70.95	-2,693.49	-8,961.28	9,251.00	9,187.78	63.21	146.349		
1,800.00	1,759.29	1,707.29	1,759.29	9.19	57.95	71.11	-2,693.49	-8,961.28	9,241.81	9,174.75	67.06	137.805		
1,900.00	1,855.49	1,803.49	1,855.49	9.70	61.30	71.26	-2,693.49	-8,961.28	9,232.70	9,161.78	70.92	130.180		
2,000.00	1,951.70	1,900.30	1,951.70	10.22	64.68	71.42	-2,693.49	-8,961.28	9,223.67	9,148.86	74.81	123.299		
2,100.00	2,047.90	2,004.10	2,047.90	10.73	68.30	71.57	-2,693.49	-8,961.28	9,214.70	9,135.76	78.94	116.731		
2,200.00	2,144.11	2,107.89	2,144.11	11.26	71.92	71.73	-2,693.49	-8,961.28	9,205.81	9,122.73	83.08	110.812		
2,300.00	2,240.31	2,188.31	2,240.31	11.78	74.72	71.88	-2,693.49	-8,961.28	9,196.98	9,110.58	86.40	106.446		
2,400.00	2,336.52	2,284.52	2,336.52	12.31	78.08	72.04	-2,693.49	-8,961.28	9,188.23	9,097.96	90.28	101.777		
2,500.00	2,432.72	2,380.72	2,432.72	12.84	81.43	72.20	-2,693.49	-8,961.28	9,179.56	9,085.40	94.16	97.490		
2,600.00	2,528.93	2,476.93	2,528.93	13.37	84.79	72.35	-2,693.49	-8,961.28	9,170.95	9,072.91	98.04	93.541		
2,700.00	2,625.13	2,573.13	2,625.13	13.91	88.14	72.51	-2,693.49	-8,961.28	9,162.42	9,060.50	101.93	89.892		
2,800.00	2,721.34	2,669.34	2,721.34	14.44	91.50	72.67	-2,693.49	-8,961.28	9,153.97	9,048.15	105.81	86.510		
2,900.00	2,817.54	2,765.54	2,817.54	14.98	94.86	72.82	-2,693.49	-8,961.28	9,145.58	9,035.88	109.70	83.368		
3,000.00	2,913.75	2,861.75	2,913.75	15.52	98.21	72.98	-2,693.49	-8,961.28	9,137.27	9,023.68	113.59	80.440		
3,100.00	3,009.95	2,957.95	3,009.95	16.06	101.57	73.14	-2,693.49	-8,961.28	9,129.04	9,011.55	117.48	77.705		
3,200.00	3,106.16	3,054.16	3,106.16	16.60	104.93	73.30	-2,693.49	-8,961.28	9,120.88	8,999.50	121.38	75.146		
3,300.00	3,202.37	3,150.37	3,202.37	17.14	108.28	73.46	-2,693.49	-8,961.28	9,112.79	8,987.52	125.27	72.745		
3,400.00	3,298.57	3,246.57	3,298.57	17.68	111.64	73.62	-2,693.49	-8,961.28	9,104.78	8,975.61	129.16	70.490		
3,500.00	3,394.78	3,342.78	3,394.78	18.22	115.00	73.77	-2,693.49	-8,961.28	9,096.84	8,963.78	133.06	68.366		
3,600.00	3,490.98	3,438.98	3,490.98	18.76	118.36	73.93	-2,693.49	-8,961.28	9,088.98	8,952.02	136.96	66.364		
3,700.00	3,587.19	3,535.19	3,587.19	19.31	121.71	74.09	-2,693.49	-8,961.28	9,081.19	8,940.33	140.86	64.472		
3,800.00	3,683.39	3,631.39	3,683.39	19.85	125.07	74.25	-2,693.49	-8,961.28	9,073.48	8,928.72	144.75	62.682		
3,900.00	3,779.60	3,727.60	3,779.60	20.39	128.43	74.41	-2,693.49	-8,961.28	9,065.84	8,917.19	148.65	60.987		
4,000.00	3,875.80	3,823.80	3,875.80	20.94	131.78	74.57	-2,693.49	-8,961.28	9,058.28	8,905.73	152.55	59.378		
4,100.00	3,972.01	3,920.01	3,972.01	21.48	135.14	74.74	-2,693.49	-8,961.28	9,050.80	8,894.34	156.45	57.850		
4,200.00	4,068.21	4,016.21	4,068.21	22.03	138.50	74.90	-2,693.49	-8,961.28	9,043.39	8,883.03	160.36	56.396		
4,300.00	4,164.42	4,112.42	4,164.42	22.57	141.86	75.06	-2,693.49	-8,961.28	9,036.05	8,871.80	164.26	55.012		
4,400.00	4,260.62	4,208.62	4,260.62	23.12	145.21	75.22	-2,693.49	-8,961.28	9,028.80	8,860.64	168.16	53.692		
4,500.00	4,356.83	4,304.83	4,356.83	23.67	148.57	75.38	-2,693.49	-8,961.28	9,021.62	8,849.56	172.06	52.432		
4,600.00	4,453.03	4,401.03	4,453.03	24.21	151.93	75.54	-2,693.49	-8,961.28	9,014.52	8,838.55	175.97	51.229		
4,700.00	4,549.24	4,502.76	4,549.24	24.76	155.48	75.70	-2,693.49	-8,961.28	9,007.49	8,827.43	180.06	50.024		
4,800.00	4,645.44	4,606.56	4,645.44	25.31	159.10	75.87	-2,693.49	-8,961.28	9,000.54	8,816.31	184.23	48.854		
4,900.00	4,741.65	4,689.65	4,741.65	25.86	162.00	76.03	-2,693.49	-8,961.28	8,993.67	8,805.99	187.68	47.920		
5,000.00	4,837.85	4,785.85	4,837.85	26.40	165.36	76.19	-2,693.49	-8,961.28	8,986.88	8,795.29	191.59	46.908		
5,100.00	4,934.06	4,882.06	4,934.06	26.95	168.72	76.35	-2,693.49	-8,961.28	8,980.16	8,784.67	195.49	45.936		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,978.26	5,030.26	27.50	172.08	76.52	-2,693.49	-8,961.28	8,973.53	8,774.13	199.40	45.003		
5,300.00	5,126.47	5,074.47	5,126.47	28.05	175.44	76.68	-2,693.49	-8,961.28	8,966.97	8,763.66	203.30	44.106		
5,400.00	5,222.67	5,170.67	5,222.67	28.60	178.79	76.85	-2,693.49	-8,961.28	8,960.49	8,753.28	207.21	43.243		
5,500.00	5,318.88	5,266.88	5,318.88	29.15	182.15	77.01	-2,693.49	-8,961.28	8,954.09	8,742.97	211.12	42.413		
5,600.00	5,415.08	5,363.08	5,415.08	29.70	185.51	77.17	-2,693.49	-8,961.28	8,947.76	8,732.74	215.03	41.613		
5,700.00	5,511.29	5,459.29	5,511.29	30.25	188.87	77.34	-2,693.49	-8,961.28	8,941.52	8,722.58	218.93	40.841		
5,800.00	5,607.49	5,555.49	5,607.49	30.79	192.23	77.50	-2,693.49	-8,961.28	8,935.35	8,712.51	222.84	40.097		
5,900.00	5,703.70	5,651.70	5,703.70	31.34	195.58	77.67	-2,693.49	-8,961.28	8,929.26	8,702.51	226.75	39.379		
6,000.00	5,799.90	5,747.90	5,799.90	31.89	198.94	77.83	-2,693.49	-8,961.28	8,923.26	8,692.60	230.66	38.686		
6,100.00	5,896.11	5,844.11	5,896.11	32.44	202.30	78.00	-2,693.49	-8,961.28	8,917.33	8,682.76	234.57	38.016		
6,200.00	5,992.32	5,940.32	5,992.32	32.99	205.66	78.16	-2,693.49	-8,961.28	8,911.48	8,673.00	238.48	37.368		
6,300.00	6,088.52	6,036.52	6,088.52	33.54	209.02	78.33	-2,693.49	-8,961.28	8,905.71	8,663.32	242.39	36.742		
6,400.00	6,184.73	6,132.73	6,184.73	34.09	212.37	78.49	-2,693.49	-8,961.28	8,900.02	8,653.73	246.30	36.135		
6,500.00	6,280.93	6,228.93	6,280.93	34.64	215.73	78.66	-2,693.49	-8,961.28	8,894.41	8,644.21	250.21	35.548		
6,600.00	6,377.14	6,325.14	6,377.14	35.19	219.09	78.83	-2,693.49	-8,961.28	8,888.89	8,634.77	254.12	34.980		
6,700.00	6,473.34	6,421.34	6,473.34	35.74	222.45	78.99	-2,693.49	-8,961.28	8,883.44	8,625.41	258.03	34.428		
6,800.00	6,569.55	6,517.55	6,569.55	36.29	225.81	79.16	-2,693.49	-8,961.28	8,878.07	8,616.13	261.94	33.894		
6,900.00	6,665.75	6,613.75	6,665.75	36.84	229.16	74.67	-2,693.49	-8,961.28	8,872.61	8,606.76	265.85	33.375		
7,000.00	6,761.11	6,709.11	6,761.11	37.39	232.49	48.54	-2,693.49	-8,961.28	8,867.34	8,597.63	269.71	32.840		
7,100.00	6,853.41	6,801.41	6,853.41	37.89	235.71	32.76	-2,693.49	-8,961.28	8,862.95	8,588.53	273.43	32.283		
7,200.00	6,940.36	6,888.36	6,940.36	38.34	238.75	23.52	-2,693.49	-8,961.28	8,858.18	8,579.28	277.90	31.717		
7,300.00	7,019.83	6,967.83	7,019.83	38.74	241.52	17.57	-2,693.49	-8,961.28	8,854.09	8,570.05	282.05	31.152		
7,400.00	7,089.85	7,037.85	7,089.85	39.10	243.97	13.18	-2,693.49	-8,961.28	8,850.11	8,561.31	286.80	30.601		
7,500.00	7,148.71	7,103.29	7,148.71	39.42	246.25	9.26	-2,693.49	-8,961.28	8,846.34	8,553.08	291.33	30.050		
7,600.00	7,194.95	7,142.95	7,194.95	39.71	247.64	4.61	-2,693.49	-8,961.28	8,842.54	8,544.66	296.88	29.579		
7,700.00	7,227.43	7,175.43	7,227.43	40.01	248.77	-3.60	-2,693.49	-8,961.28	8,838.97	8,536.96	302.11	29.124		
7,800.00	7,245.37	7,206.63	7,245.37	40.37	249.86	-30.08	-2,693.49	-8,961.28	8,835.27	8,529.64	307.23	28.672		
7,900.00	7,248.84	7,203.16	7,248.84	40.87	249.74	-93.65	-2,693.49	-8,961.28	8,832.33	8,522.24	312.09	28.342		
8,000.00	7,248.24	7,203.76	7,248.24	41.62	249.76	-93.61	-2,693.49	-8,961.28	8,829.77	8,515.69	316.08	27.998		
8,100.00	7,247.65	7,204.35	7,247.65	42.66	249.78	-93.56	-2,693.49	-8,961.28	8,827.22	8,509.15	320.07	27.655		
8,200.00	7,247.05	7,204.95	7,247.05	43.96	249.80	-93.52	-2,693.49	-8,961.28	8,824.68	8,502.62	324.07	27.311		
8,300.00	7,246.46	7,205.54	7,246.46	45.46	249.82	-93.48	-2,693.49	-8,961.28	8,822.16	8,496.10	328.06	26.967		
8,400.00	7,245.86	7,206.14	7,245.86	47.13	249.84	-93.43	-2,693.49	-8,961.28	8,819.64	8,489.58	332.06	26.623		
8,500.00	7,245.27	7,206.74	7,245.27	48.93	249.86	-93.39	-2,693.49	-8,961.28	8,817.14	8,483.08	336.06	26.279		
8,600.00	7,244.67	7,207.33	7,244.67	50.84	249.88	-93.34	-2,693.49	-8,961.28	8,814.65	8,476.59	340.06	25.934		
8,700.00	7,244.07	7,207.93	7,244.07	52.85	249.91	-93.30	-2,693.49	-8,961.28	8,812.18	8,470.11	344.07	25.589		
8,800.00	7,243.48	7,208.52	7,243.48	54.94	249.93	-93.25	-2,693.49	-8,961.28	8,809.72	8,463.64	348.08	25.244		
8,900.00	7,242.88	7,209.12	7,242.88	57.10	249.95	-93.21	-2,693.49	-8,961.28	8,807.27	8,457.18	352.09	24.899		
9,000.00	7,242.29	7,209.71	7,242.29	59.32	249.97	-93.16	-2,693.49	-8,961.28	8,804.84	8,450.73	356.11	24.554		
9,100.00	7,241.69	7,189.69	7,241.69	61.60	249.27	-93.12	-2,693.49	-8,961.28	8,802.43	8,444.32	360.12	24.269		
9,200.00	7,241.09	7,189.09	7,241.09	63.92	249.25	-93.07	-2,693.49	-8,961.28	8,800.03	8,437.93	364.14	23.925		
9,300.00	7,240.50	7,188.50	7,240.50	66.29	249.23	-93.03	-2,693.49	-8,961.28	8,797.66	8,431.57	368.19	23.582		
9,400.00	7,239.90	7,187.90	7,239.90	68.70	249.21	-92.98	-2,693.49	-8,961.28	8,795.30	8,425.21	372.23	23.238		
9,500.00	7,239.31	7,187.31	7,239.31	71.14	249.19	-92.94	-2,693.49	-8,961.28	8,792.95	8,418.86	376.28	22.893		
9,600.00	7,238.71	7,186.71	7,238.71	73.61	249.16	-92.89	-2,693.49	-8,961.28	8,790.63	8,412.50	380.33	22.548		
9,700.00	7,238.11	7,186.11	7,238.11	76.11	249.14	-92.85	-2,693.49	-8,961.28	8,788.33	8,406.14	384.38	22.203		
9,800.00	7,237.52	7,185.52	7,237.52	78.64	249.12	-92.80	-2,693.49	-8,961.28	8,786.05	8,400.78	388.42	21.857		
9,900.00	7,236.92	7,184.92	7,236.92	81.19	249.10	-92.76	-2,693.49	-8,961.28	8,783.78	8,395.41	392.47	21.511		
10,000.00	7,236.33	7,184.33	7,236.33	83.75	249.08	-92.71	-2,693.49	-8,961.28	8,781.52	8,390.05	396.52	21.165		
10,100.00	7,235.73	7,183.73	7,235.73	86.34	249.06	-92.67	-2,693.49	-8,961.28	8,779.27	8,384.69	400.57	20.818		
10,200.00	7,235.14	7,183.14	7,235.14	88.94	249.04	-92.63	-2,693.49	-8,961.28	8,777.03	8,379.33	404.62	20.471		
10,300.00	7,234.54	7,182.54	7,234.54	91.56	249.02	-92.58	-2,693.49	-8,961.28	8,774.80	8,373.97	408.67	20.123		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,181.94	7,233.94	94.19	249.00	-92.54	-2,693.49	-8,961.28	5,708.92	5,420.22	288.70	19.775		
10,500.00	7,233.35	7,181.35	7,233.35	96.84	248.98	-92.49	-2,693.49	-8,961.28	5,609.83	5,321.04	288.78	19.426		
10,600.00	7,232.75	7,180.75	7,232.75	99.50	248.96	-92.45	-2,693.49	-8,961.28	5,510.77	5,221.89	288.88	19.076		
10,700.00	7,232.16	7,180.16	7,232.16	102.17	248.94	-92.40	-2,693.49	-8,961.28	5,411.75	5,122.76	288.99	18.727		
10,800.00	7,231.56	7,179.56	7,231.56	104.85	248.92	-92.36	-2,693.49	-8,961.28	5,312.76	5,023.65	289.11	18.376		
10,900.00	7,230.96	7,178.96	7,230.96	107.53	248.89	-92.31	-2,693.49	-8,961.28	5,213.81	4,924.56	289.25	18.025		
11,000.00	7,230.37	7,178.37	7,230.37	110.23	248.87	-92.27	-2,693.49	-8,961.28	5,114.91	4,825.50	289.41	17.674		
11,100.00	7,229.77	7,177.77	7,229.77	112.93	248.85	-92.22	-2,693.49	-8,961.28	5,016.05	4,726.46	289.58	17.322		
11,200.00	7,229.18	7,177.18	7,229.18	115.65	248.83	-92.18	-2,693.49	-8,961.28	4,917.23	4,627.45	289.78	16.969		
11,300.00	7,228.58	7,176.58	7,228.58	118.37	248.81	-92.13	-2,693.49	-8,961.28	4,818.46	4,528.46	290.00	16.615		
11,400.00	7,227.99	7,175.99	7,227.99	121.09	248.79	-92.09	-2,693.49	-8,961.28	4,719.75	4,429.50	290.24	16.261		
11,500.00	7,227.39	7,175.39	7,227.39	123.82	248.77	-92.04	-2,693.49	-8,961.28	4,621.08	4,330.57	290.51	15.907		
11,600.00	7,226.79	7,174.79	7,226.79	126.56	248.75	-92.00	-2,693.49	-8,961.28	4,522.48	4,231.67	290.81	15.551		
11,700.00	7,226.20	7,174.20	7,226.20	129.30	248.73	-91.95	-2,693.49	-8,961.28	4,423.94	4,132.80	291.14	15.195		
11,800.00	7,225.60	7,173.60	7,225.60	132.05	248.71	-91.91	-2,693.49	-8,961.28	4,325.47	4,033.96	291.51	14.838		
11,900.00	7,225.01	7,173.01	7,225.01	134.80	248.69	-91.86	-2,693.49	-8,961.28	4,227.07	3,935.16	291.91	14.481		
12,000.00	7,224.41	7,172.41	7,224.41	137.56	248.67	-91.82	-2,693.49	-8,961.28	4,128.74	3,836.39	292.35	14.123		
12,100.00	7,223.81	7,171.81	7,223.81	140.32	248.64	-91.77	-2,693.49	-8,961.28	4,030.50	3,737.66	292.84	13.764		
12,200.00	7,223.22	7,171.22	7,223.22	143.08	248.62	-91.73	-2,693.49	-8,961.28	3,932.35	3,638.98	293.37	13.404		
12,300.00	7,222.62	7,170.62	7,222.62	145.85	248.60	-91.68	-2,693.49	-8,961.28	3,834.29	3,540.33	293.96	13.043		
12,400.00	7,222.03	7,170.03	7,222.03	148.62	248.58	-91.64	-2,693.49	-8,961.28	3,736.34	3,441.72	294.61	12.682		
12,500.00	7,221.43	7,169.43	7,221.43	151.40	248.56	-91.60	-2,693.49	-8,961.28	3,638.49	3,343.17	295.33	12.320		
12,600.00	7,220.83	7,168.83	7,220.83	154.18	248.54	-91.55	-2,693.49	-8,961.28	3,540.77	3,244.66	296.11	11.958		
12,700.00	7,220.24	7,168.24	7,220.24	156.96	248.52	-91.51	-2,693.49	-8,961.28	3,443.18	3,146.21	296.97	11.594		
12,800.00	7,219.64	7,167.64	7,219.64	159.74	248.50	-91.46	-2,693.49	-8,961.28	3,345.73	3,047.81	297.91	11.230		
12,900.00	7,219.05	7,167.05	7,219.05	162.53	248.48	-91.42	-2,693.49	-8,961.28	3,248.43	2,949.48	298.95	10.866		
13,000.00	7,218.45	7,166.45	7,218.45	165.32	248.46	-91.37	-2,693.49	-8,961.28	3,151.30	2,851.21	300.09	10.501		
13,100.00	7,217.86	7,165.86	7,217.86	168.11	248.44	-91.33	-2,693.49	-8,961.28	3,054.36	2,753.01	301.35	10.136		
13,200.00	7,217.26	7,165.26	7,217.26	170.90	248.42	-91.28	-2,693.49	-8,961.28	2,957.62	2,654.90	302.73	9.770		
13,300.00	7,216.66	7,164.66	7,216.66	173.70	248.40	-91.24	-2,693.49	-8,961.28	2,861.11	2,556.87	304.24	9.404		
13,400.00	7,216.07	7,164.07	7,216.07	176.49	248.37	-91.19	-2,693.49	-8,961.28	2,764.84	2,458.93	305.91	9.038		
13,500.00	7,215.47	7,163.47	7,215.47	179.29	248.35	-91.15	-2,693.49	-8,961.28	2,668.85	2,361.11	307.74	8.672		
13,600.00	7,214.88	7,162.88	7,214.88	182.09	248.33	-91.10	-2,693.49	-8,961.28	2,573.16	2,263.40	309.77	8.307		
13,700.00	7,214.28	7,162.28	7,214.28	184.90	248.31	-91.06	-2,693.49	-8,961.28	2,477.82	2,165.82	311.99	7.942		
13,800.00	7,213.68	7,161.68	7,213.68	187.70	248.29	-91.01	-2,693.49	-8,961.28	2,382.85	2,068.40	314.45	7.578		
13,900.00	7,213.09	7,161.09	7,213.09	190.51	248.27	-90.97	-2,693.49	-8,961.28	2,288.32	1,971.15	317.17	7.215		
14,000.00	7,212.49	7,160.49	7,212.49	193.32	248.25	-90.92	-2,693.49	-8,961.28	2,194.27	1,874.10	320.17	6.853		
14,100.00	7,211.90	7,159.90	7,211.90	196.13	248.23	-90.88	-2,693.49	-8,961.28	2,100.76	1,777.27	323.49	6.494		
14,200.00	7,211.30	7,159.30	7,211.30	198.94	248.21	-90.83	-2,693.49	-8,961.28	2,007.89	1,680.71	327.18	6.137		
14,300.00	7,210.71	7,158.71	7,210.71	201.75	248.19	-90.79	-2,693.49	-8,961.28	1,915.73	1,584.46	331.27	5.783		
14,400.00	7,210.11	7,158.11	7,210.11	204.56	248.17	-90.74	-2,693.49	-8,961.28	1,824.40	1,488.59	335.81	5.433		
14,500.00	7,209.51	7,157.51	7,209.51	207.38	248.15	-90.70	-2,693.49	-8,961.28	1,734.02	1,393.16	340.86	5.087		
14,600.00	7,208.92	7,156.92	7,208.92	210.19	248.12	-90.65	-2,693.49	-8,961.28	1,644.76	1,298.26	346.50	4.747		
14,700.00	7,208.32	7,156.32	7,208.32	213.01	248.10	-90.61	-2,693.49	-8,961.28	1,556.80	1,204.02	352.78	4.413		
14,800.00	7,207.73	7,155.73	7,207.73	215.83	248.08	-90.56	-2,693.49	-8,961.28	1,470.39	1,110.59	359.80	4.087		
14,900.00	7,207.13	7,155.13	7,207.13	218.65	248.06	-90.52	-2,693.49	-8,961.28	1,385.80	1,018.16	367.64	3.769		
15,000.00	7,206.53	7,154.53	7,206.53	221.47	248.04	-90.47	-2,693.49	-8,961.28	1,303.39	927.01	376.38	3.463		
15,100.00	7,205.94	7,153.94	7,205.94	224.29	248.02	-90.43	-2,693.49	-8,961.28	1,223.62	837.50	386.12	3.169		
15,200.00	7,205.34	7,153.34	7,205.34	227.11	248.00	-90.38	-2,693.49	-8,961.28	1,147.01	750.09	396.92	2.890		
15,258.04	7,205.00	7,153.00	7,205.00	228.75	247.99	-90.36	-2,693.49	-8,961.28	1,104.26	700.58	403.68	2.735 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	35.00	3.28	3.28	-106.48	-2,660.33	-8,993.53	9,378.82					
100.00	100.00	29.56	64.56	3.28	3.28	-106.48	-2,660.40	-8,993.57	9,378.88	9,372.31	6.57	1,428.548		
200.00	200.00	75.04	110.04	3.34	3.28	-106.48	-2,660.75	-8,993.79	9,379.55	9,372.93	6.62	1,416.692		
300.00	299.98	121.00	155.99	3.44	3.29	68.76	-2,661.42	-8,994.19	9,380.16	9,373.44	6.73	1,394.102		
400.00	399.84	165.72	200.70	3.59	3.31	68.77	-2,662.19	-8,994.82	9,380.10	9,373.20	6.90	1,359.792		
500.00	499.45	208.00	242.97	3.79	3.34	68.80	-2,662.87	-8,995.67	9,379.36	9,372.23	7.13	1,316.212		
600.00	598.70	208.00	242.97	4.03	3.34	68.82	-2,662.87	-8,995.67	9,378.21	9,370.84	7.37	1,272.257		
700.00	697.47	256.84	291.78	4.31	3.39	68.89	-2,663.48	-8,997.27	9,376.33	9,368.63	7.70	1,217.363		
800.00	795.62	300.00	334.88	4.64	3.44	68.98	-2,663.76	-8,999.46	9,374.24	9,366.17	8.08	1,160.582		
900.00	893.06	300.00	334.88	5.00	3.44	69.03	-2,663.76	-8,999.46	9,371.56	9,363.12	8.44	1,110.450		
1,000.00	989.65	300.00	334.88	5.40	3.44	69.08	-2,663.76	-8,999.46	9,368.69	9,359.85	8.84	1,060.208		
1,100.00	1,085.85	351.56	386.31	5.82	3.52	69.17	-2,663.70	-9,003.04	9,365.80	9,356.46	9.33	1,003.695		
1,200.00	1,182.06	391.00	425.60	6.27	3.59	69.24	-2,663.29	-9,006.47	9,363.94	9,354.10	9.84	951.872		
1,300.00	1,278.26	391.00	425.60	6.73	3.59	69.24	-2,663.29	-9,006.47	9,362.82	9,352.52	10.30	909.232		
1,395.29	1,369.94	422.30	456.74	7.18	3.65	69.30	-2,662.73	-9,009.62	9,362.54	9,351.74	10.80	866.665		
1,400.00	1,374.47	423.44	457.87	7.20	3.65	69.30	-2,662.71	-9,009.75	9,362.55	9,351.72	10.83	864.701		
1,500.00	1,470.67	447.55	481.82	7.69	3.70	69.34	-2,662.11	-9,012.44	9,363.11	9,351.75	11.36	824.520		
1,600.00	1,566.88	481.00	515.00	8.18	3.78	69.41	-2,661.07	-9,016.56	9,364.51	9,352.60	11.91	786.028		
1,700.00	1,663.08	481.00	515.00	8.68	3.78	69.41	-2,661.07	-9,016.56	9,366.75	9,354.34	12.41	754.695		
1,800.00	1,759.29	522.72	556.30	9.19	3.89	69.49	-2,659.51	-9,022.23	9,369.71	9,356.71	13.01	720.374		
1,900.00	1,855.49	572.00	604.97	9.70	4.02	69.59	-2,657.37	-9,029.65	9,373.64	9,360.00	13.63	687.639		
2,000.00	1,951.70	572.00	604.97	10.22	4.02	69.59	-2,657.37	-9,029.65	9,378.15	9,364.01	14.14	663.172		
2,100.00	2,047.90	572.00	604.97	10.73	4.02	69.59	-2,657.37	-9,029.65	9,383.73	9,369.08	14.65	640.370		
2,200.00	2,144.11	616.29	648.59	11.26	4.17	69.69	-2,655.27	-9,037.04	9,389.91	9,374.63	15.29	614.225		
2,300.00	2,240.31	637.36	669.29	11.78	4.24	69.73	-2,654.23	-9,040.82	9,397.07	9,381.21	15.86	592.471		
2,400.00	2,336.52	693.00	723.80	12.31	4.44	69.85	-2,651.38	-9,051.62	9,405.36	9,388.82	16.54	568.646		
2,500.00	2,432.72	693.00	723.80	12.84	4.44	69.85	-2,651.38	-9,051.62	9,413.97	9,396.91	17.06	551.961		
2,600.00	2,528.93	693.00	723.80	13.37	4.44	69.85	-2,651.38	-9,051.62	9,423.63	9,406.06	17.57	536.322		
2,700.00	2,625.13	726.05	756.07	13.91	4.57	69.92	-2,649.72	-9,058.53	9,434.13	9,415.94	18.19	518.612		
2,800.00	2,721.34	761.00	790.15	14.44	4.72	70.00	-2,648.14	-9,066.15	9,445.47	9,426.65	18.82	501.878		
2,900.00	2,817.54	761.00	790.15	14.98	4.72	70.00	-2,648.14	-9,066.15	9,457.60	9,438.27	19.33	489.208		
3,000.00	2,913.75	813.38	841.07	15.52	4.96	70.11	-2,645.52	-9,078.15	9,470.37	9,450.34	20.04	472.673		
3,100.00	3,009.95	855.00	881.38	16.06	5.16	70.20	-2,642.87	-9,088.16	9,483.93	9,463.24	20.69	458.351		
3,200.00	3,106.16	855.00	881.38	16.60	5.16	70.20	-2,642.87	-9,088.16	9,498.26	9,477.06	21.20	448.065		
3,300.00	3,202.37	892.70	917.76	17.14	5.36	70.29	-2,640.21	-9,097.67	9,513.31	9,491.46	21.85	435.434		
3,400.00	3,298.57	914.40	938.65	17.68	5.48	70.34	-2,638.65	-9,103.36	9,529.23	9,506.79	22.44	424.690		
3,500.00	3,394.78	949.00	971.84	18.22	5.67	70.42	-2,636.12	-9,112.77	9,546.00	9,522.92	23.08	413.517		
3,600.00	3,490.98	949.00	971.84	18.76	5.67	70.42	-2,636.12	-9,112.77	9,563.53	9,539.94	23.58	405.547		
3,700.00	3,587.19	1,012.87	1,032.89	19.31	6.06	70.58	-2,630.86	-9,130.79	9,581.64	9,557.28	24.36	393.386		
3,800.00	3,683.39	1,044.00	1,062.55	19.85	6.25	70.65	-2,627.92	-9,139.79	9,600.39	9,575.40	24.99	384.162		
3,900.00	3,779.60	1,044.00	1,062.55	20.39	6.25	70.65	-2,627.92	-9,139.79	9,620.05	9,594.57	25.48	377.581		
4,000.00	3,875.80	1,097.04	1,112.87	20.94	6.61	70.79	-2,622.57	-9,155.65	9,640.13	9,613.91	26.22	367.692		
4,100.00	3,972.01	1,139.00	1,152.47	21.48	6.90	70.89	-2,618.17	-9,168.81	9,661.25	9,634.35	26.91	359.057		
4,200.00	4,068.21	1,139.00	1,152.47	22.03	6.90	70.89	-2,618.17	-9,168.81	9,683.01	9,655.63	27.38	353.594		
4,300.00	4,164.42	1,139.00	1,152.47	22.57	6.90	70.89	-2,618.17	-9,168.81	9,705.75	9,677.89	27.86	348.404		
4,400.00	4,260.62	1,188.99	1,199.38	23.12	7.28	71.02	-2,612.56	-9,185.18	9,728.97	9,700.38	28.59	340.280		
4,500.00	4,356.83	1,234.00	1,241.31	23.67	7.62	71.14	-2,607.01	-9,200.56	9,753.20	9,723.90	29.30	332.873		
4,600.00	4,453.03	1,234.00	1,241.31	24.21	7.62	71.14	-2,607.01	-9,200.56	9,777.99	9,748.23	29.76	328.545		
4,700.00	4,549.24	1,234.00	1,241.31	24.76	7.62	71.14	-2,607.01	-9,200.56	9,803.74	9,773.52	30.22	324.430		
4,800.00	4,645.44	1,276.65	1,280.79	25.31	7.98	71.26	-2,601.45	-9,215.70	9,830.06	9,799.14	30.92	317.957		
4,900.00	4,741.65	1,329.00	1,328.91	25.86	8.42	71.40	-2,594.38	-9,235.05	9,857.45	9,825.78	31.67	311.235		
5,000.00	4,837.85	1,329.00	1,328.91	26.40	8.42	71.40	-2,594.38	-9,235.05	9,885.20	9,853.08	32.12	307.796		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	1,329.00	1,328.91	26.95	8.42	71.40	-2,594.38	-9,235.05	9,913.88	9,881.33	32.56	304.523		
5,200.00	5,030.26	1,329.00	1,328.91	27.50	8.42	71.40	-2,594.38	-9,235.05	9,943.49	9,910.50	32.99	301.410		
5,300.00	5,126.47	1,381.83	1,377.09	28.05	8.91	71.55	-2,586.90	-9,255.41	9,973.45	9,939.70	33.75	295.516		
8,100.00	7,247.65	3,574.49	3,366.94	42.66	31.84	-5.77	-2,325.56	-10,137.60	9,929.93	9,871.92	58.02	171.159		
8,200.00	7,247.05	3,619.74	3,408.18	43.96	32.31	-5.75	-2,320.06	-10,155.38	9,837.72	9,779.35	58.37	168.533		
8,300.00	7,246.46	3,642.16	3,428.61	45.46	32.55	-5.74	-2,317.38	-10,164.21	9,745.55	9,686.98	58.57	166.382		
8,400.00	7,245.86	3,848.40	3,617.50	47.13	34.68	-5.65	-2,293.56	-10,243.48	9,652.64	9,592.57	60.08	160.671		
8,500.00	7,245.27	3,887.00	3,652.90	48.93	35.07	-5.63	-2,288.93	-10,258.17	9,559.93	9,499.53	60.39	158.292		
8,600.00	7,244.67	3,887.00	3,652.90	50.84	35.07	-5.63	-2,288.93	-10,258.17	9,467.18	9,406.73	60.45	156.619		
8,700.00	7,244.07	3,887.00	3,652.90	52.85	35.07	-5.63	-2,288.93	-10,258.17	9,374.58	9,314.07	60.51	154.937		
8,800.00	7,243.48	3,887.00	3,652.90	54.94	35.07	-5.63	-2,288.93	-10,258.17	9,282.13	9,221.56	60.57	153.246		
8,900.00	7,242.88	3,923.64	3,686.40	57.10	35.46	-5.61	-2,284.48	-10,272.32	9,189.65	9,128.75	60.90	150.903		
9,000.00	7,242.29	3,937.69	3,699.23	59.32	35.61	-5.61	-2,282.80	-10,277.81	9,097.34	9,036.26	61.07	148.960		
9,100.00	7,241.69	7,339.14	6,958.88	61.60	57.71	-32.41	-2,089.70	-11,005.39	9,004.09	8,927.40	76.68	117.417		
9,200.00	7,241.09	7,340.37	6,960.11	63.92	57.71	-32.55	-2,089.74	-11,005.43	8,904.13	8,827.42	76.71	116.081		
9,300.00	7,240.50	7,341.62	6,961.36	66.29	57.72	-32.70	-2,089.78	-11,005.47	8,804.18	8,727.45	76.73	114.743		
9,400.00	7,239.90	7,342.89	6,962.63	68.70	57.72	-32.86	-2,089.82	-11,005.50	8,704.22	8,627.47	76.75	113.405		
9,500.00	7,239.31	7,344.17	6,963.90	71.14	57.72	-33.01	-2,089.86	-11,005.54	8,604.27	8,527.49	76.78	112.067		
9,600.00	7,238.71	7,345.46	6,965.20	73.61	57.73	-33.17	-2,089.90	-11,005.58	8,504.32	8,427.52	76.80	110.727		
9,700.00	7,238.11	7,346.77	6,966.50	76.11	57.73	-33.33	-2,089.94	-11,005.63	8,404.37	8,327.54	76.83	109.388		
9,800.00	7,237.52	7,348.09	6,967.82	78.64	57.73	-33.50	-2,089.98	-11,005.67	8,304.42	8,227.56	76.86	108.047		
9,900.00	7,236.92	7,349.43	6,969.16	81.19	57.74	-33.67	-2,090.02	-11,005.71	8,204.47	8,127.58	76.89	106.707		
10,000.00	7,236.33	7,386.00	7,005.69	83.75	57.82	-38.88	-2,091.25	-11,006.95	8,104.67	8,027.69	76.98	105.283		
10,100.00	7,235.73	7,386.00	7,005.69	86.34	57.82	-38.88	-2,091.25	-11,006.95	8,004.71	7,927.71	77.01	103.948		
10,200.00	7,235.14	7,386.00	7,005.69	88.94	57.82	-38.88	-2,091.25	-11,006.95	7,904.76	7,827.72	77.04	102.612		
10,300.00	7,234.54	7,386.00	7,005.69	91.56	57.82	-38.88	-2,091.25	-11,006.95	7,804.80	7,727.74	77.07	101.276		
10,400.00	7,233.94	7,386.00	7,005.69	94.19	57.82	-38.88	-2,091.25	-11,006.95	7,704.85	7,627.75	77.10	99.939		
10,500.00	7,233.35	7,386.00	7,005.69	96.84	57.82	-38.88	-2,091.25	-11,006.95	7,604.89	7,527.77	77.13	98.602		
10,600.00	7,232.75	7,386.00	7,005.69	99.50	57.82	-38.88	-2,091.25	-11,006.95	7,504.94	7,427.78	77.16	97.264		
10,700.00	7,232.16	7,386.00	7,005.69	102.17	57.82	-38.88	-2,091.25	-11,006.95	7,404.99	7,327.80	77.19	95.927		
10,800.00	7,231.56	7,386.00	7,005.69	104.85	57.82	-38.88	-2,091.25	-11,006.95	7,305.04	7,227.81	77.23	94.589		
10,900.00	7,230.96	7,386.00	7,005.69	107.53	57.82	-38.88	-2,091.25	-11,006.95	7,205.09	7,127.83	77.27	93.251		
11,000.00	7,230.37	7,386.00	7,005.69	110.23	57.82	-38.88	-2,091.25	-11,006.95	7,105.15	7,027.84	77.30	91.913		
11,100.00	7,229.77	7,386.00	7,005.69	112.93	57.82	-38.88	-2,091.25	-11,006.95	7,005.20	6,927.86	77.34	90.575		
11,200.00	7,229.18	7,386.00	7,005.69	115.65	57.82	-38.88	-2,091.25	-11,006.95	6,905.26	6,827.88	77.38	89.237		
11,300.00	7,228.58	7,386.00	7,005.69	118.37	57.82	-38.88	-2,091.25	-11,006.95	6,805.32	6,727.90	77.42	87.899		
11,400.00	7,227.99	7,386.00	7,005.69	121.09	57.82	-38.88	-2,091.25	-11,006.95	6,705.38	6,627.91	77.46	86.561		
11,500.00	7,227.39	7,386.00	7,005.69	123.82	57.82	-38.88	-2,091.25	-11,006.95	6,605.44	6,527.93	77.51	85.223		
11,600.00	7,226.79	7,386.00	7,005.69	126.56	57.82	-38.88	-2,091.25	-11,006.95	6,505.50	6,427.95	77.55	83.885		
11,700.00	7,226.20	7,386.00	7,005.69	129.30	57.82	-38.88	-2,091.25	-11,006.95	6,405.57	6,327.97	77.60	82.547		
11,800.00	7,225.60	7,386.00	7,005.69	132.05	57.82	-38.88	-2,091.25	-11,006.95	6,305.64	6,227.99	77.65	81.209		
11,900.00	7,225.01	7,386.00	7,005.69	134.80	57.82	-38.88	-2,091.25	-11,006.95	6,205.71	6,128.01	77.70	79.872		
12,000.00	7,224.41	7,386.00	7,005.69	137.56	57.82	-38.88	-2,091.25	-11,006.95	6,105.78	6,028.03	77.75	78.535		
12,100.00	7,223.81	7,386.00	7,005.69	140.32	57.82	-38.88	-2,091.25	-11,006.95	6,005.86	5,928.06	77.80	77.198		
12,200.00	7,223.22	7,386.00	7,005.69	143.08	57.82	-38.88	-2,091.25	-11,006.95	5,905.93	5,828.08	77.85	75.861		
12,300.00	7,222.62	7,386.00	7,005.69	145.85	57.82	-38.88	-2,091.25	-11,006.95	5,806.01	5,728.11	77.91	74.525		
12,400.00	7,222.03	7,386.00	7,005.69	148.62	57.82	-38.88	-2,091.25	-11,006.95	5,706.10	5,628.13	77.96	73.189		
12,500.00	7,221.43	7,386.00	7,005.69	151.40	57.82	-38.88	-2,091.25	-11,006.95	5,606.18	5,528.16	78.02	71.853		
12,600.00	7,220.83	7,386.00	7,005.69	154.18	57.82	-38.88	-2,091.25	-11,006.95	5,506.27	5,428.19	78.08	70.518		
12,700.00	7,220.24	7,386.00	7,005.69	156.96	57.82	-38.88	-2,091.25	-11,006.95	5,406.36	5,328.22	78.15	69.183		
12,800.00	7,219.64	7,386.00	7,005.69	159.74	57.82	-38.88	-2,091.25	-11,006.95	5,306.46	5,228.25	78.21	67.849		
12,900.00	7,219.05	7,386.00	7,005.69	162.53	57.82	-38.88	-2,091.25	-11,006.95	5,206.56	5,128.28	78.28	66.515		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 17-23-18(PR_150CC) - OH - OH												<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	
13,000.00	7,218.45	7,402.13	7,021.80	165.32	57.87	-41.60	-2,091.82	-11,007.54	5,106.62	5,028.28	78.35	65.180	
13,100.00	7,217.86	7,404.38	7,024.04	168.11	57.87	-42.00	-2,091.90	-11,007.63	5,006.72	4,928.30	78.42	63.848	
13,200.00	7,217.26	7,406.65	7,026.31	170.90	57.88	-42.41	-2,091.98	-11,007.71	4,906.82	4,828.33	78.49	62.517	
13,300.00	7,216.66	7,408.95	7,028.61	173.70	57.89	-42.84	-2,092.06	-11,007.80	4,806.92	4,728.36	78.56	61.187	
13,400.00	7,216.07	7,411.28	7,030.94	176.49	57.89	-43.27	-2,092.14	-11,007.89	4,707.02	4,628.39	78.64	59.858	
13,500.00	7,215.47	7,413.63	7,033.29	179.29	57.90	-43.72	-2,092.23	-11,007.98	4,607.13	4,528.42	78.71	58.530	
13,600.00	7,214.88	7,416.02	7,035.67	182.09	57.91	-44.18	-2,092.31	-11,008.07	4,507.24	4,428.45	78.79	57.202	
13,700.00	7,214.28	7,418.43	7,038.08	184.90	57.91	-44.65	-2,092.40	-11,008.16	4,407.35	4,328.47	78.88	55.876	
13,800.00	7,213.68	7,420.87	7,040.51	187.70	57.92	-45.14	-2,092.48	-11,008.25	4,307.47	4,228.51	78.96	54.550	
13,900.00	7,213.09	7,423.34	7,042.98	190.51	57.92	-45.64	-2,092.57	-11,008.35	4,207.59	4,128.54	79.05	53.225	
14,000.00	7,212.49	7,425.84	7,045.47	193.32	57.93	-46.15	-2,092.66	-11,008.45	4,107.71	4,028.57	79.15	51.901	
14,100.00	7,211.90	7,428.37	7,048.00	196.13	57.94	-46.68	-2,092.74	-11,008.55	4,007.84	3,928.60	79.24	50.577	
14,200.00	7,211.30	7,430.93	7,050.56	198.94	57.95	-47.22	-2,092.83	-11,008.65	3,907.97	3,828.63	79.34	49.255	
14,300.00	7,210.71	7,433.52	7,053.15	201.75	57.95	-47.78	-2,092.93	-11,008.75	3,808.11	3,728.66	79.45	47.933	
14,400.00	7,210.11	7,436.15	7,055.77	204.56	57.96	-48.36	-2,093.02	-11,008.86	3,708.25	3,628.69	79.56	46.612	
14,500.00	7,209.51	7,438.81	7,058.42	207.38	57.97	-48.96	-2,093.11	-11,008.96	3,608.40	3,528.73	79.67	45.291	
14,600.00	7,208.92	7,441.50	7,061.11	210.19	57.97	-49.57	-2,093.20	-11,009.07	3,508.55	3,428.76	79.79	43.972	
14,700.00	7,208.32	7,444.22	7,063.84	213.01	57.98	-50.20	-2,093.30	-11,009.18	3,408.71	3,328.79	79.92	42.652	
14,800.00	7,207.73	7,446.99	7,066.59	215.83	57.99	-50.85	-2,093.39	-11,009.30	3,308.87	3,228.82	80.05	41.333	
14,900.00	7,207.13	7,449.78	7,069.38	218.65	58.00	-51.52	-2,093.49	-11,009.41	3,209.05	3,128.85	80.20	40.014	
15,000.00	7,206.53	7,452.61	7,072.21	221.47	58.00	-52.20	-2,093.59	-11,009.53	3,109.23	3,028.88	80.35	38.696	
15,100.00	7,205.94	7,455.48	7,075.08	224.29	58.01	-52.92	-2,093.69	-11,009.65	3,009.42	2,928.90	80.51	37.377	
15,200.00	7,205.34	7,458.39	7,077.98	227.11	58.02	-53.65	-2,093.79	-11,009.77	2,909.62	2,828.92	80.69	36.058	
15,258.04	7,205.00	7,460.10	7,079.68	228.75	58.02	-54.09	-2,093.85	-11,009.84	2,851.69	2,770.89	80.80	35.293 CC, ES, SF	



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	35.00	3.28	3.28	-106.48	-2,651.24	-8,960.99	9,345.03					
100.00	100.00	0.00	35.00	3.28	3.28	-106.48	-2,651.24	-8,960.99	9,345.19	9,338.62	6.56	1,423.508		
200.00	200.00	58.31	93.31	3.34	3.28	-106.48	-2,651.61	-8,961.22	9,345.90	9,339.28	6.62	1,411.817		
300.00	299.98	577.00	611.23	3.44	3.96	68.93	-2,637.03	-8,960.08	9,344.63	9,337.22	7.41	1,261.025		
400.00	399.84	577.00	611.23	3.59	3.96	69.02	-2,637.03	-8,960.08	9,339.95	9,332.39	7.55	1,236.589		
500.00	499.45	625.93	659.78	3.79	4.09	69.17	-2,630.95	-8,960.72	9,334.71	9,326.83	7.88	1,184.598		
600.00	598.70	667.00	700.45	4.03	4.21	69.35	-2,625.38	-8,961.80	9,329.01	9,320.77	8.24	1,132.553		
700.00	697.47	754.18	786.59	4.31	4.49	69.63	-2,612.31	-8,964.78	9,322.55	9,313.75	8.80	1,059.389		
800.00	795.62	932.52	962.08	4.64	5.17	70.17	-2,581.18	-8,970.89	9,314.28	9,304.47	9.80	949.981		
900.00	893.06	1,014.39	1,042.15	5.00	5.53	70.55	-2,564.39	-8,974.14	9,304.80	9,294.27	10.52	884.086		
1,000.00	989.65	1,101.80	1,127.08	5.40	5.96	70.98	-2,544.20	-8,978.33	9,294.45	9,283.10	11.34	819.469		
1,100.00	1,085.85	1,169.87	1,192.81	5.82	6.32	71.20	-2,526.92	-8,982.04	9,283.90	9,271.78	12.12	766.034		
1,200.00	1,182.06	1,228.00	1,248.64	6.27	6.64	71.38	-2,511.14	-8,985.68	9,273.89	9,261.01	12.88	719.983		
1,300.00	1,278.26	1,297.28	1,314.74	6.73	7.06	71.61	-2,490.96	-8,990.54	9,264.36	9,250.61	13.76	673.511		
1,400.00	1,374.47	1,364.26	1,378.13	7.20	7.49	71.85	-2,469.96	-8,995.71	9,255.28	9,240.62	14.66	631.542		
1,500.00	1,470.67	1,417.00	1,427.69	7.69	7.85	72.03	-2,452.48	-9,000.11	9,246.70	9,231.21	15.49	597.025		
1,600.00	1,566.88	1,450.97	1,459.47	8.18	8.09	72.16	-2,440.87	-9,003.18	9,238.82	9,222.60	16.22	569.614		
1,700.00	1,663.08	1,479.94	1,486.51	8.68	8.30	72.26	-2,430.85	-9,006.00	9,231.78	9,214.85	16.92	545.487		
1,800.00	1,759.29	1,512.00	1,516.35	9.19	8.53	72.38	-2,419.64	-9,009.35	9,225.56	9,207.90	17.66	522.459		
1,900.00	1,855.49	1,561.03	1,561.86	9.70	8.90	72.56	-2,402.22	-9,014.75	9,220.08	9,201.54	18.54	497.374		
2,000.00	1,951.70	1,607.00	1,604.40	10.22	9.25	72.74	-2,385.59	-9,019.98	9,215.21	9,195.81	19.40	474.995		
2,100.00	2,047.90	1,653.92	1,647.66	10.73	9.63	72.92	-2,368.29	-9,025.56	9,211.03	9,190.74	20.29	453.934		
2,200.00	2,144.11	1,701.00	1,690.87	11.26	10.01	73.10	-2,350.55	-9,031.46	9,207.60	9,186.41	21.19	434.552		
2,300.00	2,240.31	1,732.89	1,720.02	11.78	10.28	73.22	-2,338.32	-9,035.64	9,204.90	9,182.93	21.98	418.834		
2,400.00	2,336.52	1,771.42	1,755.11	12.31	10.60	73.38	-2,323.29	-9,040.88	9,202.98	9,180.15	22.83	403.191		
2,500.00	2,432.72	1,880.35	1,853.66	12.84	11.57	73.81	-2,279.49	-9,056.16	9,201.71	9,177.40	24.31	378.524		
2,600.00	2,528.93	1,954.05	1,919.99	13.37	12.24	74.11	-2,249.01	-9,066.35	9,200.55	9,175.04	25.51	360.691		
2,700.00	2,625.13	2,007.37	1,967.81	13.91	12.74	74.33	-2,226.66	-9,073.84	9,199.97	9,173.44	26.53	346.821		
2,730.48	2,654.46	2,019.38	1,978.58	14.07	12.85	74.38	-2,221.62	-9,075.56	9,199.93	9,173.13	26.80	343.295		
2,800.00	2,721.34	2,046.78	2,003.13	14.44	13.11	74.49	-2,210.12	-9,079.52	9,200.12	9,172.70	27.42	335.525		
2,900.00	2,817.54	2,089.83	2,041.70	14.98	13.52	74.67	-2,192.09	-9,085.89	9,201.03	9,172.68	28.35	324.564		
3,000.00	2,913.75	2,202.56	2,142.56	15.52	14.61	75.14	-2,144.53	-9,102.45	9,202.27	9,172.32	29.96	307.190		
3,100.00	3,009.95	2,254.37	2,188.85	16.06	15.11	75.35	-2,122.54	-9,110.08	9,204.04	9,173.06	30.98	297.089		
3,200.00	3,106.16	2,303.02	2,232.28	16.60	15.59	75.55	-2,101.87	-9,117.37	9,206.48	9,174.51	31.98	287.927		
3,300.00	3,202.37	2,349.95	2,274.21	17.14	16.05	75.74	-2,082.05	-9,124.54	9,209.63	9,176.68	32.95	279.483		
3,400.00	3,298.57	2,369.00	2,291.24	17.68	16.24	75.82	-2,074.04	-9,127.49	9,213.54	9,179.89	33.65	273.781		
3,500.00	3,394.78	2,423.31	2,339.81	18.22	16.78	76.05	-2,051.33	-9,136.10	9,218.16	9,183.46	34.70	265.656		
3,600.00	3,490.98	2,464.00	2,376.22	18.76	17.18	76.21	-2,034.44	-9,142.79	9,223.63	9,188.02	35.61	259.020		
3,700.00	3,587.19	2,533.27	2,438.24	19.31	17.87	76.50	-2,005.80	-9,154.32	9,229.75	9,192.95	36.80	250.799		
3,800.00	3,683.39	2,598.47	2,496.67	19.85	18.51	76.76	-1,978.98	-9,165.16	9,236.33	9,198.38	37.95	243.389		
3,900.00	3,779.60	2,674.28	2,564.79	20.39	19.26	77.07	-1,948.25	-9,177.86	9,243.51	9,204.31	39.20	235.810		
4,000.00	3,875.80	2,853.82	2,725.07	20.94	21.08	77.81	-1,872.68	-9,206.68	9,250.40	9,208.89	41.51	222.838		
4,100.00	3,972.01	2,900.29	2,766.17	21.48	21.57	78.00	-1,852.27	-9,214.04	9,257.71	9,215.22	42.49	217.864		
4,200.00	4,068.21	2,958.86	2,817.97	22.03	22.18	78.25	-1,826.63	-9,223.49	9,265.71	9,222.12	43.59	212.551		
4,300.00	4,164.42	3,169.15	3,006.22	22.57	24.32	79.10	-1,738.63	-9,255.71	9,273.55	9,227.33	46.22	200.658		
4,400.00	4,260.62	3,221.00	3,052.39	23.12	24.85	79.32	-1,716.33	-9,263.37	9,281.51	9,234.28	47.24	196.494		
4,500.00	4,356.83	3,267.28	3,093.61	23.67	25.32	79.51	-1,696.49	-9,270.35	9,290.16	9,241.96	48.19	192.766		
4,600.00	4,453.03	3,316.00	3,137.23	24.21	25.82	79.71	-1,676.10	-9,277.83	9,299.49	9,250.32	49.17	189.114		
4,700.00	4,549.24	3,446.08	3,254.15	24.76	27.13	80.23	-1,622.54	-9,297.33	9,308.88	9,257.92	50.96	182.686		
4,800.00	4,645.44	3,503.00	3,305.45	25.31	27.70	80.46	-1,599.41	-9,305.94	9,318.91	9,266.91	52.00	179.215		
4,900.00	4,741.65	3,544.04	3,342.43	25.86	28.11	80.62	-1,582.79	-9,312.26	9,329.58	9,276.70	52.88	176.429		
5,000.00	4,837.85	3,601.98	3,394.55	26.40	28.69	80.85	-1,559.15	-9,321.30	9,340.88	9,286.96	53.93	173.215		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	4,934.06	3,723.90	3,504.22	26.95	29.92	81.34	-1,509.29	-9,340.05	9,352.44	9,296.83	55.61	168.175		
5,200.00	5,030.26	3,808.85	3,580.91	27.50	30.77	81.67	-1,475.10	-9,352.94	9,364.27	9,307.36	56.92	164.522		
5,300.00	5,126.47	3,896.30	3,659.60	28.05	31.65	82.02	-1,439.30	-9,366.07	9,376.45	9,318.21	58.25	160.976		
5,400.00	5,222.67	3,914.50	3,675.88	28.60	31.84	82.10	-1,431.64	-9,368.88	9,389.31	9,330.42	58.89	159.426		
5,500.00	5,318.88	3,942.49	3,700.82	29.15	32.14	82.21	-1,419.72	-9,373.28	9,402.98	9,343.35	59.63	157.685		
5,600.00	5,415.08	3,976.00	3,730.52	29.70	32.49	82.35	-1,405.18	-9,378.70	9,417.48	9,357.06	60.42	155.867		
5,700.00	5,511.29	3,976.00	3,730.52	30.25	32.49	82.35	-1,405.18	-9,378.70	9,432.85	9,372.00	60.85	155.007		
5,800.00	5,607.49	4,026.82	3,775.25	30.79	33.04	82.56	-1,382.63	-9,387.25	9,448.91	9,387.07	61.83	152.809		
5,900.00	5,703.70	4,071.00	3,813.84	31.34	33.53	82.74	-1,362.56	-9,394.97	9,465.88	9,403.15	62.74	150.881		
6,000.00	5,799.90	4,071.00	3,813.84	31.89	33.53	82.74	-1,362.56	-9,394.97	9,483.62	9,420.47	63.15	150.169		
6,100.00	5,896.11	4,122.14	3,858.19	32.44	34.11	82.96	-1,338.82	-9,404.16	9,502.10	9,437.96	64.14	148.148		
6,200.00	5,992.32	4,165.00	3,895.12	32.99	34.60	83.14	-1,318.54	-9,412.03	9,521.36	9,456.33	65.03	146.423		
6,300.00	6,088.52	6,373.21	5,989.10	33.54	50.29	89.92	-747.71	-9,620.18	9,525.65	9,444.65	81.00	117.605		
6,400.00	6,184.73	6,461.83	6,077.66	34.09	50.54	90.08	-744.68	-9,620.87	9,526.76	9,445.00	81.76	116.521		
6,500.00	6,280.93	6,540.06	6,155.86	34.64	50.75	90.23	-742.50	-9,621.63	9,528.11	9,445.62	82.49	115.510		
6,600.00	6,377.14	6,618.59	6,234.36	35.19	50.96	90.36	-740.77	-9,622.58	9,529.71	9,446.50	83.22	114.519		
6,700.00	6,473.34	6,718.67	6,334.42	35.74	51.21	90.54	-739.13	-9,623.93	9,531.49	9,447.51	83.99	113.490		
6,800.00	6,569.55	6,823.43	6,439.17	36.29	51.48	90.71	-737.93	-9,625.30	9,533.27	9,448.50	84.77	112.466		
6,900.00	6,665.75	6,920.10	6,535.83	36.84	51.71	86.23	-737.17	-9,626.55	9,534.91	9,449.39	85.52	111.492		
7,000.00	6,761.11	7,016.38	6,632.09	37.39	51.95	60.32	-736.62	-9,627.80	9,526.69	9,440.42	86.26	110.435		
7,100.00	6,853.41	7,108.84	6,724.54	37.89	52.18	45.09	-736.18	-9,629.02	9,503.16	9,416.20	86.96	109.279		
7,200.00	6,940.36	7,203.78	6,811.92	38.34	52.41	36.80	-735.76	-9,630.16	9,464.91	9,377.30	87.62	108.027		
7,300.00	7,019.83	7,276.30	6,891.99	38.74	52.59	32.37	-735.38	-9,631.21	9,412.90	9,324.73	88.17	106.761		
7,400.00	7,089.85	7,347.12	6,962.80	39.10	52.77	30.34	-735.04	-9,632.14	9,348.38	9,259.72	88.66	105.435		
7,500.00	7,148.71	7,413.67	7,029.34	39.42	52.93	30.27	-734.72	-9,633.01	9,272.94	9,183.84	89.10	104.072		
7,600.00	7,194.95	7,478.48	7,094.15	39.71	53.10	32.51	-734.42	-9,633.75	9,188.34	9,098.86	89.48	102.684		
7,700.00	7,227.43	7,524.15	7,139.82	40.01	53.21	38.71	-734.22	-9,634.20	9,096.70	9,006.93	89.77	101.339		
7,800.00	7,245.37	7,549.74	7,165.41	40.37	53.28	55.71	-734.10	-9,634.42	9,000.29	8,910.33	89.95	100.055		
7,900.00	7,248.84	7,555.57	7,171.24	40.87	53.29	88.81	-734.08	-9,634.47	8,901.52	8,811.47	90.05	98.847		
8,000.00	7,248.24	7,555.87	7,171.54	41.62	53.30	88.82	-734.07	-9,634.47	8,802.45	8,712.31	90.13	97.660		
8,100.00	7,247.65	7,556.17	7,171.84	42.66	53.30	88.83	-734.07	-9,634.47	8,703.40	8,613.18	90.22	96.469		
8,200.00	7,247.05	7,556.47	7,172.14	43.96	53.30	88.85	-734.07	-9,634.48	8,604.37	8,514.05	90.31	95.273		
8,300.00	7,246.46	7,556.76	7,172.43	45.46	53.30	88.86	-734.07	-9,634.48	8,505.36	8,414.95	90.41	94.073		
8,400.00	7,245.86	7,557.06	7,172.72	47.13	53.30	88.88	-734.07	-9,634.48	8,406.37	8,315.85	90.52	92.867		
8,500.00	7,245.27	7,557.34	7,173.01	48.93	53.30	88.89	-734.07	-9,634.48	8,307.41	8,216.78	90.64	91.657		
8,600.00	7,244.67	7,557.63	7,173.30	50.84	53.30	88.90	-734.07	-9,634.49	8,208.48	8,117.72	90.76	90.442		
8,700.00	7,244.07	7,557.92	7,173.58	52.85	53.30	88.92	-734.06	-9,634.49	8,109.57	8,018.68	90.89	89.222		
8,800.00	7,243.48	7,558.20	7,173.87	54.94	53.30	88.93	-734.06	-9,634.49	8,010.69	7,919.66	91.03	87.998		
8,900.00	7,242.88	7,558.48	7,174.15	57.10	53.30	88.94	-734.06	-9,634.49	7,911.84	7,820.65	91.18	86.768		
9,000.00	7,242.29	7,558.76	7,174.43	59.32	53.30	88.96	-734.06	-9,634.50	7,813.01	7,721.67	91.34	85.534		
9,100.00	7,241.69	7,559.04	7,174.70	61.60	53.30	88.97	-734.06	-9,634.50	7,714.22	7,622.71	91.51	84.295		
9,200.00	7,241.09	7,559.31	7,174.98	63.92	53.30	88.98	-734.06	-9,634.50	7,615.46	7,523.76	91.70	83.051		
9,300.00	7,240.50	7,559.58	7,175.25	66.29	53.30	89.00	-734.06	-9,634.50	7,516.73	7,424.84	91.89	81.802		
9,400.00	7,239.90	7,559.85	7,175.52	68.70	53.31	89.01	-734.06	-9,634.50	7,418.03	7,325.94	92.09	80.549		
9,500.00	7,239.31	7,560.12	7,175.79	71.14	53.31	89.02	-734.06	-9,634.51	7,319.37	7,227.06	92.31	79.291		
9,600.00	7,238.71	7,560.39	7,176.05	73.61	53.31	89.04	-734.05	-9,634.51	7,220.75	7,128.21	92.54	78.028		
9,700.00	7,238.11	7,560.65	7,176.32	76.11	53.31	89.05	-734.05	-9,634.51	7,122.17	7,029.38	92.78	76.760		
9,800.00	7,237.52	7,560.91	7,176.58	78.64	53.31	89.06	-734.05	-9,634.51	7,023.62	6,930.58	93.04	75.488		
9,900.00	7,236.92	7,561.18	7,176.84	81.19	53.31	89.07	-734.05	-9,634.52	6,925.12	6,831.80	93.32	74.211		
10,000.00	7,236.33	7,561.43	7,177.10	83.75	53.31	89.09	-734.05	-9,634.52	6,826.66	6,733.05	93.61	72.930		
10,100.00	7,235.73	7,561.69	7,177.36	86.34	53.31	89.10	-734.05	-9,634.52	6,728.25	6,634.33	93.91	71.644		
10,200.00	7,235.14	7,561.95	7,177.61	88.94	53.31	89.11	-734.05	-9,634.52	6,629.88	6,535.64	94.24	70.354		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	7,562.20	7,177.86	91.56	53.31	89.12	-734.05	-9,634.52	6,531.56	6,436.98	94.58	69.060		
10,400.00	7,233.94	7,562.45	7,178.12	94.19	53.31	89.13	-734.04	-9,634.53	6,433.30	6,338.36	94.94	67.762		
10,500.00	7,233.35	7,562.70	7,178.36	96.84	53.31	89.15	-734.04	-9,634.53	6,335.09	6,239.77	95.32	66.460		
10,600.00	7,232.75	7,562.95	7,178.61	99.50	53.31	89.16	-734.04	-9,634.53	6,236.93	6,141.21	95.73	65.155		
10,700.00	7,232.16	7,563.19	7,178.86	102.17	53.31	89.17	-734.04	-9,634.53	6,138.84	6,042.69	96.15	63.846		
10,800.00	7,231.56	7,563.44	7,179.10	104.85	53.31	89.18	-734.04	-9,634.53	6,040.81	5,944.21	96.60	62.533		
10,900.00	7,230.96	7,563.68	7,179.34	107.53	53.32	89.19	-734.04	-9,634.54	5,942.84	5,845.76	97.08	61.218		
11,000.00	7,230.37	7,563.92	7,179.58	110.23	53.32	89.20	-734.04	-9,634.54	5,844.94	5,747.36	97.58	59.900		
11,100.00	7,229.77	7,564.16	7,179.82	112.93	53.32	89.22	-734.04	-9,634.54	5,747.12	5,649.01	98.11	58.579		
11,200.00	7,229.18	7,564.39	7,180.06	115.65	53.32	89.23	-734.04	-9,634.54	5,649.37	5,550.70	98.67	57.256		
11,300.00	7,228.58	7,564.63	7,180.30	118.37	53.32	89.24	-734.04	-9,634.54	5,551.70	5,452.44	99.26	55.931		
11,400.00	7,227.99	7,564.86	7,180.53	121.09	53.32	89.25	-734.03	-9,634.54	5,454.12	5,354.23	99.88	54.605		
11,500.00	7,227.39	7,565.10	7,180.76	123.82	53.32	89.26	-734.03	-9,634.55	5,356.62	5,256.08	100.54	53.277		
11,600.00	7,226.79	7,565.33	7,180.99	126.56	53.32	89.27	-734.03	-9,634.55	5,259.22	5,157.98	101.24	51.949		
11,700.00	7,226.20	7,565.55	7,181.22	129.30	53.32	89.28	-734.03	-9,634.55	5,161.92	5,059.95	101.97	50.621		
11,800.00	7,225.60	7,565.78	7,181.45	132.05	53.32	89.29	-734.03	-9,634.55	5,064.72	4,961.98	102.75	49.293		
11,900.00	7,225.01	7,566.01	7,181.67	134.80	53.32	89.30	-734.03	-9,634.55	4,967.64	4,864.07	103.57	47.965		
12,000.00	7,224.41	7,566.23	7,181.90	137.56	53.32	89.31	-734.03	-9,634.56	4,870.67	4,766.24	104.43	46.639		
12,100.00	7,223.81	7,566.45	7,182.12	140.32	53.32	89.32	-734.03	-9,634.56	4,773.83	4,668.48	105.35	45.315		
12,200.00	7,223.22	7,566.68	7,182.34	143.08	53.32	89.34	-734.03	-9,634.56	4,677.12	4,570.81	106.31	43.993		
12,300.00	7,222.62	7,566.90	7,182.56	145.85	53.32	89.35	-734.03	-9,634.56	4,580.55	4,473.22	107.34	42.675		
12,400.00	7,222.03	7,567.11	7,182.78	148.62	53.32	89.36	-734.02	-9,634.56	4,484.14	4,375.72	108.42	41.360		
12,500.00	7,221.43	7,567.33	7,183.00	151.40	53.32	89.37	-734.02	-9,634.56	4,387.88	4,278.32	109.56	40.050		
12,600.00	7,220.83	7,567.55	7,183.21	154.18	53.32	89.38	-734.02	-9,634.57	4,291.79	4,181.02	110.77	38.745		
12,700.00	7,220.24	7,567.76	7,183.43	156.96	53.33	89.39	-734.02	-9,634.57	4,195.89	4,083.84	112.05	37.447		
12,800.00	7,219.64	7,567.97	7,183.64	159.74	53.33	89.40	-734.02	-9,634.57	4,100.18	3,986.78	113.40	36.156		
12,900.00	7,219.05	7,568.18	7,183.85	162.53	53.33	89.41	-734.02	-9,634.57	4,004.69	3,889.85	114.84	34.872		
13,000.00	7,218.45	7,568.39	7,184.06	165.32	53.33	89.42	-734.02	-9,634.57	3,909.41	3,793.05	116.36	33.598		
13,100.00	7,217.86	7,568.60	7,184.27	168.11	53.33	89.43	-734.02	-9,634.57	3,814.38	3,696.41	117.97	32.333		
13,200.00	7,217.26	7,568.81	7,184.47	170.90	53.33	89.44	-734.02	-9,634.58	3,719.61	3,599.93	119.68	31.079		
13,300.00	7,216.66	7,569.01	7,184.68	173.70	53.33	89.45	-734.02	-9,634.58	3,625.13	3,503.63	121.50	29.837		
13,400.00	7,216.07	7,569.22	7,184.88	176.49	53.33	89.46	-734.02	-9,634.58	3,530.94	3,407.52	123.42	28.609		
13,500.00	7,215.47	7,569.42	7,185.09	179.29	53.33	89.47	-734.01	-9,634.58	3,437.08	3,311.62	125.47	27.394		
13,600.00	7,214.88	7,569.62	7,185.29	182.09	53.33	89.48	-734.01	-9,634.58	3,343.58	3,215.94	127.64	26.195		
13,700.00	7,214.28	7,569.82	7,185.49	184.90	53.33	89.49	-734.01	-9,634.58	3,250.47	3,120.51	129.96	25.012		
13,800.00	7,213.68	7,570.02	7,185.69	187.70	53.33	89.49	-734.01	-9,634.59	3,157.78	3,025.36	132.42	23.847		
13,900.00	7,213.09	7,570.22	7,185.88	190.51	53.33	89.50	-734.01	-9,634.59	3,065.55	2,930.51	135.04	22.701		
14,000.00	7,212.49	7,570.41	7,186.08	193.32	53.33	89.51	-734.01	-9,634.59	2,973.81	2,835.98	137.83	21.576		
14,100.00	7,211.90	7,570.61	7,186.28	196.13	53.33	89.52	-734.01	-9,634.59	2,882.63	2,741.83	140.81	20.472		
14,200.00	7,211.30	7,570.80	7,186.47	198.94	53.33	89.53	-734.01	-9,634.59	2,792.06	2,648.07	143.99	19.391		
14,300.00	7,210.71	7,571.00	7,186.66	201.75	53.33	89.54	-734.01	-9,634.59	2,702.15	2,554.77	147.38	18.335		
14,400.00	7,210.11	7,571.19	7,186.85	204.56	53.33	89.55	-734.01	-9,634.59	2,612.97	2,461.97	151.00	17.304		
14,500.00	7,209.51	7,571.38	7,187.04	207.38	53.33	89.56	-734.01	-9,634.60	2,524.60	2,369.73	154.87	16.301		
14,600.00	7,208.92	7,571.57	7,187.23	210.19	53.34	89.57	-734.00	-9,634.60	2,437.13	2,278.12	159.01	15.327		
14,700.00	7,208.32	7,571.75	7,187.42	213.01	53.34	89.58	-734.00	-9,634.60	2,350.66	2,187.22	163.44	14.382		
14,800.00	7,207.73	7,571.94	7,187.61	215.83	53.34	89.59	-734.00	-9,634.60	2,265.31	2,097.13	168.18	13.470		
14,900.00	7,207.13	7,572.13	7,187.79	218.65	53.34	89.60	-734.00	-9,634.60	2,181.20	2,007.95	173.24	12.590		
15,000.00	7,206.53	7,572.31	7,187.98	221.47	53.34	89.61	-734.00	-9,634.60	2,098.48	1,919.82	178.67	11.745		
15,100.00	7,205.94	7,572.49	7,188.16	224.29	53.34	89.62	-734.00	-9,634.60	2,017.33	1,832.87	184.46	10.936		
15,200.00	7,205.34	7,572.68	7,188.34	227.11	53.34	89.62	-734.00	-9,634.61	1,937.95	1,747.30	190.65	10.165		
15,258.04	7,205.00	7,572.78	7,188.45	228.75	53.34	89.63	-734.00	-9,634.61	1,892.76	1,698.34	194.42	9.735 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	2,183.88	2,118.77	3.28	15.19	-103.53	-2,106.29	-8,751.67	9,247.56					
100.00	100.00	2,207.00	2,139.89	3.28	15.40	-103.48	-2,097.36	-8,748.72	9,224.97	9,207.23	17.74	519.885		
200.00	200.00	2,266.80	2,194.60	3.34	15.93	-103.35	-2,074.36	-8,741.38	9,202.88	9,184.63	18.26	504.052		
300.00	299.98	2,304.32	2,229.01	3.44	16.26	72.41	-2,060.04	-8,737.05	9,181.02	9,162.38	18.64	492.504		
400.00	399.84	2,515.99	2,423.03	3.59	18.15	73.40	-1,979.23	-8,712.03	9,158.20	9,137.70	20.50	446.799		
500.00	499.45	2,555.35	2,458.89	3.79	18.51	73.99	-1,963.71	-8,707.32	9,133.96	9,112.95	21.00	434.856		
600.00	598.70	2,602.93	2,502.18	4.03	18.95	74.62	-1,944.68	-8,701.98	9,109.44	9,087.81	21.63	421.140		
700.00	697.47	2,679.95	2,572.24	4.31	19.66	75.37	-1,913.84	-8,693.47	9,084.45	9,061.89	22.55	402.776		
800.00	795.62	2,890.13	2,762.66	4.64	21.63	76.65	-1,828.35	-8,668.94	9,058.06	9,033.39	24.67	367.137		
900.00	893.06	2,937.67	2,805.74	5.00	22.07	77.37	-1,809.08	-8,663.17	9,031.05	9,005.61	25.44	355.037		
1,000.00	989.65	2,994.67	2,857.63	5.40	22.60	78.10	-1,786.52	-8,656.29	9,003.91	8,977.60	26.31	342.161		
1,100.00	1,085.85	3,065.82	2,922.86	5.82	23.25	78.38	-1,759.53	-8,647.46	8,976.93	8,949.60	27.33	328.454		
1,200.00	1,182.06	3,139.45	2,990.45	6.27	23.91	78.67	-1,731.78	-8,638.31	8,950.35	8,921.97	28.39	315.300		
1,300.00	1,278.26	3,224.17	3,068.03	6.73	24.68	79.00	-1,699.37	-8,627.91	8,924.14	8,894.58	29.56	301.879		
1,400.00	1,374.47	3,277.67	3,117.08	7.20	25.17	79.22	-1,679.03	-8,621.31	8,898.32	8,867.83	30.49	291.815		
1,500.00	1,470.67	3,319.23	3,155.39	7.69	25.53	79.38	-1,663.77	-8,616.23	8,873.18	8,841.84	31.34	283.144		
1,600.00	1,566.88	3,346.00	3,180.19	8.18	25.77	79.48	-1,654.22	-8,612.98	8,848.74	8,816.67	32.08	275.859		
1,700.00	1,663.08	3,390.38	3,221.43	8.68	26.15	79.65	-1,638.67	-8,607.75	8,825.03	8,792.07	32.95	267.792		
1,800.00	1,759.29	3,440.00	3,267.68	9.19	26.57	79.84	-1,621.57	-8,602.22	8,802.14	8,768.26	33.88	259.783		
1,900.00	1,855.49	3,544.00	3,364.95	9.70	27.44	80.23	-1,586.69	-8,590.48	8,779.77	8,744.55	35.22	249.271		
2,000.00	1,951.70	3,791.70	3,597.00	10.22	29.49	81.16	-1,505.72	-8,559.85	8,757.63	8,720.02	37.61	232.841		
2,100.00	2,047.90	3,875.90	3,675.59	10.73	30.20	81.47	-1,477.72	-8,548.45	8,734.11	8,695.30	38.82	225.011		
2,200.00	2,144.11	3,944.20	3,738.91	11.26	30.79	81.74	-1,453.81	-8,539.29	8,710.78	8,670.86	39.92	218.186		
2,300.00	2,240.31	3,980.46	3,772.43	11.78	31.11	81.88	-1,440.78	-8,534.65	8,688.17	8,647.37	40.80	212.959		
2,400.00	2,336.52	4,017.75	3,806.85	12.31	31.44	82.03	-1,427.19	-8,530.10	8,666.32	8,624.64	41.68	207.903		
2,500.00	2,432.72	4,083.94	3,867.87	12.84	32.03	82.30	-1,402.74	-8,522.28	8,645.10	8,602.28	42.82	201.905		
2,600.00	2,528.93	4,144.51	3,923.64	13.37	32.57	82.55	-1,380.20	-8,515.24	8,624.40	8,580.49	43.91	196.408		
2,700.00	2,625.13	4,204.00	3,978.48	13.91	33.11	82.79	-1,358.17	-8,508.46	8,604.28	8,559.28	45.00	191.208		
2,800.00	2,721.34	4,602.94	4,341.85	14.44	36.84	84.48	-1,202.30	-8,456.90	8,582.91	8,533.91	49.00	175.172		
2,900.00	2,817.54	4,695.13	4,423.68	14.98	37.78	84.89	-1,161.86	-8,443.92	8,560.78	8,510.30	50.48	169.593		
3,000.00	2,913.75	4,715.95	4,442.24	15.52	37.98	84.99	-1,152.87	-8,441.06	8,539.34	8,488.05	51.29	166.477		
3,100.00	3,009.95	4,747.81	4,470.70	16.06	38.30	85.13	-1,139.23	-8,436.76	8,518.74	8,466.52	52.22	163.145		
3,200.00	3,106.16	4,774.00	4,494.17	16.60	38.57	85.25	-1,128.12	-8,433.33	8,498.98	8,445.90	53.09	160.097		
3,300.00	3,202.37	4,814.23	4,530.40	17.14	38.95	85.43	-1,111.41	-8,428.21	8,480.06	8,425.99	54.07	156.829		
3,400.00	3,298.57	4,869.00	4,580.16	17.68	39.48	85.66	-1,089.52	-8,421.51	8,462.02	8,406.84	55.19	153.331		
3,500.00	3,394.78	4,905.26	4,613.31	18.22	39.81	85.82	-1,075.49	-8,417.16	8,444.67	8,388.55	56.12	150.462		
3,600.00	3,490.98	4,992.42	4,693.39	18.76	40.61	86.19	-1,042.72	-8,406.56	8,427.82	8,370.32	57.49	146.586		
3,700.00	3,587.19	5,057.00	4,752.54	19.31	41.20	86.46	-1,018.05	-8,398.66	8,411.32	8,352.65	58.67	143.356		
3,800.00	3,683.39	5,107.71	4,798.98	19.85	41.66	86.68	-998.63	-8,392.58	8,395.47	8,335.74	59.74	140.540		
3,900.00	3,779.60	5,152.00	4,839.75	20.39	42.06	86.87	-982.09	-8,387.47	8,380.44	8,319.69	60.75	137.958		
4,000.00	3,875.80	5,188.00	4,873.03	20.94	42.38	87.02	-968.96	-8,383.47	8,366.19	8,304.52	61.67	135.658		
4,100.00	3,972.01	5,228.99	4,911.09	21.48	42.73	87.19	-954.38	-8,379.07	8,352.73	8,290.09	62.64	133.354		
4,200.00	4,068.21	5,270.52	4,949.82	22.03	43.09	87.36	-940.03	-8,374.79	8,340.05	8,276.46	63.59	131.145		
4,300.00	4,164.42	5,312.71	4,989.37	22.57	43.43	87.53	-925.93	-8,370.62	8,328.16	8,263.61	64.55	129.021		
4,400.00	4,260.62	5,342.00	5,016.93	23.12	43.68	87.64	-916.42	-8,367.82	8,317.05	8,251.65	65.40	127.172		
4,500.00	4,356.83	5,383.50	5,056.20	23.67	43.99	87.80	-903.53	-8,364.09	8,306.76	8,240.44	66.32	125.255		
4,600.00	4,453.03	5,437.00	5,107.25	24.21	44.40	88.00	-888.12	-8,359.76	8,297.43	8,230.11	67.32	123.247		
4,700.00	4,549.24	5,437.00	5,107.25	24.76	44.40	88.00	-888.12	-8,359.76	8,288.85	8,220.92	67.93	122.016		
4,800.00	4,645.44	5,492.32	5,160.45	25.31	44.77	88.20	-873.51	-8,355.76	8,281.09	8,212.18	68.90	120.181		
4,900.00	4,741.65	5,542.18	5,208.70	25.86	45.11	88.38	-861.40	-8,352.51	8,274.12	8,204.29	69.83	118.486		
5,000.00	4,837.85	5,656.04	5,319.58	26.40	45.80	88.76	-836.60	-8,345.01	8,267.34	8,196.23	71.11	116.261		
5,100.00	4,934.06	5,734.14	5,396.20	26.95	46.24	89.00	-822.37	-8,340.02	8,260.90	8,188.77	72.13	114.522		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,814.00	5,474.81	27.50	46.66	89.24	-809.34	-8,334.72	8,254.45	8,181.32	73.14	112.865		
5,300.00	5,126.47	5,872.47	5,532.53	28.05	46.94	89.40	-800.79	-8,331.03	8,248.53	8,174.53	74.00	111.463		
5,400.00	5,222.67	5,909.00	5,568.71	28.60	47.12	89.51	-796.11	-8,329.10	8,243.53	8,168.77	74.76	110.260		
5,500.00	5,318.88	5,986.55	5,645.65	29.15	47.46	89.71	-787.11	-8,325.39	8,239.12	8,163.44	75.68	108.864		
5,600.00	5,415.08	6,052.18	5,710.84	29.70	47.73	89.89	-780.15	-8,322.43	8,235.07	8,158.54	76.54	107.597		
5,700.00	5,511.29	6,097.00	5,755.41	30.25	47.92	90.00	-775.82	-8,320.58	8,231.57	8,154.27	77.30	106.488		
5,800.00	5,607.49	6,156.13	5,814.27	30.79	48.14	90.15	-770.48	-8,318.46	8,228.67	8,150.56	78.11	105.351		
5,900.00	5,703.70	6,205.40	5,863.33	31.34	48.33	90.27	-766.25	-8,317.03	8,226.47	8,147.59	78.87	104.300		
6,000.00	5,799.90	6,263.92	5,921.61	31.89	48.56	90.42	-761.15	-8,315.60	8,224.86	8,145.19	79.67	103.234		
6,100.00	5,896.11	6,338.91	5,996.30	32.44	48.84	90.60	-754.62	-8,314.05	8,223.74	8,143.22	80.53	102.120		
6,200.00	5,992.32	6,424.21	6,081.34	32.99	49.15	90.81	-748.10	-8,312.46	8,222.90	8,141.48	81.42	100.998		
6,300.00	6,088.52	6,511.21	6,168.12	33.54	49.45	91.01	-742.29	-8,311.01	8,222.29	8,140.00	82.29	99.913		
6,400.00	6,184.73	6,588.38	6,245.16	34.09	49.71	91.19	-737.82	-8,309.85	8,221.90	8,138.78	83.12	98.911		
6,429.10	6,212.72	6,603.97	6,260.72	34.25	49.76	91.23	-737.00	-8,309.66	8,221.88	8,138.54	83.34	98.655		
6,500.00	6,280.93	6,642.03	6,298.73	34.64	49.88	91.31	-735.11	-8,309.31	8,222.03	8,138.17	83.86	98.041		
6,600.00	6,377.14	6,716.49	6,373.13	35.19	50.10	91.47	-731.87	-8,308.95	8,222.68	8,138.02	84.66	97.124		
6,700.00	6,473.34	6,829.30	6,485.87	35.74	50.43	91.71	-728.08	-8,308.53	8,223.48	8,137.91	85.57	96.104		
6,800.00	6,569.55	6,933.87	6,590.41	36.29	50.73	91.93	-725.43	-8,307.97	8,224.14	8,137.70	86.44	95.145		
6,900.00	6,665.75	7,032.00	6,688.50	36.84	51.00	87.49	-723.16	-8,307.44	8,224.70	8,137.41	87.28	94.228		
7,000.00	6,761.11	7,130.98	6,787.47	37.39	51.28	61.65	-721.13	-8,306.89	8,215.42	8,127.29	88.12	93.228		
7,100.00	6,853.41	7,227.11	6,883.58	37.89	51.54	46.54	-719.52	-8,306.36	8,190.88	8,101.97	88.91	92.123		
7,200.00	6,940.36	7,314.66	6,971.12	38.34	51.78	38.41	-718.34	-8,305.87	8,151.72	8,062.10	89.62	90.954		
7,300.00	7,019.83	7,394.55	7,051.01	38.74	51.99	34.20	-717.46	-8,305.44	8,098.93	8,008.67	90.26	89.724		
7,400.00	7,089.85	7,477.35	7,133.80	39.10	52.21	32.57	-716.68	-8,304.97	8,033.77	7,942.91	90.86	88.415		
7,500.00	7,148.71	7,553.04	7,209.49	39.42	52.42	33.10	-715.96	-8,304.37	7,957.75	7,866.35	91.39	87.071		
7,600.00	7,194.95	7,611.81	7,268.25	39.71	52.58	36.27	-715.39	-8,303.78	7,872.78	7,780.96	91.83	85.736		
7,700.00	7,227.43	7,624.80	7,281.24	40.01	52.62	43.73	-715.21	-8,303.69	7,781.11	7,689.02	92.09	84.497		
7,800.00	7,245.37	7,638.43	7,294.86	40.37	52.65	62.92	-715.05	-8,303.57	7,684.88	7,592.58	92.30	83.258		
7,900.00	7,248.84	7,640.52	7,296.96	40.87	52.66	94.37	-715.02	-8,303.55	7,586.45	7,494.01	92.45	82.064		
8,000.00	7,248.24	7,639.36	7,295.80	41.62	52.66	94.32	-715.04	-8,303.56	7,487.76	7,395.19	92.57	80.885		
8,100.00	7,247.65	7,638.20	7,294.63	42.66	52.65	94.26	-715.05	-8,303.57	7,389.11	7,296.40	92.71	79.700		
8,200.00	7,247.05	7,637.03	7,293.46	43.96	52.65	94.21	-715.07	-8,303.58	7,290.49	7,197.63	92.86	78.511		
8,300.00	7,246.46	7,635.85	7,292.29	45.46	52.65	94.15	-715.08	-8,303.59	7,191.92	7,098.90	93.02	77.316		
8,400.00	7,245.86	7,634.67	7,291.11	47.13	52.64	94.10	-715.09	-8,303.60	7,093.38	7,000.19	93.19	76.117		
8,500.00	7,245.27	7,633.49	7,289.93	48.93	52.64	94.04	-715.11	-8,303.61	6,994.88	6,901.51	93.37	74.913		
8,600.00	7,244.67	7,632.30	7,288.74	50.84	52.64	93.98	-715.12	-8,303.62	6,896.42	6,802.85	93.57	73.703		
8,700.00	7,244.07	7,631.11	7,287.54	52.85	52.63	93.93	-715.14	-8,303.63	6,798.01	6,704.23	93.78	72.489		
8,800.00	7,243.48	7,629.91	7,286.34	54.94	52.63	93.87	-715.15	-8,303.64	6,699.65	6,605.65	94.00	71.270		
8,900.00	7,242.88	7,628.70	7,285.14	57.10	52.63	93.82	-715.17	-8,303.66	6,601.34	6,507.09	94.24	70.045		
9,000.00	7,242.29	7,627.50	7,283.93	59.32	52.62	93.76	-715.18	-8,303.67	6,503.07	6,408.58	94.50	68.816		
9,100.00	7,241.69	7,626.28	7,282.72	61.60	52.62	93.70	-715.20	-8,303.68	6,404.86	6,310.09	94.77	67.582		
9,200.00	7,241.09	7,625.06	7,281.50	63.92	52.62	93.64	-715.21	-8,303.69	6,306.71	6,211.65	95.06	66.343		
9,300.00	7,240.50	7,623.84	7,280.27	66.29	52.61	93.59	-715.23	-8,303.70	6,208.62	6,113.25	95.37	65.100		
9,400.00	7,239.90	7,622.61	7,279.05	68.70	52.61	93.53	-715.24	-8,303.71	6,110.58	6,014.88	95.70	63.852		
9,500.00	7,239.31	7,621.37	7,277.81	71.14	52.61	93.47	-715.25	-8,303.72	6,012.61	5,916.56	96.05	62.599		
9,600.00	7,238.71	7,620.13	7,276.57	73.61	52.60	93.41	-715.27	-8,303.73	5,914.71	5,818.29	96.42	61.342		
9,700.00	7,238.11	7,618.89	7,275.33	76.11	52.60	93.35	-715.28	-8,303.74	5,816.88	5,720.06	96.82	60.080		
9,800.00	7,237.52	7,617.64	7,274.08	78.64	52.60	93.30	-715.30	-8,303.75	5,719.13	5,621.89	97.24	58.814		
9,900.00	7,236.92	7,616.38	7,272.82	81.19	52.59	93.24	-715.31	-8,303.76	5,621.45	5,523.76	97.69	57.545		
10,000.00	7,236.33	7,615.12	7,271.56	83.75	52.59	93.18	-715.33	-8,303.78	5,523.86	5,425.69	98.16	56.272		
10,100.00	7,235.73	7,613.86	7,270.30	86.34	52.59	93.12	-715.34	-8,303.79	5,426.35	5,327.68	98.67	54.995		
10,200.00	7,235.14	7,612.59	7,269.02	88.94	52.58	93.06	-715.36	-8,303.80	5,328.93	5,229.73	99.21	53.715		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,611.31	7,267.75	91.56	52.58	93.00	-715.37	-8,303.81	5,231.62	5,131.84	99.78	52.432		
10,400.00	7,233.94	7,610.03	7,266.47	94.19	52.58	92.94	-715.38	-8,303.82	5,134.40	5,034.02	100.39	51.147		
10,500.00	7,233.35	7,608.74	7,265.18	96.84	52.57	92.88	-715.40	-8,303.83	5,037.30	4,936.27	101.03	49.859		
10,600.00	7,232.75	7,607.45	7,263.89	99.50	52.57	92.82	-715.41	-8,303.85	4,940.30	4,838.59	101.72	48.570		
10,700.00	7,232.16	7,606.15	7,262.59	102.17	52.56	92.75	-715.43	-8,303.86	4,843.44	4,740.99	102.44	47.280		
10,800.00	7,231.56	7,604.84	7,261.28	104.85	52.56	92.69	-715.44	-8,303.87	4,746.70	4,643.48	103.22	45.988		
10,900.00	7,230.96	7,603.53	7,259.97	107.53	52.56	92.63	-715.46	-8,303.88	4,650.09	4,546.06	104.04	44.697		
11,000.00	7,230.37	7,602.22	7,258.66	110.23	52.55	92.57	-715.47	-8,303.89	4,553.64	4,448.73	104.91	43.406		
11,100.00	7,229.77	7,607.76	7,264.20	112.93	52.57	92.83	-715.43	-8,303.82	4,457.32	4,351.46	105.85	42.108		
11,200.00	7,229.18	7,605.86	7,262.29	115.65	52.56	92.74	-715.44	-8,303.84	4,361.19	4,254.35	106.84	40.820		
11,300.00	7,228.58	7,603.96	7,260.40	118.37	52.56	92.65	-715.46	-8,303.86	4,265.23	4,157.35	107.88	39.535		
11,400.00	7,227.99	7,602.08	7,258.52	121.09	52.55	92.56	-715.48	-8,303.88	4,169.47	4,060.47	109.00	38.254		
11,500.00	7,227.39	7,600.21	7,256.65	123.82	52.55	92.48	-715.50	-8,303.90	4,073.90	3,963.73	110.18	36.976		
11,600.00	7,226.79	7,598.35	7,254.79	126.56	52.54	92.39	-715.52	-8,303.92	3,978.56	3,867.12	111.44	35.703		
11,700.00	7,226.20	7,596.51	7,252.95	129.30	52.54	92.30	-715.54	-8,303.94	3,883.45	3,770.68	112.77	34.436		
11,800.00	7,225.60	7,594.67	7,251.11	132.05	52.53	92.21	-715.56	-8,303.96	3,788.59	3,674.39	114.20	33.176		
11,900.00	7,225.01	7,592.85	7,249.29	134.80	52.53	92.13	-715.57	-8,303.98	3,694.00	3,578.28	115.71	31.924		
12,000.00	7,224.41	7,591.05	7,247.49	137.56	52.52	92.04	-715.59	-8,304.00	3,599.70	3,482.37	117.33	30.681		
12,100.00	7,223.81	7,589.25	7,245.69	140.32	52.52	91.96	-715.61	-8,304.02	3,505.71	3,386.67	119.04	29.449		
12,200.00	7,223.22	7,587.47	7,243.91	143.08	52.51	91.87	-715.63	-8,304.03	3,412.07	3,291.19	120.88	28.228		
12,300.00	7,222.62	7,585.69	7,242.13	145.85	52.51	91.79	-715.64	-8,304.05	3,318.80	3,195.97	122.83	27.020		
12,400.00	7,222.03	7,583.93	7,240.37	148.62	52.50	91.71	-715.66	-8,304.07	3,225.93	3,101.02	124.91	25.826		
12,500.00	7,221.43	7,582.18	7,238.62	151.40	52.50	91.63	-715.68	-8,304.09	3,133.50	3,006.36	127.13	24.647		
12,600.00	7,220.83	7,580.45	7,236.89	154.18	52.49	91.54	-715.70	-8,304.10	3,041.54	2,912.04	129.51	23.486		
12,700.00	7,220.24	7,578.72	7,235.16	156.96	52.49	91.46	-715.71	-8,304.12	2,950.11	2,818.07	132.04	22.343		
12,800.00	7,219.64	7,577.00	7,233.45	159.74	52.48	91.38	-715.73	-8,304.14	2,859.25	2,724.51	134.74	21.220		
12,900.00	7,219.05	7,575.30	7,231.74	162.53	52.48	91.30	-715.75	-8,304.16	2,769.02	2,631.39	137.63	20.119		
13,000.00	7,218.45	7,573.61	7,230.05	165.32	52.47	91.22	-715.76	-8,304.17	2,679.48	2,538.76	140.72	19.041		
13,100.00	7,217.86	7,571.93	7,228.37	168.11	52.47	91.14	-715.78	-8,304.19	2,590.71	2,446.69	144.02	17.988		
13,200.00	7,217.26	7,570.25	7,226.70	170.90	52.47	91.06	-715.80	-8,304.20	2,502.78	2,355.23	147.56	16.962		
13,300.00	7,216.66	7,568.59	7,225.04	173.70	52.46	90.98	-715.81	-8,304.22	2,415.80	2,264.46	151.33	15.963		
13,400.00	7,216.07	7,566.94	7,223.39	176.49	52.46	90.91	-715.83	-8,304.24	2,329.85	2,174.48	155.37	14.995		
13,500.00	7,215.47	7,565.30	7,221.75	179.29	52.45	90.83	-715.84	-8,304.25	2,245.07	2,085.38	159.69	14.059		
13,600.00	7,214.88	7,563.67	7,220.12	182.09	52.45	90.75	-715.86	-8,304.27	2,161.59	1,997.28	164.31	13.156		
13,700.00	7,214.28	7,562.06	7,218.50	184.90	52.44	90.67	-715.88	-8,304.28	2,079.56	1,910.33	169.23	12.288		
13,800.00	7,213.68	7,560.45	7,216.89	187.70	52.44	90.60	-715.89	-8,304.30	1,999.17	1,824.69	174.49	11.457		
13,900.00	7,213.09	7,558.85	7,215.29	190.51	52.43	90.52	-715.91	-8,304.31	1,920.63	1,740.55	180.07	10.666		
14,000.00	7,212.49	7,557.26	7,213.70	193.32	52.43	90.45	-715.92	-8,304.33	1,844.16	1,658.15	186.00	9.915		
14,100.00	7,211.90	7,555.68	7,212.12	196.13	52.43	90.37	-715.94	-8,304.34	1,770.03	1,577.76	192.28	9.206		
14,200.00	7,211.30	7,554.11	7,210.56	198.94	52.42	90.30	-715.95	-8,304.36	1,698.56	1,499.69	198.87	8.541		
14,300.00	7,210.71	7,552.55	7,209.00	201.75	52.42	90.23	-715.97	-8,304.37	1,630.09	1,424.32	205.77	7.922		
14,400.00	7,210.11	7,551.00	7,207.45	204.56	52.41	90.15	-715.98	-8,304.38	1,565.02	1,352.09	212.93	7.350		
14,500.00	7,209.51	7,549.46	7,205.91	207.38	52.41	90.08	-716.00	-8,304.40	1,503.78	1,283.51	220.27	6.827		
14,600.00	7,208.92	7,547.93	7,204.38	210.19	52.41	90.01	-716.01	-8,304.41	1,446.87	1,219.17	227.71	6.354		
14,700.00	7,208.32	7,546.41	7,202.85	213.01	52.40	89.94	-716.03	-8,304.43	1,394.82	1,159.72	235.10	5.933		
14,800.00	7,207.73	7,544.90	7,201.34	215.83	52.40	89.86	-716.04	-8,304.44	1,348.18	1,105.89	242.29	5.564		
14,900.00	7,207.13	7,543.40	7,199.84	218.65	52.39	89.79	-716.06	-8,304.45	1,307.53	1,058.45	249.08	5.249		
15,000.00	7,206.53	7,541.90	7,198.35	221.47	52.39	89.72	-716.07	-8,304.47	1,273.46	1,018.20	255.26	4.989		
15,100.00	7,205.94	7,540.42	7,196.86	224.29	52.39	89.65	-716.09	-8,304.48	1,246.50	985.90	260.60	4.783		
15,200.00	7,205.34	7,538.94	7,195.39	227.11	52.38	89.58	-716.10	-8,304.49	1,227.11	962.22	264.90	4.632		
15,258.04	7,205.00	7,538.09	7,194.53	228.75	52.38	89.54	-716.11	-8,304.50	1,219.49	952.64	266.85	4.570 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	35.00	3.28	3.28	-106.80	-2,717.16	-9,002.18	9,403.37					
100.00	100.00	37.04	72.04	3.28	3.28	-106.79	-2,717.08	-9,002.26	9,403.40	9,396.84	6.57	1,432.218		
200.00	200.00	94.01	129.01	3.34	3.29	-106.79	-2,716.64	-9,002.70	9,403.93	9,397.31	6.62	1,419.927		
300.00	299.98	168.00	202.98	3.44	3.30	68.47	-2,715.52	-9,003.86	9,404.30	9,397.56	6.74	1,395.870		
400.00	399.84	168.00	202.98	3.59	3.30	68.47	-2,715.52	-9,003.86	9,403.94	9,397.05	6.89	1,365.403		
500.00	499.45	211.65	246.61	3.79	3.33	68.52	-2,714.67	-9,005.03	9,402.97	9,395.86	7.11	1,322.156		
600.00	598.70	259.00	293.90	4.03	3.37	68.59	-2,713.77	-9,006.99	9,401.68	9,394.29	7.39	1,271.381		
700.00	697.47	259.00	293.90	4.31	3.37	68.62	-2,713.77	-9,006.99	9,399.72	9,392.04	7.68	1,223.640		
800.00	795.62	290.71	325.57	4.64	3.40	68.71	-2,713.26	-9,008.65	9,397.36	9,389.32	8.04	1,168.835		
900.00	893.06	318.33	353.14	5.00	3.44	68.80	-2,712.95	-9,010.29	9,394.52	9,386.08	8.43	1,113.833		
1,000.00	989.65	350.00	384.74	5.40	3.48	68.91	-2,712.76	-9,012.38	9,391.19	9,382.32	8.87	1,058.455		
1,100.00	1,085.85	401.41	436.02	5.82	3.57	68.99	-2,712.61	-9,016.04	9,388.00	9,378.62	9.37	1,001.412		
1,200.00	1,182.06	471.53	505.94	6.27	3.70	69.11	-2,712.47	-9,021.26	9,385.23	9,375.29	9.94	943.745		
1,300.00	1,278.26	532.00	566.24	6.73	3.84	69.21	-2,712.28	-9,025.86	9,382.74	9,372.21	10.53	891.068		
1,400.00	1,374.47	578.99	613.07	7.20	3.96	69.29	-2,712.22	-9,029.63	9,380.79	9,369.68	11.11	844.384		
1,500.00	1,470.67	644.00	677.83	7.69	4.14	69.40	-2,712.56	-9,035.39	9,379.66	9,367.91	11.75	798.031		
1,600.00	1,566.88	656.75	690.52	8.18	4.18	69.42	-2,712.68	-9,036.59	9,378.99	9,366.72	12.28	763.949		
1,663.95	1,628.40	698.30	731.88	8.50	4.30	69.49	-2,713.12	-9,040.54	9,378.91	9,366.20	12.71	738.109		
1,700.00	1,663.08	723.80	757.26	8.68	4.38	69.54	-2,713.42	-9,043.00	9,378.94	9,365.98	12.96	723.805		
1,800.00	1,759.29	843.55	876.46	9.19	4.78	69.73	-2,714.95	-9,054.33	9,378.90	9,365.08	13.82	678.689		
1,816.96	1,775.60	857.16	890.00	9.27	4.83	69.75	-2,715.09	-9,055.62	9,378.90	9,364.95	13.95	672.427		
1,900.00	1,855.49	941.37	973.83	9.70	5.13	69.90	-2,715.60	-9,063.75	9,378.97	9,364.32	14.64	640.526		
2,000.00	1,951.70	1,096.00	1,127.81	10.22	5.72	70.16	-2,715.70	-9,077.79	9,378.29	9,362.60	15.69	597.737		
2,087.70	2,036.07	1,138.99	1,170.63	10.67	5.89	70.23	-2,715.60	-9,081.62	9,377.89	9,361.59	16.30	575.472		
2,100.00	2,047.90	1,142.05	1,173.68	10.73	5.90	70.24	-2,715.59	-9,081.92	9,377.89	9,361.52	16.37	572.853		
2,200.00	2,144.11	1,190.00	1,221.36	11.26	6.09	70.32	-2,715.33	-9,086.96	9,378.51	9,361.45	17.06	549.617		
2,300.00	2,240.31	1,190.00	1,221.36	11.78	6.09	70.32	-2,715.33	-9,086.96	9,379.72	9,362.14	17.58	533.497		
2,400.00	2,336.52	1,223.50	1,254.63	12.31	6.23	70.38	-2,715.09	-9,090.86	9,381.81	9,363.59	18.23	514.708		
2,500.00	2,432.72	1,254.91	1,285.80	12.84	6.37	70.44	-2,714.89	-9,094.75	9,384.65	9,365.79	18.87	497.400		
2,600.00	2,528.93	1,285.00	1,315.63	13.37	6.50	70.49	-2,714.70	-9,098.68	9,388.24	9,368.74	19.50	481.354		
2,700.00	2,625.13	1,320.81	1,351.11	13.91	6.66	70.56	-2,714.62	-9,103.56	9,392.55	9,372.39	20.16	465.800		
2,800.00	2,721.34	1,379.00	1,408.70	14.44	6.92	70.66	-2,715.10	-9,111.88	9,397.66	9,376.74	20.92	449.302		
2,900.00	2,817.54	1,379.00	1,408.70	14.98	6.92	70.66	-2,715.10	-9,111.88	9,403.32	9,381.89	21.43	438.694		
3,000.00	2,913.75	1,425.10	1,454.26	15.52	7.14	70.74	-2,715.60	-9,118.90	9,409.74	9,387.60	22.14	424.992		
3,100.00	3,009.95	1,475.00	1,503.49	16.06	7.38	70.83	-2,715.75	-9,127.03	9,416.91	9,394.05	22.86	411.857		
3,200.00	3,106.16	1,475.00	1,503.49	16.60	7.38	70.83	-2,715.75	-9,127.03	9,424.78	9,401.40	23.38	403.118		
3,300.00	3,202.37	1,533.80	1,561.40	17.14	7.67	70.93	-2,715.87	-9,137.19	9,433.24	9,409.09	24.14	390.718		
3,400.00	3,298.57	1,570.00	1,597.02	17.68	7.85	71.00	-2,716.11	-9,143.68	9,442.42	9,417.61	24.81	380.571		
3,500.00	3,394.78	1,616.18	1,642.40	18.22	8.09	71.08	-2,716.47	-9,152.23	9,452.24	9,426.72	25.52	370.337		
3,600.00	3,490.98	1,665.00	1,690.32	18.76	8.34	71.17	-2,716.77	-9,161.55	9,462.67	9,436.42	26.25	360.515		
3,700.00	3,587.19	1,665.00	1,690.32	19.31	8.34	71.17	-2,716.77	-9,161.55	9,473.87	9,447.11	26.75	354.114		
3,800.00	3,683.39	1,721.34	1,745.51	19.85	8.65	71.27	-2,717.03	-9,172.87	9,485.57	9,458.06	27.51	344.774		
3,900.00	3,779.60	1,759.00	1,782.31	20.39	8.85	71.34	-2,717.16	-9,180.85	9,498.15	9,469.96	28.19	336.979		
4,000.00	3,875.80	1,759.00	1,782.31	20.94	8.85	71.34	-2,717.16	-9,180.85	9,511.52	9,482.84	28.68	331.592		
4,100.00	3,972.01	1,819.00	1,840.84	21.48	9.19	71.45	-2,717.87	-9,194.06	9,525.41	9,495.95	29.46	323.332		
4,200.00	4,068.21	1,853.00	1,873.94	22.03	9.39	71.50	-2,718.74	-9,201.74	9,540.08	9,509.96	30.11	316.805		
4,300.00	4,164.42	1,910.47	1,929.84	22.57	9.73	71.60	-2,720.50	-9,214.96	9,555.31	9,524.43	30.88	309.453		
4,400.00	4,260.62	1,968.53	1,986.26	23.12	10.07	71.70	-2,722.24	-9,228.57	9,571.00	9,539.35	31.65	302.436		
4,500.00	4,356.83	2,030.86	2,046.77	23.67	10.45	71.81	-2,724.09	-9,243.39	9,587.11	9,554.67	32.44	295.564		
4,600.00	4,453.03	2,042.00	2,057.58	24.21	10.52	71.82	-2,724.42	-9,246.06	9,603.82	9,570.85	32.97	291.254		
4,700.00	4,549.24	2,042.00	2,057.58	24.76	10.52	71.82	-2,724.42	-9,246.06	9,621.54	9,588.09	33.45	287.620		
4,800.00	4,645.44	2,042.00	2,057.58	25.31	10.52	71.82	-2,724.42	-9,246.06	9,640.26	9,606.33	33.93	284.158		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
4,900.00	4,741.65	2,091.74	2,105.64	25.86	10.84	71.91	-2,725.78	-9,258.81	9,659.05	9,624.40	34.65	278.762		
5,000.00	4,837.85	2,137.00	2,148.98	26.40	11.14	71.99	-2,726.84	-9,271.80	9,679.61	9,644.26	35.35	273.824		
5,100.00	4,934.06	2,472.43	2,472.18	26.95	13.37	72.59	-2,731.31	-9,361.13	9,698.52	9,660.95	37.58	258.110		
5,200.00	5,030.26	2,513.00	2,511.26	27.50	13.64	72.67	-2,730.66	-9,371.99	9,717.10	9,678.84	38.26	253.970		
5,300.00	5,126.47	2,513.00	2,511.26	28.05	13.64	72.67	-2,730.66	-9,371.99	9,736.25	9,697.52	38.73	251.398		
5,400.00	5,222.67	2,544.66	2,541.66	28.60	13.86	72.74	-2,730.08	-9,380.80	9,756.26	9,716.90	39.36	247.853		
5,500.00	5,318.88	2,585.78	2,581.11	29.15	14.15	72.82	-2,729.48	-9,392.41	9,776.88	9,736.83	40.05	244.137		
5,600.00	5,415.08	2,609.00	2,603.36	29.70	14.31	72.86	-2,729.22	-9,399.05	9,798.12	9,757.49	40.63	241.158		
5,700.00	5,511.29	2,609.00	2,603.36	30.25	14.31	72.86	-2,729.22	-9,399.05	9,820.28	9,779.20	41.08	239.056		
5,800.00	5,607.49	2,654.07	2,646.41	30.79	14.65	72.95	-2,728.94	-9,412.37	9,842.88	9,801.10	41.78	235.593		
5,900.00	5,703.70	2,704.00	2,693.83	31.34	15.02	73.04	-2,729.03	-9,428.00	9,866.70	9,824.20	42.50	232.132		
6,000.00	5,799.90	2,704.00	2,693.83	31.89	15.02	73.04	-2,729.03	-9,428.00	9,890.85	9,847.91	42.94	230.331		
6,100.00	5,896.11	2,704.00	2,693.83	32.44	15.02	73.04	-2,729.03	-9,428.00	9,915.95	9,872.57	43.37	228.617		
6,200.00	5,992.32	3,322.66	3,283.93	32.99	19.65	74.21	-2,724.66	-9,612.43	9,937.44	9,890.06	47.38	209.726		
6,300.00	6,088.52	3,379.34	3,338.43	33.54	20.06	74.29	-2,727.08	-9,627.80	9,958.43	9,910.28	48.15	206.808		
6,400.00	6,184.73	3,453.00	3,409.16	34.09	20.59	74.40	-2,731.25	-9,647.95	9,979.87	9,930.85	49.02	203.596		
7,400.00	7,089.85	7,021.09	6,904.82	39.10	40.70	13.46	-2,755.62	-10,247.15	9,941.75	9,871.21	70.55	140.926		
7,500.00	7,148.71	7,081.75	6,965.44	39.42	40.90	9.65	-2,757.27	-10,248.13	9,862.75	9,791.72	71.04	138.843		
7,600.00	7,194.95	7,129.88	7,013.55	39.71	41.06	5.27	-2,758.89	-10,248.88	9,775.26	9,703.85	71.40	136.903		
7,700.00	7,227.43	7,164.23	7,047.86	40.01	41.18	-2.08	-2,760.23	-10,249.40	9,681.42	9,609.77	71.64	135.131		
7,800.00	7,245.37	7,183.87	7,067.49	40.37	41.24	-23.87	-2,761.06	-10,249.69	9,583.54	9,511.78	71.76	133.546		
7,900.00	7,248.84	7,188.88	7,072.49	40.87	41.26	-81.69	-2,761.28	-10,249.76	9,484.04	9,412.27	71.77	132.148		
8,000.00	7,248.24	7,189.77	7,073.38	41.62	41.26	-81.75	-2,761.32	-10,249.77	9,384.43	9,312.68	71.75	130.801		
8,100.00	7,247.65	7,190.65	7,074.26	42.66	41.27	-81.81	-2,761.35	-10,249.79	9,284.82	9,213.10	71.73	129.449		
8,200.00	7,247.05	7,191.54	7,075.14	43.96	41.27	-81.87	-2,761.39	-10,249.80	9,185.23	9,113.52	71.71	128.093		
8,300.00	7,246.46	7,192.42	7,076.02	45.46	41.27	-81.93	-2,761.43	-10,249.81	9,085.64	9,013.95	71.69	126.733		
8,400.00	7,245.86	7,193.30	7,076.90	47.13	41.27	-81.99	-2,761.47	-10,249.82	8,986.06	8,914.39	71.68	125.368		
8,500.00	7,245.27	7,194.18	7,077.78	48.93	41.28	-82.05	-2,761.51	-10,249.84	8,886.50	8,814.83	71.67	123.998		
8,600.00	7,244.67	7,195.06	7,078.66	50.84	41.28	-82.11	-2,761.55	-10,249.85	8,786.94	8,715.28	71.66	122.623		
8,700.00	7,244.07	7,196.03	7,079.63	52.85	41.28	-82.18	-2,761.59	-10,249.86	8,687.39	8,615.74	71.65	121.243		
8,800.00	7,243.48	7,197.00	7,080.60	54.94	41.29	-82.24	-2,761.64	-10,249.88	8,587.85	8,516.20	71.65	119.859		
8,900.00	7,242.88	7,197.97	7,081.56	57.10	41.29	-82.31	-2,761.68	-10,249.89	8,488.32	8,416.67	71.65	118.469		
9,000.00	7,242.29	7,198.94	7,082.53	59.32	41.29	-82.38	-2,761.72	-10,249.91	8,388.81	8,317.15	71.65	117.074		
9,100.00	7,241.69	7,199.91	7,083.50	61.60	41.30	-82.44	-2,761.77	-10,249.92	8,289.30	8,217.64	71.66	115.674		
9,200.00	7,241.09	7,200.87	7,084.47	63.92	41.30	-82.51	-2,761.81	-10,249.93	8,189.81	8,118.14	71.67	114.269		
9,300.00	7,240.50	7,201.84	7,085.44	66.29	41.30	-82.58	-2,761.85	-10,249.95	8,090.33	8,018.64	71.69	112.858		
9,400.00	7,239.90	7,202.81	7,086.41	68.70	41.31	-82.64	-2,761.90	-10,249.96	7,990.86	7,919.16	71.70	111.442		
9,500.00	7,239.31	7,203.78	7,087.37	71.14	41.31	-82.71	-2,761.94	-10,249.98	7,891.41	7,819.68	71.73	110.020		
9,600.00	7,238.71	7,204.75	7,088.34	73.61	41.31	-82.78	-2,761.98	-10,249.99	7,791.97	7,720.22	71.75	108.592		
9,700.00	7,238.11	7,205.72	7,089.31	76.11	41.32	-82.84	-2,762.02	-10,250.00	7,692.54	7,620.76	71.79	107.159		
9,800.00	7,237.52	7,206.69	7,090.28	78.64	41.32	-82.91	-2,762.06	-10,250.02	7,593.13	7,521.31	71.82	105.719		
9,900.00	7,236.92	7,207.66	7,091.24	81.19	41.32	-82.98	-2,762.11	-10,250.03	7,493.74	7,421.87	71.87	104.273		
10,000.00	7,236.33	7,208.62	7,092.21	83.75	41.33	-83.04	-2,762.15	-10,250.05	7,394.36	7,322.45	71.91	102.821		
10,100.00	7,235.73	7,209.59	7,093.18	86.34	41.33	-83.11	-2,762.19	-10,250.06	7,295.00	7,223.03	71.97	101.362		
10,200.00	7,235.14	7,210.56	7,094.14	88.94	41.33	-83.18	-2,762.23	-10,250.07	7,195.65	7,123.62	72.03	99.897		
10,300.00	7,234.54	7,211.53	7,095.11	91.56	41.33	-83.24	-2,762.27	-10,250.09	7,096.33	7,024.23	72.10	98.425		
10,400.00	7,233.94	7,212.50	7,096.08	94.19	41.34	-83.31	-2,762.32	-10,250.10	6,997.02	6,924.85	72.17	96.946		
10,500.00	7,233.35	7,213.46	7,097.04	96.84	41.34	-83.38	-2,762.36	-10,250.12	6,897.73	6,825.48	72.26	95.460		
10,600.00	7,232.75	7,214.43	7,098.01	99.50	41.34	-83.44	-2,762.40	-10,250.13	6,798.47	6,726.12	72.35	93.966		
10,700.00	7,232.16	7,215.40	7,098.98	102.17	41.35	-83.51	-2,762.44	-10,250.14	6,699.22	6,626.77	72.45	92.465		
10,800.00	7,231.56	7,216.36	7,099.94	104.85	41.35	-83.58	-2,762.48	-10,250.16	6,600.00	6,527.44	72.56	90.957		
10,900.00	7,230.96	7,217.33	7,100.91	107.53	41.35	-83.64	-2,762.52	-10,250.17	6,500.80	6,428.12	72.68	89.440		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
11,000.00	7,230.37	7,218.30	7,101.88	110.23	41.36	-83.71	-2,762.56	-10,250.19	6,401.63	6,328.81	72.82	87.916		
11,100.00	7,229.77	7,219.26	7,102.84	112.93	41.36	-83.78	-2,762.60	-10,250.20	6,302.48	6,229.52	72.96	86.384		
11,200.00	7,229.18	7,220.23	7,103.81	115.65	41.36	-83.84	-2,762.65	-10,250.21	6,203.36	6,130.25	73.12	84.843		
11,300.00	7,228.58	7,221.20	7,104.77	118.37	41.37	-83.91	-2,762.69	-10,250.23	6,104.27	6,030.99	73.29	83.294		
11,400.00	7,227.99	7,222.16	7,105.74	121.09	41.37	-83.98	-2,762.73	-10,250.24	6,005.21	5,931.74	73.47	81.737		
11,500.00	7,227.39	7,223.13	7,106.70	123.82	41.37	-84.04	-2,762.77	-10,250.26	5,906.18	5,832.51	73.67	80.170		
11,600.00	7,226.79	7,224.10	7,107.67	126.56	41.38	-84.11	-2,762.81	-10,250.27	5,807.18	5,733.30	73.89	78.595		
11,700.00	7,226.20	7,225.06	7,108.63	129.30	41.38	-84.18	-2,762.85	-10,250.28	5,708.22	5,634.10	74.12	77.012		
11,800.00	7,225.60	7,226.03	7,109.60	132.05	41.38	-84.25	-2,762.89	-10,250.30	5,609.29	5,534.92	74.38	75.419		
11,900.00	7,225.01	7,226.99	7,110.56	134.80	41.39	-84.31	-2,762.93	-10,250.31	5,510.41	5,435.76	74.65	73.817		
12,000.00	7,224.41	7,227.96	7,111.53	137.56	41.39	-84.38	-2,762.97	-10,250.33	5,411.56	5,336.62	74.95	72.206		
12,100.00	7,223.81	7,228.92	7,112.49	140.32	41.39	-84.45	-2,763.01	-10,250.34	5,312.76	5,237.49	75.27	70.587		
12,200.00	7,223.22	7,229.89	7,113.46	143.08	41.40	-84.51	-2,763.05	-10,250.35	5,214.00	5,138.39	75.61	68.958		
12,300.00	7,222.62	7,230.86	7,114.42	145.85	41.40	-84.58	-2,763.09	-10,250.37	5,115.29	5,039.31	75.98	67.320		
12,400.00	7,222.03	7,231.82	7,115.38	148.62	41.40	-84.65	-2,763.13	-10,250.38	5,016.63	4,940.25	76.39	65.674		
12,500.00	7,221.43	7,232.78	7,116.35	151.40	41.41	-84.71	-2,763.17	-10,250.40	4,918.03	4,841.21	76.82	64.019		
12,600.00	7,220.83	7,233.75	7,117.31	154.18	41.41	-84.78	-2,763.21	-10,250.41	4,819.48	4,742.19	77.29	62.356		
12,700.00	7,220.24	7,234.71	7,118.28	156.96	41.41	-84.85	-2,763.25	-10,250.42	4,720.99	4,643.20	77.79	60.685		
12,800.00	7,219.64	7,235.68	7,119.24	159.74	41.42	-84.91	-2,763.28	-10,250.44	4,622.57	4,544.23	78.34	59.007		
12,900.00	7,219.05	7,236.64	7,120.20	162.53	41.42	-84.98	-2,763.32	-10,250.45	4,524.22	4,445.29	78.93	57.321		
13,000.00	7,218.45	7,237.61	7,121.17	165.32	41.42	-85.05	-2,763.36	-10,250.47	4,425.94	4,346.38	79.56	55.629		
13,100.00	7,217.86	7,238.57	7,122.13	168.11	41.42	-85.11	-2,763.40	-10,250.48	4,327.74	4,247.50	80.24	53.932		
13,200.00	7,217.26	7,239.54	7,123.09	170.90	41.43	-85.18	-2,763.44	-10,250.49	4,229.63	4,148.64	80.98	52.229		
13,300.00	7,216.66	7,240.50	7,124.05	173.70	41.43	-85.25	-2,763.48	-10,250.51	4,131.60	4,049.82	81.78	50.522		
13,400.00	7,216.07	7,241.46	7,125.02	176.49	41.43	-85.31	-2,763.52	-10,250.52	4,033.67	3,951.03	82.64	48.812		
13,500.00	7,215.47	7,242.43	7,125.98	179.29	41.44	-85.38	-2,763.56	-10,250.54	3,935.85	3,852.28	83.56	47.099		
13,600.00	7,214.88	7,243.39	7,126.94	182.09	41.44	-85.45	-2,763.59	-10,250.55	3,838.13	3,753.57	84.57	45.386		
13,700.00	7,214.28	7,244.35	7,127.91	184.90	41.44	-85.51	-2,763.63	-10,250.56	3,740.54	3,654.89	85.65	43.674		
13,800.00	7,213.68	7,245.32	7,128.87	187.70	41.45	-85.58	-2,763.67	-10,250.58	3,643.08	3,556.26	86.82	41.964		
13,900.00	7,213.09	7,246.28	7,129.83	190.51	41.45	-85.65	-2,763.71	-10,250.59	3,545.76	3,457.68	88.08	40.257		
14,000.00	7,212.49	7,247.24	7,130.79	193.32	41.45	-85.71	-2,763.75	-10,250.61	3,448.59	3,359.14	89.44	38.556		
14,100.00	7,211.90	7,248.20	7,131.75	196.13	41.46	-85.78	-2,763.78	-10,250.62	3,351.59	3,260.67	90.92	36.863		
14,200.00	7,211.30	7,249.17	7,132.72	198.94	41.46	-85.85	-2,763.82	-10,250.63	3,254.76	3,162.25	92.52	35.180		
14,300.00	7,210.71	7,250.13	7,133.68	201.75	41.46	-85.91	-2,763.86	-10,250.65	3,158.14	3,063.89	94.25	33.508		
14,400.00	7,210.11	7,251.09	7,134.64	204.56	41.47	-85.98	-2,763.90	-10,250.66	3,061.74	2,965.61	96.13	31.851		
14,500.00	7,209.51	7,252.05	7,135.60	207.38	41.47	-86.05	-2,763.93	-10,250.68	2,965.57	2,867.40	98.16	30.210		
14,600.00	7,208.92	7,253.02	7,136.56	210.19	41.47	-86.11	-2,763.97	-10,250.69	2,869.66	2,769.28	100.37	28.589		
14,700.00	7,208.32	7,253.98	7,137.52	213.01	41.48	-86.18	-2,764.01	-10,250.70	2,774.04	2,671.26	102.78	26.991		
14,800.00	7,207.73	7,254.94	7,138.48	215.83	41.48	-86.25	-2,764.05	-10,250.72	2,678.74	2,573.35	105.39	25.417		
14,900.00	7,207.13	7,255.90	7,139.44	218.65	41.48	-86.31	-2,764.08	-10,250.73	2,583.80	2,475.56	108.24	23.872		
15,000.00	7,206.53	7,256.86	7,140.40	221.47	41.49	-86.38	-2,764.12	-10,250.74	2,489.25	2,377.91	111.34	22.357		
15,100.00	7,205.94	7,257.82	7,141.36	224.29	41.49	-86.45	-2,764.16	-10,250.76	2,395.15	2,280.42	114.73	20.877		
15,200.00	7,205.34	7,258.79	7,142.33	227.11	41.49	-86.51	-2,764.19	-10,250.77	2,301.54	2,183.11	118.43	19.434		
15,258.04	7,205.00	7,259.34	7,142.88	228.75	41.49	-86.55	-2,764.21	-10,250.78	2,247.46	2,126.72	120.73	18.615 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	35.00	3.28	3.28	-106.50	-2,649.42	-8,946.24	9,330.37					
100.00	100.00	37.06	72.06	3.28	3.28	-106.50	-2,649.34	-8,946.32	9,330.41	9,323.84	6.57	1,421.116		
200.00	200.00	94.06	129.06	3.34	3.29	-106.49	-2,648.92	-8,946.76	9,330.94	9,324.31	6.62	1,409.012		
300.00	299.98	463.10	497.94	3.44	3.71	68.87	-2,639.43	-8,945.77	9,328.50	9,321.34	7.16	1,303.132		
400.00	399.84	718.04	752.70	3.59	4.35	69.07	-2,631.40	-8,940.71	9,324.06	9,316.11	7.95	1,172.382		
500.00	499.45	788.95	823.53	3.79	4.57	69.25	-2,628.54	-8,938.74	9,317.19	9,308.83	8.36	1,114.447		
600.00	598.70	850.00	884.47	4.03	4.76	69.45	-2,625.21	-8,937.77	9,309.71	9,300.92	8.79	1,058.834		
700.00	697.47	877.05	911.47	4.31	4.85	69.64	-2,623.45	-8,937.59	9,301.54	9,292.38	9.16	1,015.274		
800.00	795.62	923.71	958.00	4.64	5.01	69.88	-2,620.03	-8,937.60	9,292.78	9,283.14	9.64	964.187		
900.00	893.06	984.20	1,018.26	5.00	5.22	70.17	-2,614.75	-8,938.16	9,283.38	9,273.17	10.21	909.594		
1,000.00	989.65	1,092.46	1,125.76	5.40	5.62	70.59	-2,602.22	-8,940.26	9,273.12	9,262.12	11.00	843.000		
1,100.00	1,085.85	1,187.37	1,219.74	5.82	6.00	70.82	-2,589.09	-8,942.35	9,262.16	9,250.37	11.79	785.276		
1,200.00	1,182.06	1,567.47	1,592.78	6.27	7.76	71.85	-2,517.17	-8,949.67	9,249.47	9,235.49	13.98	661.447		
1,300.00	1,278.26	1,300.00	1,941.94	6.73	6.32	72.97	-2,423.39	-8,952.64	9,234.86	9,222.04	12.82	720.344		
1,400.00	1,374.47	2,025.91	2,034.84	7.20	10.42	73.29	-2,396.05	-8,952.38	9,219.16	9,201.64	17.52	526.179		
1,500.00	1,470.67	2,081.00	2,087.61	7.69	10.77	73.47	-2,380.25	-8,952.57	9,204.08	9,185.74	18.34	501.743		
1,600.00	1,566.88	2,081.00	2,087.61	8.18	10.77	73.47	-2,380.25	-8,952.57	9,189.67	9,170.83	18.84	487.844		
1,700.00	1,663.08	2,135.97	2,140.20	8.68	11.13	73.65	-2,364.26	-8,953.25	9,175.96	9,156.27	19.69	466.038		
1,800.00	1,759.29	2,175.00	2,177.46	9.19	11.38	73.78	-2,352.66	-8,954.05	9,163.00	9,142.55	20.45	448.123		
1,900.00	1,855.49	2,393.84	2,385.74	9.70	12.87	74.53	-2,285.63	-8,957.43	9,149.55	9,127.13	22.42	408.046		
2,000.00	1,951.70	2,478.12	2,465.86	10.22	13.46	74.82	-2,259.46	-8,958.36	9,136.22	9,112.70	23.52	388.484		
2,100.00	2,047.90	2,590.28	2,572.73	10.73	14.24	75.21	-2,225.45	-8,959.08	9,122.95	9,098.14	24.81	367.729		
2,200.00	2,144.11	2,687.33	2,665.04	11.26	14.93	75.54	-2,195.49	-8,959.77	9,109.98	9,083.96	26.01	350.207		
2,300.00	2,240.31	2,788.23	2,760.40	11.78	15.67	75.90	-2,162.53	-8,960.46	9,096.97	9,069.70	27.27	333.587		
2,400.00	2,336.52	2,849.04	2,817.86	12.31	16.12	76.12	-2,142.63	-8,960.96	9,084.43	9,056.19	28.25	321.603		
2,500.00	2,432.72	2,907.36	2,873.35	12.84	16.53	76.32	-2,124.69	-8,961.37	9,072.45	9,043.25	29.20	310.736		
2,600.00	2,528.93	2,964.05	2,927.69	13.37	16.93	76.51	-2,108.56	-8,961.68	9,061.02	9,030.88	30.13	300.716		
2,700.00	2,625.13	2,700.00	3,030.50	13.91	15.09	76.87	-2,077.54	-8,962.53	9,050.06	9,021.22	28.84	313.805		
2,800.00	2,721.34	3,198.84	3,152.69	14.44	18.56	77.30	-2,041.49	-8,962.62	9,038.82	9,006.00	32.82	275.402		
2,900.00	2,817.54	2,900.00	3,263.92	14.98	16.51	77.68	-2,009.32	-8,962.10	9,027.53	8,996.21	31.32	288.221		
3,000.00	2,913.75	3,365.57	3,312.78	15.52	19.71	77.85	-1,994.92	-8,961.88	9,016.59	8,981.54	35.05	257.246		
3,100.00	3,009.95	3,409.00	3,354.40	16.06	20.02	78.00	-1,982.51	-8,962.02	9,006.43	8,970.53	35.90	250.860		
3,200.00	3,106.16	3,499.95	3,441.62	16.60	20.65	78.31	-1,956.74	-8,962.44	8,996.78	8,959.70	37.08	242.629		
3,300.00	3,202.37	3,564.45	3,503.51	17.14	21.10	78.53	-1,938.55	-8,962.73	8,987.42	8,949.34	38.08	236.010		
3,400.00	3,298.57	3,627.94	3,564.30	17.68	21.55	78.74	-1,920.25	-8,963.22	8,978.58	8,939.50	39.08	229.757		
3,500.00	3,394.78	3,693.00	3,626.54	18.22	22.01	78.97	-1,901.32	-8,963.89	8,970.24	8,930.14	40.09	223.742		
3,600.00	3,490.98	3,767.47	3,697.55	18.76	22.56	79.23	-1,878.88	-8,964.88	8,962.35	8,921.16	41.19	217.601		
3,700.00	3,587.19	3,846.54	3,772.56	19.31	23.15	79.51	-1,853.92	-8,966.14	8,954.86	8,912.53	42.33	211.554		
3,800.00	3,683.39	3,936.95	3,858.21	19.85	23.83	79.84	-1,825.00	-8,967.62	8,947.72	8,904.15	43.56	205.397		
3,900.00	3,779.60	4,014.31	3,931.50	20.39	24.42	80.11	-1,800.29	-8,968.81	8,940.85	8,896.15	44.70	200.019		
4,000.00	3,875.80	4,071.00	3,985.31	20.94	24.84	80.32	-1,782.47	-8,969.75	8,934.50	8,888.81	45.68	195.584		
4,100.00	3,972.01	4,121.14	4,033.00	21.48	25.21	80.50	-1,767.01	-8,970.72	8,928.76	8,882.15	46.61	191.580		
4,200.00	4,068.21	4,168.49	4,078.14	22.03	25.56	80.66	-1,752.76	-8,971.82	8,923.72	8,876.21	47.51	187.830		
4,300.00	4,164.42	4,545.00	4,435.01	22.57	28.42	82.02	-1,632.93	-8,975.15	8,917.38	8,866.48	50.90	175.210		
4,400.00	4,260.62	4,602.18	4,488.82	23.12	28.87	82.24	-1,613.61	-8,974.86	8,910.50	8,858.60	51.90	171.677		
4,500.00	4,356.83	4,639.00	4,523.56	23.67	29.16	82.37	-1,601.41	-8,974.83	8,904.38	8,851.63	52.75	168.796		
4,600.00	4,453.03	4,700.84	4,582.17	24.21	29.63	82.60	-1,581.69	-8,974.96	8,898.92	8,845.14	53.78	165.484		
4,700.00	4,549.24	4,754.28	4,633.14	24.76	30.03	82.79	-1,565.62	-8,975.20	8,894.06	8,839.33	54.73	162.512		
4,800.00	4,645.44	4,803.79	4,680.48	25.31	30.38	82.96	-1,551.17	-8,975.58	8,889.85	8,834.21	55.64	159.768		
4,900.00	4,741.65	4,888.58	4,761.94	25.86	30.98	83.25	-1,527.64	-8,976.43	8,886.21	8,829.43	56.79	156.486		
5,000.00	4,837.85	4,971.97	4,842.75	26.40	31.53	83.52	-1,507.07	-8,977.02	8,882.74	8,824.85	57.89	153.440		
5,100.00	4,934.06	5,040.24	4,909.13	26.95	31.97	83.73	-1,491.13	-8,977.62	8,879.72	8,820.84	58.88	150.814		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,113.98	4,981.04	27.50	32.42	83.96	-1,474.82	-8,978.37	8,877.11	8,817.22	59.89	148.227		
5,300.00	5,126.47	5,217.81	5,082.81	28.05	33.03	84.27	-1,454.29	-8,979.37	8,874.75	8,813.70	61.05	145.374		
5,400.00	5,222.67	5,323.15	5,186.73	28.60	33.60	84.55	-1,437.16	-8,980.13	8,872.46	8,810.30	62.16	142.734		
5,500.00	5,318.88	5,397.19	5,260.02	29.15	33.96	84.75	-1,426.63	-8,980.69	8,870.40	8,807.33	63.08	140.630		
5,600.00	5,415.08	5,507.12	5,369.24	29.70	34.47	85.02	-1,414.23	-8,981.44	8,868.50	8,804.36	64.13	138.283		
5,700.00	5,511.29	5,577.60	5,439.44	30.25	34.76	85.18	-1,407.98	-8,981.96	8,866.79	8,801.82	64.97	136.467		
5,800.00	5,607.49	5,677.60	5,541.64	30.79	35.69	85.69	-1,392.27	-8,981.44	8,863.99	8,797.55	66.44	133.418		
5,900.00	5,703.70	5,773.24	5,603.88	31.34	35.89	85.81	-1,389.79	-8,981.16	8,861.36	8,794.17	67.20	131.872		
6,000.00	5,799.90	5,869.44	5,699.44	31.89	36.05	85.90	-1,388.08	-8,981.16	8,859.30	8,791.38	67.91	130.452		
6,100.00	5,896.11	5,966.11	5,796.11	32.44	36.26	86.02	-1,386.43	-8,981.42	8,857.74	8,789.07	68.67	128.987		
6,200.00	5,992.32	6,062.32	5,892.32	32.99	36.53	86.18	-1,384.59	-8,981.95	8,856.53	8,787.04	69.49	127.450		
6,300.00	6,088.52	6,158.52	5,988.52	33.54	36.90	86.39	-1,382.31	-8,982.68	8,855.40	8,785.00	70.41	125.775		
6,400.00	6,184.73	6,254.73	6,084.73	34.09	37.20	86.56	-1,380.62	-8,983.15	8,854.26	8,783.01	71.25	124.270		
6,500.00	6,280.93	6,350.93	6,180.93	34.64	37.44	86.69	-1,379.14	-8,983.70	8,853.43	8,781.39	72.04	122.896		
6,600.00	6,377.14	6,447.14	6,277.14	35.19	37.69	86.84	-1,377.51	-8,984.46	8,852.94	8,780.10	72.84	121.540		
6,700.00	6,473.34	6,543.34	6,373.34	35.74	37.96	86.99	-1,375.83	-8,985.42	8,852.74	8,779.09	73.65	120.193		
6,724.39	6,496.80	6,566.80	6,396.80	35.88	38.02	87.02	-1,375.44	-8,985.68	8,852.73	8,778.88	73.85	119.870		
6,800.00	6,569.55	6,639.55	6,469.55	36.29	38.26	87.16	-1,374.01	-8,986.67	8,852.78	8,778.28	74.51	118.817		
6,900.00	6,665.75	6,735.75	6,565.75	36.84	38.63	87.71	-1,371.94	-8,988.06	8,852.68	8,777.26	75.42	117.383		
7,000.00	6,761.11	6,831.11	6,661.11	37.39	38.89	87.75	-1,370.46	-8,989.10	8,842.71	8,766.49	76.22	116.020		
7,100.00	6,853.41	6,923.41	6,753.41	37.89	39.14	87.79	-1,369.11	-8,990.23	8,842.71	8,766.49	76.96	114.568		
7,200.00	6,940.36	7,010.36	6,840.36	38.34	39.41	87.82	-1,367.59	-8,991.55	8,842.71	8,766.49	77.68	113.002		
7,300.00	7,019.83	7,089.83	6,909.83	38.74	39.67	87.89	-1,365.91	-8,992.83	8,842.61	8,766.28	78.32	111.390		
7,400.00	7,089.85	7,159.85	6,979.85	39.10	39.95	87.95	-1,363.88	-8,994.23	8,842.61	8,766.28	78.95	109.680		
7,500.00	7,148.71	7,218.71	7,038.71	39.42	40.21	88.00	-1,362.10	-8,995.39	8,842.61	8,766.28	79.49	107.971		
7,600.00	7,194.95	7,264.95	7,084.95	39.71	40.38	88.04	-1,360.95	-8,996.12	8,842.61	8,766.28	79.88	106.363		
7,700.00	7,227.43	7,297.43	7,117.43	40.01	40.49	88.08	-1,360.27	-8,996.60	8,842.61	8,766.28	80.15	104.845		
7,800.00	7,245.37	7,315.37	7,135.37	40.37	40.55	88.12	-1,359.90	-8,996.88	8,842.61	8,766.28	80.33	103.410		
7,900.00	7,248.84	7,318.84	7,138.84	40.87	40.57	88.16	-1,359.81	-8,996.96	8,842.61	8,766.28	80.40	102.073		
8,000.00	7,248.24	7,318.24	7,138.24	41.62	40.57	88.17	-1,359.79	-8,996.97	8,842.61	8,766.28	80.46	100.766		
8,100.00	7,247.65	7,317.65	7,137.65	42.66	40.57	88.18	-1,359.77	-8,996.98	8,842.61	8,766.28	80.51	99.457		
8,200.00	7,247.05	7,317.05	7,137.05	43.96	40.57	88.24	-1,359.75	-8,997.00	8,842.61	8,766.28	80.57	98.146		
8,300.00	7,246.46	7,316.46	7,136.46	45.46	40.58	88.33	-1,359.74	-8,997.01	8,842.61	8,766.28	80.63	96.833		
8,400.00	7,245.86	7,315.86	7,135.86	47.13	40.58	88.42	-1,359.72	-8,997.03	8,842.61	8,766.28	80.70	95.519		
8,500.00	7,245.27	7,315.27	7,135.27	48.93	40.58	88.51	-1,359.70	-8,997.04	8,842.61	8,766.28	80.77	94.202		
8,600.00	7,244.67	7,314.67	7,134.67	50.84	40.59	88.60	-1,359.68	-8,997.06	8,842.61	8,766.28	80.84	92.883		
8,700.00	7,244.07	7,314.07	7,134.07	52.85	40.59	88.69	-1,359.66	-8,997.07	8,842.61	8,766.28	80.92	91.563		
8,800.00	7,243.48	7,313.48	7,133.48	54.94	40.59	88.78	-1,359.65	-8,997.09	8,842.61	8,766.28	81.00	90.240		
8,900.00	7,242.88	7,312.88	7,132.88	57.10	40.60	88.87	-1,359.63	-8,997.10	8,842.61	8,766.28	81.09	88.916		
9,000.00	7,242.29	7,312.29	7,132.29	59.32	40.60	88.96	-1,359.61	-8,997.11	8,842.61	8,766.28	81.18	87.590		
9,100.00	7,241.69	7,311.69	7,131.69	61.60	40.60	89.05	-1,359.59	-8,997.13	8,842.61	8,766.28	81.27	86.262		
9,200.00	7,241.09	7,311.09	7,131.09	63.92	40.61	89.14	-1,359.57	-8,997.14	8,842.61	8,766.28	81.37	84.932		
9,300.00	7,240.50	7,310.50	7,130.50	66.29	40.61	89.24	-1,359.56	-8,997.16	8,842.61	8,766.28	81.47	83.600		
9,400.00	7,239.90	7,309.90	7,129.90	68.70	40.61	89.33	-1,359.54	-8,997.17	8,842.61	8,766.28	81.58	82.267		
9,500.00	7,239.31	7,309.31	7,129.31	71.14	40.62	89.42	-1,359.52	-8,997.19	8,842.61	8,766.28	81.70	80.931		
9,600.00	7,238.71	7,308.71	7,128.71	73.61	40.62	89.51	-1,359.50	-8,997.20	8,842.61	8,766.28	81.82	79.594		
9,700.00	7,238.11	7,308.11	7,128.11	76.11	40.62	89.60	-1,359.48	-8,997.22	8,842.61	8,766.28	81.95	78.255		
9,800.00	7,237.52	7,307.52	7,127.52	78.64	40.63	89.69	-1,359.47	-8,997.23	8,842.61	8,766.28	82.08	76.914		
9,900.00	7,236.92	7,306.92	7,126.92	81.19	40.63	89.78	-1,359.45	-8,997.25	8,842.61	8,766.28	82.22	75.571		
10,000.00	7,236.33	7,306.33	7,126.33	83.75	40.63	89.87	-1,359.43	-8,997.26	8,842.61	8,766.28	82.37	74.226		
10,100.00	7,235.73	7,305.73	7,125.73	86.34	40.64	89.96	-1,359.41	-8,997.28	8,842.61	8,766.28	82.53	72.880		
10,200.00	7,235.14	7,305.14	7,125.14	88.94	40.64	90.05	-1,359.39	-8,997.29	8,842.61	8,766.28	82.69	71.531		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,270.58	7,131.38	91.56	40.64	83.17	-1,359.38	-8,997.31	5,815.41	5,732.54	82.86	70.181		
10,400.00	7,233.94	7,271.54	7,132.33	94.19	40.65	83.26	-1,359.36	-8,997.33	5,715.91	5,632.86	83.04	68.829		
10,500.00	7,233.35	7,272.50	7,133.29	96.84	40.65	83.35	-1,359.34	-8,997.34	5,616.43	5,533.19	83.24	67.475		
10,600.00	7,232.75	7,273.46	7,134.25	99.50	40.65	83.45	-1,359.32	-8,997.36	5,516.97	5,433.53	83.44	66.120		
10,700.00	7,232.16	7,274.42	7,135.21	102.17	40.66	83.54	-1,359.30	-8,997.37	5,417.53	5,333.87	83.65	64.762		
10,800.00	7,231.56	7,275.38	7,136.18	104.85	40.66	83.64	-1,359.29	-8,997.39	5,318.11	5,234.23	83.88	63.403		
10,900.00	7,230.96	7,276.35	7,137.14	107.53	40.66	83.74	-1,359.27	-8,997.40	5,218.71	5,134.59	84.12	62.042		
11,000.00	7,230.37	7,277.32	7,138.11	110.23	40.67	83.83	-1,359.25	-8,997.42	5,119.33	5,034.96	84.37	60.679		
11,100.00	7,229.77	7,278.29	7,139.08	112.93	40.67	83.93	-1,359.23	-8,997.43	5,019.98	4,935.35	84.63	59.314		
11,200.00	7,229.18	7,279.27	7,140.06	115.65	40.67	84.02	-1,359.21	-8,997.45	4,920.65	4,835.74	84.92	57.947		
11,300.00	7,228.58	7,280.24	7,141.03	118.37	40.68	84.12	-1,359.19	-8,997.47	4,821.36	4,736.14	85.21	56.579		
11,400.00	7,227.99	7,281.22	7,142.01	121.09	40.68	84.22	-1,359.18	-8,997.48	4,722.09	4,636.56	85.53	55.209		
11,500.00	7,227.39	7,282.20	7,142.99	123.82	40.68	84.32	-1,359.16	-8,997.50	4,622.85	4,536.99	85.87	53.837		
11,600.00	7,226.79	7,283.19	7,143.98	126.56	40.69	84.41	-1,359.14	-8,997.51	4,523.65	4,437.43	86.22	52.464		
11,700.00	7,226.20	7,284.17	7,144.96	129.30	40.69	84.51	-1,359.12	-8,997.53	4,424.48	4,337.88	86.60	51.089		
11,800.00	7,225.60	7,285.16	7,145.95	132.05	40.69	84.61	-1,359.10	-8,997.55	4,325.35	4,238.35	87.01	49.713		
11,900.00	7,225.01	7,286.15	7,146.94	134.80	40.70	84.71	-1,359.09	-8,997.56	4,226.26	4,138.83	87.44	48.335		
12,000.00	7,224.41	7,287.15	7,147.93	137.56	40.70	84.81	-1,359.07	-8,997.58	4,127.22	4,039.32	87.89	46.956		
12,100.00	7,223.81	7,288.14	7,148.93	140.32	40.70	84.90	-1,359.05	-8,997.59	4,028.22	3,939.84	88.38	45.576		
12,200.00	7,223.22	7,289.14	7,149.93	143.08	40.71	85.00	-1,359.03	-8,997.61	3,929.27	3,840.36	88.91	44.195		
12,300.00	7,222.62	7,290.14	7,150.93	145.85	40.71	85.10	-1,359.01	-8,997.63	3,830.38	3,740.91	89.47	42.813		
12,400.00	7,222.03	7,291.15	7,151.93	148.62	40.71	85.20	-1,359.00	-8,997.64	3,731.54	3,641.48	90.07	41.430		
12,500.00	7,221.43	7,292.15	7,152.94	151.40	40.72	85.30	-1,358.98	-8,997.66	3,632.77	3,542.06	90.71	40.048		
12,600.00	7,220.83	7,293.16	7,153.94	154.18	40.72	85.40	-1,358.96	-8,997.68	3,534.07	3,442.67	91.40	38.665		
12,700.00	7,220.24	7,294.17	7,154.96	156.96	40.73	85.50	-1,358.94	-8,997.69	3,435.44	3,343.30	92.15	37.282		
12,800.00	7,219.64	7,295.18	7,155.97	159.74	40.73	85.60	-1,358.92	-8,997.71	3,336.90	3,243.95	92.95	35.900		
12,900.00	7,219.05	7,296.20	7,156.98	162.53	40.73	85.71	-1,358.91	-8,997.72	3,238.44	3,144.63	93.81	34.519		
13,000.00	7,218.45	7,297.22	7,158.00	165.32	40.74	85.81	-1,358.89	-8,997.74	3,140.08	3,045.33	94.75	33.141		
13,100.00	7,217.86	7,298.24	7,159.02	168.11	40.74	85.91	-1,358.87	-8,997.76	3,041.83	2,946.06	95.76	31.764		
13,200.00	7,217.26	7,299.26	7,160.05	170.90	40.74	86.01	-1,358.85	-8,997.78	2,943.69	2,846.83	96.86	30.390		
13,300.00	7,216.66	7,300.29	7,161.07	173.70	40.75	86.11	-1,358.83	-8,997.79	2,845.68	2,747.63	98.06	29.021		
13,400.00	7,216.07	7,301.32	7,162.10	176.49	40.75	86.21	-1,358.82	-8,997.81	2,747.82	2,648.47	99.36	27.656		
13,500.00	7,215.47	7,302.35	7,163.13	179.29	40.75	86.32	-1,358.80	-8,997.83	2,650.12	2,549.34	100.77	26.297		
13,600.00	7,214.88	7,303.38	7,164.16	182.09	40.76	86.42	-1,358.78	-8,997.84	2,552.59	2,450.27	102.33	24.946		
13,700.00	7,214.28	7,304.42	7,165.20	184.90	40.76	86.52	-1,358.76	-8,997.86	2,455.26	2,351.24	104.02	23.603		
13,800.00	7,213.68	7,305.46	7,166.24	187.70	40.76	86.63	-1,358.74	-8,997.88	2,358.16	2,252.27	105.89	22.270		
13,900.00	7,213.09	7,306.50	7,167.28	190.51	40.77	86.73	-1,358.73	-8,997.89	2,261.30	2,153.36	107.94	20.949		
14,000.00	7,212.49	7,307.54	7,168.32	193.32	40.77	86.83	-1,358.71	-8,997.91	2,164.74	2,054.52	110.21	19.642		
14,100.00	7,211.90	7,308.59	7,169.37	196.13	40.78	86.94	-1,358.69	-8,997.93	2,068.49	1,955.77	112.72	18.351		
14,200.00	7,211.30	7,309.64	7,170.42	198.94	40.78	87.04	-1,358.67	-8,997.95	1,972.62	1,857.12	115.50	17.078		
14,300.00	7,210.71	7,310.69	7,171.47	201.75	40.78	87.15	-1,358.65	-8,997.96	1,877.19	1,758.58	118.61	15.827		
14,400.00	7,210.11	7,311.74	7,172.52	204.56	40.79	87.25	-1,358.64	-8,997.98	1,782.25	1,660.18	122.07	14.600		
14,500.00	7,209.51	7,312.80	7,173.58	207.38	40.79	87.36	-1,358.62	-8,998.00	1,687.89	1,561.94	125.95	13.401		
14,600.00	7,208.92	7,313.86	7,174.64	210.19	40.79	87.46	-1,358.60	-8,998.02	1,594.23	1,463.91	130.31	12.234		
14,700.00	7,208.32	7,314.92	7,175.70	213.01	40.80	87.57	-1,358.58	-8,998.03	1,501.38	1,366.14	135.24	11.102		
14,800.00	7,207.73	7,315.99	7,176.77	215.83	40.80	87.68	-1,358.56	-8,998.05	1,409.50	1,268.69	140.81	10.010		
14,900.00	7,207.13	7,317.06	7,177.84	218.65	40.80	87.78	-1,358.55	-8,998.07	1,318.81	1,171.67	147.14	8.963		
15,000.00	7,206.53	7,318.13	7,178.91	221.47	40.81	87.89	-1,358.53	-8,998.09	1,229.56	1,075.20	154.36	7.965		
15,100.00	7,205.94	7,319.20	7,179.98	224.29	40.81	88.00	-1,358.51	-8,998.10	1,142.10	979.49	162.61	7.023		
15,200.00	7,205.34	7,320.28	7,181.06	227.11	40.82	88.10	-1,358.49	-8,998.12	1,056.86	884.81	172.05	6.143		
15,258.04	7,205.00	7,320.90	7,181.68	228.75	40.82	88.17	-1,358.48	-8,998.13	1,008.63	830.49	178.14	5.662 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	35.00	3.28	3.28	-106.48	-2,655.23	-8,977.12	9,361.63					
100.00	100.00	172.24	207.21	3.28	3.33	-106.46	-2,652.60	-8,976.84	9,361.17	9,354.56	6.61	1,416.608		
200.00	200.00	304.72	339.65	3.34	3.47	-106.45	-2,649.49	-8,975.84	9,359.76	9,352.95	6.80	1,375.983		
300.00	299.98	407.25	442.13	3.44	3.64	68.87	-2,646.41	-8,975.19	9,357.66	9,350.59	7.08	1,322.569		
400.00	399.84	493.01	527.84	3.59	3.81	68.97	-2,643.28	-8,974.74	9,354.26	9,346.86	7.40	1,263.503		
500.00	499.45	542.00	576.78	3.79	3.93	69.09	-2,641.18	-8,974.73	9,349.97	9,342.25	7.72	1,211.783		
600.00	598.70	588.18	622.92	4.03	4.05	69.23	-2,639.10	-8,975.02	9,345.00	9,336.92	8.07	1,157.345		
700.00	697.47	648.00	682.67	4.31	4.21	69.40	-2,636.44	-8,975.96	9,339.56	9,331.04	8.52	1,096.334		
800.00	795.62	662.22	696.87	4.64	4.25	69.54	-2,635.83	-8,976.27	9,333.42	9,324.54	8.88	1,050.937		
900.00	893.06	706.52	741.12	5.00	4.37	69.73	-2,634.07	-8,977.42	9,326.81	9,317.45	9.37	995.790		
1,000.00	989.65	791.73	826.24	5.40	4.63	70.01	-2,630.95	-8,979.80	9,319.37	9,309.36	10.02	930.490		
1,100.00	1,085.85	829.89	864.35	5.82	4.75	70.08	-2,629.44	-8,981.05	9,311.87	9,301.32	10.56	882.124		
1,200.00	1,182.06	884.00	918.35	6.27	4.93	70.18	-2,626.85	-8,983.33	9,305.07	9,293.90	11.17	832.881		
1,300.00	1,278.26	884.00	918.35	6.73	4.93	70.18	-2,626.85	-8,983.33	9,298.96	9,287.33	11.63	799.616		
1,400.00	1,374.47	925.93	960.16	7.20	5.07	70.27	-2,624.63	-8,985.60	9,293.58	9,281.34	12.24	759.281		
1,500.00	1,470.67	979.00	1,013.03	7.69	5.25	70.37	-2,621.82	-8,989.21	9,289.19	9,276.29	12.90	719.940		
1,600.00	1,566.88	979.00	1,013.03	8.18	5.25	70.37	-2,621.82	-8,989.21	9,285.33	9,271.94	13.39	693.350		
1,700.00	1,663.08	1,023.31	1,057.12	8.68	5.41	70.46	-2,619.25	-8,992.74	9,282.33	9,268.29	14.05	660.863		
1,800.00	1,759.29	1,074.00	1,107.50	9.19	5.60	70.57	-2,615.78	-8,997.19	9,279.95	9,265.21	14.73	629.934		
1,900.00	1,855.49	1,141.33	1,174.29	9.70	5.86	70.72	-2,610.19	-9,003.61	9,278.05	9,262.55	15.50	598.772		
2,000.00	1,951.70	1,168.00	1,200.70	10.22	5.97	70.78	-2,607.66	-9,006.26	9,276.64	9,260.53	16.11	575.874		
2,100.00	2,047.90	1,222.36	1,254.45	10.73	6.20	70.91	-2,601.98	-9,012.10	9,275.81	9,258.96	16.84	550.734		
2,140.87	2,087.22	1,235.77	1,267.69	10.95	6.25	70.94	-2,600.48	-9,013.65	9,275.71	9,258.60	17.11	542.182		
2,200.00	2,144.11	1,263.00	1,294.53	11.26	6.37	71.00	-2,597.33	-9,016.94	9,275.81	9,258.28	17.53	529.268		
2,300.00	2,240.31	1,263.00	1,294.53	11.78	6.37	71.00	-2,597.33	-9,016.94	9,276.63	9,258.59	18.04	514.169		
2,400.00	2,336.52	1,313.99	1,344.67	12.31	6.60	71.13	-2,590.92	-9,023.66	9,278.10	9,259.31	18.78	493.989		
2,500.00	2,432.72	1,358.00	1,387.78	12.84	6.80	71.25	-2,584.84	-9,030.08	9,280.47	9,260.98	19.50	476.040		
2,600.00	2,528.93	1,401.34	1,430.16	13.37	7.01	71.36	-2,578.61	-9,036.67	9,283.50	9,263.29	20.21	459.273		
2,700.00	2,625.13	1,507.34	1,533.89	13.91	7.53	71.63	-2,563.73	-9,052.65	9,286.80	9,265.57	21.23	437.411		
2,800.00	2,721.34	1,574.93	1,600.15	14.44	7.87	71.81	-2,554.94	-9,062.62	9,290.20	9,268.13	22.07	420.856		
2,900.00	2,817.54	1,616.43	1,640.82	14.98	8.08	71.91	-2,549.56	-9,068.96	9,294.23	9,271.43	22.79	407.738		
3,000.00	2,913.75	1,684.97	1,707.92	15.52	8.44	72.09	-2,540.69	-9,079.78	9,298.87	9,275.22	23.65	393.202		
3,100.00	3,009.95	1,831.00	1,851.05	16.06	9.21	72.45	-2,522.37	-9,102.13	9,303.31	9,278.41	24.90	373.675		
3,200.00	3,106.16	1,887.18	1,906.07	16.60	9.51	72.60	-2,514.87	-9,110.68	9,307.84	9,282.14	25.70	362.131		
3,300.00	3,202.37	3,300.00	1,998.13	17.14	17.47	72.83	-2,502.70	-9,125.41	9,312.96	9,279.46	33.50	277.995		
3,400.00	3,298.57	2,073.83	2,088.94	17.68	10.53	73.07	-2,491.20	-9,139.55	9,317.96	9,290.26	27.70	336.375		
3,500.00	3,394.78	2,118.81	2,133.01	18.22	10.78	73.18	-2,485.61	-9,146.61	9,323.52	9,295.07	28.45	327.706		
3,600.00	3,490.98	2,366.89	2,375.61	18.76	12.19	73.82	-2,449.73	-9,183.90	9,327.79	9,297.48	30.31	307.788		
3,700.00	3,587.19	2,408.43	2,416.34	19.31	12.43	73.93	-2,444.31	-9,189.98	9,332.67	9,301.62	31.05	300.580		
3,800.00	3,683.39	2,477.23	2,483.80	19.85	12.82	74.10	-2,435.55	-9,200.26	9,338.07	9,306.14	31.93	292.429		
3,900.00	3,779.60	2,527.37	2,532.91	20.39	13.10	74.23	-2,428.92	-9,207.94	9,343.93	9,311.21	32.72	285.578		
4,000.00	3,875.80	2,590.00	2,594.13	20.94	13.47	74.39	-2,420.38	-9,217.96	9,350.47	9,316.89	33.58	278.492		
4,100.00	3,972.01	2,669.75	2,672.05	21.48	13.94	74.59	-2,409.35	-9,230.91	9,357.41	9,322.88	34.53	271.001		
4,200.00	4,068.21	2,744.36	2,744.96	22.03	14.38	74.78	-2,399.09	-9,242.93	9,364.47	9,329.02	35.45	264.129		
4,300.00	4,164.42	2,874.00	2,871.84	22.57	15.14	75.11	-2,382.19	-9,263.51	9,371.55	9,334.87	36.68	255.501		
4,400.00	4,260.62	2,922.39	2,919.31	23.12	15.42	75.23	-2,376.59	-9,271.02	9,378.79	9,341.34	37.45	250.455		
4,500.00	4,356.83	2,969.00	2,965.02	23.67	15.68	75.34	-2,371.56	-9,278.66	9,386.85	9,348.65	38.20	245.704		
4,600.00	4,453.03	3,008.70	3,003.91	24.21	15.92	75.43	-2,367.27	-9,285.36	9,395.53	9,356.61	38.92	241.386		
4,700.00	4,549.24	3,232.96	3,223.98	24.76	17.20	75.97	-2,343.30	-9,321.08	9,403.23	9,362.60	40.63	231.415		
4,800.00	4,645.44	3,487.94	3,475.31	25.31	18.59	76.54	-2,321.46	-9,358.10	9,410.55	9,368.10	42.45	221.681		
4,900.00	4,741.65	3,726.44	3,710.84	25.86	19.87	77.07	-2,299.11	-9,388.16	9,415.59	9,371.40	44.18	213.101		
5,000.00	4,837.85	3,729.00	3,713.36	26.40	19.88	77.08	-2,298.85	-9,388.47	9,421.14	9,376.42	44.71	210.713		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	4,934.06	3,785.47	3,769.02	26.95	20.20	77.21	-2,292.65	-9,395.78	9,427.20	9,381.67	45.52	207.088		
5,200.00	5,030.26	3,824.00	3,806.87	27.50	20.41	77.31	-2,288.01	-9,401.23	9,434.18	9,387.95	46.24	204.042		
5,300.00	5,126.47	3,824.00	3,806.87	28.05	20.41	77.31	-2,288.01	-9,401.23	9,441.97	9,395.23	46.74	202.014		
5,400.00	5,222.67	3,882.81	3,864.52	28.60	20.76	77.45	-2,280.57	-9,410.14	9,450.35	9,402.78	47.57	198.672		
5,500.00	5,318.88	3,921.00	3,901.90	29.15	20.99	77.54	-2,275.62	-9,416.24	9,459.50	9,411.22	48.28	195.937		
5,600.00	5,415.08	4,137.66	4,114.18	29.70	22.27	78.07	-2,248.85	-9,450.30	9,468.95	9,418.96	49.99	189.417		
5,700.00	5,511.29	4,201.00	4,176.33	30.25	22.64	78.22	-2,241.23	-9,459.83	9,477.65	9,426.81	50.84	186.431		
5,800.00	5,607.49	4,274.31	4,248.15	30.79	23.08	78.40	-2,231.76	-9,471.07	9,486.74	9,434.99	51.75	183.329		
5,900.00	5,703.70	4,370.27	4,341.94	31.34	23.66	78.65	-2,217.93	-9,485.89	9,496.03	9,443.24	52.80	179.864		
6,000.00	5,799.90	4,435.75	4,405.79	31.89	24.07	78.82	-2,207.54	-9,496.09	9,505.56	9,451.88	53.68	177.092		
6,100.00	5,896.11	4,485.00	4,453.69	32.44	24.38	78.95	-2,199.21	-9,503.94	9,515.59	9,461.13	54.46	174.729		
6,200.00	5,992.32	4,537.48	4,504.65	32.99	24.71	79.09	-2,190.06	-9,512.53	9,526.18	9,470.91	55.27	172.370		
6,300.00	6,088.52	6,300.00	5,894.43	33.54	33.13	82.11	-2,069.33	-9,647.14	9,534.12	9,470.12	64.00	148.965		
6,400.00	6,184.73	6,304.04	6,255.79	34.09	33.11	82.72	-2,066.18	-9,649.71	9,531.12	9,466.66	64.46	147.860		
6,500.00	6,280.93	6,500.00	6,332.39	34.64	33.80	82.85	-2,065.20	-9,648.96	9,526.59	9,460.84	65.75	144.881		
6,600.00	6,377.14	6,455.68	6,407.41	35.19	33.65	82.98	-2,064.06	-9,648.36	9,522.32	9,456.18	66.14	143.977		
6,700.00	6,473.34	6,497.78	6,449.50	35.74	33.81	83.05	-2,063.36	-9,648.38	9,518.83	9,451.97	66.86	142.369		
6,800.00	6,569.55	6,566.00	6,517.71	36.29	34.06	83.17	-2,062.13	-9,648.91	9,516.06	9,448.39	67.67	140.616		
6,900.00	6,665.75	6,566.00	6,517.71	36.84	34.06	78.52	-2,062.13	-9,648.91	9,513.61	9,445.37	68.24	139.411		
7,000.00	6,761.11	6,643.63	6,595.32	37.39	34.36	52.47	-2,060.79	-9,650.09	9,501.69	9,432.61	69.08	137.541		
7,100.00	6,853.41	6,698.37	6,650.04	37.89	34.57	36.85	-2,060.02	-9,651.18	9,474.91	9,405.11	69.80	135.752		
7,200.00	6,940.36	6,755.00	6,706.65	38.34	34.79	27.91	-2,059.35	-9,652.53	9,433.81	9,363.35	70.46	133.884		
7,300.00	7,019.83	6,810.16	6,761.79	38.74	35.00	22.47	-2,058.80	-9,654.01	9,379.28	9,308.21	71.07	131.976		
7,400.00	7,089.85	6,864.55	6,816.16	39.10	35.21	18.92	-2,058.30	-9,655.58	9,312.52	9,240.91	71.61	130.043		
7,500.00	7,148.71	6,910.94	6,862.53	39.42	35.40	16.40	-2,057.91	-9,656.98	9,235.10	9,163.04	72.06	128.158		
7,600.00	7,194.95	6,944.00	6,895.57	39.71	35.52	14.36	-2,057.66	-9,658.03	9,148.85	9,076.46	72.39	126.378		
7,700.00	7,227.43	6,944.00	6,895.57	40.01	35.52	12.05	-2,057.66	-9,658.03	9,055.91	8,983.37	72.53	124.851		
7,800.00	7,245.37	6,977.80	6,929.35	40.37	35.66	7.25	-2,057.38	-9,659.18	8,958.34	8,885.60	72.74	123.161		
7,900.00	7,248.84	6,981.64	6,933.18	40.87	35.68	-24.71	-2,057.34	-9,659.32	8,858.66	8,785.89	72.77	121.731		
8,000.00	7,248.24	6,983.28	6,934.82	41.62	35.68	-24.85	-2,057.33	-9,659.37	8,758.71	8,685.93	72.78	120.338		
8,100.00	7,247.65	6,984.94	6,936.48	42.66	35.69	-24.98	-2,057.31	-9,659.43	8,658.77	8,585.97	72.80	118.944		
8,200.00	7,247.05	6,986.62	6,938.16	43.96	35.70	-25.12	-2,057.30	-9,659.50	8,558.82	8,486.01	72.81	117.549		
8,300.00	7,246.46	6,988.32	6,939.85	45.46	35.70	-25.26	-2,057.28	-9,659.56	8,458.88	8,386.05	72.82	116.153		
8,400.00	7,245.86	6,990.03	6,941.57	47.13	35.71	-25.41	-2,057.27	-9,659.62	8,358.93	8,286.09	72.84	114.757		
8,500.00	7,245.27	6,991.76	6,943.30	48.93	35.72	-25.56	-2,057.25	-9,659.68	8,258.99	8,186.13	72.86	113.359		
8,600.00	7,244.67	6,993.51	6,945.04	50.84	35.73	-25.71	-2,057.23	-9,659.75	8,159.05	8,086.17	72.87	111.960		
8,700.00	7,244.07	6,995.28	6,946.81	52.85	35.73	-25.87	-2,057.22	-9,659.81	8,059.11	7,986.21	72.89	110.561		
8,800.00	7,243.48	6,997.06	6,948.60	54.94	35.74	-26.03	-2,057.20	-9,659.88	7,959.17	7,886.26	72.91	109.160		
8,900.00	7,242.88	6,998.87	6,950.40	57.10	35.75	-26.19	-2,057.18	-9,659.95	7,859.23	7,786.29	72.93	107.760		
9,000.00	7,242.29	7,000.70	6,952.23	59.32	35.75	-26.35	-2,057.16	-9,660.02	7,759.29	7,686.33	72.95	106.358		
9,100.00	7,241.69	7,002.54	6,954.07	61.60	35.76	-26.52	-2,057.14	-9,660.08	7,659.35	7,586.37	72.98	104.956		
9,200.00	7,241.09	7,004.41	6,955.94	63.92	35.77	-26.70	-2,057.12	-9,660.16	7,559.41	7,486.41	73.00	103.554		
9,300.00	7,240.50	7,006.30	6,957.82	66.29	35.78	-26.88	-2,057.11	-9,660.23	7,459.48	7,386.45	73.02	102.151		
9,400.00	7,239.90	7,008.21	6,959.73	68.70	35.78	-27.06	-2,057.09	-9,660.30	7,359.54	7,286.49	73.05	100.748		
9,500.00	7,239.31	7,010.13	6,961.66	71.14	35.79	-27.24	-2,057.07	-9,660.37	7,259.61	7,186.53	73.08	99.344		
9,600.00	7,238.71	7,012.09	6,963.61	73.61	35.80	-27.44	-2,057.05	-9,660.45	7,159.67	7,086.57	73.10	97.940		
9,700.00	7,238.11	7,014.06	6,965.58	76.11	35.81	-27.63	-2,057.03	-9,660.53	7,059.74	6,986.61	73.13	96.536		
9,800.00	7,237.52	7,016.05	6,967.57	78.64	35.82	-27.83	-2,057.00	-9,660.60	6,959.81	6,886.65	73.16	95.132		
9,900.00	7,236.92	7,018.07	6,969.59	81.19	35.82	-28.04	-2,056.98	-9,660.68	6,859.88	6,786.69	73.19	93.727		
10,000.00	7,236.33	7,020.11	6,971.63	83.75	35.83	-28.25	-2,056.96	-9,660.76	6,759.95	6,686.73	73.22	92.323		
10,100.00	7,235.73	7,022.18	6,973.69	86.34	35.84	-28.47	-2,056.94	-9,660.84	6,660.02	6,586.77	73.25	90.919		
10,200.00	7,235.14	7,024.27	6,975.78	88.94	35.85	-28.69	-2,056.92	-9,660.93	6,560.09	6,486.81	73.29	89.514		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,300.00	7,234.54	7,026.38	6,977.89	91.56	35.86	-28.92	-2,056.89	-9,661.01	6,460.17	6,386.85	73.32	88.110		
10,400.00	7,233.94	7,028.52	6,980.03	94.19	35.87	-29.15	-2,056.87	-9,661.10	6,360.24	6,286.89	73.35	86.706		
10,500.00	7,233.35	7,030.68	6,982.19	96.84	35.88	-29.39	-2,056.85	-9,661.18	6,260.32	6,186.93	73.39	85.302		
10,600.00	7,232.75	7,032.87	6,984.38	99.50	35.88	-29.64	-2,056.82	-9,661.27	6,160.40	6,086.97	73.43	83.898		
10,700.00	7,232.16	7,035.09	6,986.59	102.17	35.89	-29.89	-2,056.80	-9,661.36	6,060.48	5,987.01	73.47	82.495		
10,800.00	7,231.56	7,037.33	6,988.83	104.85	35.90	-30.16	-2,056.77	-9,661.46	5,960.56	5,887.05	73.50	81.092		
10,900.00	7,230.96	7,039.60	6,991.10	107.53	35.91	-30.42	-2,056.74	-9,661.55	5,860.64	5,787.09	73.54	79.689		
11,000.00	7,230.37	7,041.90	6,993.39	110.23	35.92	-30.70	-2,056.72	-9,661.64	5,760.72	5,687.14	73.58	78.287		
11,100.00	7,229.77	7,044.22	6,995.72	112.93	35.93	-30.99	-2,056.69	-9,661.74	5,660.81	5,587.18	73.63	76.885		
11,200.00	7,229.18	7,046.58	6,998.07	115.65	35.94	-31.28	-2,056.66	-9,661.84	5,560.89	5,487.22	73.67	75.484		
11,300.00	7,228.58	7,048.96	7,000.45	118.37	35.95	-31.58	-2,056.63	-9,661.94	5,460.98	5,387.27	73.71	74.084		
11,400.00	7,227.99	7,051.37	7,002.86	121.09	35.96	-31.89	-2,056.61	-9,662.04	5,361.07	5,287.31	73.76	72.684		
11,500.00	7,227.39	7,053.82	7,005.30	123.82	35.97	-32.22	-2,056.58	-9,662.14	5,261.16	5,187.35	73.80	71.285		
11,600.00	7,226.79	7,056.29	7,007.77	126.56	35.98	-32.55	-2,056.55	-9,662.25	5,161.25	5,087.40	73.85	69.886		
11,700.00	7,226.20	7,058.80	7,010.27	129.30	35.99	-32.89	-2,056.51	-9,662.36	5,061.35	4,987.45	73.90	68.488		
11,800.00	7,225.60	7,061.33	7,012.81	132.05	36.00	-33.24	-2,056.48	-9,662.47	4,961.44	4,887.49	73.95	67.092		
11,900.00	7,225.01	7,063.90	7,015.38	134.80	36.01	-33.61	-2,056.45	-9,662.58	4,861.54	4,787.54	74.00	65.696		
12,000.00	7,224.41	7,066.51	7,017.98	137.56	36.02	-33.98	-2,056.42	-9,662.69	4,761.64	4,687.59	74.05	64.300		
12,100.00	7,223.81	7,069.14	7,020.61	140.32	36.03	-34.37	-2,056.38	-9,662.81	4,661.75	4,587.64	74.11	62.906		
12,200.00	7,223.22	7,071.82	7,023.28	143.08	36.04	-34.77	-2,056.35	-9,662.93	4,561.85	4,487.69	74.16	61.513		
12,300.00	7,222.62	7,074.52	7,025.99	145.85	36.05	-35.19	-2,056.31	-9,663.05	4,461.96	4,387.74	74.22	60.121		
12,400.00	7,222.03	7,077.27	7,028.73	148.62	36.06	-35.62	-2,056.28	-9,663.17	4,362.07	4,287.79	74.27	58.730		
12,500.00	7,221.43	7,080.05	7,031.51	151.40	36.07	-36.07	-2,056.24	-9,663.29	4,262.18	4,187.85	74.33	57.339		
12,600.00	7,220.83	7,082.87	7,034.32	154.18	36.09	-36.53	-2,056.20	-9,663.42	4,162.30	4,087.90	74.39	55.950		
12,700.00	7,220.24	7,085.72	7,037.17	156.96	36.10	-37.01	-2,056.17	-9,663.55	4,062.41	3,987.96	74.45	54.562		
12,800.00	7,219.64	7,088.62	7,040.07	159.74	36.11	-37.51	-2,056.13	-9,663.68	3,962.54	3,888.02	74.52	53.175		
12,900.00	7,219.05	7,091.56	7,043.00	162.53	36.12	-38.03	-2,056.09	-9,663.82	3,862.66	3,788.08	74.58	51.789		
13,000.00	7,218.45	7,094.53	7,045.97	165.32	36.13	-38.57	-2,056.05	-9,663.96	3,762.79	3,688.14	74.65	50.405		
13,100.00	7,217.86	7,097.55	7,048.99	168.11	36.15	-39.12	-2,056.00	-9,664.10	3,662.92	3,588.20	74.72	49.021		
13,200.00	7,217.26	7,100.61	7,052.04	170.90	36.16	-39.70	-2,055.96	-9,664.24	3,563.06	3,488.26	74.79	47.639		
13,300.00	7,216.66	7,103.71	7,055.14	173.70	36.17	-40.31	-2,055.92	-9,664.39	3,463.20	3,388.33	74.87	46.257		
13,400.00	7,216.07	7,106.86	7,058.29	176.49	36.18	-40.93	-2,055.87	-9,664.53	3,363.34	3,288.40	74.95	44.877		
13,500.00	7,215.47	7,110.05	7,061.47	179.29	36.20	-41.59	-2,055.83	-9,664.69	3,263.49	3,188.47	75.03	43.498		
13,600.00	7,214.88	7,113.29	7,064.71	182.09	36.21	-42.27	-2,055.78	-9,664.84	3,163.65	3,088.54	75.11	42.120		
13,700.00	7,214.28	7,116.58	7,067.99	184.90	36.22	-42.98	-2,055.73	-9,665.00	3,063.81	2,988.61	75.20	40.743		
13,800.00	7,213.68	7,119.91	7,071.32	187.70	36.24	-43.72	-2,055.68	-9,665.16	2,963.97	2,888.68	75.29	39.367		
13,900.00	7,213.09	7,123.30	7,074.70	190.51	36.25	-44.50	-2,055.63	-9,665.33	2,864.15	2,788.76	75.39	37.992		
14,000.00	7,212.49	7,126.73	7,078.13	193.32	36.26	-45.31	-2,055.58	-9,665.50	2,764.33	2,688.84	75.49	36.617		
14,100.00	7,211.90	7,130.00	7,084.39	196.13	36.29	-46.84	-2,055.48	-9,665.81	2,664.52	2,588.92	75.60	35.245		
14,200.00	7,211.30	7,134.08	7,088.47	198.94	36.29	-47.12	-2,055.46	-9,665.86	2,564.71	2,488.99	75.72	33.870		
14,300.00	7,210.71	7,139.11	7,090.49	201.75	36.31	-48.42	-2,055.39	-9,666.11	2,464.92	2,389.07	75.85	32.498		
14,400.00	7,210.11	7,144.08	7,095.46	204.56	36.33	-49.77	-2,055.31	-9,666.36	2,365.13	2,289.15	75.98	31.127		
14,500.00	7,209.51	7,149.00	7,100.36	207.38	36.35	-51.16	-2,055.23	-9,666.60	2,265.35	2,189.22	76.13	29.755		
14,600.00	7,208.92	7,153.85	7,105.21	210.19	36.37	-52.59	-2,055.16	-9,666.84	2,165.58	2,089.29	76.30	28.384		
14,700.00	7,208.32	7,158.65	7,110.00	213.01	36.39	-54.06	-2,055.09	-9,667.07	2,065.83	1,989.35	76.48	27.012		
14,800.00	7,207.73	7,163.39	7,114.74	215.83	36.41	-55.57	-2,055.02	-9,667.30	1,966.09	1,889.40	76.68	25.639		
14,900.00	7,207.13	7,168.07	7,119.42	218.65	36.43	-57.12	-2,054.95	-9,667.53	1,866.37	1,789.45	76.92	24.264		
15,000.00	7,206.53	7,172.71	7,124.04	221.47	36.45	-58.71	-2,054.88	-9,667.75	1,766.66	1,689.47	77.19	22.888		
15,100.00	7,205.94	7,177.28	7,128.62	224.29	36.47	-60.34	-2,054.81	-9,667.97	1,666.98	1,589.48	77.50	21.508		
15,200.00	7,205.34	7,181.81	7,133.14	227.11	36.49	-62.01	-2,054.74	-9,668.19	1,567.33	1,489.46	77.88	20.125		
15,258.04	7,205.00	7,184.41	7,135.74	228.75	36.50	-62.99	-2,054.70	-9,668.31	1,509.51	1,431.38	78.13	19.321 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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													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	35.00	3.28	3.28	-106.80	-2,713.52	-8,985.49	9,386.34					
100.00	100.00	42.99	77.99	3.28	3.28	-106.80	-2,713.41	-8,985.57	9,386.35	9,379.79	6.57	1,429.613		
200.00	200.00	112.01	147.01	3.34	3.29	-106.80	-2,712.79	-8,986.06	9,386.76	9,380.13	6.63	1,415.937		
300.00	299.98	171.00	205.98	3.44	3.33	68.46	-2,711.82	-8,986.77	9,386.84	9,380.08	6.76	1,387.760		
400.00	399.84	208.83	243.80	3.59	3.36	68.49	-2,711.14	-8,987.46	9,386.21	9,379.27	6.95	1,351.458		
500.00	499.45	263.00	297.94	3.79	3.41	68.54	-2,710.44	-8,988.96	9,385.13	9,377.92	7.20	1,303.144		
600.00	598.70	263.00	297.94	4.03	3.41	68.58	-2,710.44	-8,988.96	9,383.34	9,375.89	7.45	1,259.912		
700.00	697.47	263.00	297.94	4.31	3.41	68.61	-2,710.44	-8,988.96	9,381.34	9,373.60	7.74	1,212.730		
800.00	795.62	304.85	339.76	4.64	3.47	68.71	-2,710.32	-8,990.69	9,378.63	9,370.51	8.11	1,155.764		
900.00	893.06	354.00	388.82	5.00	3.55	68.83	-2,711.00	-8,993.57	9,375.96	9,367.41	8.55	1,096.644		
1,000.00	989.65	354.00	388.82	5.40	3.55	68.89	-2,711.00	-8,993.57	9,372.41	9,363.46	8.95	1,047.544		
1,100.00	1,085.85	354.00	388.82	5.82	3.55	68.89	-2,711.00	-8,993.57	9,369.40	9,360.03	9.37	999.702		
1,200.00	1,182.06	385.99	420.71	6.27	3.61	68.94	-2,711.95	-8,995.84	9,367.24	9,357.37	9.87	949.153		
1,300.00	1,278.26	410.97	445.60	6.73	3.65	68.97	-2,713.01	-8,997.75	9,365.90	9,355.53	10.37	902.877		
1,400.00	1,374.47	445.00	479.46	7.20	3.73	69.02	-2,714.90	-9,000.54	9,365.39	9,354.48	10.91	858.406		
1,500.00	1,470.67	555.33	589.13	7.69	3.99	69.16	-2,723.24	-9,009.19	9,365.24	9,353.60	11.63	804.984		
1,597.05	1,564.04	624.97	658.29	8.17	4.19	69.24	-2,729.62	-9,014.32	9,365.09	9,352.80	12.29	762.167		
1,600.00	1,566.88	627.09	660.39	8.18	4.20	69.24	-2,729.83	-9,014.47	9,365.09	9,352.78	12.31	760.919		
1,700.00	1,663.08	746.39	778.74	8.68	4.58	69.37	-2,742.29	-9,022.85	9,364.99	9,351.84	13.15	712.132		
1,800.00	1,759.29	824.65	856.41	9.19	4.86	69.46	-2,749.95	-9,028.51	9,364.96	9,351.05	13.90	673.576		
1,809.24	1,768.18	1,335.92	1,365.89	9.23	6.83	70.14	-2,779.28	-9,056.85	9,364.13	9,348.34	15.79	593.077		
1,900.00	1,855.49	1,383.00	1,412.90	9.70	7.01	70.21	-2,780.17	-9,059.14	9,359.99	9,343.56	16.43	569.706		
2,000.00	1,951.70	1,383.00	1,412.90	10.22	7.01	70.21	-2,780.17	-9,059.14	9,355.84	9,338.90	16.94	552.152		
2,100.00	2,047.90	1,383.00	1,412.90	10.73	7.01	70.21	-2,780.17	-9,059.14	9,352.77	9,335.31	17.46	535.608		
2,200.00	2,144.11	1,383.00	1,412.90	11.26	7.01	70.21	-2,780.17	-9,059.14	9,350.76	9,332.78	17.98	520.015		
2,300.00	2,240.31	1,383.00	1,412.90	11.78	7.01	70.21	-2,780.17	-9,059.14	9,349.82	9,331.32	18.50	505.317		
2,366.89	2,304.66	1,413.10	1,442.91	12.14	7.14	70.26	-2,780.84	-9,061.35	9,349.27	9,330.30	18.97	492.888		
2,400.00	2,336.52	1,416.09	1,445.89	12.31	7.15	70.26	-2,780.92	-9,061.62	9,349.32	9,330.17	19.15	488.142		
2,500.00	2,432.72	1,445.00	1,474.62	12.84	7.27	70.31	-2,781.89	-9,064.66	9,350.36	9,330.57	19.79	472.522		
2,600.00	2,528.93	1,445.00	1,474.62	13.37	7.27	70.31	-2,781.89	-9,064.66	9,351.99	9,331.68	20.31	460.442		
2,700.00	2,625.13	1,445.00	1,474.62	13.91	7.27	70.31	-2,781.89	-9,064.66	9,354.69	9,333.85	20.83	449.028		
2,800.00	2,721.34	1,499.44	1,528.62	14.44	7.51	70.39	-2,784.23	-9,071.17	9,358.23	9,336.65	21.58	433.723		
2,900.00	2,817.54	1,569.00	1,597.58	14.98	7.83	70.49	-2,787.99	-9,079.49	9,362.14	9,339.76	22.38	418.238		
3,000.00	2,913.75	1,599.88	1,628.16	15.52	7.98	70.53	-2,790.06	-9,083.24	9,366.60	9,343.56	23.04	406.568		
3,100.00	3,009.95	1,631.49	1,659.42	16.06	8.13	70.57	-2,792.62	-9,087.20	9,371.79	9,348.09	23.69	395.520		
3,200.00	3,106.16	1,665.00	1,692.49	16.60	8.29	70.61	-2,795.83	-9,091.53	9,377.71	9,353.35	24.36	384.969		
3,300.00	3,202.37	1,665.00	1,692.49	17.14	8.29	70.61	-2,795.83	-9,091.53	9,384.52	9,359.64	24.88	377.239		
3,400.00	3,298.57	1,704.79	1,731.66	17.68	8.49	70.66	-2,800.18	-9,097.01	9,391.98	9,366.40	25.57	367.258		
3,500.00	3,394.78	3,500.00	1,796.84	18.22	18.40	70.73	-2,808.33	-9,106.93	9,400.47	9,366.09	34.38	273.442		
3,600.00	3,490.98	1,906.92	1,930.12	18.76	9.55	70.87	-2,824.95	-9,126.28	9,408.41	9,380.87	27.55	341.556		
3,700.00	3,587.19	2,040.00	2,060.76	19.31	10.27	71.01	-2,842.42	-9,144.56	9,416.13	9,387.43	28.70	328.097		
3,800.00	3,683.39	2,096.33	2,116.14	19.85	10.57	71.07	-2,849.51	-9,152.08	9,423.66	9,394.18	29.49	319.584		
3,900.00	3,779.60	2,136.00	2,155.05	20.39	10.79	71.11	-2,854.52	-9,157.95	9,432.21	9,402.02	30.19	312.385		
4,000.00	3,875.80	2,177.06	2,195.28	20.94	11.02	71.15	-2,859.78	-9,164.27	9,441.40	9,410.49	30.91	305.459		
4,100.00	3,972.01	2,381.12	2,395.27	21.48	12.17	71.36	-2,886.97	-9,194.26	9,450.22	9,417.78	32.44	291.281		
4,200.00	4,068.21	2,443.36	2,456.29	22.03	12.52	71.42	-2,895.65	-9,203.03	9,458.66	9,425.39	33.27	284.265		
4,300.00	4,164.42	2,484.65	2,496.68	22.57	12.76	71.45	-2,901.75	-9,209.02	9,467.68	9,433.68	34.00	278.468		
4,400.00	4,260.62	2,533.63	2,544.50	23.12	13.05	71.50	-2,909.38	-9,216.34	9,477.31	9,442.55	34.76	272.616		
4,500.00	4,356.83	2,607.00	2,616.09	23.67	13.49	71.56	-2,920.96	-9,227.50	9,487.30	9,451.64	35.66	266.040		
4,600.00	4,453.03	2,639.77	2,648.03	24.21	13.69	71.59	-2,926.23	-9,232.62	9,497.79	9,461.45	36.34	261.331		
4,700.00	4,549.24	3,490.13	3,483.51	24.76	18.50	72.38	-3,042.65	-9,335.80	9,501.41	9,460.15	41.26	230.270		
4,800.00	4,645.44	3,550.00	3,542.56	25.31	18.83	72.44	-3,050.86	-9,341.19	9,504.87	9,462.77	42.10	225.760		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,741.65	3,550.00	3,542.56	25.86	18.83	72.44	-3,050.86	-9,341.19	9,508.90	9,466.26	42.64	223.024		
5,000.00	4,837.85	3,600.87	3,592.67	26.40	19.11	72.48	-3,058.00	-9,346.25	9,513.60	9,470.17	43.43	219.056		
5,100.00	4,934.06	3,644.00	3,635.14	26.95	19.35	72.52	-3,063.91	-9,350.96	9,519.03	9,474.85	44.18	215.447		
5,200.00	5,030.26	3,644.00	3,635.14	27.50	19.35	72.52	-3,063.91	-9,350.96	9,525.23	9,480.52	44.71	213.059		
5,300.00	5,126.47	3,685.29	3,675.72	28.05	19.59	72.56	-3,069.70	-9,355.91	9,532.10	9,486.65	45.45	209.733		
5,400.00	5,222.67	3,739.00	3,728.32	28.60	19.91	72.61	-3,077.81	-9,363.09	9,540.04	9,493.79	46.26	206.244		
5,500.00	5,318.88	3,739.00	3,728.32	29.15	19.91	72.61	-3,077.81	-9,363.09	9,548.39	9,501.62	46.77	204.160		
5,600.00	5,415.08	3,767.58	3,756.24	29.70	20.08	72.63	-3,082.36	-9,367.19	9,557.68	9,510.24	47.44	201.475		
5,700.00	5,511.29	4,305.00	4,282.41	30.25	23.29	73.07	-3,166.39	-9,435.62	9,567.41	9,516.50	50.91	187.913		
5,800.00	5,607.49	4,305.00	4,282.41	30.79	23.29	73.07	-3,166.39	-9,435.62	9,573.04	9,521.59	51.44	186.090		
5,900.00	5,703.70	4,357.86	4,334.45	31.34	23.60	73.12	-3,173.45	-9,441.64	9,579.25	9,527.00	52.25	183.337		
6,000.00	5,799.90	4,399.00	4,374.88	31.89	23.83	73.15	-3,179.11	-9,446.71	9,586.26	9,533.27	52.99	180.902		
6,100.00	5,896.11	4,435.12	4,410.35	32.44	24.05	73.19	-3,184.05	-9,451.41	9,593.90	9,540.19	53.70	178.645		
6,200.00	5,992.32	4,495.00	4,469.16	32.99	24.40	73.25	-3,191.80	-9,459.55	9,602.08	9,547.54	54.54	176.045		
6,300.00	6,088.52	4,532.10	4,505.59	33.54	24.62	73.28	-3,196.54	-9,464.81	9,610.79	9,555.53	55.26	173.927		
6,400.00	6,184.73	4,588.00	4,560.36	34.09	24.95	73.34	-3,204.14	-9,472.95	9,620.08	9,564.00	56.07	171.562		
6,500.00	6,280.93	4,671.86	4,642.44	34.64	25.46	73.41	-3,216.01	-9,485.33	9,629.72	9,572.67	57.05	168.794		
6,600.00	6,377.14	6,325.00	6,282.85	35.19	33.28	75.58	-3,314.15	-9,611.90	9,624.43	9,559.43	65.00	148.070		
6,700.00	6,473.34	6,419.94	6,377.78	35.74	33.63	75.73	-3,314.05	-9,612.87	9,618.45	9,552.51	65.93	145.882		
6,800.00	6,569.55	6,519.41	6,477.24	36.29	33.99	75.89	-3,313.69	-9,613.92	9,612.52	9,545.64	66.88	143.733		
6,900.00	6,665.75	6,618.72	6,576.54	36.84	34.35	71.39	-3,313.07	-9,614.98	9,606.47	9,538.65	67.82	141.643		
7,000.00	6,761.11	6,775.32	6,733.13	37.39	34.89	45.26	-3,311.39	-9,616.36	9,590.48	9,521.56	68.92	139.152		
7,100.00	6,853.41	6,967.91	6,925.69	37.89	35.54	29.43	-3,307.73	-9,616.50	9,558.61	9,488.54	70.07	136.414		
7,200.00	6,940.36	7,018.16	6,975.93	38.34	35.71	19.81	-3,306.71	-9,616.45	9,512.33	9,441.62	70.71	134.523		
7,300.00	7,019.83	7,077.18	7,034.93	38.74	35.91	13.34	-3,305.59	-9,616.47	9,453.15	9,381.84	71.31	132.559		
7,400.00	7,089.85	7,129.41	7,087.16	39.10	36.09	8.15	-3,304.70	-9,616.58	9,382.47	9,310.65	71.82	130.641		
7,500.00	7,148.71	7,173.55	7,131.30	39.42	36.24	2.96	-3,304.02	-9,616.74	9,301.96	9,229.73	72.22	128.800		
7,600.00	7,194.95	7,208.47	7,166.21	39.71	36.36	-3.90	-3,303.53	-9,616.90	9,213.52	9,141.01	72.51	127.067		
7,700.00	7,227.43	7,229.00	7,186.74	40.01	36.43	-16.38	-3,303.26	-9,617.02	9,119.30	9,046.63	72.67	125.487		
7,800.00	7,245.37	7,244.86	7,202.59	40.37	36.48	-47.94	-3,303.05	-9,617.12	9,021.58	8,948.84	72.74	124.020		
7,900.00	7,248.84	7,247.61	7,205.34	40.87	36.49	-90.38	-3,303.01	-9,617.14	8,922.73	8,850.02	72.71	122.715		
8,000.00	7,248.24	7,247.69	7,205.42	41.62	36.49	-90.38	-3,303.01	-9,617.14	8,823.92	8,751.26	72.66	121.442		
8,100.00	7,247.65	7,247.77	7,205.50	42.66	36.49	-90.39	-3,303.01	-9,617.14	8,725.14	8,652.53	72.61	120.158		
8,200.00	7,247.05	7,247.85	7,205.59	43.96	36.50	-90.39	-3,303.01	-9,617.14	8,626.39	8,553.82	72.57	118.864		
8,300.00	7,246.46	7,247.94	7,205.67	45.46	36.50	-90.39	-3,303.00	-9,617.14	8,527.67	8,455.13	72.54	117.559		
8,400.00	7,245.86	7,248.02	7,205.76	47.13	36.50	-90.40	-3,303.00	-9,617.14	8,428.98	8,356.47	72.51	116.242		
8,500.00	7,245.27	7,248.11	7,205.84	48.93	36.50	-90.40	-3,303.00	-9,617.14	8,330.32	8,257.83	72.49	114.914		
8,600.00	7,244.67	7,248.20	7,205.93	50.84	36.50	-90.40	-3,303.00	-9,617.14	8,231.69	8,159.21	72.48	113.573		
8,700.00	7,244.07	7,248.29	7,206.02	52.85	36.50	-90.41	-3,303.00	-9,617.14	8,133.09	8,060.62	72.47	112.221		
8,800.00	7,243.48	7,248.37	7,206.11	54.94	36.50	-90.41	-3,303.00	-9,617.14	8,034.53	7,962.06	72.48	110.855		
8,900.00	7,242.88	7,248.46	7,206.20	57.10	36.50	-90.41	-3,303.00	-9,617.14	7,936.01	7,863.52	72.49	109.476		
9,000.00	7,242.29	7,248.55	7,206.29	59.32	36.50	-90.42	-3,303.00	-9,617.15	7,837.52	7,765.01	72.51	108.084		
9,100.00	7,241.69	7,248.65	7,206.38	61.60	36.50	-90.42	-3,302.99	-9,617.15	7,739.08	7,666.53	72.55	106.677		
9,200.00	7,241.09	7,248.74	7,206.47	63.92	36.50	-90.43	-3,302.99	-9,617.15	7,640.67	7,568.08	72.59	105.257		
9,300.00	7,240.50	7,248.83	7,206.57	66.29	36.50	-90.43	-3,302.99	-9,617.15	7,542.30	7,469.66	72.65	103.822		
9,400.00	7,239.90	7,248.93	7,206.66	68.70	36.50	-90.43	-3,302.99	-9,617.15	7,443.98	7,371.27	72.72	102.371		
9,500.00	7,239.31	7,249.02	7,206.76	71.14	36.50	-90.44	-3,302.99	-9,617.15	7,345.70	7,272.91	72.80	100.906		
9,600.00	7,238.71	7,249.12	7,206.85	73.61	36.50	-90.44	-3,302.99	-9,617.15	7,247.48	7,174.58	72.89	99.425		
9,700.00	7,238.11	7,249.22	7,206.95	76.11	36.50	-90.45	-3,302.99	-9,617.15	7,149.29	7,076.29	73.01	97.927		
9,800.00	7,237.52	7,249.31	7,207.05	78.64	36.50	-90.45	-3,302.98	-9,617.15	7,051.17	6,978.03	73.13	96.414		
9,900.00	7,236.92	7,249.41	7,207.15	81.19	36.50	-90.45	-3,302.98	-9,617.15	6,953.09	6,879.81	73.28	94.884		
10,000.00	7,236.33	7,249.51	7,207.25	83.75	36.50	-90.46	-3,302.98	-9,617.15	6,855.07	6,781.62	73.44	93.337		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,100.00	7,235.73	7,249.62	7,207.35	86.34	36.50	-90.46	-3,302.98	-9,617.15	6,757.11	6,683.48	73.63	91.774	
10,200.00	7,235.14	7,249.72	7,207.45	88.94	36.50	-90.47	-3,302.98	-9,617.15	6,659.20	6,585.37	73.83	90.193	
10,300.00	7,234.54	7,249.82	7,207.56	91.56	36.50	-90.47	-3,302.98	-9,617.15	6,561.37	6,487.31	74.06	88.596	
10,400.00	7,233.94	7,249.93	7,207.66	94.19	36.50	-90.48	-3,302.98	-9,617.16	6,463.59	6,389.28	74.31	86.981	
10,500.00	7,233.35	7,250.04	7,207.77	96.84	36.50	-90.48	-3,302.97	-9,617.16	6,365.89	6,291.30	74.59	85.350	
10,600.00	7,232.75	7,250.14	7,207.88	99.50	36.50	-90.49	-3,302.97	-9,617.16	6,268.26	6,193.37	74.89	83.702	
10,700.00	7,232.16	7,250.25	7,207.99	102.17	36.50	-90.49	-3,302.97	-9,617.16	6,170.71	6,095.49	75.22	82.037	
10,800.00	7,231.56	7,250.36	7,208.10	104.85	36.50	-90.49	-3,302.97	-9,617.16	6,073.23	5,997.65	75.58	80.355	
10,900.00	7,230.96	7,250.47	7,208.21	107.53	36.50	-90.50	-3,302.97	-9,617.16	5,975.84	5,899.87	75.97	78.658	
11,000.00	7,230.37	7,250.59	7,208.32	110.23	36.50	-90.50	-3,302.97	-9,617.16	5,878.53	5,802.13	76.40	76.945	
11,100.00	7,229.77	7,250.70	7,208.43	112.93	36.51	-90.51	-3,302.96	-9,617.16	5,781.32	5,704.46	76.86	75.218	
11,200.00	7,229.18	7,250.81	7,208.55	115.65	36.51	-90.51	-3,302.96	-9,617.16	5,684.21	5,606.84	77.36	73.476	
11,300.00	7,228.58	7,250.93	7,208.66	118.37	36.51	-90.52	-3,302.96	-9,617.16	5,587.19	5,509.29	77.90	71.720	
11,400.00	7,227.99	7,251.05	7,208.78	121.09	36.51	-90.52	-3,302.96	-9,617.16	5,490.28	5,411.80	78.49	69.953	
11,500.00	7,227.39	7,251.17	7,208.90	123.82	36.51	-90.53	-3,302.96	-9,617.16	5,393.49	5,314.38	79.11	68.174	
11,600.00	7,226.79	7,251.29	7,209.02	126.56	36.51	-90.53	-3,302.96	-9,617.17	5,296.82	5,217.03	79.79	66.384	
11,700.00	7,226.20	7,251.41	7,209.14	129.30	36.51	-90.54	-3,302.95	-9,617.17	5,200.27	5,119.75	80.52	64.586	
11,800.00	7,225.60	7,251.53	7,209.27	132.05	36.51	-90.54	-3,302.95	-9,617.17	5,103.85	5,022.55	81.30	62.780	
11,900.00	7,225.01	7,251.66	7,209.39	134.80	36.51	-90.55	-3,302.95	-9,617.17	5,007.58	4,925.44	82.13	60.968	
12,000.00	7,224.41	7,251.79	7,209.52	137.56	36.51	-90.55	-3,302.95	-9,617.17	4,911.45	4,828.42	83.03	59.152	
12,100.00	7,223.81	7,251.91	7,209.65	140.32	36.51	-90.56	-3,302.95	-9,617.17	4,815.48	4,731.49	83.99	57.333	
12,200.00	7,223.22	7,252.04	7,209.78	143.08	36.51	-90.56	-3,302.94	-9,617.17	4,719.68	4,634.66	85.02	55.513	
12,300.00	7,222.62	7,252.18	7,209.91	145.85	36.51	-90.57	-3,302.94	-9,617.17	4,624.06	4,537.94	86.12	53.694	
12,400.00	7,222.03	7,252.31	7,210.04	148.62	36.51	-90.58	-3,302.94	-9,617.17	4,528.62	4,441.33	87.29	51.879	
12,500.00	7,221.43	7,252.44	7,210.18	151.40	36.51	-90.58	-3,302.94	-9,617.17	4,433.39	4,344.84	88.55	50.069	
12,600.00	7,220.83	7,252.58	7,210.31	154.18	36.51	-90.59	-3,302.94	-9,617.18	4,338.37	4,248.48	89.88	48.266	
12,700.00	7,220.24	7,252.72	7,210.45	156.96	36.51	-90.59	-3,302.93	-9,617.18	4,243.58	4,152.27	91.31	46.473	
12,800.00	7,219.64	7,252.86	7,210.59	159.74	36.51	-90.60	-3,302.93	-9,617.18	4,149.03	4,056.20	92.84	44.692	
12,900.00	7,219.05	7,253.00	7,210.73	162.53	36.51	-90.60	-3,302.93	-9,617.18	4,054.75	3,960.29	94.46	42.926	
13,000.00	7,218.45	7,253.14	7,210.88	165.32	36.51	-90.61	-3,302.93	-9,617.18	3,960.75	3,864.56	96.19	41.176	
13,100.00	7,217.86	7,253.29	7,211.02	168.11	36.51	-90.62	-3,302.93	-9,617.18	3,867.04	3,769.01	98.04	39.445	
13,200.00	7,217.26	7,253.44	7,211.17	170.90	36.51	-90.62	-3,302.92	-9,617.18	3,773.66	3,673.66	100.00	37.736	
13,300.00	7,216.66	7,253.59	7,211.32	173.70	36.52	-90.63	-3,302.92	-9,617.18	3,680.63	3,578.54	102.10	36.051	
13,400.00	7,216.07	7,253.74	7,211.47	176.49	36.52	-90.64	-3,302.92	-9,617.18	3,587.98	3,483.65	104.33	34.392	
13,500.00	7,215.47	7,253.89	7,211.62	179.29	36.52	-90.64	-3,302.92	-9,617.19	3,495.73	3,389.02	106.70	32.761	
13,600.00	7,214.88	7,254.05	7,211.78	182.09	36.52	-90.65	-3,302.91	-9,617.19	3,403.91	3,294.67	109.24	31.161	
13,700.00	7,214.28	7,254.20	7,211.94	184.90	36.52	-90.66	-3,302.91	-9,617.19	3,312.57	3,200.63	111.94	29.593	
13,800.00	7,213.68	7,254.36	7,212.10	187.70	36.52	-90.66	-3,302.91	-9,617.19	3,221.75	3,106.93	114.81	28.061	
13,900.00	7,213.09	7,254.52	7,212.26	190.51	36.52	-90.67	-3,302.91	-9,617.19	3,131.48	3,013.60	117.88	26.565	
14,000.00	7,212.49	7,254.69	7,212.42	193.32	36.52	-90.68	-3,302.90	-9,617.19	3,041.82	2,920.67	121.15	25.108	
14,100.00	7,211.90	7,254.85	7,212.59	196.13	36.52	-90.68	-3,302.90	-9,617.19	2,952.83	2,828.20	124.63	23.692	
14,200.00	7,211.30	7,255.02	7,212.76	198.94	36.52	-90.69	-3,302.90	-9,617.19	2,864.56	2,736.21	128.35	22.318	
14,300.00	7,210.71	7,255.19	7,212.93	201.75	36.52	-90.70	-3,302.90	-9,617.20	2,777.09	2,644.78	132.31	20.989	
14,400.00	7,210.11	7,255.37	7,213.10	204.56	36.52	-90.70	-3,302.89	-9,617.20	2,690.49	2,553.95	136.54	19.705	
14,500.00	7,209.51	7,255.54	7,213.28	207.38	36.52	-90.71	-3,302.89	-9,617.20	2,604.85	2,463.80	141.05	18.468	
14,600.00	7,208.92	7,255.72	7,213.45	210.19	36.52	-90.72	-3,302.89	-9,617.20	2,520.27	2,374.41	145.86	17.279	
14,700.00	7,208.32	7,255.90	7,213.64	213.01	36.52	-90.73	-3,302.89	-9,617.20	2,436.86	2,285.87	150.99	16.139	
14,800.00	7,207.73	7,256.09	7,213.82	215.83	36.52	-90.73	-3,302.88	-9,617.20	2,354.74	2,198.28	156.46	15.050	
14,900.00	7,207.13	7,256.27	7,214.01	218.65	36.52	-90.74	-3,302.88	-9,617.20	2,274.06	2,111.77	162.29	14.013	
15,000.00	7,206.53	7,256.46	7,214.20	221.47	36.53	-90.75	-3,302.88	-9,617.21	2,194.96	2,026.47	168.49	13.027	
15,100.00	7,205.94	7,256.65	7,214.39	224.29	36.53	-90.76	-3,302.87	-9,617.21	2,117.63	1,942.55	175.08	12.095	
15,200.00	7,205.34	7,256.85	7,214.58	227.11	36.53	-90.77	-3,302.87	-9,617.21	2,042.27	1,860.20	182.08	11.216	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 6-8-17(PR_150CC) - OH - OH											<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b>	82-MWVD											<b>Offset Well Error:</b>	3.28 ft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Distance</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>	<b>Warning</b>	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
15,258.04	7,205.00	7,256.96	7,214.70	228.75	36.53	-90.77	-3,302.87	-9,617.21	1,999.52	1,813.20	186.33	10.731 CC, ES, SF	





# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	947.01	972.36	3.28	5.62	-107.54	-2,794.05	-8,839.96	9,321.86					
100.00	100.00	1,003.00	1,026.88	3.28	5.92	-107.61	-2,803.25	-8,831.08	9,311.57	9,302.41	9.16	1,016.946		
200.00	200.00	1,063.79	1,086.09	3.34	6.24	-107.69	-2,813.35	-8,821.68	9,301.72	9,292.21	9.51	978.146		
300.00	299.98	1,098.00	1,119.48	3.44	6.43	67.70	-2,818.80	-8,816.66	9,291.84	9,282.06	9.78	950.195		
400.00	399.84	1,141.56	1,162.10	3.59	6.66	67.86	-2,825.48	-8,810.64	9,281.29	9,271.15	10.14	915.354		
500.00	499.45	1,193.00	1,212.58	3.79	6.93	68.04	-2,832.92	-8,804.16	9,270.17	9,259.58	10.59	875.146		
600.00	598.70	1,232.64	1,251.51	4.03	7.14	68.25	-2,838.69	-8,799.40	9,258.30	9,247.27	11.03	839.260		
700.00	697.47	1,307.27	1,324.61	4.31	7.55	68.47	-2,850.62	-8,790.27	9,245.51	9,233.80	11.70	790.166		
800.00	795.62	1,379.00	1,394.91	4.64	7.94	68.72	-2,862.02	-8,781.71	9,231.71	9,219.30	12.40	744.422		
900.00	893.06	1,703.01	1,713.83	5.00	9.67	69.13	-2,904.12	-8,743.23	9,216.46	9,202.02	14.44	638.434		
1,000.00	989.65	1,757.00	1,766.95	5.40	9.97	69.48	-2,910.93	-8,736.41	9,198.39	9,183.29	15.10	609.046		
1,100.00	1,085.85	1,772.52	1,782.22	5.82	10.06	69.49	-2,912.93	-8,734.55	9,180.34	9,164.75	15.59	588.784		
1,200.00	1,182.06	1,835.03	1,843.72	6.27	10.40	69.53	-2,921.32	-8,727.09	9,162.87	9,146.52	16.35	560.288		
1,300.00	1,278.26	2,246.46	2,247.36	6.73	12.77	69.76	-2,976.59	-8,670.35	9,142.77	9,123.73	19.04	480.102		
1,400.00	1,374.47	2,307.74	2,307.58	7.20	13.12	69.80	-2,983.60	-8,661.48	9,122.35	9,102.52	19.83	460.086		
1,500.00	1,470.67	2,348.22	2,347.46	7.69	13.34	69.83	-2,987.82	-8,655.93	9,102.41	9,081.90	20.51	443.799		
1,600.00	1,566.88	2,383.09	2,381.82	8.18	13.53	69.86	-2,991.64	-8,651.36	9,083.15	9,061.98	21.17	429.004		
1,700.00	1,663.08	2,501.29	2,498.10	8.68	14.20	69.94	-3,006.28	-8,636.06	9,064.55	9,042.26	22.29	406.623		
1,800.00	1,759.29	2,575.08	2,570.53	9.19	14.63	69.98	-3,016.13	-8,626.00	9,045.51	9,022.32	23.19	390.066		
1,900.00	1,855.49	2,750.21	2,742.28	9.70	15.67	70.08	-3,040.06	-8,601.60	9,026.31	9,001.64	24.67	365.954		
2,000.00	1,951.70	2,841.86	2,831.72	10.22	16.24	70.12	-3,054.56	-8,587.80	9,006.62	8,980.91	25.70	350.403		
2,100.00	2,047.90	2,890.00	2,878.83	10.73	16.53	70.14	-3,061.54	-8,580.80	8,987.17	8,960.67	26.50	339.192		
2,200.00	2,144.11	2,940.87	2,928.75	11.26	16.83	70.17	-3,068.42	-8,573.84	8,968.25	8,940.96	27.29	328.603		
2,300.00	2,240.31	2,984.00	2,971.18	11.78	17.08	70.20	-3,073.95	-8,568.42	8,950.05	8,922.00	28.05	319.075		
2,400.00	2,336.52	3,058.19	3,044.12	12.31	17.51	70.24	-3,083.99	-8,559.27	8,932.32	8,903.33	28.98	308.209		
2,500.00	2,432.72	3,109.95	3,094.92	12.84	17.80	70.27	-3,091.52	-8,552.86	8,914.86	8,885.07	29.79	299.272		
2,600.00	2,528.93	3,169.00	3,153.18	13.37	18.14	70.32	-3,098.68	-8,546.44	8,898.07	8,867.44	30.63	290.472		
2,700.00	2,625.13	3,193.99	3,177.91	13.91	18.27	70.34	-3,101.32	-8,544.00	8,881.83	8,850.54	31.29	283.864		
2,800.00	2,721.34	3,239.23	3,222.71	14.44	18.50	70.38	-3,105.98	-8,539.84	8,866.24	8,834.19	32.05	276.679		
2,900.00	2,817.54	3,296.49	3,279.47	14.98	18.79	70.43	-3,111.81	-8,534.94	8,851.21	8,818.35	32.86	269.338		
3,000.00	2,913.75	3,365.94	3,348.22	15.52	19.15	70.49	-3,119.66	-8,529.02	8,836.56	8,802.82	33.74	261.878		
3,100.00	3,009.95	3,100.00	3,485.19	16.06	17.79	70.61	-3,134.65	-8,517.56	8,822.11	8,789.19	32.92	267.986		
3,200.00	3,106.16	3,595.03	3,575.11	16.60	20.33	70.68	-3,144.45	-8,509.46	8,807.01	8,771.05	35.95	244.960		
3,300.00	3,202.37	4,080.26	4,052.41	17.14	23.10	71.00	-3,209.44	-8,453.42	8,790.32	8,751.25	39.06	225.019		
3,400.00	3,298.57	4,112.00	4,083.51	17.68	23.30	71.02	-3,214.01	-8,449.01	8,771.54	8,731.74	39.80	220.388		
3,500.00	3,394.78	4,171.64	4,142.10	18.22	23.65	71.06	-3,222.00	-8,441.25	8,753.31	8,712.64	40.67	215.222		
3,600.00	3,490.98	4,226.63	4,196.25	18.76	23.97	71.10	-3,228.89	-8,434.59	8,735.65	8,694.13	41.52	210.397		
3,700.00	3,587.19	4,301.00	4,269.26	19.31	24.40	71.14	-3,239.64	-8,425.46	8,718.37	8,675.90	42.48	205.251		
3,800.00	3,683.39	4,341.67	4,309.14	19.85	24.64	71.16	-3,245.98	-8,420.54	8,701.55	8,658.29	43.26	201.159		
3,900.00	3,779.60	4,396.00	4,362.53	20.39	24.96	71.20	-3,253.97	-8,414.50	8,685.38	8,641.27	44.11	196.893		
4,000.00	3,875.80	4,443.55	4,409.35	20.94	25.23	71.23	-3,260.64	-8,409.56	8,669.74	8,624.82	44.92	193.004		
4,100.00	3,972.01	4,491.00	4,456.11	21.48	25.50	71.26	-3,267.13	-8,404.82	8,654.55	8,608.82	45.73	189.265		
4,200.00	4,068.21	4,544.44	4,508.86	22.03	25.79	71.30	-3,274.12	-8,399.87	8,639.90	8,593.35	46.56	185.582		
4,300.00	4,164.42	4,585.00	4,548.97	22.57	26.01	71.33	-3,279.14	-8,396.49	8,625.93	8,578.61	47.32	182.298		
4,400.00	4,260.62	4,621.62	4,585.24	23.12	26.19	71.36	-3,283.41	-8,393.77	8,612.65	8,564.61	48.05	179.255		
4,500.00	4,356.83	4,680.00	4,643.17	23.67	26.49	71.42	-3,289.62	-8,390.20	8,600.20	8,551.32	48.88	175.942		
4,600.00	4,453.03	4,680.00	4,643.17	24.21	26.49	71.42	-3,289.62	-8,390.20	8,588.35	8,538.92	49.43	173.754		
4,700.00	4,549.24	4,732.15	4,695.01	24.76	26.73	71.47	-3,294.71	-8,387.70	8,577.24	8,527.03	50.21	170.812		
4,800.00	4,645.44	4,902.49	4,864.66	25.31	27.50	71.67	-3,308.24	-8,380.79	8,566.48	8,514.96	51.52	166.282		
4,900.00	4,741.65	4,964.00	4,926.00	25.86	27.76	71.75	-3,312.08	-8,378.33	8,555.22	8,502.89	52.33	163.494		
5,000.00	4,837.85	5,008.60	4,970.50	26.40	27.95	71.81	-3,314.73	-8,376.83	8,544.50	8,491.44	53.06	161.039		
5,100.00	4,934.06	5,059.00	5,020.81	26.95	28.16	71.88	-3,317.49	-8,375.46	8,534.38	8,480.56	53.81	158.593		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,133.17	5,094.93	27.50	28.44	71.99	-3,319.85	-8,374.20	8,524.71	8,470.07	54.63	156.034		
5,300.00	5,126.47	5,200.98	5,162.73	28.05	28.67	72.11	-3,319.92	-8,373.75	8,515.38	8,459.97	55.41	153.679		
5,400.00	5,222.67	5,265.86	5,227.61	28.60	28.89	72.22	-3,319.87	-8,373.61	8,506.47	8,450.31	56.17	151.449		
5,500.00	5,318.88	5,330.30	5,292.05	29.15	29.10	72.34	-3,319.98	-8,373.67	8,498.00	8,441.08	56.92	149.295		
5,600.00	5,415.08	5,414.64	5,376.39	29.70	29.38	72.48	-3,320.36	-8,373.93	8,489.88	8,432.14	57.75	147.019		
5,700.00	5,511.29	5,503.88	5,465.62	30.25	29.67	72.64	-3,320.85	-8,374.27	8,481.93	8,423.33	58.59	144.763		
5,800.00	5,607.49	5,593.16	5,554.90	30.79	29.97	72.79	-3,321.42	-8,374.67	8,474.13	8,414.69	59.44	142.573		
5,900.00	5,703.70	5,694.20	5,655.94	31.34	30.30	72.97	-3,322.07	-8,375.16	8,466.44	8,406.12	60.32	140.360		
6,000.00	5,799.90	5,800.70	5,762.44	31.89	30.64	73.15	-3,322.47	-8,375.62	8,458.72	8,397.50	61.22	138.171		
6,100.00	5,896.11	5,907.03	5,868.76	32.44	30.99	73.34	-3,322.56	-8,376.01	8,450.97	8,388.85	62.12	136.045		
6,200.00	5,992.32	6,013.02	5,974.76	32.99	31.36	73.53	-3,322.78	-8,376.26	8,443.18	8,380.15	63.04	133.941		
6,300.00	6,088.52	6,119.29	6,081.02	33.54	31.72	73.71	-3,323.48	-8,376.26	8,435.37	8,371.41	63.96	131.894		
6,400.00	6,184.73	6,240.51	6,202.24	34.09	32.16	73.92	-3,324.84	-8,375.96	8,427.48	8,362.53	64.95	129.763		
6,500.00	6,280.93	6,387.47	6,349.18	34.64	32.72	74.17	-3,326.65	-8,374.81	8,419.18	8,353.13	66.05	127.458		
6,600.00	6,377.14	6,503.81	6,465.50	35.19	33.17	74.37	-3,328.15	-8,373.29	8,410.46	8,343.40	67.05	125.432		
6,700.00	6,473.34	6,581.10	6,542.78	35.74	33.47	74.50	-3,329.48	-8,372.28	8,401.90	8,333.99	67.91	123.728		
6,800.00	6,569.55	6,658.60	6,620.24	36.29	33.78	74.63	-3,331.17	-8,371.38	8,393.63	8,324.87	68.76	122.069		
6,900.00	6,665.75	6,736.28	6,697.89	36.84	34.09	70.08	-3,333.23	-8,370.58	8,385.48	8,315.86	69.62	120.451		
7,000.00	6,761.11	6,828.86	6,790.44	37.39	34.45	43.78	-3,335.86	-8,369.74	8,367.80	8,297.28	70.52	118.662		
7,100.00	6,853.41	6,922.64	6,884.19	37.89	34.83	27.69	-3,338.10	-8,368.96	8,335.23	8,263.86	71.38	116.781		
7,200.00	6,940.36	7,010.71	6,972.24	38.34	35.18	17.96	-3,339.80	-8,368.30	8,288.57	8,216.41	72.15	114.876		
7,300.00	7,019.83	7,118.46	7,079.96	38.74	35.60	11.28	-3,341.54	-8,367.40	8,228.84	8,155.89	72.94	112.810		
7,400.00	7,089.85	7,221.72	7,183.21	39.10	36.02	5.72	-3,343.17	-8,366.10	8,157.31	8,083.66	73.65	110.762		
7,500.00	7,148.71	7,307.28	7,268.74	39.42	36.36	-0.20	-3,344.52	-8,364.71	8,075.86	8,001.66	74.20	108.833		
7,600.00	7,194.95	7,373.15	7,334.60	39.71	36.62	-8.53	-3,345.55	-8,363.43	7,986.61	7,912.01	74.61	107.049		
7,700.00	7,227.43	7,417.95	7,379.38	40.01	36.80	-24.37	-3,346.25	-8,362.46	7,891.88	7,817.03	74.85	105.432		
7,800.00	7,245.37	7,440.90	7,402.32	40.37	36.89	-61.06	-3,346.61	-8,361.93	7,794.09	7,719.14	74.95	103.992		
7,900.00	7,248.84	7,442.56	7,403.98	40.87	36.90	-98.04	-3,346.63	-8,361.89	7,695.66	7,620.75	74.91	102.726		
8,000.00	7,248.24	7,438.34	7,399.77	41.62	36.88	-97.87	-3,346.57	-8,361.99	7,597.43	7,522.57	74.85	101.496		
8,100.00	7,247.65	7,434.17	7,395.60	42.66	36.86	-97.71	-3,346.50	-8,362.09	7,499.24	7,424.44	74.80	100.254		
8,200.00	7,247.05	7,430.05	7,391.48	43.96	36.85	-97.54	-3,346.44	-8,362.18	7,401.10	7,326.34	74.76	98.998		
8,300.00	7,246.46	7,425.98	7,387.40	45.46	36.83	-97.38	-3,346.37	-8,362.28	7,303.01	7,228.28	74.73	97.729		
8,400.00	7,245.86	7,421.95	7,383.37	47.13	36.82	-97.22	-3,346.31	-8,362.37	7,204.97	7,130.27	74.71	96.445		
8,500.00	7,245.27	7,417.96	7,379.39	48.93	36.80	-97.06	-3,346.25	-8,362.46	7,106.98	7,032.29	74.69	95.147		
8,600.00	7,244.67	7,414.02	7,375.46	50.84	36.78	-96.91	-3,346.19	-8,362.55	7,009.05	6,934.36	74.70	93.833		
8,700.00	7,244.07	7,410.13	7,371.56	52.85	36.77	-96.75	-3,346.13	-8,362.63	6,911.18	6,836.47	74.71	92.504		
8,800.00	7,243.48	7,406.28	7,367.71	54.94	36.75	-96.60	-3,346.07	-8,362.72	6,813.36	6,738.62	74.74	91.158		
8,900.00	7,242.88	7,402.47	7,363.90	57.10	36.74	-96.45	-3,346.01	-8,362.80	6,715.61	6,640.83	74.79	89.796		
9,000.00	7,242.29	7,398.70	7,360.14	59.32	36.72	-96.30	-3,345.95	-8,362.89	6,617.93	6,543.08	74.85	88.417		
9,100.00	7,241.69	7,394.97	7,356.41	61.60	36.71	-96.15	-3,345.89	-8,362.97	6,520.31	6,445.38	74.93	87.020		
9,200.00	7,241.09	7,391.29	7,352.73	63.92	36.69	-96.00	-3,345.83	-8,363.05	6,422.77	6,347.74	75.03	85.604		
9,300.00	7,240.50	7,387.64	7,349.08	66.29	36.68	-95.86	-3,345.78	-8,363.12	6,325.29	6,250.15	75.15	84.171		
9,400.00	7,239.90	7,384.03	7,345.47	68.70	36.66	-95.71	-3,345.72	-8,363.20	6,227.90	6,152.61	75.29	82.718		
9,500.00	7,239.31	7,380.46	7,341.91	71.14	36.65	-95.57	-3,345.66	-8,363.28	6,130.59	6,055.14	75.46	81.247		
9,600.00	7,238.71	7,376.93	7,338.38	73.61	36.64	-95.43	-3,345.61	-8,363.35	6,033.37	5,957.72	75.65	79.756		
9,700.00	7,238.11	7,373.44	7,334.88	76.11	36.62	-95.29	-3,345.55	-8,363.42	5,936.24	5,860.37	75.87	78.246		
9,800.00	7,237.52	7,369.98	7,331.43	78.64	36.61	-95.15	-3,345.50	-8,363.49	5,839.20	5,763.09	76.12	76.715		
9,900.00	7,236.92	7,366.56	7,328.01	81.19	36.59	-95.01	-3,345.45	-8,363.56	5,742.27	5,665.87	76.39	75.166		
10,000.00	7,236.33	7,363.18	7,324.62	83.75	36.58	-94.88	-3,345.39	-8,363.63	5,645.43	5,568.73	76.71	73.596		
10,100.00	7,235.73	7,359.83	7,321.28	86.34	36.57	-94.74	-3,345.34	-8,363.70	5,548.71	5,471.66	77.06	72.007		
10,200.00	7,235.14	7,356.51	7,317.96	88.94	36.55	-94.61	-3,345.29	-8,363.77	5,452.11	5,374.67	77.45	70.400		
10,300.00	7,234.54	7,353.23	7,314.68	91.56	36.54	-94.48	-3,345.24	-8,363.83	5,355.63	5,277.76	77.87	68.773		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,349.98	7,311.43	94.19	36.53	-94.35	-3,345.19	-8,363.90	5,259.28	5,180.93	78.35	67.129		
10,500.00	7,233.35	7,346.76	7,308.22	96.84	36.52	-94.22	-3,345.14	-8,363.96	5,163.06	5,084.20	78.87	65.467		
10,600.00	7,232.75	7,343.58	7,305.04	99.50	36.50	-94.09	-3,345.09	-8,364.02	5,067.00	4,987.56	79.43	63.788		
10,700.00	7,232.16	7,340.43	7,301.89	102.17	36.49	-93.96	-3,345.04	-8,364.09	4,971.08	4,891.02	80.06	62.095		
10,800.00	7,231.56	7,337.31	7,298.77	104.85	36.48	-93.84	-3,344.99	-8,364.15	4,875.33	4,794.59	80.73	60.387		
10,900.00	7,230.96	7,334.22	7,295.68	107.53	36.46	-93.71	-3,344.94	-8,364.21	4,779.75	4,698.27	81.47	58.667		
11,000.00	7,230.37	7,331.16	7,292.62	110.23	36.45	-93.59	-3,344.89	-8,364.26	4,684.35	4,602.07	82.28	56.935		
11,100.00	7,229.77	7,328.13	7,289.59	112.93	36.44	-93.47	-3,344.85	-8,364.32	4,589.15	4,506.00	83.15	55.194		
11,200.00	7,229.18	7,325.14	7,286.60	115.65	36.43	-93.35	-3,344.80	-8,364.38	4,494.15	4,410.06	84.09	53.446		
11,300.00	7,228.58	7,322.17	7,283.63	118.37	36.42	-93.23	-3,344.75	-8,364.43	4,399.37	4,314.27	85.11	51.693		
11,400.00	7,227.99	7,319.23	7,280.69	121.09	36.41	-93.11	-3,344.71	-8,364.49	4,304.83	4,218.63	86.21	49.937		
11,500.00	7,227.39	7,316.31	7,277.78	123.82	36.39	-92.99	-3,344.66	-8,364.54	4,210.54	4,123.15	87.39	48.180		
11,600.00	7,226.79	7,313.43	7,274.89	126.56	36.38	-92.88	-3,344.62	-8,364.59	4,116.52	4,027.85	88.67	46.425		
11,700.00	7,226.20	7,310.57	7,272.04	129.30	36.37	-92.76	-3,344.57	-8,364.65	4,022.78	3,932.73	90.05	44.675		
11,800.00	7,225.60	7,307.74	7,269.21	132.05	36.36	-92.65	-3,344.53	-8,364.70	3,929.35	3,837.83	91.52	42.932		
11,900.00	7,225.01	7,304.94	7,266.41	134.80	36.35	-92.53	-3,344.48	-8,364.75	3,836.25	3,743.14	93.11	41.200		
12,000.00	7,224.41	7,302.16	7,263.63	137.56	36.34	-92.42	-3,344.44	-8,364.80	3,743.50	3,648.69	94.82	39.481		
12,100.00	7,223.81	7,299.41	7,260.88	140.32	36.33	-92.31	-3,344.40	-8,364.85	3,651.14	3,554.49	96.65	37.778		
12,200.00	7,223.22	7,296.69	7,258.16	143.08	36.32	-92.20	-3,344.35	-8,364.90	3,559.18	3,460.58	98.61	36.095		
12,300.00	7,222.62	7,293.99	7,255.46	145.85	36.30	-92.09	-3,344.31	-8,364.94	3,467.67	3,366.97	100.71	34.433		
12,400.00	7,222.03	7,291.31	7,252.78	148.62	36.29	-91.98	-3,344.27	-8,364.99	3,376.64	3,273.68	102.96	32.797		
12,500.00	7,221.43	7,288.66	7,250.13	151.40	36.28	-91.88	-3,344.23	-8,365.04	3,286.13	3,180.77	105.36	31.188		
12,600.00	7,220.83	7,286.04	7,247.51	154.18	36.27	-91.77	-3,344.19	-8,365.08	3,196.18	3,088.24	107.94	29.611		
12,700.00	7,220.24	7,283.44	7,244.91	156.96	36.26	-91.67	-3,344.14	-8,365.13	3,106.85	2,996.15	110.70	28.067		
12,800.00	7,219.64	7,280.86	7,242.33	159.74	36.25	-91.56	-3,344.10	-8,365.17	3,018.18	2,904.54	113.64	26.559		
12,900.00	7,219.05	7,278.30	7,239.78	162.53	36.24	-91.46	-3,344.06	-8,365.21	2,930.24	2,813.45	116.79	25.090		
13,000.00	7,218.45	7,275.77	7,237.25	165.32	36.23	-91.36	-3,344.02	-8,365.26	2,843.09	2,722.94	120.15	23.662		
13,100.00	7,217.86	7,273.26	7,234.74	168.11	36.22	-91.25	-3,343.98	-8,365.30	2,756.82	2,633.07	123.75	22.278		
13,200.00	7,217.26	7,270.78	7,232.25	170.90	36.21	-91.15	-3,343.95	-8,365.34	2,671.50	2,543.92	127.58	20.939		
13,300.00	7,216.66	7,268.31	7,229.79	173.70	36.20	-91.05	-3,343.91	-8,365.38	2,587.23	2,455.55	131.68	19.648		
13,400.00	7,216.07	7,265.87	7,227.34	176.49	36.19	-90.95	-3,343.87	-8,365.42	2,504.12	2,368.07	136.05	18.406		
13,500.00	7,215.47	7,263.45	7,224.92	179.29	36.18	-90.86	-3,343.83	-8,365.46	2,422.28	2,281.57	140.70	17.216		
13,600.00	7,214.88	7,261.05	7,222.52	182.09	36.17	-90.76	-3,343.79	-8,365.50	2,341.85	2,196.19	145.66	16.078		
13,700.00	7,214.28	7,258.67	7,220.15	184.90	36.16	-90.66	-3,343.75	-8,365.54	2,262.97	2,112.04	150.93	14.993		
13,800.00	7,213.68	7,256.31	7,217.79	187.70	36.15	-90.57	-3,343.72	-8,365.58	2,185.83	2,029.30	156.53	13.964		
13,900.00	7,213.09	7,253.97	7,215.45	190.51	36.14	-90.47	-3,343.68	-8,365.61	2,110.60	1,948.14	162.46	12.991		
14,000.00	7,212.49	7,251.65	7,213.13	193.32	36.14	-90.38	-3,343.64	-8,365.65	2,037.50	1,868.77	168.73	12.075		
14,100.00	7,211.90	7,249.35	7,210.83	196.13	36.13	-90.29	-3,343.61	-8,365.69	1,966.77	1,791.43	175.34	11.217		
14,200.00	7,211.30	7,247.07	7,208.56	198.94	36.12	-90.19	-3,343.57	-8,365.72	1,898.66	1,716.39	182.27	10.417		
14,300.00	7,210.71	7,244.81	7,206.30	201.75	36.11	-90.10	-3,343.54	-8,365.76	1,833.49	1,643.98	189.51	9.675		
14,400.00	7,210.11	7,242.57	7,204.06	204.56	36.10	-90.01	-3,343.50	-8,365.79	1,771.55	1,574.54	197.02	8.992		
14,500.00	7,209.51	7,240.35	7,201.84	207.38	36.09	-89.92	-3,343.47	-8,365.83	1,713.22	1,508.48	204.74	8.368		
14,600.00	7,208.92	7,238.15	7,199.63	210.19	36.08	-89.83	-3,343.43	-8,365.86	1,658.87	1,446.25	212.62	7.802		
14,700.00	7,208.32	7,235.97	7,197.45	213.01	36.07	-89.74	-3,343.40	-8,365.89	1,608.90	1,388.34	220.55	7.295		
14,800.00	7,207.73	7,233.80	7,195.29	215.83	36.06	-89.66	-3,343.36	-8,365.93	1,563.73	1,335.30	228.43	6.846		
14,900.00	7,207.13	7,231.65	7,193.14	218.65	36.06	-89.57	-3,343.33	-8,365.96	1,523.79	1,287.68	236.11	6.454		
15,000.00	7,206.53	7,229.52	7,191.01	221.47	36.05	-89.48	-3,343.30	-8,365.99	1,489.51	1,246.07	243.43	6.119		
15,100.00	7,205.94	7,227.41	7,188.90	224.29	36.04	-89.40	-3,343.26	-8,366.02	1,461.27	1,211.03	250.24	5.840		
15,200.00	7,205.34	7,225.31	7,186.80	227.11	36.03	-89.31	-3,343.23	-8,366.05	1,439.43	1,183.08	256.35	5.615		
15,258.04	7,205.00	7,224.10	7,185.59	228.75	36.03	-89.26	-3,343.21	-8,366.07	1,429.81	1,170.30	259.51	5.510 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	64.00	3.28	3.28	-132.12	-3,046.45	-3,369.26	4,542.78				
100.00	100.00	36.00	100.00	3.28	3.34	-132.12	-3,046.45	-3,369.26	4,542.33	4,535.70	6.62	685.699	
200.00	200.00	136.00	200.00	3.34	4.45	-132.12	-3,046.45	-3,369.26	4,542.33	4,534.54	7.78	583.577	
300.00	299.98	235.98	299.98	3.44	7.27	43.16	-3,046.45	-3,369.26	4,541.05	4,530.34	10.71	423.853	
400.00	399.84	335.84	399.84	3.59	10.50	43.26	-3,046.45	-3,369.26	4,537.24	4,523.14	14.09	321.921	
500.00	499.45	435.45	499.45	3.79	13.85	43.42	-3,046.45	-3,369.26	4,530.88	4,513.25	17.64	256.859	
600.00	598.70	534.70	598.70	4.03	17.24	43.65	-3,046.45	-3,369.26	4,522.02	4,500.75	21.27	212.624	
700.00	697.47	633.47	697.47	4.31	20.63	43.94	-3,046.45	-3,369.26	4,510.66	4,485.72	24.94	180.832	
800.00	795.62	731.62	795.62	4.64	24.02	44.30	-3,046.45	-3,369.26	4,496.84	4,468.19	28.65	156.964	
900.00	893.06	829.06	893.06	5.00	27.39	44.73	-3,046.45	-3,369.26	4,480.60	4,448.23	32.37	138.421	
1,000.00	989.65	925.65	989.65	5.40	30.74	45.21	-3,046.45	-3,369.26	4,461.98	4,425.88	36.10	123.604	
1,100.00	1,085.85	1,021.85	1,085.85	5.82	34.09	45.45	-3,046.45	-3,369.26	4,442.43	4,402.59	39.83	111.524	
1,200.00	1,182.06	1,118.06	1,182.06	6.27	37.43	45.70	-3,046.45	-3,369.26	4,422.96	4,379.37	43.59	101.466	
1,300.00	1,278.26	1,214.26	1,278.26	6.73	40.78	45.95	-3,046.45	-3,369.26	4,403.57	4,356.20	47.37	92.970	
1,400.00	1,374.47	1,310.47	1,374.47	7.20	44.13	46.20	-3,046.45	-3,369.26	4,384.26	4,333.11	51.15	85.706	
1,500.00	1,470.67	1,406.67	1,470.67	7.69	47.47	46.45	-3,046.45	-3,369.26	4,365.04	4,310.08	54.96	79.428	
1,600.00	1,566.88	1,502.88	1,566.88	8.18	50.83	46.71	-3,046.45	-3,369.26	4,345.91	4,287.14	58.77	73.951	
1,700.00	1,663.08	1,600.92	1,663.08	8.68	54.24	46.97	-3,046.45	-3,369.26	4,326.86	4,264.21	62.65	69.062	
1,800.00	1,759.29	1,704.71	1,759.29	9.19	57.86	47.23	-3,046.45	-3,369.26	4,307.90	4,241.16	66.74	64.544	
1,900.00	1,855.49	1,808.51	1,855.49	9.70	61.48	47.49	-3,046.45	-3,369.26	4,289.03	4,218.19	70.84	60.543	
2,000.00	1,951.70	1,887.70	1,951.70	10.22	64.24	47.75	-3,046.45	-3,369.26	4,270.26	4,196.17	74.09	57.637	
2,100.00	2,047.90	1,983.90	2,047.90	10.73	67.59	48.02	-3,046.45	-3,369.26	4,251.57	4,173.64	77.93	54.554	
2,200.00	2,144.11	2,080.11	2,144.11	11.26	70.95	48.29	-3,046.45	-3,369.26	4,232.98	4,151.20	81.78	51.760	
2,300.00	2,240.31	2,176.31	2,240.31	11.78	74.30	48.56	-3,046.45	-3,369.26	4,214.48	4,128.85	85.63	49.215	
2,400.00	2,336.52	2,272.52	2,336.52	12.31	77.66	48.83	-3,046.45	-3,369.26	4,196.08	4,106.59	89.49	46.889	
2,500.00	2,432.72	2,368.72	2,432.72	12.84	81.01	49.11	-3,046.45	-3,369.26	4,177.78	4,084.43	93.35	44.755	
2,600.00	2,528.93	2,464.93	2,528.93	13.37	84.37	49.39	-3,046.45	-3,369.26	4,159.57	4,062.36	97.21	42.790	
2,700.00	2,625.13	2,561.13	2,625.13	13.91	87.73	49.67	-3,046.45	-3,369.26	4,141.47	4,040.39	101.07	40.975	
2,800.00	2,721.34	2,657.34	2,721.34	14.44	91.08	49.95	-3,046.45	-3,369.26	4,123.46	4,018.52	104.94	39.293	
2,900.00	2,817.54	2,753.54	2,817.54	14.98	94.44	50.24	-3,046.45	-3,369.26	4,105.56	3,996.75	108.81	37.732	
3,000.00	2,913.75	2,849.75	2,913.75	15.52	97.79	50.52	-3,046.45	-3,369.26	4,087.76	3,975.08	112.68	36.277	
3,100.00	3,009.95	2,945.95	3,009.95	16.06	101.15	50.81	-3,046.45	-3,369.26	4,070.07	3,953.52	116.55	34.920	
3,200.00	3,106.16	3,042.16	3,106.16	16.60	104.51	51.11	-3,046.45	-3,369.26	4,052.48	3,932.05	120.43	33.650	
3,300.00	3,202.37	3,138.37	3,202.37	17.14	107.86	51.40	-3,046.45	-3,369.26	4,035.00	3,910.70	124.31	32.460	
3,400.00	3,298.57	3,234.57	3,298.57	17.68	111.22	51.70	-3,046.45	-3,369.26	4,017.63	3,889.45	128.18	31.343	
3,500.00	3,394.78	3,330.78	3,394.78	18.22	114.58	52.00	-3,046.45	-3,369.26	4,000.37	3,868.31	132.06	30.291	
3,600.00	3,490.98	3,426.98	3,490.98	18.76	117.94	52.30	-3,046.45	-3,369.26	3,983.23	3,847.28	135.95	29.300	
3,700.00	3,587.19	3,523.19	3,587.19	19.31	121.29	52.60	-3,046.45	-3,369.26	3,966.19	3,826.37	139.83	28.365	
3,800.00	3,683.39	3,619.39	3,683.39	19.85	124.65	52.91	-3,046.45	-3,369.26	3,949.28	3,805.56	143.71	27.480	
3,900.00	3,779.60	3,715.60	3,779.60	20.39	128.01	53.22	-3,046.45	-3,369.26	3,932.47	3,784.88	147.60	26.643	
4,000.00	3,875.80	3,811.80	3,875.80	20.94	131.37	53.53	-3,046.45	-3,369.26	3,915.79	3,764.30	151.49	25.849	
4,100.00	3,972.01	3,908.01	3,972.01	21.48	134.72	53.85	-3,046.45	-3,369.26	3,899.23	3,743.85	155.38	25.096	
4,200.00	4,068.21	4,004.21	4,068.21	22.03	138.08	54.16	-3,046.45	-3,369.26	3,882.78	3,723.52	159.27	24.379	
4,300.00	4,164.42	4,100.42	4,164.42	22.57	141.44	54.48	-3,046.45	-3,369.26	3,866.46	3,703.31	163.16	23.698	
4,400.00	4,260.62	4,203.38	4,260.62	23.12	145.03	54.80	-3,046.45	-3,369.26	3,850.27	3,682.98	167.28	23.016	
4,500.00	4,356.83	4,307.17	4,356.83	23.67	148.65	55.13	-3,046.45	-3,369.26	3,834.20	3,662.76	171.44	22.364	
4,600.00	4,453.03	4,389.03	4,453.03	24.21	151.51	55.46	-3,046.45	-3,369.26	3,818.26	3,643.42	174.84	21.839	
4,700.00	4,549.24	4,485.24	4,549.24	24.76	154.87	55.79	-3,046.45	-3,369.26	3,802.44	3,623.71	178.73	21.274	
4,800.00	4,645.44	4,581.44	4,645.44	25.31	158.23	56.12	-3,046.45	-3,369.26	3,786.76	3,604.13	182.63	20.735	
4,900.00	4,741.65	4,677.65	4,741.65	25.86	161.58	56.45	-3,046.45	-3,369.26	3,771.21	3,584.68	186.53	20.218	
5,000.00	4,837.85	4,773.85	4,837.85	26.40	164.94	56.79	-3,046.45	-3,369.26	3,755.79	3,565.36	190.43	19.723	
5,100.00	4,934.06	4,870.06	4,934.06	26.95	168.30	57.13	-3,046.45	-3,369.26	3,740.51	3,546.18	194.33	19.248	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,966.26	5,030.26	27.50	171.66	57.48	-3,046.45	-3,369.26	3,725.36	3,527.13	198.23	18.793		
5,300.00	5,126.47	5,062.47	5,126.47	28.05	175.02	57.82	-3,046.45	-3,369.26	3,710.36	3,508.23	202.13	18.356		
5,400.00	5,222.67	5,158.67	5,222.67	28.60	178.37	58.17	-3,046.45	-3,369.26	3,695.49	3,489.46	206.04	17.936		
5,500.00	5,318.88	5,254.88	5,318.88	29.15	181.73	58.52	-3,046.45	-3,369.26	3,680.77	3,470.83	209.94	17.532		
5,600.00	5,415.08	5,351.08	5,415.08	29.70	185.09	58.87	-3,046.45	-3,369.26	3,666.19	3,452.34	213.85	17.144		
5,700.00	5,511.29	5,447.29	5,511.29	30.25	188.45	59.23	-3,046.45	-3,369.26	3,651.76	3,434.00	217.75	16.770		
5,800.00	5,607.49	5,543.49	5,607.49	30.79	191.81	59.59	-3,046.45	-3,369.26	3,637.47	3,415.81	221.66	16.410		
5,900.00	5,703.70	5,639.70	5,703.70	31.34	195.16	59.95	-3,046.45	-3,369.26	3,623.34	3,397.77	225.57	16.063		
6,000.00	5,799.90	5,735.90	5,799.90	31.89	198.52	60.32	-3,046.45	-3,369.26	3,609.35	3,379.87	229.48	15.728		
6,100.00	5,896.11	5,832.11	5,896.11	32.44	201.88	60.68	-3,046.45	-3,369.26	3,595.52	3,362.13	233.39	15.406		
6,200.00	5,992.32	5,928.32	5,992.32	32.99	205.24	61.05	-3,046.45	-3,369.26	3,581.84	3,344.54	237.30	15.094		
6,300.00	6,088.52	6,024.52	6,088.52	33.54	208.60	61.42	-3,046.45	-3,369.26	3,568.32	3,327.10	241.21	14.793		
6,400.00	6,184.73	6,120.73	6,184.73	34.09	211.95	61.80	-3,046.45	-3,369.26	3,554.95	3,309.82	245.13	14.502		
6,500.00	6,280.93	6,216.93	6,280.93	34.64	215.31	62.18	-3,046.45	-3,369.26	3,541.75	3,292.70	249.04	14.221		
6,600.00	6,377.14	6,313.14	6,377.14	35.19	218.67	62.56	-3,046.45	-3,369.26	3,528.70	3,275.75	252.96	13.950		
6,700.00	6,473.34	6,409.34	6,473.34	35.74	222.03	62.94	-3,046.45	-3,369.26	3,515.82	3,258.95	256.87	13.687		
6,800.00	6,569.55	6,505.55	6,569.55	36.29	225.39	63.32	-3,046.45	-3,369.26	3,503.11	3,242.32	260.79	13.433		
6,900.00	6,665.75	6,601.75	6,665.75	36.84	228.75	59.00	-3,046.45	-3,369.26	3,490.40	3,225.70	264.71	13.186		
7,000.00	6,761.11	6,702.89	6,761.11	37.39	232.28	32.45	-3,046.45	-3,369.26	3,468.69	3,199.91	268.77	12.906		
7,100.00	6,853.41	6,789.41	6,853.41	37.89	235.30	15.74	-3,046.45	-3,369.26	3,433.11	3,160.84	272.27	12.609		
7,200.00	6,940.36	6,876.36	6,940.36	38.34	238.33	4.94	-3,046.45	-3,369.26	3,384.48	3,108.77	275.72	12.275		
7,300.00	7,019.83	6,955.83	7,019.83	38.74	241.11	-3.44	-3,046.45	-3,369.26	3,323.95	3,045.12	278.83	11.921		
7,400.00	7,089.85	7,025.85	7,089.85	39.10	243.55	-11.56	-3,046.45	-3,369.26	3,253.00	2,971.46	281.54	11.554		
7,500.00	7,148.71	7,084.71	7,148.71	39.42	245.60	-21.16	-3,046.45	-3,369.26	3,173.42	2,889.65	283.77	11.183		
7,600.00	7,194.95	7,130.95	7,194.95	39.71	247.22	-34.21	-3,046.45	-3,369.26	3,087.26	2,801.77	285.49	10.814		
7,700.00	7,227.43	7,163.43	7,227.43	40.01	248.35	-52.56	-3,046.45	-3,369.26	2,996.78	2,710.13	286.65	10.454		
7,800.00	7,245.37	7,181.37	7,245.37	40.37	248.98	-75.09	-3,046.45	-3,369.26	2,904.38	2,617.12	287.26	10.111		
7,900.00	7,248.84	7,184.84	7,248.84	40.87	249.10	-90.76	-3,046.45	-3,369.26	2,812.46	2,525.12	287.33	9.788		
8,000.00	7,248.24	7,184.24	7,248.24	41.62	249.08	-90.73	-3,046.45	-3,369.26	2,721.46	2,434.15	287.31	9.472		
8,100.00	7,247.65	7,183.65	7,247.65	42.66	249.06	-90.70	-3,046.45	-3,369.26	2,631.11	2,343.77	287.34	9.157		
8,200.00	7,247.05	7,183.05	7,247.05	43.96	249.04	-90.68	-3,046.45	-3,369.26	2,541.48	2,254.04	287.44	8.842		
8,300.00	7,246.46	7,182.46	7,246.46	45.46	249.02	-90.65	-3,046.45	-3,369.26	2,452.66	2,165.02	287.63	8.527		
8,400.00	7,245.86	7,181.86	7,245.86	47.13	249.00	-90.62	-3,046.45	-3,369.26	2,364.73	2,076.80	287.93	8.213		
8,500.00	7,245.27	7,181.27	7,245.27	48.93	248.97	-90.59	-3,046.45	-3,369.26	2,277.79	1,989.44	288.35	7.899		
8,600.00	7,244.67	7,180.67	7,244.67	50.84	248.95	-90.56	-3,046.45	-3,369.26	2,191.97	1,903.05	288.92	7.587		
8,700.00	7,244.07	7,180.07	7,244.07	52.85	248.93	-90.53	-3,046.45	-3,369.26	2,107.40	1,817.75	289.65	7.276		
8,800.00	7,243.48	7,179.48	7,243.48	54.94	248.91	-90.50	-3,046.45	-3,369.26	2,024.23	1,733.65	290.58	6.966		
8,900.00	7,242.88	7,178.88	7,242.88	57.10	248.89	-90.47	-3,046.45	-3,369.26	1,942.66	1,650.92	291.73	6.659		
9,000.00	7,242.29	7,178.29	7,242.29	59.32	248.87	-90.44	-3,046.45	-3,369.26	1,862.88	1,569.74	293.14	6.355		
9,100.00	7,241.69	7,177.69	7,241.69	61.60	248.85	-90.41	-3,046.45	-3,369.26	1,785.14	1,490.30	294.83	6.055		
9,200.00	7,241.09	7,177.09	7,241.09	63.92	248.83	-90.38	-3,046.45	-3,369.26	1,709.71	1,412.88	296.83	5.760		
9,300.00	7,240.50	7,176.50	7,240.50	66.29	248.81	-90.35	-3,046.45	-3,369.26	1,636.92	1,337.76	299.16	5.472		
9,400.00	7,239.90	7,175.90	7,239.90	68.70	248.79	-90.32	-3,046.45	-3,369.26	1,567.13	1,265.28	301.84	5.192		
9,500.00	7,239.31	7,175.31	7,239.31	71.14	248.77	-90.29	-3,046.45	-3,369.26	1,500.76	1,195.87	304.89	4.922		
9,600.00	7,238.71	7,174.71	7,238.71	73.61	248.75	-90.26	-3,046.45	-3,369.26	1,438.29	1,129.98	308.30	4.665		
9,700.00	7,238.11	7,174.11	7,238.11	76.11	248.72	-90.23	-3,046.45	-3,369.26	1,380.24	1,068.18	312.07	4.423		
9,800.00	7,237.52	7,173.52	7,237.52	78.64	248.70	-90.20	-3,046.45	-3,369.26	1,327.20	1,011.06	316.14	4.198		
9,900.00	7,236.92	7,172.92	7,236.92	81.19	248.68	-90.17	-3,046.45	-3,369.26	1,279.78	959.32	320.46	3.994		
10,000.00	7,236.33	7,172.33	7,236.33	83.75	248.66	-90.14	-3,046.45	-3,369.26	1,238.64	913.69	324.95	3.812		
10,100.00	7,235.73	7,171.73	7,235.73	86.34	248.64	-90.11	-3,046.45	-3,369.26	1,204.42	874.93	329.49	3.655		
10,200.00	7,235.14	7,171.14	7,235.14	88.94	248.62	-90.08	-3,046.45	-3,369.26	1,177.71	843.78	333.94	3.527		
10,300.00	7,234.54	7,170.54	7,234.54	91.56	248.60	-90.05	-3,046.45	-3,369.26	1,159.05	820.90	338.15	3.428		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 Depth (ft)	Vertical Depth (ft)	Measured Depth Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	7,233.94	7,169.94	7,233.94	94.19	248.58	-90.02	-3,046.45	-3,369.26	1,148.82	806.84	341.97	3.359		
10,468.07	7,233.54	7,169.54	7,233.54	96.00	248.57	-90.00	-3,046.45	-3,369.26	1,146.80	802.51	344.29	3.331	CC	
10,500.00	7,233.35	7,169.35	7,233.35	96.84	248.56	-89.99	-3,046.45	-3,369.26	1,147.24	801.96	345.28	3.323	ES	
10,600.00	7,232.75	7,168.75	7,232.75	99.50	248.54	-89.96	-3,046.45	-3,369.26	1,154.36	806.38	347.98	3.317	SF	
10,700.00	7,232.16	7,168.16	7,232.16	102.17	248.52	-89.93	-3,046.45	-3,369.26	1,170.02	819.99	350.02	3.343		
10,800.00	7,231.56	7,167.56	7,231.56	104.85	248.50	-89.90	-3,046.45	-3,369.26	1,193.87	842.46	351.41	3.397		
10,900.00	7,230.96	7,166.96	7,230.96	107.53	248.48	-89.87	-3,046.45	-3,369.26	1,225.44	873.27	352.17	3.480		
11,000.00	7,230.37	7,166.37	7,230.37	110.23	248.45	-89.84	-3,046.45	-3,369.26	1,264.15	911.76	352.40	3.587		
11,100.00	7,229.77	7,165.77	7,229.77	112.93	248.43	-89.81	-3,046.45	-3,369.26	1,309.38	957.22	352.16	3.718		
11,200.00	7,229.18	7,165.18	7,229.18	115.65	248.41	-89.78	-3,046.45	-3,369.26	1,360.46	1,008.91	351.55	3.870		
11,300.00	7,228.58	7,164.58	7,228.58	118.37	248.39	-89.75	-3,046.45	-3,369.26	1,416.77	1,066.10	350.67	4.040		
11,400.00	7,227.99	7,163.99	7,227.99	121.09	248.37	-89.72	-3,046.45	-3,369.26	1,477.70	1,128.12	349.58	4.227		
11,500.00	7,227.39	7,163.39	7,227.39	123.82	248.35	-89.69	-3,046.45	-3,369.26	1,542.72	1,194.36	348.36	4.429		
11,600.00	7,226.79	7,162.79	7,226.79	126.56	248.33	-89.66	-3,046.45	-3,369.26	1,611.32	1,264.27	347.05	4.643		
11,700.00	7,226.20	7,162.20	7,226.20	129.30	248.31	-89.63	-3,046.45	-3,369.26	1,683.07	1,337.37	345.71	4.869		
11,800.00	7,225.60	7,161.60	7,225.60	132.05	248.29	-89.60	-3,046.45	-3,369.26	1,757.59	1,413.24	344.34	5.104		
11,900.00	7,225.01	7,161.01	7,225.01	134.80	248.27	-89.57	-3,046.45	-3,369.26	1,834.53	1,491.53	342.99	5.349		
12,000.00	7,224.41	7,160.41	7,224.41	137.56	248.25	-89.54	-3,046.45	-3,369.26	1,913.60	1,571.93	341.67	5.601		
12,100.00	7,223.81	7,159.81	7,223.81	140.32	248.23	-89.51	-3,046.45	-3,369.26	1,994.55	1,654.17	340.38	5.860		
12,200.00	7,223.22	7,159.22	7,223.22	143.08	248.20	-89.48	-3,046.45	-3,369.26	2,077.16	1,738.02	339.14	6.125		
12,300.00	7,222.62	7,158.62	7,222.62	145.85	248.18	-89.45	-3,046.45	-3,369.26	2,161.25	1,823.29	337.95	6.395		
12,400.00	7,222.03	7,158.03	7,222.03	148.62	248.16	-89.42	-3,046.45	-3,369.26	2,246.63	1,909.82	336.82	6.670		
12,500.00	7,221.43	7,157.43	7,221.43	151.40	248.14	-89.40	-3,046.45	-3,369.26	2,333.18	1,997.45	335.73	6.950		
12,600.00	7,220.83	7,156.83	7,220.83	154.18	248.12	-89.37	-3,046.45	-3,369.26	2,420.76	2,086.07	334.70	7.233		
12,700.00	7,220.24	7,156.24	7,220.24	156.96	248.10	-89.34	-3,046.45	-3,369.26	2,509.28	2,175.56	333.72	7.519		
12,800.00	7,219.64	7,155.64	7,219.64	159.74	248.08	-89.31	-3,046.45	-3,369.26	2,598.62	2,265.84	332.78	7.809		
12,900.00	7,219.05	7,155.05	7,219.05	162.53	248.06	-89.28	-3,046.45	-3,369.26	2,688.72	2,356.82	331.90	8.101		
13,000.00	7,218.45	7,154.45	7,218.45	165.32	248.04	-89.25	-3,046.45	-3,369.26	2,779.49	2,448.43	331.06	8.396		
13,100.00	7,217.86	7,153.86	7,217.86	168.11	248.02	-89.22	-3,046.45	-3,369.26	2,870.88	2,540.61	330.26	8.693		
13,200.00	7,217.26	7,153.26	7,217.26	170.90	248.00	-89.19	-3,046.45	-3,369.26	2,962.82	2,633.31	329.51	8.992		
13,300.00	7,216.66	7,152.66	7,216.66	173.70	247.98	-89.16	-3,046.45	-3,369.26	3,055.27	2,726.48	328.79	9.292		
13,400.00	7,216.07	7,152.07	7,216.07	176.49	247.96	-89.13	-3,046.45	-3,369.26	3,148.18	2,820.07	328.11	9.595		
13,500.00	7,215.47	7,151.47	7,215.47	179.29	247.93	-89.10	-3,046.45	-3,369.26	3,241.51	2,914.04	327.47	9.899		
13,600.00	7,214.88	7,150.88	7,214.88	182.09	247.91	-89.07	-3,046.45	-3,369.26	3,335.23	3,008.38	326.86	10.204		
13,700.00	7,214.28	7,150.28	7,214.28	184.90	247.89	-89.04	-3,046.45	-3,369.26	3,429.30	3,103.03	326.27	10.511		
13,800.00	7,213.68	7,149.68	7,213.68	187.70	247.87	-89.01	-3,046.45	-3,369.26	3,523.70	3,197.99	325.72	10.818		
13,900.00	7,213.09	7,149.09	7,213.09	190.51	247.85	-88.98	-3,046.45	-3,369.26	3,618.40	3,293.21	325.19	11.127		
14,000.00	7,212.49	7,148.49	7,212.49	193.32	247.83	-88.95	-3,046.45	-3,369.26	3,713.38	3,388.69	324.69	11.437		
14,100.00	7,211.90	7,147.90	7,211.90	196.13	247.81	-88.92	-3,046.45	-3,369.26	3,808.62	3,484.41	324.21	11.747		
14,200.00	7,211.30	7,147.30	7,211.30	198.94	247.79	-88.89	-3,046.45	-3,369.26	3,904.09	3,580.33	323.76	12.059		
14,300.00	7,210.71	7,146.71	7,210.71	201.75	247.77	-88.86	-3,046.45	-3,369.26	3,999.79	3,676.46	323.32	12.371		
14,400.00	7,210.11	7,146.11	7,210.11	204.56	247.75	-88.83	-3,046.45	-3,369.26	4,095.69	3,772.78	322.91	12.684		
14,500.00	7,209.51	7,145.51	7,209.51	207.38	247.73	-88.80	-3,046.45	-3,369.26	4,191.78	3,869.26	322.52	12.997		
14,600.00	7,208.92	7,144.92	7,208.92	210.19	247.71	-88.77	-3,046.45	-3,369.26	4,288.05	3,965.91	322.14	13.311		
14,700.00	7,208.32	7,144.32	7,208.32	213.01	247.68	-88.74	-3,046.45	-3,369.26	4,384.49	4,062.71	321.78	13.626		
14,800.00	7,207.73	7,143.73	7,207.73	215.83	247.66	-88.71	-3,046.45	-3,369.26	4,481.08	4,159.64	321.44	13.941		
14,900.00	7,207.13	7,143.13	7,207.13	218.65	247.64	-88.68	-3,046.45	-3,369.26	4,577.82	4,256.71	321.11	14.256		
15,000.00	7,206.53	7,142.53	7,206.53	221.47	247.62	-88.65	-3,046.45	-3,369.26	4,674.70	4,353.90	320.79	14.572		
15,100.00	7,205.94	7,141.94	7,205.94	224.29	247.60	-88.62	-3,046.45	-3,369.26	4,771.70	4,451.21	320.49	14.889		
15,200.00	7,205.34	7,141.34	7,205.34	227.11	247.58	-88.59	-3,046.45	-3,369.26	4,868.83	4,548.62	320.21	15.205		
15,258.04	7,205.00	7,141.00	7,205.00	228.75	247.57	-88.57	-3,046.45	-3,369.26	4,925.26	4,605.21	320.04	15.389		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	10.00	3.28	3.28	22.32	1,197.48	491.73	1,294.55				
100.00	100.00	87.14	97.14	3.28	3.29	22.33	1,197.56	491.79	1,294.61	1,288.04	6.57	197.047	
200.00	200.00	187.42	197.42	3.34	3.33	22.33	1,197.72	491.99	1,294.84	1,288.17	6.67	194.142	
300.00	299.98	290.67	300.67	3.44	3.44	-162.43	1,197.74	492.19	1,296.59	1,289.71	6.88	188.516	
400.00	399.84	383.30	393.29	3.59	3.58	-162.44	1,197.74	492.63	1,301.76	1,294.59	7.17	181.584	
500.00	499.45	486.19	496.18	3.79	3.78	-162.47	1,197.83	493.64	1,310.53	1,302.97	7.57	173.207	
600.00	598.70	580.51	590.50	4.03	3.99	-162.51	1,197.84	494.57	1,322.54	1,314.52	8.02	164.814	
700.00	697.47	684.02	694.00	4.31	4.26	-162.57	1,197.81	496.10	1,338.00	1,329.43	8.57	156.106	
800.00	795.62	783.87	793.83	4.64	4.55	-162.64	1,197.47	497.39	1,356.40	1,347.23	9.17	147.990	
900.00	893.06	878.14	888.10	5.00	4.83	-162.73	1,197.25	498.51	1,378.14	1,368.35	9.79	140.767	
1,000.00	989.65	977.46	987.41	5.40	5.16	-162.86	1,197.00	499.99	1,403.23	1,392.75	10.48	133.945	
1,100.00	1,085.85	1,068.27	1,078.21	5.82	5.46	-163.12	1,196.86	501.01	1,429.67	1,418.52	11.15	128.250	
1,200.00	1,182.06	1,164.48	1,174.42	6.27	5.80	-163.38	1,197.00	502.38	1,456.49	1,444.63	11.87	122.753	
1,300.00	1,278.26	1,269.82	1,279.74	6.73	6.18	-163.65	1,196.71	503.91	1,482.99	1,470.34	12.64	117.300	
1,400.00	1,374.47	1,368.05	1,377.97	7.20	6.54	-163.90	1,196.09	504.85	1,509.02	1,495.60	13.41	112.516	
1,500.00	1,470.67	1,465.69	1,475.60	7.69	6.90	-164.15	1,195.58	505.55	1,535.09	1,520.90	14.19	108.150	
1,600.00	1,566.88	1,562.08	1,571.99	8.18	7.27	-164.38	1,194.82	506.64	1,561.08	1,546.10	14.99	104.176	
1,700.00	1,663.08	1,655.52	1,665.41	8.68	7.63	-164.59	1,194.20	507.67	1,587.20	1,571.42	15.77	100.624	
1,800.00	1,759.29	1,752.01	1,761.90	9.19	8.00	-164.82	1,193.84	508.42	1,613.50	1,596.91	16.59	97.285	
1,900.00	1,855.49	1,856.47	1,866.36	9.70	8.41	-165.06	1,193.21	509.10	1,639.57	1,622.13	17.44	93.995	
2,000.00	1,951.70	1,952.42	1,962.30	10.22	8.79	-165.29	1,192.42	509.03	1,665.24	1,646.97	18.27	91.157	
2,100.00	2,047.90	2,047.23	2,057.11	10.73	9.17	-165.53	1,192.07	508.68	1,691.25	1,672.16	19.09	88.581	
2,200.00	2,144.11	2,141.51	2,151.39	11.26	9.54	-165.75	1,191.52	508.45	1,717.14	1,697.22	19.92	86.202	
2,300.00	2,240.31	2,229.30	2,239.18	11.78	9.89	-165.96	1,191.51	508.20	1,743.56	1,722.84	20.72	84.157	
2,400.00	2,336.52	2,324.58	2,334.46	12.31	10.28	-166.17	1,191.56	508.29	1,770.18	1,748.62	21.56	82.113	
2,500.00	2,432.72	2,420.27	2,430.15	12.84	10.67	-166.37	1,191.67	508.48	1,796.91	1,774.50	22.40	80.205	
2,600.00	2,528.93	2,520.74	2,530.61	13.37	11.07	-166.59	1,191.71	508.19	1,823.44	1,800.16	23.28	78.330	
2,700.00	2,625.13	2,609.51	2,619.38	13.91	11.43	-166.79	1,191.96	507.80	1,850.17	1,826.08	24.09	76.794	
2,800.00	2,721.34	2,705.70	2,715.58	14.44	11.83	-166.99	1,192.40	507.40	1,877.10	1,852.15	24.95	75.235	
2,900.00	2,817.54	2,807.77	2,817.65	14.98	12.24	-167.21	1,192.79	506.71	1,903.91	1,878.07	25.84	73.674	
3,000.00	2,913.75	2,919.78	2,929.64	15.52	12.70	-167.45	1,192.64	505.63	1,930.18	1,903.39	26.79	72.039	
3,100.00	3,009.95	3,003.92	3,013.78	16.06	13.05	-167.63	1,192.64	504.62	1,956.52	1,928.93	27.59	70.915	
3,200.00	3,106.16	3,109.77	3,119.62	16.60	13.49	-167.87	1,192.71	502.77	1,982.81	1,954.30	28.51	69.545	
3,300.00	3,202.37	3,196.89	3,206.72	17.14	13.85	-168.06	1,192.80	501.22	2,009.15	1,979.82	29.33	68.510	
3,400.00	3,298.57	3,306.47	3,316.29	17.68	14.30	-168.29	1,192.64	499.69	2,035.39	2,005.12	30.27	67.234	
3,500.00	3,394.78	3,402.52	3,412.32	18.22	14.70	-168.47	1,192.20	498.30	2,061.35	2,030.21	31.14	66.189	
3,600.00	3,490.98	3,496.21	3,506.00	18.76	15.09	-168.65	1,191.83	496.91	2,087.38	2,055.38	32.00	65.230	
3,700.00	3,587.19	3,585.44	3,595.23	19.31	15.47	-168.81	1,191.58	495.97	2,113.64	2,080.81	32.83	64.379	
3,800.00	3,683.39	3,687.56	3,677.35	19.85	15.81	-168.94	1,191.60	495.64	2,140.38	2,106.76	33.62	63.666	
3,900.00	3,779.60	3,759.76	3,769.55	20.39	16.20	-169.08	1,192.09	495.57	2,167.67	2,133.20	34.47	62.890	
4,000.00	3,875.80	3,860.35	3,870.13	20.94	16.62	-169.23	1,192.54	495.29	2,194.85	2,159.48	35.37	62.055	
4,100.00	3,972.01	3,956.82	3,966.60	21.48	17.02	-169.38	1,192.91	494.70	2,221.90	2,185.66	36.25	61.300	
4,200.00	4,068.21	4,054.42	4,064.20	22.03	17.43	-169.53	1,193.34	494.05	2,249.01	2,211.88	37.13	60.569	
4,300.00	4,164.42	4,154.02	4,163.80	22.57	17.85	-169.67	1,193.55	493.58	2,275.96	2,237.93	38.03	59.847	
4,400.00	4,260.62	4,249.30	4,259.08	23.12	18.25	-169.81	1,193.73	492.97	2,302.86	2,263.96	38.90	59.197	
4,500.00	4,356.83	4,343.51	4,353.29	23.67	18.64	-169.94	1,193.97	492.51	2,329.88	2,290.11	39.77	58.587	
4,600.00	4,453.03	4,438.29	4,448.07	24.21	19.04	-170.07	1,194.25	492.06	2,356.94	2,316.30	40.64	57.999	
4,700.00	4,549.24	4,529.89	4,539.67	24.76	19.43	-170.18	1,194.58	491.82	2,384.13	2,342.64	41.49	57.467	
4,800.00	4,645.44	4,621.44	4,631.21	25.31	19.81	-170.29	1,195.08	491.87	2,411.56	2,369.23	42.34	56.962	
4,900.00	4,741.65	4,718.59	4,728.36	25.86	20.22	-170.40	1,195.59	491.88	2,438.99	2,395.77	43.22	56.428	
5,000.00	4,837.85	4,803.84	4,813.61	26.40	20.58	-170.49	1,196.19	492.17	2,466.66	2,422.63	44.03	56.021	
5,100.00	4,934.06	4,885.39	4,895.15	26.95	20.93	-170.57	1,197.09	492.83	2,494.82	2,450.01	44.81	55.672	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,200.00	5,030.26	4,983.08	4,992.83	27.50	21.34	-170.66	1,198.49	493.59	2,523.29	2,477.59	45.70	55.208		
5,300.00	5,126.47	5,102.03	5,111.77	28.05	21.84	-170.79	1,199.75	493.87	2,551.29	2,504.55	46.74	54.583		
5,400.00	5,222.67	5,217.51	5,227.25	28.60	22.33	-170.91	1,200.05	493.60	2,578.45	2,530.70	47.75	53.997		
5,500.00	5,318.88	5,305.94	5,315.68	29.15	22.70	-171.01	1,200.30	492.93	2,605.51	2,556.92	48.58	53.629		
5,600.00	5,415.08	5,423.13	5,432.86	29.70	23.20	-171.15	1,200.16	491.76	2,632.14	2,582.54	49.61	53.061		
5,700.00	5,511.29	5,520.17	5,529.88	30.25	23.61	-171.27	1,199.81	490.21	2,658.45	2,607.95	50.50	52.648		
5,800.00	5,607.49	5,612.20	5,621.91	30.79	24.00	-171.39	1,199.55	488.90	2,684.86	2,633.51	51.35	52.284		
5,900.00	5,703.70	5,709.67	5,719.36	31.34	24.41	-171.50	1,199.27	487.66	2,711.33	2,659.08	52.24	51.897		
6,000.00	5,799.90	5,805.05	5,814.74	31.89	24.81	-171.62	1,199.12	485.96	2,737.80	2,684.68	53.12	51.536		
6,100.00	5,896.11	5,895.44	5,905.11	32.44	25.20	-171.73	1,199.12	484.20	2,764.41	2,710.44	53.97	51.221		
6,200.00	5,992.32	5,988.93	5,998.58	32.99	25.59	-171.84	1,199.24	482.52	2,791.18	2,736.34	54.84	50.899		
6,300.00	6,088.52	6,086.24	6,095.87	33.54	26.01	-171.97	1,199.45	480.53	2,817.98	2,762.25	55.73	50.565		
6,400.00	6,184.73	6,198.72	6,208.32	34.09	26.48	-172.11	1,199.40	478.06	2,844.54	2,787.81	56.73	50.145		
6,500.00	6,280.93	6,282.80	6,292.39	34.64	26.84	-172.21	1,199.28	476.19	2,870.99	2,813.46	57.53	49.904		
6,600.00	6,377.14	6,388.44	6,397.98	35.19	27.29	-172.35	1,199.37	473.32	2,897.58	2,839.10	58.48	49.547		
6,700.00	6,473.34	6,471.81	6,481.31	35.74	27.65	-172.46	1,199.45	470.74	2,924.12	2,864.84	59.28	49.327		
6,800.00	6,569.55	6,560.88	6,570.33	36.29	28.02	-172.58	1,199.97	467.88	2,951.10	2,890.98	60.12	49.088		
6,900.00	6,665.75	6,661.17	6,670.55	36.84	28.45	-172.74	1,200.74	463.95	2,978.17	2,917.13	61.03	48.795		
7,000.00	6,761.11	6,765.03	6,774.31	37.39	28.89	153.51	1,201.30	459.74	3,006.87	2,944.90	61.97	48.520		
7,100.00	6,853.41	6,857.28	6,866.50	37.89	29.29	135.30	1,201.60	456.14	3,037.89	2,975.07	62.82	48.361		
7,200.00	6,940.36	6,941.11	6,950.24	38.34	29.65	123.81	1,202.13	452.30	3,071.01	3,007.42	63.59	48.293		
7,300.00	7,019.83	7,023.24	7,032.26	38.74	30.00	115.90	1,202.84	448.17	3,105.80	3,041.45	64.35	48.263		
7,400.00	7,089.85	7,108.35	7,117.25	39.10	30.36	110.06	1,203.40	443.72	3,141.68	3,076.53	65.16	48.219		
7,500.00	7,148.71	7,169.50	7,178.29	39.42	30.62	105.15	1,203.86	439.99	3,178.52	3,112.67	65.85	48.271		
7,600.00	7,194.95	7,226.45	7,235.09	39.71	30.87	100.97	1,204.45	435.93	3,216.10	3,149.50	66.60	48.289		
7,700.00	7,227.43	7,271.41	7,279.93	40.01	31.06	97.20	1,204.79	432.78	3,253.99	3,186.60	67.39	48.285		
7,800.00	7,245.37	7,296.05	7,304.52	40.37	31.17	93.58	1,204.95	431.07	3,291.85	3,223.68	68.17	48.288		
7,900.00	7,248.84	7,306.42	7,314.87	40.87	31.21	91.09	1,205.01	430.35	3,329.26	3,260.29	68.97	48.271		
8,000.00	7,248.24	7,312.75	7,321.18	41.62	31.24	91.21	1,205.05	429.91	3,368.27	3,298.42	69.86	48.217		
8,100.00	7,247.65	7,319.08	7,327.49	42.66	31.27	91.32	1,205.09	429.47	3,409.76	3,338.93	70.83	48.139		
8,200.00	7,247.05	7,325.41	7,333.81	43.96	31.30	91.44	1,205.13	429.03	3,453.64	3,381.76	71.88	48.048		
8,300.00	7,246.46	7,331.74	7,340.12	45.46	31.33	91.56	1,205.18	428.60	3,499.81	3,426.83	72.98	47.955		
8,400.00	7,245.86	7,338.07	7,346.44	47.13	31.35	91.67	1,205.22	428.16	3,548.19	3,474.07	74.12	47.868		
8,500.00	7,245.27	7,344.40	7,352.75	48.93	31.38	91.79	1,205.26	427.72	3,598.69	3,523.39	75.29	47.795		
8,600.00	7,244.67	7,350.73	7,359.07	50.84	31.41	91.91	1,205.30	427.28	3,651.22	3,574.74	76.48	47.741		
8,700.00	7,244.07	7,357.06	7,365.38	52.85	31.44	92.03	1,205.34	426.84	3,705.69	3,628.02	77.67	47.710		
8,800.00	7,243.48	7,363.39	7,371.70	54.94	31.46	92.14	1,205.38	426.40	3,762.02	3,683.16	78.86	47.704 SF		
8,900.00	7,242.88	7,369.72	7,378.01	57.10	31.49	92.26	1,205.42	425.96	3,820.13	3,740.08	80.04	47.726		
9,000.00	7,242.29	7,376.05	7,384.32	59.32	31.52	92.38	1,205.46	425.53	3,879.93	3,798.72	81.21	47.775		
9,100.00	7,241.69	7,382.38	7,390.64	61.60	31.55	92.50	1,205.50	425.09	3,941.35	3,858.99	82.36	47.854		
9,200.00	7,241.09	7,388.71	7,396.95	63.92	31.57	92.61	1,205.54	424.65	4,004.32	3,920.83	83.49	47.961		
9,300.00	7,240.50	7,395.04	7,403.27	66.29	31.60	92.73	1,205.58	424.21	4,068.77	3,984.17	84.60	48.096		
9,400.00	7,239.90	7,401.37	7,409.58	68.70	31.63	92.85	1,205.62	423.77	4,134.62	4,048.94	85.68	48.259		
9,500.00	7,239.31	7,407.70	7,415.90	71.14	31.66	92.96	1,205.67	423.33	4,201.80	4,115.08	86.73	48.449		
9,600.00	7,238.71	7,414.03	7,422.21	73.61	31.68	93.08	1,205.71	422.89	4,270.27	4,182.52	87.75	48.664		
9,700.00	7,238.11	7,420.36	7,428.53	76.11	31.71	93.20	1,205.75	422.46	4,339.94	4,251.20	88.74	48.904		
9,800.00	7,237.52	7,426.69	7,434.84	78.64	31.74	93.31	1,205.79	422.02	4,410.78	4,321.07	89.71	49.168		
9,900.00	7,236.92	7,433.02	7,441.16	81.19	31.77	93.43	1,205.83	421.58	4,482.72	4,392.07	90.64	49.454		
10,000.00	7,236.33	7,439.35	7,447.47	83.75	31.79	93.55	1,205.87	421.14	4,555.70	4,464.15	91.55	49.761		
10,100.00	7,235.73	7,445.68	7,453.78	86.34	31.82	93.67	1,205.91	420.70	4,629.69	4,537.26	92.43	50.089		
10,200.00	7,235.14	7,452.01	7,460.10	88.94	31.85	93.78	1,205.95	420.26	4,704.64	4,611.36	93.28	50.436		
10,300.00	7,234.54	7,458.34	7,466.41	91.56	31.88	93.90	1,205.99	419.82	4,780.49	4,686.39	94.10	50.801		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,400.00	7,233.94	7,443.00	7,451.11	94.19	31.81	93.62	1,205.89	420.89	4,857.25	4,762.49	94.76	51.258		
10,500.00	7,233.35	7,443.00	7,451.11	96.84	31.81	93.62	1,205.89	420.89	4,934.83	4,839.33	95.49	51.678		
10,600.00	7,232.75	7,443.00	7,451.11	99.50	31.81	93.62	1,205.89	420.89	5,013.20	4,917.00	96.20	52.114		
10,700.00	7,232.16	7,443.00	7,451.11	102.17	31.81	93.62	1,205.89	420.89	5,092.32	4,995.44	96.88	52.564		
10,800.00	7,231.56	7,443.00	7,451.11	104.85	31.81	93.62	1,205.89	420.89	5,172.17	5,074.64	97.54	53.028		
10,900.00	7,230.96	7,443.00	7,451.11	107.53	31.81	93.62	1,205.89	420.89	5,252.71	5,154.54	98.17	53.506		
11,000.00	7,230.37	7,443.00	7,451.11	110.23	31.81	93.62	1,205.89	420.89	5,333.91	5,235.12	98.78	53.996		
11,100.00	7,229.77	7,443.00	7,451.11	112.93	31.81	93.62	1,205.89	420.89	5,415.74	5,316.36	99.38	54.498		
11,200.00	7,229.18	7,443.00	7,451.11	115.65	31.81	93.62	1,205.89	420.89	5,498.16	5,398.22	99.95	55.010		
11,300.00	7,228.58	7,443.00	7,451.11	118.37	31.81	93.62	1,205.89	420.89	5,581.17	5,480.67	100.50	55.534		
11,400.00	7,227.99	7,443.00	7,451.11	121.09	31.81	93.62	1,205.89	420.89	5,664.72	5,563.68	101.03	56.067		
11,500.00	7,227.39	7,443.00	7,451.11	123.82	31.81	93.62	1,205.89	420.89	5,748.79	5,647.24	101.55	56.610		
11,600.00	7,226.79	7,443.00	7,451.11	126.56	31.81	93.62	1,205.89	420.89	5,833.37	5,731.32	102.05	57.162		
11,700.00	7,226.20	7,443.00	7,451.11	129.30	31.81	93.62	1,205.89	420.89	5,918.43	5,815.90	102.53	57.723		
11,800.00	7,225.60	7,443.00	7,451.11	132.05	31.81	93.62	1,205.89	420.89	6,003.95	5,900.96	103.00	58.292		
11,900.00	7,225.01	7,443.00	7,451.11	134.80	31.81	93.62	1,205.89	420.89	6,089.92	5,986.47	103.45	58.868		
12,000.00	7,224.41	7,443.00	7,451.11	137.56	31.81	93.62	1,205.89	420.89	6,176.30	6,072.41	103.89	59.452		
12,100.00	7,223.81	7,443.00	7,451.11	140.32	31.81	93.62	1,205.89	420.89	6,263.09	6,158.78	104.31	60.042		
12,200.00	7,223.22	7,443.00	7,451.11	143.08	31.81	93.62	1,205.89	420.89	6,350.27	6,245.55	104.72	60.639		
12,300.00	7,222.62	7,443.00	7,451.11	145.85	31.81	93.62	1,205.89	420.89	6,437.82	6,332.70	105.12	61.243		
12,400.00	7,222.03	7,443.00	7,451.11	148.62	31.81	93.62	1,205.89	420.89	6,525.73	6,420.22	105.50	61.852		
12,500.00	7,221.43	7,443.00	7,451.11	151.40	31.81	93.62	1,205.89	420.89	6,613.98	6,508.10	105.88	62.467		
12,600.00	7,220.83	7,443.00	7,451.11	154.18	31.81	93.62	1,205.89	420.89	6,702.56	6,596.32	106.24	63.088		
12,700.00	7,220.24	7,443.00	7,451.11	156.96	31.81	93.62	1,205.89	420.89	6,791.46	6,684.87	106.59	63.713		
12,800.00	7,219.64	7,443.00	7,451.11	159.74	31.81	93.62	1,205.89	420.89	6,880.67	6,773.73	106.94	64.344		
12,900.00	7,219.05	7,443.00	7,451.11	162.53	31.81	93.62	1,205.89	420.89	6,970.16	6,862.90	107.27	64.979		
13,000.00	7,218.45	7,443.00	7,451.11	165.32	31.81	93.62	1,205.89	420.89	7,059.94	6,952.35	107.59	65.618		
13,100.00	7,217.86	7,443.00	7,451.11	168.11	31.81	93.62	1,205.89	420.89	7,149.99	7,042.09	107.90	66.262		
13,200.00	7,217.26	7,443.00	7,451.11	170.90	31.81	93.62	1,205.89	420.89	7,240.31	7,132.10	108.21	66.910		
13,300.00	7,216.66	7,443.00	7,451.11	173.70	31.81	93.62	1,205.89	420.89	7,330.87	7,222.36	108.51	67.561		
13,400.00	7,216.07	7,443.00	7,451.11	176.49	31.81	93.62	1,205.89	420.89	7,421.67	7,312.88	108.80	68.216		
13,500.00	7,215.47	7,443.00	7,451.11	179.29	31.81	93.62	1,205.89	420.89	7,512.71	7,403.64	109.08	68.875		
13,600.00	7,214.88	7,443.00	7,451.11	182.09	31.81	93.62	1,205.89	420.89	7,603.98	7,494.63	109.35	69.537		
13,700.00	7,214.28	7,443.00	7,451.11	184.90	31.81	93.62	1,205.89	420.89	7,695.46	7,585.84	109.62	70.202		
13,800.00	7,213.68	7,443.00	7,451.11	187.70	31.81	93.62	1,205.89	420.89	7,787.15	7,677.27	109.88	70.870		
13,900.00	7,213.09	7,443.00	7,451.11	190.51	31.81	93.62	1,205.89	420.89	7,879.04	7,768.91	110.13	71.540		
14,000.00	7,212.49	7,443.00	7,451.11	193.32	31.81	93.62	1,205.89	420.89	7,971.13	7,860.75	110.38	72.214		
14,100.00	7,211.90	7,443.00	7,451.11	196.13	31.81	93.62	1,205.89	420.89	8,063.41	7,952.78	110.62	72.890		
14,200.00	7,211.30	7,443.00	7,451.11	198.94	31.81	93.62	1,205.89	420.89	8,155.87	8,045.00	110.86	73.568		
14,300.00	7,210.71	7,443.00	7,451.11	201.75	31.81	93.62	1,205.89	420.89	8,248.50	8,137.41	111.09	74.249		
14,400.00	7,210.11	7,443.00	7,451.11	204.56	31.81	93.62	1,205.89	420.89	8,341.31	8,229.99	111.32	74.932		
14,500.00	7,209.51	7,443.00	7,451.11	207.38	31.81	93.62	1,205.89	420.89	8,434.27	8,322.74	111.54	75.617		
14,600.00	7,208.92	7,443.00	7,451.11	210.19	31.81	93.62	1,205.89	420.89	8,527.40	8,415.65	111.76	76.304		
14,700.00	7,208.32	7,443.00	7,451.11	213.01	31.81	93.62	1,205.89	420.89	8,620.69	8,508.72	111.97	76.993		
14,800.00	7,207.73	7,443.00	7,451.11	215.83	31.81	93.62	1,205.89	420.89	8,714.12	8,601.94	112.17	77.684		
14,900.00	7,207.13	7,443.00	7,451.11	218.65	31.81	93.62	1,205.89	420.89	8,807.69	8,695.31	112.38	78.376		
15,000.00	7,206.53	7,443.00	7,451.11	221.47	31.81	93.62	1,205.89	420.89	8,901.41	8,788.83	112.58	79.070		
15,100.00	7,205.94	7,443.00	7,451.11	224.29	31.81	93.62	1,205.89	420.89	8,995.26	8,882.49	112.77	79.766		
15,200.00	7,205.34	7,443.00	7,451.11	227.11	31.81	93.62	1,205.89	420.89	9,089.24	8,976.28	112.96	80.463		
15,258.04	7,205.00	7,443.00	7,451.11	228.75	31.81	93.62	1,205.89	420.89	9,143.85	9,030.78	113.07	80.869		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	20.00	3.28	3.28	74.52	144.64	522.35	542.37					
100.00	100.00	77.52	97.52	3.28	3.28	74.47	145.16	522.39	542.18	535.61	6.57	82.531	CC, ES	
200.00	200.00	179.68	199.66	3.34	3.33	74.31	146.76	522.33	542.56	535.89	6.67	81.385		
300.00	299.98	280.89	300.86	3.44	3.43	-110.76	148.07	521.86	543.08	536.21	6.87	79.050		
400.00	399.84	378.33	398.30	3.59	3.57	-111.35	149.21	521.53	544.97	537.80	7.16	76.078		
500.00	499.45	475.78	495.74	3.79	3.76	-112.22	150.38	521.68	548.71	541.17	7.55	72.715		
600.00	598.70	573.39	593.35	4.03	3.98	-113.37	151.66	522.11	554.30	546.29	8.01	69.205		
700.00	697.47	671.73	691.67	4.31	4.23	-114.81	153.22	522.63	561.79	553.24	8.55	65.743		
800.00	795.62	768.53	788.46	4.64	4.51	-116.43	154.56	523.25	571.28	562.15	9.14	62.514		
900.00	893.06	864.58	884.49	5.00	4.80	-118.25	156.18	524.00	583.23	573.45	9.78	59.616		
1,000.00	989.65	961.16	981.05	5.40	5.11	-120.25	157.64	524.89	597.72	587.24	10.48	57.049		
1,100.00	1,085.85	1,057.12	1,077.01	5.82	5.43	-122.47	159.02	525.69	613.76	602.56	11.20	54.798		
1,200.00	1,182.06	1,153.85	1,173.71	6.27	5.76	-124.61	160.52	526.43	630.69	618.74	11.95	52.767		
1,300.00	1,278.26	1,250.73	1,270.59	6.73	6.11	-126.64	161.85	526.98	648.22	635.50	12.73	50.936		
1,400.00	1,374.47	1,346.14	1,365.98	7.20	6.46	-128.56	163.41	527.32	666.50	652.99	13.51	49.334		
1,500.00	1,470.67	1,443.65	1,463.48	7.69	6.82	-130.41	164.88	527.78	685.52	671.20	14.32	47.885		
1,600.00	1,566.88	1,541.96	1,561.79	8.18	7.20	-132.18	166.04	527.85	704.71	689.57	15.14	46.556		
1,700.00	1,663.08	1,639.38	1,659.20	8.68	7.57	-133.86	167.36	527.69	724.44	708.48	15.96	45.386		
1,800.00	1,759.29	1,737.96	1,757.77	9.19	7.95	-135.47	168.35	527.16	744.25	727.45	16.80	44.301		
1,900.00	1,855.49	1,832.27	1,852.07	9.70	8.32	-136.90	169.10	526.90	764.63	747.01	17.62	43.392		
2,000.00	1,951.70	1,928.64	1,948.44	10.22	8.70	-138.30	170.02	526.70	785.64	767.18	18.46	42.561		
2,100.00	2,047.90	2,029.99	2,049.79	10.73	9.11	-139.70	170.72	526.12	806.66	787.34	19.33	41.735		
2,200.00	2,144.11	2,129.12	2,148.91	11.26	9.50	-140.99	170.82	525.28	827.50	807.31	20.19	40.991		
2,300.00	2,240.31	2,224.40	2,244.19	11.78	9.89	-142.16	170.86	524.59	848.74	827.71	21.03	40.363		
2,400.00	2,336.52	2,323.79	2,343.58	12.31	10.29	-143.30	170.60	523.91	870.12	848.22	21.90	39.740		
2,500.00	2,432.72	2,421.90	2,441.68	12.84	10.68	-144.38	170.16	523.03	891.53	868.78	22.76	39.175		
2,600.00	2,528.93	2,519.51	2,539.28	13.37	11.08	-145.38	169.41	522.30	913.08	889.46	23.62	38.657		
2,700.00	2,625.13	2,616.05	2,635.82	13.91	11.47	-146.31	168.44	521.70	934.77	910.29	24.48	38.188		
2,800.00	2,721.34	2,709.63	2,729.40	14.44	11.85	-147.16	167.51	521.46	956.91	931.59	25.32	37.792		
2,900.00	2,817.54	2,810.71	2,830.47	14.98	12.26	-148.03	166.36	521.18	979.13	952.92	26.21	37.355		
3,000.00	2,913.75	2,902.83	2,922.58	15.52	12.64	-148.81	165.52	520.70	1,001.59	974.54	27.05	37.031		
3,100.00	3,009.95	2,998.19	3,017.94	16.06	13.04	-149.59	164.92	520.16	1,024.44	996.54	27.90	36.713		
3,200.00	3,106.16	3,092.16	3,111.91	16.60	13.43	-150.33	164.58	519.55	1,047.63	1,018.88	28.75	36.436		
3,300.00	3,202.37	3,189.39	3,209.13	17.14	13.83	-151.09	164.44	518.74	1,071.08	1,041.46	29.62	36.156		
3,400.00	3,298.57	3,285.51	3,305.25	17.68	14.23	-151.81	164.25	517.90	1,094.64	1,064.15	30.49	35.903		
3,500.00	3,394.78	3,378.82	3,398.56	18.22	14.62	-152.46	164.06	517.35	1,118.48	1,087.14	31.34	35.693		
3,600.00	3,490.98	3,475.72	3,495.46	18.76	15.02	-153.09	163.77	517.22	1,142.62	1,110.41	32.21	35.475		
3,700.00	3,587.19	3,573.88	3,593.61	19.31	15.43	-153.70	163.38	516.96	1,166.74	1,133.65	33.09	35.257		
3,800.00	3,683.39	3,672.09	3,691.83	19.85	15.84	-154.30	162.90	516.57	1,190.83	1,156.85	33.98	35.048		
3,900.00	3,779.60	3,770.37	3,790.10	20.39	16.26	-154.87	162.32	516.02	1,214.88	1,180.01	34.86	34.847		
4,000.00	3,875.80	3,868.70	3,888.42	20.94	16.67	-155.43	161.64	515.34	1,238.88	1,203.13	35.75	34.654		
4,100.00	3,972.01	3,967.09	3,986.81	21.48	17.08	-155.96	160.86	514.51	1,262.84	1,226.20	36.64	34.468		
4,200.00	4,068.21	4,065.53	4,085.24	22.03	17.50	-156.49	159.99	513.53	1,286.75	1,249.22	37.53	34.288		
4,300.00	4,164.42	4,164.04	4,183.74	22.57	17.91	-156.99	159.01	512.41	1,310.60	1,272.18	38.42	34.115		
4,400.00	4,260.62	4,260.01	4,279.70	23.12	18.31	-157.47	158.00	511.26	1,334.45	1,295.16	39.29	33.964		
4,500.00	4,356.83	4,352.97	4,372.65	23.67	18.70	-157.91	157.06	510.38	1,358.55	1,318.40	40.14	33.844		
4,600.00	4,453.03	4,444.00	4,463.68	24.21	19.09	-158.32	156.34	509.82	1,383.04	1,342.06	40.98	33.749		
4,700.00	4,549.24	4,536.77	4,556.44	24.76	19.48	-158.73	156.07	509.14	1,408.00	1,366.17	41.83	33.660		
4,800.00	4,645.44	4,632.63	4,652.29	25.31	19.88	-159.15	155.88	508.36	1,433.08	1,390.37	42.70	33.559		
4,900.00	4,741.65	4,727.29	4,746.95	25.86	20.28	-159.54	155.74	507.80	1,458.35	1,414.78	43.57	33.472		
5,000.00	4,837.85	4,823.11	4,842.77	26.40	20.69	-159.91	155.45	507.47	1,483.67	1,439.22	44.44	33.383		
5,100.00	4,934.06	4,912.83	4,932.49	26.95	21.06	-160.25	155.44	507.32	1,509.35	1,464.08	45.27	33.340		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,200.00	5,030.26	5,009.17	5,028.83	27.50	21.47	-160.61	155.69	507.00	1,535.27	1,489.12	46.15	33.267		
5,300.00	5,126.47	5,108.02	5,127.68	28.05	21.89	-160.97	155.89	506.55	1,561.15	1,514.10	47.05	33.181		
5,400.00	5,222.67	5,202.19	5,221.85	28.60	22.29	-161.30	156.08	506.12	1,587.08	1,539.16	47.91	33.125		
5,500.00	5,318.88	5,303.32	5,322.98	29.15	22.72	-161.65	156.28	505.38	1,612.95	1,564.12	48.83	33.032		
5,600.00	5,415.08	5,404.73	5,424.38	29.70	23.15	-162.00	156.27	504.31	1,638.57	1,588.82	49.75	32.936		
5,700.00	5,511.29	5,496.81	5,516.45	30.25	23.54	-162.30	156.20	503.43	1,664.22	1,613.62	50.60	32.891		
5,800.00	5,607.49	5,592.74	5,612.39	30.79	23.94	-162.60	156.16	502.76	1,690.04	1,638.56	51.48	32.831		
5,900.00	5,703.70	5,686.01	5,715.65	31.34	24.38	-162.91	155.85	502.20	1,715.72	1,663.31	52.41	32.734		
6,000.00	5,799.90	5,793.21	5,812.85	31.89	24.79	-163.19	155.31	501.64	1,741.20	1,687.90	53.30	32.666		
6,100.00	5,896.11	5,880.76	5,900.39	32.44	25.16	-163.43	154.98	501.23	1,766.93	1,712.81	54.12	32.650		
6,200.00	5,992.32	5,975.86	5,995.50	32.99	25.57	-163.68	154.97	500.85	1,793.02	1,738.03	54.99	32.606		
6,300.00	6,088.52	6,077.18	6,096.81	33.54	26.00	-163.96	154.91	500.16	1,819.02	1,763.11	55.91	32.533		
6,400.00	6,184.73	6,173.03	6,192.66	34.09	26.41	-164.21	154.68	499.43	1,844.87	1,788.07	56.79	32.484		
6,500.00	6,280.93	6,265.13	6,284.75	34.64	26.80	-164.44	154.54	498.92	1,870.89	1,813.25	57.64	32.456		
6,600.00	6,377.14	6,359.38	6,379.01	35.19	27.20	-164.66	154.52	498.63	1,897.14	1,838.63	58.51	32.424		
6,700.00	6,473.34	6,455.45	6,475.08	35.74	27.61	-164.88	154.51	498.39	1,923.45	1,864.06	59.39	32.385		
6,800.00	6,569.55	6,551.51	6,571.14	36.29	28.01	-165.10	154.50	498.16	1,949.79	1,889.51	60.28	32.347		
6,900.00	6,665.75	6,647.57	6,667.20	36.84	28.42	-170.30	154.50	497.96	1,976.22	1,915.06	61.16	32.312 SF		
7,000.00	6,761.11	6,742.82	6,762.45	37.39	28.83	160.99	154.49	497.77	2,005.74	1,943.71	62.04	32.331		
7,100.00	6,853.41	6,835.02	6,854.65	37.89	29.22	142.73	154.48	497.61	2,039.65	1,976.76	62.89	32.434		
7,200.00	6,940.36	6,921.89	6,941.52	38.34	29.59	131.11	154.48	497.48	2,077.45	2,013.76	63.69	32.619		
7,300.00	7,019.83	7,001.30	7,020.93	38.74	29.93	122.87	154.47	497.37	2,118.81	2,054.38	64.44	32.881		
7,400.00	7,089.85	7,071.27	7,090.90	39.10	30.23	116.30	154.47	497.28	2,163.48	2,098.34	65.14	33.214		
7,500.00	7,148.71	7,130.09	7,149.72	39.42	30.48	110.50	154.47	497.22	2,211.15	2,145.35	65.80	33.605		
7,600.00	7,194.95	7,176.32	7,195.94	39.71	30.68	104.97	154.47	497.17	2,261.42	2,194.99	66.43	34.041		
7,700.00	7,227.43	7,208.81	7,228.43	40.01	30.81	99.45	154.46	497.15	2,313.70	2,246.65	67.05	34.507		
7,800.00	7,245.37	7,226.77	7,246.40	40.37	30.89	93.88	154.46	497.13	2,367.20	2,299.55	67.65	34.992		
7,900.00	7,248.84	7,230.32	7,249.94	40.87	30.91	89.81	154.46	497.13	2,421.02	2,352.80	68.22	35.487		
8,000.00	7,248.24	7,229.80	7,249.43	41.62	30.90	89.80	154.46	497.13	2,476.84	2,408.00	68.84	35.980		
8,100.00	7,247.65	7,229.29	7,248.92	42.66	30.90	89.78	154.46	497.13	2,535.38	2,465.87	69.50	36.478		
8,200.00	7,247.05	7,228.77	7,248.40	43.96	30.90	89.77	154.46	497.13	2,596.45	2,526.24	70.20	36.986		
8,300.00	7,246.46	7,228.26	7,247.89	45.46	30.90	89.75	154.46	497.13	2,659.87	2,588.95	70.92	37.506		
8,400.00	7,245.86	7,227.75	7,247.37	47.13	30.89	89.74	154.46	497.13	2,725.49	2,653.85	71.64	38.043		
8,500.00	7,245.27	7,227.23	7,246.86	48.93	30.89	89.72	154.46	497.13	2,793.15	2,720.78	72.37	38.597		
8,600.00	7,244.67	7,226.72	7,246.35	50.84	30.89	89.71	154.46	497.13	2,862.71	2,789.62	73.09	39.169		
8,700.00	7,244.07	7,226.21	7,245.83	52.85	30.89	89.69	154.46	497.13	2,934.02	2,860.23	73.79	39.760		
8,800.00	7,243.48	7,225.69	7,245.32	54.94	30.89	89.68	154.46	497.13	3,006.97	2,932.49	74.48	40.371		
8,900.00	7,242.88	7,225.18	7,244.81	57.10	30.88	89.67	154.46	497.13	3,081.44	3,006.28	75.16	41.000		
9,000.00	7,242.29	7,224.67	7,244.30	59.32	30.88	89.65	154.46	497.13	3,157.32	3,081.51	75.81	41.648		
9,100.00	7,241.69	7,224.16	7,243.79	61.60	30.88	89.64	154.46	497.13	3,234.51	3,158.07	76.44	42.314		
9,200.00	7,241.09	7,223.65	7,243.27	63.92	30.88	89.62	154.46	497.13	3,312.92	3,235.87	77.05	42.998		
9,300.00	7,240.50	7,223.13	7,242.76	66.29	30.87	89.61	154.46	497.13	3,392.46	3,314.83	77.63	43.698		
9,400.00	7,239.90	7,222.62	7,242.25	68.70	30.87	89.59	154.46	497.13	3,473.06	3,394.87	78.20	44.414		
9,500.00	7,239.31	7,222.11	7,241.74	71.14	30.87	89.58	154.46	497.13	3,554.65	3,475.91	78.74	45.145		
9,600.00	7,238.71	7,221.60	7,241.23	73.61	30.87	89.56	154.46	497.13	3,637.16	3,557.90	79.26	45.890		
9,700.00	7,238.11	7,221.09	7,240.72	76.11	30.87	89.55	154.46	497.14	3,720.53	3,640.77	79.76	46.648		
9,800.00	7,237.52	7,220.58	7,240.21	78.64	30.86	89.54	154.46	497.14	3,804.70	3,724.46	80.24	47.419		
9,900.00	7,236.92	7,220.07	7,239.70	81.19	30.86	89.52	154.46	497.14	3,889.61	3,808.92	80.69	48.202		
10,000.00	7,236.33	7,219.56	7,239.19	83.75	30.86	89.51	154.46	497.14	3,975.23	3,894.10	81.13	48.996		
10,100.00	7,235.73	7,219.05	7,238.68	86.34	30.86	89.49	154.46	497.14	4,061.51	3,979.95	81.56	49.800		
10,200.00	7,235.14	7,218.54	7,238.17	88.94	30.86	89.48	154.46	497.14	4,148.40	4,066.44	81.96	50.614		
10,300.00	7,234.54	7,218.03	7,237.66	91.56	30.85	89.46	154.46	497.14	4,235.87	4,153.52	82.35	51.437		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,400.00	7,233.94	7,217.52	7,237.15	94.19	30.85	89.45	154.46	497.14	4,323.89	4,241.16	82.72	52.269		
10,500.00	7,233.35	7,217.01	7,236.64	96.84	30.85	89.43	154.46	497.14	4,412.41	4,329.33	83.08	53.109		
10,600.00	7,232.75	7,216.50	7,236.13	99.50	30.85	89.42	154.46	497.14	4,501.42	4,417.99	83.43	53.956		
10,700.00	7,232.16	7,215.99	7,235.62	102.17	30.84	89.41	154.46	497.14	4,590.87	4,507.12	83.76	54.811		
10,800.00	7,231.56	7,215.49	7,235.11	104.85	30.84	89.39	154.46	497.14	4,680.76	4,596.68	84.08	55.672		
10,900.00	7,230.96	7,214.98	7,234.61	107.53	30.84	89.38	154.46	497.14	4,771.05	4,686.66	84.38	56.539		
11,000.00	7,230.37	7,214.47	7,234.10	110.23	30.84	89.36	154.46	497.14	4,861.71	4,777.03	84.68	57.412		
11,100.00	7,229.77	7,213.96	7,233.59	112.93	30.84	89.35	154.46	497.14	4,952.74	4,867.77	84.97	58.291		
11,200.00	7,229.18	7,213.46	7,233.08	115.65	30.83	89.33	154.46	497.14	5,044.11	4,958.86	85.24	59.174		
11,300.00	7,228.58	7,212.95	7,232.58	118.37	30.83	89.32	154.46	497.14	5,135.79	5,050.29	85.51	60.063		
11,400.00	7,227.99	7,212.44	7,232.07	121.09	30.83	89.31	154.46	497.14	5,227.79	5,142.02	85.76	60.955		
11,500.00	7,227.39	7,211.93	7,231.56	123.82	30.83	89.29	154.46	497.14	5,320.07	5,234.06	86.01	61.852		
11,600.00	7,226.79	7,211.43	7,231.06	126.56	30.82	89.28	154.46	497.14	5,412.62	5,326.37	86.25	62.753		
11,700.00	7,226.20	7,210.92	7,230.55	129.30	30.82	89.26	154.46	497.14	5,505.44	5,418.95	86.49	63.657		
11,800.00	7,225.60	7,210.42	7,230.04	132.05	30.82	89.25	154.46	497.14	5,598.50	5,511.79	86.71	64.565		
11,900.00	7,225.01	7,209.91	7,229.54	134.80	30.82	89.23	154.46	497.14	5,691.80	5,604.87	86.93	65.476		
12,000.00	7,224.41	7,209.40	7,229.03	137.56	30.82	89.22	154.46	497.14	5,785.32	5,698.18	87.14	66.390		
12,100.00	7,223.81	7,208.90	7,228.53	140.32	30.81	89.21	154.46	497.15	5,879.06	5,791.71	87.35	67.306		
12,200.00	7,223.22	7,208.39	7,228.02	143.08	30.81	89.19	154.46	497.15	5,973.00	5,885.45	87.55	68.226		
12,300.00	7,222.62	7,207.89	7,227.52	145.85	30.81	89.18	154.46	497.15	6,067.13	5,979.39	87.74	69.147		
12,400.00	7,222.03	7,207.38	7,227.01	148.62	30.81	89.16	154.46	497.15	6,161.45	6,073.52	87.93	70.071		
12,500.00	7,221.43	7,206.88	7,226.51	151.40	30.81	89.15	154.46	497.15	6,255.94	6,167.83	88.12	70.996		
12,600.00	7,220.83	7,206.37	7,226.00	154.18	30.80	89.13	154.46	497.15	6,350.61	6,262.31	88.30	71.924		
12,700.00	7,220.24	7,205.87	7,225.50	156.96	30.80	89.12	154.46	497.15	6,445.43	6,356.96	88.47	72.853		
12,800.00	7,219.64	7,205.37	7,224.99	159.74	30.80	89.11	154.46	497.15	6,540.41	6,451.77	88.64	73.784		
12,900.00	7,219.05	7,204.86	7,224.49	162.53	30.80	89.09	154.46	497.15	6,635.53	6,546.72	88.81	74.717		
13,000.00	7,218.45	7,204.36	7,223.99	165.32	30.79	89.08	154.46	497.15	6,730.80	6,641.83	88.97	75.650		
13,100.00	7,217.86	7,203.85	7,223.48	168.11	30.79	89.06	154.46	497.15	6,826.20	6,737.07	89.13	76.585		
13,200.00	7,217.26	7,203.35	7,222.98	170.90	30.79	89.05	154.46	497.15	6,921.73	6,832.45	89.29	77.521		
13,300.00	7,216.66	7,202.85	7,222.48	173.70	30.79	89.04	154.46	497.15	7,017.39	6,927.95	89.44	78.458		
13,400.00	7,216.07	7,202.35	7,221.97	176.49	30.79	89.02	154.46	497.15	7,113.17	7,023.57	89.59	79.396		
13,500.00	7,215.47	7,201.84	7,221.47	179.29	30.78	89.01	154.46	497.15	7,209.06	7,119.32	89.74	80.335		
13,600.00	7,214.88	7,201.34	7,220.97	182.09	30.78	88.99	154.46	497.15	7,305.06	7,215.17	89.88	81.275		
13,700.00	7,214.28	7,200.84	7,220.47	184.90	30.78	88.98	154.46	497.15	7,401.16	7,311.14	90.02	82.215		
13,800.00	7,213.68	7,200.34	7,219.96	187.70	30.78	88.96	154.46	497.15	7,497.37	7,407.21	90.16	83.155		
13,900.00	7,213.09	7,199.84	7,219.46	190.51	30.78	88.95	154.46	497.15	7,593.68	7,503.38	90.30	84.097		
14,000.00	7,212.49	7,199.33	7,218.96	193.32	30.77	88.94	154.46	497.15	7,690.08	7,599.65	90.43	85.038		
14,100.00	7,211.90	7,198.83	7,218.46	196.13	30.77	88.92	154.46	497.15	7,786.57	7,696.01	90.56	85.980		
14,200.00	7,211.30	7,198.33	7,217.96	198.94	30.77	88.91	154.46	497.15	7,883.15	7,792.45	90.69	86.922		
14,300.00	7,210.71	7,197.83	7,217.46	201.75	30.77	88.89	154.46	497.15	7,979.81	7,888.99	90.82	87.864		
14,400.00	7,210.11	7,197.33	7,216.96	204.56	30.76	88.88	154.46	497.16	8,076.55	7,985.61	90.95	88.806		
14,500.00	7,209.51	7,196.83	7,216.46	207.38	30.76	88.87	154.46	497.16	8,173.38	8,082.31	91.07	89.749		
14,600.00	7,208.92	7,196.33	7,215.96	210.19	30.76	88.85	154.46	497.16	8,270.27	8,179.08	91.19	90.691		
14,700.00	7,208.32	7,195.83	7,215.46	213.01	30.76	88.84	154.46	497.16	8,367.25	8,275.93	91.31	91.633		
14,800.00	7,207.73	7,195.33	7,214.96	215.83	30.76	88.82	154.46	497.16	8,464.29	8,372.86	91.43	92.575		
14,900.00	7,207.13	7,194.83	7,214.46	218.65	30.75	88.81	154.46	497.16	8,561.40	8,469.85	91.55	93.517		
15,000.00	7,206.53	7,194.33	7,213.96	221.47	30.75	88.80	154.46	497.16	8,658.57	8,566.91	91.67	94.459		
15,100.00	7,205.94	7,193.83	7,213.46	224.29	30.75	88.78	154.46	497.16	8,755.81	8,664.03	91.78	95.400		
15,200.00	7,205.34	7,193.33	7,212.96	227.11	30.75	88.77	154.46	497.16	8,853.11	8,761.22	91.89	96.341		
15,258.04	7,205.00	7,193.04	7,212.67	228.75	30.75	88.76	154.46	497.16	8,909.62	8,817.66	91.96	96.887		





# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	
0.00	0.00	0.00	0.00	3.28	3.28	8.40	1,670.35	246.69	1,688.47				
100.00	100.00	110.58	110.57	3.28	3.29	8.41	1,669.99	246.76	1,688.16	1,681.58	6.57	256.799	
200.00	200.00	216.82	216.81	3.34	3.34	8.41	1,669.07	246.84	1,687.30	1,680.63	6.68	252.674	
230.80	230.80	248.92	248.91	3.36	3.37	-176.34	1,668.74	246.80	1,687.15	1,680.42	6.73	250.554	
300.00	299.98	320.16	320.14	3.44	3.46	-176.34	1,667.93	246.75	1,687.94	1,681.05	6.90	244.804	
400.00	399.84	411.27	411.25	3.59	3.60	-176.35	1,667.06	246.57	1,692.20	1,685.01	7.19	235.318	
500.00	499.45	506.13	506.11	3.79	3.79	-176.37	1,666.63	246.17	1,700.38	1,692.81	7.58	224.335	
600.00	598.70	614.27	614.25	4.03	4.05	-176.39	1,666.00	245.80	1,711.93	1,703.85	8.08	211.928	
700.00	697.47	708.50	708.47	4.31	4.30	-176.42	1,665.39	245.18	1,726.82	1,718.21	8.61	200.582	
800.00	795.62	806.10	806.07	4.64	4.59	-176.47	1,664.98	244.13	1,745.30	1,736.10	9.20	189.660	
900.00	893.06	908.62	908.58	5.00	4.91	-176.52	1,664.29	242.96	1,766.94	1,757.08	9.86	179.212	
1,000.00	989.65	992.91	992.86	5.40	5.19	-176.57	1,663.89	241.83	1,792.15	1,781.65	10.50	170.683	
1,100.00	1,085.85	1,064.70	1,064.62	5.82	5.43	-176.68	1,664.52	239.96	1,819.87	1,808.77	11.10	163.943	
1,200.00	1,182.06	1,139.96	1,139.79	6.27	5.69	-176.82	1,666.27	236.77	1,848.77	1,837.04	11.73	157.603	
1,300.00	1,278.26	1,209.34	1,209.00	6.73	5.93	-177.00	1,668.88	232.69	1,878.86	1,866.51	12.35	152.078	
1,400.00	1,374.47	1,282.89	1,282.22	7.20	6.20	-177.23	1,672.85	227.08	1,910.27	1,897.26	13.01	146.844	
1,500.00	1,470.67	1,361.66	1,360.45	7.69	6.49	-177.52	1,677.95	219.28	1,942.51	1,928.81	13.70	141.787	
1,600.00	1,566.88	1,433.68	1,431.77	8.18	6.77	-177.82	1,683.47	210.99	1,975.74	1,961.37	14.37	137.445	
1,700.00	1,663.08	1,517.21	1,514.35	8.68	7.11	-178.18	1,690.62	200.65	2,009.81	1,994.69	15.12	132.937	
1,800.00	1,759.29	1,608.85	1,604.89	9.19	7.50	-178.58	1,698.76	189.05	2,044.24	2,028.32	15.92	128.414	
1,900.00	1,855.49	1,727.68	1,722.33	9.70	8.02	-179.07	1,708.69	173.92	2,078.28	2,061.40	16.88	123.105	
2,000.00	1,951.70	1,821.55	1,815.19	10.22	8.44	-179.44	1,715.87	162.27	2,111.75	2,094.03	17.73	119.127	
2,100.00	2,047.90	1,943.17	1,935.62	10.73	9.00	-179.89	1,724.17	147.40	2,144.52	2,125.78	18.74	114.443	
2,200.00	2,144.11	2,037.97	2,029.58	11.26	9.44	-179.79	1,729.91	136.18	2,176.68	2,157.07	19.61	111.000	
2,300.00	2,240.31	2,115.22	2,106.12	11.78	9.80	-179.53	1,734.97	127.03	2,209.37	2,188.99	20.38	108.386	
2,400.00	2,336.52	2,191.73	2,181.85	12.31	10.16	-179.27	1,740.59	117.73	2,242.84	2,221.68	21.16	106.006	
2,500.00	2,432.72	2,293.58	2,282.65	12.84	10.65	-178.94	1,748.31	105.40	2,276.60	2,254.51	22.09	103.061	
2,600.00	2,528.93	2,370.05	2,358.37	13.37	11.01	-178.70	1,754.20	96.41	2,310.54	2,287.67	22.87	101.041	
2,700.00	2,625.13	2,467.43	2,454.78	13.91	11.48	-178.41	1,762.05	85.25	2,344.88	2,321.11	23.78	98.617	
2,800.00	2,721.34	2,549.44	2,536.02	14.44	11.88	-178.18	1,768.64	76.12	2,379.27	2,354.68	24.59	96.749	
2,900.00	2,817.54	2,653.70	2,639.27	14.98	12.39	-177.90	1,777.27	64.46	2,413.94	2,388.38	25.55	94.467	
3,000.00	2,913.75	2,754.08	2,738.70	15.52	12.88	-177.63	1,785.00	53.08	2,448.07	2,421.58	26.49	92.399	
3,100.00	3,009.95	2,841.84	2,825.57	16.06	13.32	-177.39	1,791.76	42.68	2,482.25	2,454.89	27.36	90.731	
3,200.00	3,106.16	2,927.98	2,910.78	16.60	13.75	-177.16	1,798.67	32.08	2,516.74	2,488.52	28.22	89.197	
3,300.00	3,202.37	3,039.23	3,020.84	17.14	14.31	-176.86	1,807.50	18.44	2,551.23	2,521.99	29.25	87.236	
3,400.00	3,298.57	3,127.57	3,108.30	17.68	14.75	-176.64	1,814.09	7.99	2,585.30	2,555.18	30.12	85.836	
3,500.00	3,394.78	3,216.85	3,196.66	18.22	15.20	-176.42	1,821.00	-2.79	2,619.67	2,588.66	31.00	84.497	
3,600.00	3,490.98	3,359.14	3,337.55	18.76	15.92	-176.07	1,830.85	-20.07	2,653.32	2,621.07	32.25	82.266	
3,700.00	3,587.19	3,457.20	3,434.79	19.31	16.41	-175.86	1,836.59	-31.31	2,685.99	2,652.79	33.20	80.915	
3,800.00	3,683.39	3,543.26	3,520.26	19.85	16.83	-175.70	1,841.61	-40.11	2,718.69	2,684.64	34.05	79.839	
3,900.00	3,779.60	3,609.93	3,586.46	20.39	17.15	-175.58	1,846.01	-46.69	2,752.11	2,717.34	34.77	79.146	
4,000.00	3,875.80	3,685.10	3,661.04	20.94	17.52	-175.45	1,851.61	-54.18	2,786.36	2,750.81	35.55	78.380	
4,100.00	3,972.01	3,780.29	3,755.48	21.48	17.99	-175.29	1,859.09	-63.57	2,821.01	2,784.55	36.47	77.360	
4,200.00	4,068.21	3,857.60	3,832.19	22.03	18.38	-175.17	1,865.11	-71.07	2,855.65	2,818.40	37.25	76.653	
4,300.00	4,164.42	3,929.07	3,903.07	22.57	18.73	-175.06	1,871.37	-77.73	2,891.16	2,853.17	38.00	76.086	
4,400.00	4,260.62	4,020.97	3,994.14	23.12	19.19	-174.91	1,879.63	-86.84	2,926.92	2,888.03	38.89	75.255	
4,500.00	4,356.83	4,116.00	4,089.81	23.67	19.67	-174.75	1,887.99	-96.41	2,963.34	2,923.23	39.80	74.414	
4,600.00	4,453.03	4,211.96	4,185.26	24.21	20.15	-174.59	1,896.44	-106.48	2,999.82	2,958.61	40.73	73.561	
4,700.00	4,549.24	4,307.93	4,280.85	24.76	20.66	-174.42	1,904.89	-116.95	3,036.34	2,994.93	41.68	72.696	
4,800.00	4,645.44	4,403.90	4,376.46	25.31	21.17	-174.25	1,913.34	-127.42	3,072.86	3,031.21	42.64	71.821	
4,900.00	4,741.65	4,500.00	4,472.11	25.86	21.69	-174.18	1,921.79	-137.89	3,109.38	3,067.63	43.61	70.936	
5,000.00	4,837.85	4,596.00	4,567.11	26.40	22.21	-174.12	1,930.24	-148.36	3,145.89	3,103.14	44.59	70.041	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	9,995.99	7,193.17	26.95	71.82	174.07	-1,184.26	-166.34	2,260.41	2,224.13	36.27	62.314		
5,200.00	5,030.26	10,036.90	7,193.89	27.50	72.62	173.93	-1,225.16	-167.15	2,164.72	2,128.04	36.67	59.028		
5,300.00	5,126.47	10,063.83	7,194.20	28.05	73.15	173.83	-1,252.08	-167.65	2,068.83	2,031.74	37.09	55.781		
5,400.00	5,222.67	10,109.32	7,194.63	28.60	74.04	173.64	-1,297.56	-168.59	1,972.88	1,935.43	37.46	52.672		
5,500.00	5,318.88	10,130.57	7,194.75	29.15	74.45	173.54	-1,318.81	-169.00	1,876.83	1,838.94	37.89	49.534		
5,600.00	5,415.08	10,205.44	7,194.36	29.70	75.93	173.14	-1,393.66	-170.22	1,780.48	1,742.39	38.10	46.738		
5,700.00	5,511.29	10,226.87	7,193.99	30.25	76.35	173.00	-1,415.08	-170.57	1,683.81	1,645.31	38.50	43.730		
5,800.00	5,607.49	10,253.28	7,193.56	30.79	76.87	172.80	-1,441.49	-171.07	1,587.17	1,548.28	38.90	40.807		
5,900.00	5,703.70	10,280.95	7,193.07	31.34	77.42	172.54	-1,469.14	-171.71	1,490.50	1,451.22	39.28	37.947		
6,000.00	5,799.90	10,308.38	7,192.55	31.89	77.96	172.23	-1,496.56	-172.47	1,393.80	1,354.13	39.66	35.141		
6,100.00	5,896.11	10,335.55	7,191.99	32.44	78.50	171.86	-1,523.71	-173.26	1,297.06	1,257.01	40.05	32.387		
6,200.00	5,992.32	10,362.42	7,191.39	32.99	79.03	171.43	-1,550.57	-174.09	1,200.29	1,159.85	40.44	29.683		
6,300.00	6,088.52	10,384.18	7,190.93	33.54	79.46	171.01	-1,572.30	-174.79	1,103.55	1,062.65	40.90	26.981		
6,400.00	6,184.73	10,409.68	7,190.43	34.09	79.97	170.43	-1,597.78	-175.66	1,006.86	965.54	41.32	24.365		
6,500.00	6,280.93	10,435.00	7,189.91	34.64	80.47	169.71	-1,623.08	-176.57	910.15	868.39	41.76	21.795		
6,600.00	6,377.14	10,459.45	7,189.43	35.19	80.96	168.87	-1,647.51	-177.43	813.48	771.25	42.23	19.264		
6,700.00	6,473.34	10,484.74	7,188.95	35.74	81.46	167.76	-1,672.79	-178.37	716.84	674.14	42.70	16.788		
6,800.00	6,569.55	10,508.53	7,188.52	36.29	81.94	166.40	-1,696.55	-179.31	620.26	577.00	43.26	14.338		
6,900.00	6,665.75	10,531.41	7,188.18	36.84	82.39	164.88	-1,719.41	-180.23	523.79	479.86	43.93	11.922		
7,000.00	6,761.11	10,554.91	7,188.01	37.39	82.86	171.06	-1,742.89	-181.02	427.68	383.27	44.41	9.630		
7,100.00	6,853.41	10,579.83	7,187.98	37.89	83.36	-179.87	-1,767.81	-181.72	334.57	289.63	44.94	7.445		
7,200.00	6,940.36	10,606.52	7,188.01	38.34	83.90	-173.24	-1,794.49	-182.51	251.34	200.66	50.67	4.960		
7,300.00	7,019.83	10,631.08	7,188.04	38.74	84.39	-168.99	-1,819.03	-183.37	194.73	118.65	76.08	2.560		
7,353.41	7,058.52	10,643.47	7,188.09	38.93	84.64	-167.09	-1,831.41	-183.82	185.49	89.17	96.32	1.926 CC		
7,400.00	7,089.85	10,653.90	7,188.13	39.10	84.84	-165.43	-1,841.83	-184.19	192.59	81.77	110.82	1.738 ES, SF		
7,500.00	7,148.71	10,673.17	7,188.10	39.42	85.23	-161.91	-1,861.09	-184.82	247.04	123.37	123.67	1.998		
7,600.00	7,194.95	10,688.01	7,188.01	39.71	85.53	-157.34	-1,875.93	-185.24	331.01	206.18	124.83	2.652		
7,700.00	7,227.43	10,698.74	7,187.90	40.01	85.75	-147.33	-1,886.65	-185.51	426.45	302.02	124.42	3.427		
7,800.00	7,245.37	10,705.56	7,187.82	40.37	85.88	-85.11	-1,893.47	-185.66	525.72	401.36	124.36	4.227		
7,900.00	7,248.84	10,708.85	7,187.77	40.87	85.95	-13.64	-1,896.76	-185.73	625.34	500.72	124.62	5.018		
8,000.00	7,248.24	10,711.24	7,187.74	41.62	86.00	-15.61	-1,899.15	-185.78	724.85	599.96	124.89	5.804		
8,100.00	7,247.65	10,713.56	7,187.71	42.66	86.04	-17.48	-1,901.47	-185.82	824.47	699.38	125.09	6.591		
8,200.00	7,247.05	10,715.81	7,187.68	43.96	86.09	-19.26	-1,903.71	-185.87	924.16	798.91	125.25	7.379		
8,300.00	7,246.46	10,717.99	7,187.65	45.46	86.13	-20.95	-1,905.90	-185.91	1,023.91	898.52	125.39	8.166		
8,400.00	7,245.86	10,720.11	7,187.62	47.13	86.18	-22.56	-1,908.02	-185.95	1,123.69	998.19	125.51	8.953		
8,500.00	7,245.27	10,722.17	7,187.59	48.93	86.22	-24.08	-1,910.08	-185.99	1,223.51	1,097.90	125.61	9.740		
8,600.00	7,244.67	10,724.18	7,187.57	50.84	86.26	-25.53	-1,912.08	-186.03	1,323.35	1,197.64	125.71	10.527		
8,700.00	7,244.07	10,726.12	7,187.54	52.85	86.30	-26.90	-1,914.03	-186.06	1,423.21	1,297.41	125.81	11.313		
8,800.00	7,243.48	10,728.02	7,187.52	54.94	86.34	-28.21	-1,915.93	-186.10	1,523.09	1,397.20	125.89	12.098		
8,900.00	7,242.88	10,729.87	7,187.49	57.10	86.37	-29.45	-1,917.77	-186.13	1,622.98	1,497.00	125.97	12.883		
9,000.00	7,242.29	10,731.67	7,187.47	59.32	86.41	-30.62	-1,919.57	-186.16	1,722.88	1,596.82	126.05	13.668		
9,100.00	7,241.69	10,733.42	7,187.45	61.60	86.45	-31.74	-1,921.32	-186.19	1,822.78	1,696.65	126.13	14.452		
9,200.00	7,241.09	10,735.12	7,187.43	63.92	86.48	-32.81	-1,923.03	-186.22	1,922.70	1,796.49	126.21	15.235		
9,300.00	7,240.50	10,736.79	7,187.41	66.29	86.51	-33.82	-1,924.69	-186.24	2,022.62	1,896.34	126.28	16.017		
9,400.00	7,239.90	10,739.00	7,187.38	68.70	86.56	-35.13	-1,926.90	-186.28	2,122.55	1,996.18	126.37	16.797		
9,500.00	7,239.31	10,740.77	7,187.36	71.14	86.59	-36.15	-1,928.67	-186.31	2,222.48	2,096.04	126.44	17.577		
9,600.00	7,238.71	10,743.64	7,187.32	73.61	86.65	-37.75	-1,931.54	-186.35	2,322.42	2,195.87	126.55	18.352		
9,700.00	7,238.11	10,746.60	7,187.28	76.11	86.71	-39.32	-1,934.50	-186.40	2,422.36	2,295.70	126.66	19.125		
9,800.00	7,237.52	10,749.65	7,187.24	78.64	86.77	-40.87	-1,937.55	-186.45	2,522.30	2,395.52	126.77	19.896		
9,900.00	7,236.92	10,752.79	7,187.19	81.19	86.84	-42.39	-1,940.69	-186.51	2,622.24	2,495.35	126.89	20.666		
10,000.00	7,236.33	10,756.03	7,187.14	83.75	86.90	-43.88	-1,943.93	-186.56	2,722.18	2,595.18	127.00	21.434		
10,100.00	7,235.73	10,759.38	7,187.08	86.34	86.97	-45.33	-1,947.27	-186.62	2,822.13	2,695.00	127.13	22.200		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,235.14	10,762.82	7,187.03	88.94	87.04	-46.76	-1,950.72	-186.68	2,922.07	2,794.82	127.25	22.963	
10,300.00	7,234.54	10,766.38	7,186.96	91.56	87.11	-48.15	-1,954.28	-186.75	3,022.02	2,894.64	127.38	23.725	
10,400.00	7,233.94	10,770.06	7,186.89	94.19	87.19	-49.52	-1,957.95	-186.82	3,121.97	2,994.46	127.51	24.484	
10,500.00	7,233.35	10,773.86	7,186.82	96.84	87.26	-50.84	-1,961.75	-186.89	3,221.91	3,094.27	127.65	25.241	
10,600.00	7,232.75	10,775.40	7,186.79	99.50	87.29	-51.36	-1,963.29	-186.92	3,321.86	3,194.14	127.72	26.008	
10,700.00	7,232.16	10,777.91	7,186.74	102.17	87.34	-52.18	-1,965.80	-186.97	3,421.81	3,293.99	127.82	26.770	
10,800.00	7,231.56	10,780.42	7,186.69	104.85	87.40	-52.96	-1,968.31	-187.02	3,521.77	3,393.84	127.93	27.529	
10,900.00	7,230.96	10,782.94	7,186.65	107.53	87.45	-53.72	-1,970.82	-187.07	3,621.72	3,493.69	128.03	28.288	
11,000.00	7,230.37	10,785.45	7,186.60	110.23	87.50	-54.45	-1,973.34	-187.11	3,721.67	3,593.54	128.14	29.045	
11,100.00	7,229.77	10,787.96	7,186.55	112.93	87.55	-55.16	-1,975.85	-187.16	3,821.63	3,693.38	128.24	29.800	
11,200.00	7,229.18	10,790.48	7,186.50	115.65	87.60	-55.84	-1,978.36	-187.21	3,921.58	3,793.23	128.35	30.555	
11,300.00	7,228.58	10,792.99	7,186.45	118.37	87.65	-56.50	-1,980.87	-187.26	4,021.54	3,893.08	128.45	31.307	
11,400.00	7,227.99	10,795.50	7,186.41	121.09	87.70	-57.13	-1,983.39	-187.31	4,121.49	3,992.93	128.56	32.059	
11,500.00	7,227.39	10,798.02	7,186.36	123.82	87.75	-57.74	-1,985.90	-187.35	4,221.45	4,092.78	128.67	32.808	
11,600.00	7,226.79	10,800.53	7,186.31	126.56	87.80	-58.33	-1,988.41	-187.40	4,321.40	4,192.63	128.78	33.557	
11,700.00	7,226.20	10,803.04	7,186.26	129.30	87.85	-58.90	-1,990.92	-187.45	4,421.36	4,292.47	128.89	34.303	
11,800.00	7,225.60	10,805.56	7,186.21	132.05	87.90	-59.45	-1,993.44	-187.50	4,521.32	4,392.32	129.00	35.049	
11,900.00	7,225.01	10,803.00	7,186.26	134.80	87.85	-58.89	-1,990.88	-187.45	4,621.28	4,492.31	128.97	35.832	
12,000.00	7,224.41	10,803.00	7,186.26	137.56	87.85	-58.89	-1,990.88	-187.45	4,721.24	4,592.23	129.01	36.595	
12,100.00	7,223.81	10,808.66	7,186.15	140.32	87.97	-60.11	-1,996.54	-187.56	4,821.20	4,691.99	129.21	37.312	
12,200.00	7,223.22	10,810.00	7,186.13	143.08	87.99	-60.39	-1,997.88	-187.58	4,921.16	4,791.87	129.30	38.061	
12,300.00	7,222.62	10,811.32	7,186.11	145.85	88.02	-60.65	-1,999.20	-187.60	5,021.13	4,891.75	129.38	38.810	
12,400.00	7,222.03	10,812.62	7,186.08	148.62	88.05	-60.91	-2,000.49	-187.63	5,121.09	4,991.63	129.46	39.558	
12,500.00	7,221.43	10,813.89	7,186.06	151.40	88.07	-61.16	-2,001.77	-187.65	5,221.06	5,091.51	129.54	40.304	
12,600.00	7,220.83	10,815.14	7,186.04	154.18	88.10	-61.40	-2,003.02	-187.67	5,321.02	5,191.40	129.62	41.050	
12,700.00	7,220.24	10,816.37	7,186.01	156.96	88.12	-61.63	-2,004.25	-187.69	5,420.99	5,291.28	129.71	41.794	
12,800.00	7,219.64	10,817.58	7,185.99	159.74	88.15	-61.86	-2,005.45	-187.71	5,520.96	5,391.17	129.79	42.538	
12,900.00	7,219.05	10,818.76	7,185.97	162.53	88.17	-62.08	-2,006.64	-187.73	5,620.92	5,491.05	129.87	43.281	
13,000.00	7,218.45	10,819.93	7,185.95	165.32	88.20	-62.29	-2,007.81	-187.75	5,720.89	5,590.94	129.95	44.022	
13,100.00	7,217.86	10,821.08	7,185.93	168.11	88.22	-62.49	-2,008.95	-187.77	5,820.86	5,690.82	130.04	44.763	
13,200.00	7,217.26	10,822.21	7,185.91	170.90	88.24	-62.69	-2,010.08	-187.79	5,920.83	5,790.71	130.12	45.502	
13,300.00	7,216.66	10,823.31	7,185.89	173.70	88.26	-62.88	-2,011.19	-187.81	6,020.80	5,890.59	130.21	46.241	
13,400.00	7,216.07	10,824.41	7,185.88	176.49	88.29	-63.07	-2,012.28	-187.82	6,120.77	5,990.48	130.29	46.978	
13,500.00	7,215.47	10,825.48	7,185.86	179.29	88.31	-63.25	-2,013.35	-187.84	6,220.74	6,090.37	130.37	47.715	
13,600.00	7,214.88	10,826.54	7,185.84	182.09	88.33	-63.43	-2,014.41	-187.86	6,320.71	6,190.26	130.46	48.450	
13,700.00	7,214.28	10,827.57	7,185.82	184.90	88.35	-63.60	-2,015.45	-187.87	6,420.69	6,290.14	130.54	49.184	
13,800.00	7,213.68	10,835.00	7,185.70	187.70	88.50	-64.77	-2,022.87	-187.98	6,520.67	6,389.86	130.81	49.849	
13,900.00	7,213.09	10,835.00	7,185.70	190.51	88.50	-64.77	-2,022.87	-187.98	6,620.64	6,489.77	130.87	50.591	
14,000.00	7,212.49	10,835.00	7,185.70	193.32	88.50	-64.77	-2,022.87	-187.98	6,720.61	6,589.69	130.92	51.332	
14,100.00	7,211.90	10,835.00	7,185.70	196.13	88.50	-64.77	-2,022.87	-187.98	6,820.58	6,689.60	130.98	52.072	
14,200.00	7,211.30	10,835.00	7,185.70	198.94	88.50	-64.77	-2,022.87	-187.98	6,920.56	6,789.51	131.04	52.811	
14,300.00	7,210.71	10,835.00	7,185.70	201.75	88.50	-64.77	-2,022.87	-187.98	7,020.53	6,889.43	131.10	53.549	
14,400.00	7,210.11	10,835.00	7,185.70	204.56	88.50	-64.77	-2,022.87	-187.98	7,120.51	6,989.34	131.16	54.287	
14,500.00	7,209.51	10,835.00	7,185.70	207.38	88.50	-64.77	-2,022.87	-187.98	7,220.48	7,089.26	131.23	55.023	
14,600.00	7,208.92	10,835.00	7,185.70	210.19	88.50	-64.77	-2,022.87	-187.98	7,320.46	7,189.17	131.29	55.758	
14,700.00	7,208.32	10,835.00	7,185.70	213.01	88.50	-64.77	-2,022.87	-187.98	7,420.44	7,289.08	131.35	56.492	
14,800.00	7,207.73	10,835.00	7,185.70	215.83	88.50	-64.77	-2,022.87	-187.98	7,520.42	7,389.00	131.42	57.225	
14,900.00	7,207.13	10,835.00	7,185.70	218.65	88.50	-64.77	-2,022.87	-187.98	7,620.39	7,488.91	131.48	57.958	
15,000.00	7,206.53	10,840.78	7,185.61	221.47	88.62	-65.61	-2,028.65	-188.06	7,720.37	7,588.66	131.71	58.616	
15,100.00	7,205.94	10,841.82	7,185.60	224.29	88.64	-65.76	-2,029.69	-188.07	7,820.35	7,688.54	131.81	59.332	
15,200.00	7,205.34	10,842.84	7,185.58	227.11	88.66	-65.90	-2,030.71	-188.09	7,920.33	7,788.42	131.90	60.047	
15,258.04	7,205.00	10,843.43	7,185.57	228.75	88.67	-65.98	-2,031.30	-188.09	7,978.36	7,846.40	131.96	60.461	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	0.00	3.28	3.28	9.44	1,671.81	277.84	1,694.74					
100.00	100.00	104.08	104.08	3.28	3.29	9.44	1,671.65	278.05	1,694.62	1,688.04	6.57	257.828		
200.00	200.00	212.80	212.79	3.34	3.34	9.46	1,671.07	278.56	1,694.17	1,687.50	6.67	253.837		
227.16	227.16	243.18	243.17	3.36	3.36	-175.29	1,670.79	278.68	1,694.07	1,687.35	6.72	251.925		
300.00	299.98	316.32	316.32	3.44	3.45	-175.30	1,670.14	278.36	1,695.00	1,688.11	6.89	246.123		
400.00	399.84	420.40	420.38	3.59	3.61	-175.33	1,669.17	277.41	1,699.14	1,691.94	7.20	235.962		
500.00	499.45	523.69	523.66	3.79	3.82	-175.33	1,667.75	277.40	1,706.48	1,698.87	7.61	224.202		
600.00	598.70	615.74	615.70	4.03	4.04	-175.33	1,666.62	277.63	1,717.46	1,709.38	8.07	212.698		
700.00	697.47	718.43	718.38	4.31	4.32	-175.33	1,665.42	278.15	1,731.99	1,723.36	8.63	200.675		
800.00	795.62	820.57	820.51	4.64	4.63	-175.32	1,663.87	278.78	1,749.63	1,740.39	9.24	189.278		
900.00	893.06	913.99	913.92	5.00	4.93	-175.32	1,662.53	279.50	1,770.80	1,760.92	9.88	179.302		
1,000.00	989.65	1,004.15	1,004.07	5.40	5.23	-175.30	1,661.38	280.60	1,795.56	1,785.02	10.54	170.370		
1,100.00	1,085.85	1,090.87	1,090.78	5.82	5.52	-175.33	1,660.82	281.48	1,822.31	1,811.11	11.20	162.708		
1,200.00	1,182.06	1,185.56	1,185.46	6.27	5.86	-175.37	1,660.51	282.17	1,849.31	1,837.39	11.91	155.211		
1,300.00	1,278.26	1,283.48	1,283.38	6.73	6.22	-175.42	1,660.19	282.90	1,876.31	1,863.65	12.67	148.136		
1,400.00	1,374.47	1,378.80	1,378.70	7.20	6.57	-175.46	1,659.78	283.45	1,903.20	1,889.77	13.43	141.748		
1,500.00	1,470.67	1,468.11	1,468.01	7.69	6.91	-175.51	1,659.70	284.03	1,930.42	1,916.24	14.17	136.189		
1,600.00	1,566.88	1,564.15	1,564.04	8.18	7.28	-175.55	1,659.72	284.70	1,957.76	1,942.79	14.96	130.848		
1,700.00	1,663.08	1,660.33	1,660.23	8.68	7.65	-175.59	1,659.76	285.49	1,985.13	1,969.37	15.76	125.937		
1,800.00	1,759.29	1,762.57	1,762.46	9.19	8.05	-175.63	1,659.69	286.12	2,012.38	1,995.77	16.60	121.198		
1,900.00	1,855.49	1,857.93	1,857.82	9.70	8.43	-175.67	1,659.30	286.77	2,039.30	2,021.88	17.42	117.075		
2,000.00	1,951.70	1,937.39	1,937.27	10.22	8.73	-175.72	1,659.56	286.50	2,066.79	2,048.63	18.15	113.856		
2,100.00	2,047.90	2,012.00	2,011.87	10.73	9.01	-175.80	1,660.57	285.47	2,095.10	2,076.24	18.86	111.104		
2,200.00	2,144.11	2,084.57	2,084.40	11.26	9.29	-175.89	1,662.41	283.89	2,124.43	2,104.88	19.55	108.645		
2,300.00	2,240.31	2,151.21	2,150.96	11.78	9.54	-175.99	1,665.01	282.09	2,154.97	2,134.75	20.22	106.572		
2,400.00	2,336.52	2,218.79	2,218.42	12.31	9.81	-176.10	1,668.61	280.12	2,186.81	2,165.92	20.89	104.678		
2,500.00	2,432.72	2,297.00	2,296.44	12.84	10.11	-176.21	1,673.51	277.94	2,219.56	2,197.94	21.62	102.669		
2,600.00	2,528.93	2,373.15	2,372.38	13.37	10.42	-176.33	1,678.85	275.92	2,253.05	2,230.71	22.34	100.866		
2,700.00	2,625.13	2,454.05	2,453.01	13.91	10.74	-176.45	1,685.11	273.61	2,287.20	2,264.12	23.08	99.083		
2,800.00	2,721.34	2,532.14	2,530.77	14.44	11.06	-176.58	1,691.67	270.85	2,321.90	2,298.08	23.82	97.493		
2,900.00	2,817.54	2,608.08	2,606.34	14.98	11.37	-176.71	1,698.63	268.17	2,357.31	2,332.77	24.54	96.074		
3,000.00	2,913.75	2,684.61	2,682.44	15.52	11.69	-176.84	1,706.18	265.37	2,393.39	2,368.13	25.26	94.746		
3,100.00	3,009.95	2,754.91	2,752.28	16.06	11.98	-176.96	1,713.74	262.52	2,430.25	2,404.30	25.95	93.664		
3,200.00	3,106.16	2,845.32	2,842.00	16.60	12.37	-177.13	1,724.08	258.37	2,467.70	2,440.93	26.76	92.206		
3,300.00	3,202.37	2,961.72	2,957.55	17.14	12.87	-177.35	1,736.88	252.74	2,504.74	2,476.99	27.75	90.250		
3,400.00	3,298.57	3,055.05	3,050.24	17.68	13.28	-177.52	1,746.67	247.81	2,541.27	2,512.67	28.60	88.862		
3,500.00	3,394.78	3,154.24	3,148.72	18.22	13.72	-177.72	1,757.01	242.06	2,577.71	2,548.22	29.49	87.423		
3,600.00	3,490.98	3,264.24	3,258.02	18.76	14.20	-177.92	1,767.83	236.09	2,613.65	2,583.20	30.45	85.840		
3,700.00	3,587.19	3,347.60	3,340.89	19.31	14.57	-178.05	1,775.92	232.14	2,649.57	2,618.33	31.24	84.826		
3,800.00	3,683.39	3,429.94	3,422.73	19.85	14.94	-178.17	1,784.21	228.39	2,685.86	2,653.84	32.02	83.889		
3,900.00	3,779.60	3,517.15	3,509.39	20.39	15.33	-178.30	1,793.26	224.46	2,722.45	2,689.62	32.83	82.919		
4,000.00	3,875.80	3,612.37	3,604.00	20.94	15.76	-178.44	1,803.20	220.29	2,759.13	2,725.43	33.71	81.860		
4,100.00	3,972.01	3,711.70	3,702.68	21.48	16.22	-178.58	1,813.43	215.50	2,795.66	2,761.05	34.61	80.778		
4,200.00	4,068.21	3,814.22	3,804.53	22.03	16.68	-178.74	1,823.75	210.13	2,831.93	2,796.40	35.54	79.688		
4,300.00	4,164.42	3,883.35	3,873.18	22.57	17.00	-178.84	1,830.87	206.28	2,868.43	2,832.19	36.23	79.163		
4,400.00	4,260.62	3,961.38	3,950.58	23.12	17.37	-178.98	1,839.59	201.36	2,905.65	2,868.66	36.99	78.545		
4,500.00	4,356.83	9,910.21	7,235.89	23.67	68.57	-165.53	-1,024.30	132.28	2,887.75	2,853.05	34.70	83.229		
4,600.00	4,453.03	9,939.26	7,236.00	24.21	69.14	-164.66	-1,053.10	136.04	2,792.42	2,757.23	35.19	79.349		
4,700.00	4,549.24	9,981.56	7,235.92	24.76	69.98	-163.30	-1,095.05	141.49	2,696.97	2,661.22	35.76	75.425		
4,800.00	4,645.44	10,001.47	7,235.86	25.31	70.37	-162.61	-1,114.78	144.16	2,601.61	2,565.35	36.26	71.754		
4,900.00	4,741.65	10,018.05	7,235.87	25.86	70.70	-162.01	-1,131.20	146.44	2,506.43	2,469.65	36.78	68.154		
5,000.00	4,837.85	10,074.55	7,235.59	26.40	71.82	-159.81	-1,187.19	154.02	2,411.14	2,373.69	37.45	64.375		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	4,934.06	10,130.85	7,234.76	26.95	72.94	-157.35	-1,243.01	161.31	2,315.77	2,277.62	38.15	60.694		
5,200.00	5,030.26	10,161.35	7,234.12	27.50	73.55	-155.92	-1,273.32	164.57	2,220.27	2,181.48	38.79	57.233		
5,300.00	5,126.47	10,183.00	7,233.64	28.05	73.98	-154.85	-1,294.87	166.67	2,124.85	2,085.40	39.45	53.866		
5,400.00	5,222.67	10,195.83	7,233.40	28.60	74.24	-154.19	-1,307.64	167.92	2,029.67	1,989.53	40.13	50.575		
5,500.00	5,318.88	10,214.00	7,233.26	29.15	74.60	-153.22	-1,325.70	169.80	1,934.88	1,893.99	40.89	47.319		
5,600.00	5,415.08	10,246.00	7,232.98	29.70	75.24	-151.41	-1,357.55	172.93	1,840.28	1,798.55	41.73	44.095		
5,700.00	5,511.29	10,264.13	7,232.78	30.25	75.61	-150.33	-1,375.61	174.49	1,745.79	1,703.15	42.63	40.951		
5,800.00	5,607.49	10,280.34	7,232.73	30.79	75.93	-149.33	-1,391.77	175.85	1,651.72	1,608.09	43.62	37.865		
5,900.00	5,703.70	10,348.53	7,232.48	31.34	77.29	-144.89	-1,459.88	178.26	1,557.69	1,513.05	44.65	34.889		
6,000.00	5,799.90	10,361.91	7,232.39	31.89	77.56	-143.96	-1,473.26	178.23	1,463.67	1,417.85	45.82	31.942		
6,100.00	5,896.11	10,379.44	7,232.42	32.44	77.91	-142.68	-1,490.79	178.35	1,370.22	1,323.07	47.15	29.060		
6,200.00	5,992.32	10,411.09	7,232.49	32.99	78.54	-140.19	-1,522.44	178.55	1,277.21	1,228.59	48.62	26.267		
6,300.00	6,088.52	10,445.35	7,232.38	33.54	79.23	-137.22	-1,556.70	178.77	1,184.56	1,134.24	50.32	23.540		
6,400.00	6,184.73	10,476.08	7,232.17	34.09	79.84	-134.31	-1,587.42	178.86	1,092.44	1,040.12	52.32	20.879		
6,500.00	6,280.93	10,506.14	7,231.85	34.64	80.45	-131.22	-1,617.49	178.85	1,000.99	946.28	54.71	18.297		
6,600.00	6,377.14	10,528.92	7,231.57	35.19	80.90	-128.68	-1,640.27	178.99	910.62	852.97	57.64	15.798		
6,700.00	6,473.34	10,565.98	7,231.05	35.74	81.65	-124.24	-1,677.32	178.97	821.55	760.36	61.19	13.426		
6,800.00	6,569.55	10,591.17	7,230.68	36.29	82.15	-121.00	-1,702.50	178.60	734.20	668.54	65.66	11.181		
6,900.00	6,665.75	10,610.10	7,230.45	36.84	82.53	-122.31	-1,721.43	178.37	649.68	578.30	71.38	9.101		
7,000.00	6,761.11	10,629.00	7,230.34	37.39	82.91	-142.63	-1,740.33	178.45	575.75	496.06	79.70	7.224		
7,100.00	6,853.41	10,656.99	7,230.17	37.89	83.48	-153.49	-1,768.32	178.72	522.25	431.12	91.13	5.731		
7,200.00	6,940.36	10,679.10	7,229.99	38.34	83.93	-159.45	-1,790.42	178.94	497.36	393.58	103.78	4.793		
7,224.04	6,960.22	10,684.08	7,229.95	38.44	84.03	-160.41	-1,795.41	179.01	496.36	389.74	106.62	4.656 CC, ES		
7,300.00	7,019.83	10,703.28	7,229.78	38.74	84.42	-162.18	-1,814.61	179.24	506.26	391.89	114.36	4.427 SF		
7,400.00	7,089.85	10,725.52	7,229.39	39.10	84.87	-163.33	-1,836.83	179.35	547.16	426.30	120.87	4.527		
7,500.00	7,148.71	10,736.40	7,229.20	39.42	85.09	-164.66	-1,847.72	179.43	613.35	489.64	123.71	4.958		
7,600.00	7,194.95	10,744.51	7,229.10	39.71	85.25	-165.57	-1,855.82	179.55	696.54	571.89	124.66	5.588		
7,700.00	7,227.43	10,753.00	7,229.03	40.01	85.43	-165.63	-1,864.31	179.72	789.84	664.88	124.96	6.321		
7,800.00	7,245.37	10,753.00	7,229.03	40.37	85.43	-169.32	-1,864.31	179.72	888.18	763.26	124.92	7.110		
7,900.00	7,248.84	10,753.00	7,229.03	40.87	85.43	29.60	-1,864.31	179.72	988.09	863.17	124.92	7.910		
8,000.00	7,248.24	10,753.00	7,229.03	41.62	85.43	29.60	-1,864.31	179.72	1,088.05	963.11	124.94	8.708		
8,100.00	7,247.65	10,753.00	7,229.03	42.66	85.43	29.60	-1,864.31	179.72	1,188.02	1,063.06	124.96	9.507		
8,200.00	7,247.05	10,753.00	7,229.03	43.96	85.43	29.60	-1,864.31	179.72	1,287.99	1,163.01	124.98	10.306		
8,300.00	7,246.46	10,753.00	7,229.03	45.46	85.43	29.60	-1,864.31	179.72	1,387.97	1,262.97	125.00	11.104		
8,400.00	7,245.86	10,753.00	7,229.03	47.13	85.43	29.60	-1,864.31	179.72	1,487.94	1,362.93	125.01	11.902		
8,500.00	7,245.27	10,753.00	7,229.03	48.93	85.43	29.60	-1,864.31	179.72	1,587.93	1,462.90	125.03	12.700		
8,600.00	7,244.67	10,753.00	7,229.03	50.84	85.43	29.60	-1,864.31	179.72	1,687.91	1,562.86	125.05	13.498		
8,700.00	7,244.07	10,745.89	7,229.09	52.85	85.28	40.26	-1,857.20	179.57	1,787.86	1,662.98	124.88	14.316		
8,800.00	7,243.48	10,745.36	7,229.09	54.94	85.27	40.94	-1,856.67	179.56	1,887.85	1,762.96	124.89	15.116		
8,900.00	7,242.88	10,744.86	7,229.10	57.10	85.26	41.58	-1,856.18	179.56	1,987.83	1,862.94	124.90	15.916		
9,000.00	7,242.29	10,744.39	7,229.10	59.32	85.25	42.17	-1,855.71	179.55	2,087.82	1,962.91	124.90	16.715		
9,100.00	7,241.69	10,743.95	7,229.11	61.60	85.24	42.71	-1,855.26	179.54	2,187.80	2,062.89	124.91	17.515		
9,200.00	7,241.09	10,743.53	7,229.11	63.92	85.23	43.22	-1,854.84	179.53	2,287.79	2,162.87	124.92	18.314		
9,300.00	7,240.50	10,743.13	7,229.12	66.29	85.23	43.70	-1,854.44	179.53	2,387.78	2,262.85	124.93	19.112		
9,400.00	7,239.90	10,742.75	7,229.12	68.70	85.22	44.14	-1,854.06	179.52	2,487.77	2,362.82	124.95	19.910		
9,500.00	7,239.31	10,742.39	7,229.13	71.14	85.21	44.56	-1,853.70	179.52	2,587.76	2,462.80	124.96	20.708		
9,600.00	7,238.71	10,742.05	7,229.13	73.61	85.20	44.95	-1,853.36	179.51	2,687.75	2,562.77	124.98	21.506		
9,700.00	7,238.11	10,741.72	7,229.13	76.11	85.20	45.32	-1,853.04	179.51	2,787.74	2,662.75	124.99	22.303		
9,800.00	7,237.52	10,741.41	7,229.14	78.64	85.19	45.66	-1,852.72	179.50	2,887.73	2,762.72	125.01	23.100		
9,900.00	7,236.92	10,741.11	7,229.14	81.19	85.19	45.99	-1,852.43	179.50	2,987.73	2,862.69	125.03	23.896		
10,000.00	7,236.33	10,740.83	7,229.15	83.75	85.18	46.30	-1,852.14	179.49	3,087.72	2,962.67	125.05	24.692		
10,100.00	7,235.73	10,740.56	7,229.15	86.34	85.17	46.59	-1,851.87	179.49	3,187.71	3,062.64	125.07	25.487		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,235.14	10,740.30	7,229.15	88.94	85.17	46.87	-1,851.61	179.48	3,287.70	3,162.61	125.10	26.282		
10,300.00	7,234.54	10,740.05	7,229.16	91.56	85.16	47.13	-1,851.36	179.48	3,387.70	3,262.58	125.12	27.076		
10,400.00	7,233.94	10,739.81	7,229.16	94.19	85.16	47.38	-1,851.12	179.48	3,487.69	3,362.55	125.14	27.870		
10,500.00	7,233.35	10,739.58	7,229.16	96.84	85.15	47.62	-1,850.89	179.47	3,587.69	3,462.52	125.17	28.663		
10,600.00	7,232.75	10,739.36	7,229.16	99.50	85.15	47.85	-1,850.67	179.47	3,687.68	3,562.49	125.20	29.455		
10,700.00	7,232.16	10,739.14	7,229.17	102.17	85.15	48.07	-1,850.46	179.47	3,787.68	3,662.45	125.22	30.247		
10,800.00	7,231.56	10,738.94	7,229.17	104.85	85.14	48.27	-1,850.25	179.47	3,887.67	3,762.42	125.25	31.039		
10,900.00	7,230.96	10,738.74	7,229.17	107.53	85.14	48.47	-1,850.06	179.46	3,987.67	3,862.38	125.28	31.829		
11,000.00	7,230.37	10,738.55	7,229.17	110.23	85.13	48.66	-1,849.87	179.46	4,087.66	3,962.35	125.31	32.619		
11,100.00	7,229.77	10,738.37	7,229.18	112.93	85.13	48.84	-1,849.68	179.46	4,187.66	4,062.31	125.35	33.409		
11,200.00	7,229.18	10,738.19	7,229.18	115.65	85.13	49.02	-1,849.51	179.46	4,287.65	4,162.27	125.38	34.197		
11,300.00	7,228.58	10,738.02	7,229.18	118.37	85.12	49.18	-1,849.34	179.45	4,387.65	4,262.24	125.41	34.985		
11,400.00	7,227.99	10,737.85	7,229.18	121.09	85.12	49.34	-1,849.17	179.45	4,487.65	4,362.20	125.45	35.773		
11,500.00	7,227.39	10,737.69	7,229.19	123.82	85.12	49.50	-1,849.01	179.45	4,587.64	4,462.16	125.48	36.559		
11,600.00	7,226.79	10,737.54	7,229.19	126.56	85.11	49.65	-1,848.86	179.45	4,687.64	4,562.12	125.52	37.345		
11,700.00	7,226.20	10,737.39	7,229.19	129.30	85.11	49.79	-1,848.71	179.45	4,787.63	4,662.07	125.56	38.130		
11,800.00	7,225.60	10,737.25	7,229.19	132.05	85.11	49.93	-1,848.56	179.44	4,887.63	4,762.03	125.60	38.915		
11,900.00	7,225.01	10,737.11	7,229.19	134.80	85.10	50.06	-1,848.42	179.44	4,987.63	4,861.99	125.64	39.698		
12,000.00	7,224.41	10,736.97	7,229.20	137.56	85.10	50.19	-1,848.29	179.44	5,087.62	4,961.95	125.68	40.481		
12,100.00	7,223.81	10,736.84	7,229.20	140.32	85.10	50.31	-1,848.15	179.44	5,187.62	5,061.90	125.72	41.263		
12,200.00	7,223.22	10,736.71	7,229.20	143.08	85.10	50.43	-1,848.03	179.44	5,287.62	5,161.85	125.76	42.044		
12,300.00	7,222.62	10,736.58	7,229.20	145.85	85.09	50.54	-1,847.90	179.44	5,387.62	5,261.81	125.81	42.824		
12,400.00	7,222.03	10,736.46	7,229.20	148.62	85.09	50.65	-1,847.78	179.44	5,487.61	5,361.76	125.85	43.604		
12,500.00	7,221.43	10,736.35	7,229.21	151.40	85.09	50.76	-1,847.66	179.43	5,587.61	5,461.71	125.90	44.382		
12,600.00	7,220.83	10,736.23	7,229.21	154.18	85.09	50.87	-1,847.55	179.43	5,687.61	5,561.66	125.94	45.160		
12,700.00	7,220.24	10,736.12	7,229.21	156.96	85.08	50.97	-1,847.44	179.43	5,787.61	5,661.61	125.99	45.937		
12,800.00	7,219.64	10,736.01	7,229.21	159.74	85.08	51.06	-1,847.33	179.43	5,887.60	5,761.56	126.04	46.712		
12,900.00	7,219.05	10,735.91	7,229.21	162.53	85.08	51.16	-1,847.23	179.43	5,987.60	5,861.51	126.09	47.487		
13,000.00	7,218.45	10,735.81	7,229.21	165.32	85.08	51.25	-1,847.12	179.43	6,087.60	5,961.46	126.14	48.261		
13,100.00	7,217.86	10,735.71	7,229.21	168.11	85.08	51.34	-1,847.02	179.43	6,187.60	6,061.41	126.19	49.034		
13,200.00	7,217.26	10,735.61	7,229.22	170.90	85.07	51.43	-1,846.93	179.43	6,287.59	6,161.35	126.24	49.806		
13,300.00	7,216.66	10,735.52	7,229.22	173.70	85.07	51.51	-1,846.83	179.42	6,387.59	6,261.30	126.29	50.577		
13,400.00	7,216.07	10,735.42	7,229.22	176.49	85.07	51.59	-1,846.74	179.42	6,487.59	6,361.24	126.35	51.347		
13,500.00	7,215.47	10,735.33	7,229.22	179.29	85.07	51.67	-1,846.65	179.42	6,587.59	6,461.19	126.40	52.116		
13,600.00	7,214.88	10,735.25	7,229.22	182.09	85.07	51.75	-1,846.56	179.42	6,687.59	6,561.13	126.46	52.884		
13,700.00	7,214.28	10,735.16	7,229.22	184.90	85.06	51.82	-1,846.48	179.42	6,787.58	6,661.07	126.51	53.651		
13,800.00	7,213.68	10,735.08	7,229.22	187.70	85.06	51.90	-1,846.39	179.42	6,887.58	6,761.01	126.57	54.417		
13,900.00	7,213.09	10,735.00	7,229.23	190.51	85.06	51.97	-1,846.31	179.42	6,987.58	6,860.95	126.63	55.182		
14,000.00	7,212.49	10,734.92	7,229.23	193.32	85.06	52.04	-1,846.23	179.42	7,087.58	6,960.89	126.69	55.946		
14,100.00	7,211.90	10,734.84	7,229.23	196.13	85.06	52.10	-1,846.16	179.42	7,187.58	7,060.83	126.75	56.709		
14,200.00	7,211.30	10,734.76	7,229.23	198.94	85.06	52.17	-1,846.08	179.42	7,287.58	7,160.77	126.81	57.471		
14,300.00	7,210.71	10,734.69	7,229.23	201.75	85.05	52.23	-1,846.01	179.42	7,387.57	7,260.71	126.87	58.231		
14,400.00	7,210.11	10,734.62	7,229.23	204.56	85.05	52.29	-1,845.93	179.42	7,487.57	7,360.64	126.93	58.991		
14,500.00	7,209.51	10,734.55	7,229.23	207.38	85.05	52.35	-1,845.86	179.41	7,587.57	7,460.58	126.99	59.749		
14,600.00	7,208.92	10,722.00	7,229.46	210.19	84.80	61.01	-1,833.32	179.34	7,687.63	7,560.88	126.75	60.651		
14,700.00	7,208.32	10,722.00	7,229.46	213.01	84.80	61.01	-1,833.32	179.34	7,787.63	7,660.81	126.82	61.408		
14,800.00	7,207.73	10,722.00	7,229.46	215.83	84.80	61.01	-1,833.32	179.34	7,887.63	7,760.74	126.88	62.164		
14,900.00	7,207.13	10,722.00	7,229.46	218.65	84.80	61.01	-1,833.32	179.34	7,987.63	7,860.67	126.95	62.919		
15,000.00	7,206.53	10,722.00	7,229.46	221.47	84.80	61.01	-1,833.32	179.34	8,087.62	7,960.60	127.02	63.672		
15,100.00	7,205.94	10,722.00	7,229.46	224.29	84.80	61.01	-1,833.32	179.34	8,187.62	8,060.53	127.09	64.424		
15,200.00	7,205.34	10,722.00	7,229.46	227.11	84.80	61.01	-1,833.32	179.34	8,287.62	8,160.46	127.16	65.175		
15,258.04	7,205.00	10,722.00	7,229.46	228.75	84.80	61.01	-1,833.32	179.34	8,345.66	8,218.46	127.20	65.611		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	0.00	3.28	3.28	10.38	1,667.44	305.38	1,695.17				
100.00	100.00	78.09	78.09	3.28	3.29	10.40	1,667.84	305.99	1,695.82	1,689.25	6.57	258.116	
200.00	200.00	160.42	160.38	3.34	3.30	10.45	1,669.11	307.93	1,697.74	1,691.10	6.64	255.573	
300.00	299.98	280.46	280.35	3.44	3.41	-174.19	1,670.75	311.55	1,701.40	1,694.56	6.85	248.484	
400.00	399.84	373.36	373.21	3.59	3.54	-174.10	1,671.02	314.32	1,707.47	1,700.34	7.13	239.407	
500.00	499.45	464.84	464.66	3.79	3.71	-174.09	1,673.05	315.21	1,718.45	1,710.95	7.50	229.130	
600.00	598.70	591.28	591.10	4.03	3.99	-174.13	1,674.36	315.16	1,731.51	1,723.49	8.02	215.877	
700.00	697.47	679.20	679.01	4.31	4.22	-174.13	1,674.88	315.49	1,747.73	1,739.20	8.53	204.924	
800.00	795.62	767.54	767.34	4.64	4.47	-174.13	1,675.97	316.19	1,768.04	1,758.95	9.09	194.505	
900.00	893.06	876.64	876.43	5.00	4.81	-174.15	1,677.36	317.01	1,791.79	1,782.03	9.76	183.566	
1,000.00	989.65	971.01	970.79	5.40	5.12	-174.17	1,678.22	317.57	1,818.51	1,808.07	10.43	174.304	
1,100.00	1,085.85	1,052.99	1,052.77	5.82	5.40	-174.23	1,679.33	317.99	1,847.02	1,835.95	11.07	166.811	
1,200.00	1,182.06	1,146.36	1,146.12	6.27	5.73	-174.31	1,681.02	318.52	1,876.00	1,864.22	11.78	159.273	
1,300.00	1,278.26	1,254.02	1,253.77	6.73	6.12	-174.41	1,682.83	318.36	1,904.72	1,892.16	12.56	151.633	
1,400.00	1,374.47	1,344.89	1,344.62	7.20	6.45	-174.52	1,684.27	317.69	1,933.27	1,919.97	13.30	145.411	
1,500.00	1,470.67	1,444.69	1,444.40	7.69	6.82	-174.63	1,685.88	316.83	1,961.83	1,947.75	14.08	139.310	
1,600.00	1,566.88	1,515.76	1,515.46	8.18	7.10	-174.68	1,687.26	317.14	1,990.91	1,976.15	14.76	134.887	
1,700.00	1,663.08	1,584.98	1,584.62	8.68	7.37	-174.69	1,689.20	318.99	2,021.17	2,005.73	15.44	130.946	
1,800.00	1,759.29	1,656.80	1,656.32	9.19	7.65	-174.66	1,691.94	322.24	2,052.67	2,036.54	16.13	127.280	
1,900.00	1,855.49	1,735.76	1,735.04	9.70	7.97	-174.59	1,695.34	327.37	2,084.97	2,068.11	16.86	123.671	
2,000.00	1,951.70	1,803.28	1,802.25	10.22	8.25	-174.50	1,698.77	332.83	2,118.26	2,100.73	17.54	120.789	
2,100.00	2,047.90	1,868.94	1,867.51	10.73	8.53	-174.41	1,702.85	338.74	2,152.77	2,134.57	18.21	118.245	
2,200.00	2,144.11	1,938.78	1,936.86	11.26	8.83	-174.31	1,708.13	345.08	2,188.51	2,169.61	18.90	115.803	
2,300.00	2,240.31	2,023.21	2,020.63	11.78	9.19	-174.19	1,714.96	353.09	2,224.84	2,205.17	19.68	113.070	
2,400.00	2,336.52	2,105.20	2,102.01	12.31	9.55	-174.10	1,722.12	360.05	2,261.60	2,241.16	20.44	110.624	
2,500.00	2,432.72	2,199.53	2,195.64	12.84	9.97	-174.01	1,730.62	367.74	2,298.57	2,277.28	21.29	107.972	
2,600.00	2,528.93	2,300.71	2,295.99	13.37	10.43	-173.87	1,739.27	377.35	2,335.36	2,313.18	22.18	105.277	
2,700.00	2,625.13	2,425.85	2,420.20	13.91	11.00	-173.71	1,748.55	389.40	2,371.06	2,347.83	23.23	102.064	
2,800.00	2,721.34	2,510.96	2,504.74	14.44	11.38	-173.61	1,754.69	397.08	2,406.56	2,382.52	24.04	100.115	
2,900.00	2,817.54	2,590.53	2,583.74	14.98	11.75	-173.52	1,760.79	404.38	2,442.50	2,417.69	24.81	98.440	
3,000.00	2,913.75	2,663.50	2,656.12	15.52	12.09	-173.43	1,766.84	411.36	2,479.10	2,453.55	25.55	97.048	
3,100.00	3,009.95	2,766.98	2,758.70	16.06	12.58	-173.30	1,775.63	421.82	2,516.00	2,489.52	26.48	95.017	
3,200.00	3,106.16	2,911.24	2,901.73	16.60	13.26	-173.08	1,785.28	437.90	2,551.31	2,523.63	27.69	92.151	
3,300.00	3,202.37	3,010.87	3,000.64	17.14	13.73	-172.94	1,791.25	448.16	2,585.97	2,557.36	28.60	90.406	
3,400.00	3,298.57	3,100.43	3,089.71	17.68	14.15	-172.86	1,796.79	455.77	2,620.46	2,591.01	29.46	88.963	
3,500.00	3,394.78	3,177.55	3,166.32	18.22	14.51	-172.78	1,801.80	463.00	2,655.43	2,625.20	30.23	87.849	
3,600.00	3,490.98	3,260.35	3,248.51	18.76	14.90	-172.69	1,807.66	471.28	2,691.02	2,659.98	31.04	86.700	
3,700.00	3,587.19	3,385.77	3,373.19	19.31	15.50	-172.59	1,815.83	482.10	2,725.76	2,693.63	32.13	84.831	
3,800.00	3,683.39	3,473.35	3,460.28	19.85	15.91	-172.52	1,821.42	489.49	2,760.44	2,727.47	32.97	83.715	
3,900.00	3,779.60	3,559.82	3,546.21	20.39	16.32	-172.45	1,827.00	497.23	2,795.30	2,761.49	33.81	82.675	
4,000.00	3,875.80	3,643.28	3,629.16	20.94	16.72	-172.38	1,832.77	504.54	2,830.53	2,795.90	34.63	81.741	
4,100.00	3,972.01	3,744.19	3,729.99	21.48	17.20	-172.29	1,839.58	514.06	2,865.76	2,830.20	35.57	80.573	
4,200.00	4,068.21	3,833.43	3,817.97	22.03	17.63	-172.20	1,845.29	523.12	2,900.82	2,864.39	36.43	79.626	
4,300.00	4,164.42	3,893.28	3,877.30	22.57	17.92	-172.13	1,849.44	529.90	2,936.63	2,899.54	37.09	79.178	
4,400.00	4,260.62	3,920.80	3,904.01	23.12	18.27	-172.06	1,853.00	536.00	2,968.00	2,929.00	37.79	78.729	
4,500.00	4,356.83	3,999.00	3,981.00	23.67	18.57	-172.00	1,856.00	541.50	2,999.00	2,959.00	38.44	78.280	
4,600.00	4,453.03	4,077.20	4,058.00	24.21	18.87	-171.93	1,858.50	546.50	3,029.50	2,989.50	39.04	77.831	
4,700.00	4,549.24	4,154.40	4,134.00	24.76	19.17	-171.86	1,860.50	551.00	3,059.00	3,019.00	39.59	77.382	
4,800.00	4,645.44	4,231.60	4,210.00	25.31	19.47	-171.79	1,862.00	555.00	3,088.00	3,048.00	40.09	76.933	
4,900.00	4,741.65	4,308.80	4,286.00	25.86	19.77	-171.72	1,863.00	558.50	3,116.50	3,076.50	40.54	76.484	
5,000.00	4,837.85	4,386.00	4,362.00	26.40	20.07	-171.65	1,863.50	561.50	3,144.00	3,104.00	40.94	76.035	
5,100.00	4,934.06	4,463.20	4,438.00	26.95	20.37	-171.58	1,863.50	564.00	3,171.00	3,131.00	41.29	75.586	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	10,077.31	7,118.16	27.50	73.71	-127.54	-1,307.85	644.06	2,218.61	2,170.62	47.98	46.237		
5,300.00	5,126.47	10,085.01	7,118.13	28.05	73.86	-127.17	-1,315.54	643.67	2,128.54	2,079.19	49.34	43.139		
5,400.00	5,222.67	10,096.00	7,118.22	28.60	74.07	-126.64	-1,326.52	643.12	2,039.29	1,988.45	50.84	40.114		
5,500.00	5,318.88	10,111.20	7,118.44	29.15	74.37	-125.90	-1,341.70	642.40	1,950.90	1,898.42	52.49	37.170		
5,600.00	5,415.08	10,136.24	7,118.86	29.70	74.86	-124.65	-1,366.70	641.24	1,863.36	1,809.04	54.32	34.306		
5,700.00	5,511.29	10,169.76	7,119.40	30.25	75.52	-122.92	-1,400.19	639.71	1,776.65	1,720.30	56.34	31.533		
5,800.00	5,607.49	10,205.07	7,119.91	30.79	76.21	-121.04	-1,435.45	637.91	1,690.79	1,632.23	58.56	28.870		
5,900.00	5,703.70	10,234.18	7,120.31	31.34	76.78	-119.43	-1,464.51	636.31	1,606.01	1,545.01	60.99	26.330		
6,000.00	5,799.90	10,262.47	7,120.66	31.89	77.33	-117.82	-1,492.76	634.88	1,522.56	1,458.87	63.68	23.908		
6,100.00	5,896.11	10,298.33	7,120.95	32.44	78.04	-115.71	-1,528.57	633.13	1,440.57	1,373.89	66.68	21.603		
6,200.00	5,992.32	10,331.90	7,121.08	32.99	78.70	-113.67	-1,562.11	631.39	1,360.27	1,290.27	70.00	19.432		
6,300.00	6,088.52	10,385.53	7,120.81	33.54	79.75	-110.28	-1,615.64	628.41	1,281.97	1,208.24	73.73	17.387		
6,400.00	6,184.73	10,412.66	7,120.30	34.09	80.29	-108.50	-1,642.73	626.84	1,205.88	1,128.06	77.82	15.496		
6,500.00	6,280.93	10,435.88	7,119.74	34.64	80.75	-106.95	-1,665.91	625.60	1,132.92	1,050.59	82.33	13.761		
6,600.00	6,377.14	10,466.49	7,118.90	35.19	81.36	-104.87	-1,696.46	624.05	1,063.77	976.46	87.31	12.184		
6,700.00	6,473.34	10,499.07	7,117.87	35.74	82.00	-102.62	-1,728.98	622.17	999.05	906.34	92.70	10.777		
6,800.00	6,569.55	10,522.07	7,117.10	36.29	82.46	-101.01	-1,751.91	620.73	939.78	841.39	98.39	9.551		
6,900.00	6,665.75	10,544.21	7,116.30	36.84	82.90	-104.03	-1,774.01	619.51	887.46	783.21	104.25	8.512		
7,000.00	6,761.11	10,587.26	7,114.67	37.39	83.75	-127.06	-1,816.93	616.48	852.12	741.82	110.30	7.726		
7,088.17	6,842.72	10,613.62	7,113.66	37.83	84.27	-139.53	-1,843.18	614.33	841.83	726.68	115.15	7.311 CC		
7,100.00	6,853.41	10,617.55	7,113.52	37.89	84.35	-140.69	-1,847.09	613.99	842.02	726.27	115.74	7.275 ES		
7,200.00	6,940.36	10,644.58	7,112.56	38.34	84.88	-147.76	-1,873.99	611.57	858.29	738.37	119.92	7.157 SF		
7,300.00	7,019.83	10,663.83	7,111.93	38.74	85.26	-151.55	-1,893.16	609.91	899.40	776.83	122.56	7.338		
7,400.00	7,089.85	10,681.20	7,111.41	39.10	85.61	-152.99	-1,910.47	608.52	961.35	837.36	123.99	7.753		
7,500.00	7,148.71	10,696.71	7,111.00	39.42	85.91	-152.40	-1,925.93	607.38	1,039.18	914.51	124.66	8.336		
7,600.00	7,194.95	10,728.04	7,110.35	39.71	86.54	-146.79	-1,957.16	605.03	1,127.87	1,002.65	125.23	9.007		
7,700.00	7,227.43	10,751.96	7,109.98	40.01	87.01	-133.25	-1,981.00	603.02	1,223.12	1,097.48	125.64	9.735		
7,800.00	7,245.37	10,770.10	7,109.73	40.37	87.37	-90.62	-1,999.07	601.42	1,321.65	1,195.63	126.02	10.488		
7,900.00	7,248.84	10,782.68	7,109.55	40.87	87.62	-42.46	-2,011.59	600.28	1,420.80	1,294.42	126.37	11.243		
8,000.00	7,248.24	10,794.30	7,109.39	41.62	87.85	-44.78	-2,023.16	599.21	1,519.83	1,393.10	126.72	11.993		
8,100.00	7,247.65	10,802.97	7,109.29	42.66	88.02	-46.40	-2,031.79	598.42	1,618.92	1,491.90	127.02	12.746		
8,200.00	7,247.05	10,811.55	7,109.21	43.96	88.19	-47.91	-2,040.33	597.64	1,718.06	1,590.76	127.31	13.496		
8,300.00	7,246.46	10,819.95	7,109.16	45.46	88.36	-49.32	-2,048.71	596.88	1,817.25	1,689.67	127.58	14.244		
8,400.00	7,245.86	10,828.55	7,109.14	47.13	88.53	-50.68	-2,057.26	596.11	1,916.49	1,788.63	127.86	14.989		
8,500.00	7,245.27	10,838.02	7,109.12	48.93	88.72	-52.10	-2,066.70	595.27	2,015.76	1,887.61	128.15	15.729		
8,600.00	7,244.67	10,847.49	7,109.11	50.84	88.91	-53.43	-2,076.13	594.43	2,115.05	1,986.61	128.44	16.467		
8,700.00	7,244.07	10,856.96	7,109.09	52.85	89.09	-54.69	-2,085.56	593.59	2,214.37	2,085.64	128.73	17.201		
8,800.00	7,243.48	10,871.98	7,109.06	54.94	89.39	-56.53	-2,100.52	592.24	2,313.70	2,184.56	129.14	17.917		
8,900.00	7,242.88	10,887.83	7,109.01	57.10	89.71	-58.29	-2,116.30	590.77	2,413.02	2,283.46	129.56	18.624		
9,000.00	7,242.29	10,895.51	7,108.98	59.32	89.86	-59.08	-2,123.95	590.05	2,512.34	2,382.52	129.82	19.352		
9,100.00	7,241.69	10,902.37	7,108.95	61.60	90.00	-59.76	-2,130.78	589.41	2,611.70	2,481.64	130.06	20.081		
9,200.00	7,241.09	10,909.07	7,108.91	63.92	90.13	-60.40	-2,137.46	588.80	2,711.07	2,580.77	130.30	20.807		
9,300.00	7,240.50	10,915.63	7,108.87	66.29	90.26	-61.00	-2,143.99	588.21	2,810.47	2,679.94	130.53	21.531		
9,400.00	7,239.90	10,922.21	7,108.83	68.70	90.39	-61.57	-2,150.54	587.62	2,909.88	2,779.12	130.76	22.253		
9,500.00	7,239.31	10,929.45	7,108.79	71.14	90.54	-62.19	-2,157.75	586.98	3,009.32	2,878.31	131.01	22.970		
9,600.00	7,238.71	10,936.57	7,108.75	73.61	90.68	-62.77	-2,164.84	586.36	3,108.76	2,977.51	131.25	23.685		
9,700.00	7,238.11	10,943.57	7,108.72	76.11	90.82	-63.32	-2,171.82	585.75	3,208.22	3,076.73	131.50	24.398		
9,800.00	7,237.52	10,950.46	7,108.70	78.64	90.96	-63.84	-2,178.68	585.16	3,307.70	3,175.96	131.74	25.108		
9,900.00	7,236.92	10,957.32	7,108.69	81.19	91.09	-64.34	-2,185.52	584.57	3,407.19	3,275.21	131.98	25.816		
10,000.00	7,236.33	10,964.13	7,108.70	83.75	91.23	-64.82	-2,192.30	584.00	3,506.68	3,374.46	132.22	26.522		
10,100.00	7,235.73	10,970.82	7,108.73	86.34	91.36	-65.29	-2,198.97	583.44	3,606.19	3,473.73	132.46	27.225		
10,200.00	7,235.14	10,977.41	7,108.77	88.94	91.50	-65.73	-2,205.53	582.89	3,705.71	3,573.02	132.69	27.927		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	10,985.00	7,108.84	91.56	91.65	-66.22	-2,213.10	582.26	3,805.24	3,672.29	132.96	28.620		
10,400.00	7,233.94	10,985.00	7,108.84	94.19	91.65	-66.22	-2,213.10	582.26	3,904.79	3,771.76	133.03	29.353		
10,500.00	7,233.35	10,992.88	7,108.94	96.84	91.81	-66.72	-2,220.96	581.63	4,004.34	3,871.04	133.30	30.040		
10,600.00	7,232.75	10,997.04	7,109.00	99.50	91.89	-66.98	-2,225.10	581.30	4,103.90	3,970.43	133.48	30.746		
10,700.00	7,232.16	11,001.09	7,109.07	102.17	91.97	-67.22	-2,229.13	580.98	4,203.48	4,069.83	133.65	31.451		
10,800.00	7,231.56	11,005.03	7,109.15	104.85	92.05	-67.46	-2,233.06	580.68	4,303.07	4,169.25	133.82	32.155		
10,900.00	7,230.96	11,008.86	7,109.23	107.53	92.13	-67.69	-2,236.89	580.39	4,402.68	4,268.69	133.99	32.858		
11,000.00	7,230.37	11,017.00	7,109.42	110.23	92.29	-68.16	-2,245.00	579.78	4,502.30	4,368.02	134.27	33.531		
11,100.00	7,229.77	11,017.00	7,109.42	112.93	92.29	-68.16	-2,245.00	579.78	4,601.91	4,467.58	134.34	34.256		
11,200.00	7,229.18	11,017.00	7,109.42	115.65	92.29	-68.16	-2,245.00	579.78	4,701.55	4,567.14	134.41	34.980		
11,300.00	7,228.58	11,017.00	7,109.42	118.37	92.29	-68.16	-2,245.00	579.78	4,801.20	4,666.73	134.47	35.704		
11,400.00	7,227.99	11,026.44	7,109.69	121.09	92.48	-68.69	-2,254.41	579.10	4,900.84	4,766.05	134.79	36.359		
11,500.00	7,227.39	11,029.67	7,109.79	123.82	92.55	-68.87	-2,257.63	578.88	5,000.50	4,865.56	134.95	37.056		
11,600.00	7,226.79	11,032.82	7,109.89	126.56	92.61	-69.04	-2,260.77	578.66	5,100.17	4,965.08	135.10	37.752		
11,700.00	7,226.20	11,035.90	7,109.99	129.30	92.67	-69.20	-2,263.84	578.45	5,199.85	5,064.61	135.25	38.447		
11,800.00	7,225.60	11,038.91	7,110.09	132.05	92.73	-69.36	-2,266.84	578.25	5,299.54	5,164.14	135.40	39.141		
11,900.00	7,225.01	11,048.00	7,110.43	134.80	92.92	-69.83	-2,275.91	577.65	5,399.24	5,263.53	135.71	39.784		
12,000.00	7,224.41	11,048.00	7,110.43	137.56	92.92	-69.83	-2,275.91	577.65	5,498.94	5,363.16	135.78	40.499		
12,100.00	7,223.81	11,048.00	7,110.43	140.32	92.92	-69.83	-2,275.91	577.65	5,598.64	5,462.80	135.84	41.214		
12,200.00	7,223.22	11,053.86	7,110.65	143.08	93.03	-70.13	-2,281.75	577.27	5,698.35	5,562.28	136.07	41.877		
12,300.00	7,222.62	11,060.95	7,110.93	145.85	93.18	-70.48	-2,288.82	576.81	5,798.07	5,661.73	136.34	42.527		
12,400.00	7,222.03	11,068.04	7,111.22	148.62	93.32	-70.82	-2,295.89	576.36	5,897.78	5,761.18	136.61	43.174		
12,500.00	7,221.43	11,075.13	7,111.51	151.40	93.47	-71.15	-2,302.96	575.90	5,997.50	5,860.63	136.87	43.817		
12,600.00	7,220.83	11,082.22	7,111.80	154.18	93.61	-71.47	-2,310.03	575.44	6,097.22	5,960.08	137.14	44.458		
12,700.00	7,220.24	11,080.00	7,111.71	156.96	93.56	-71.37	-2,307.82	575.58	6,196.95	6,059.80	137.15	45.184		
12,800.00	7,219.64	11,080.00	7,111.71	159.74	93.56	-71.37	-2,307.82	575.58	6,296.68	6,159.47	137.22	45.889		
12,900.00	7,219.05	11,089.64	7,112.11	162.53	93.76	-71.80	-2,317.43	574.97	6,396.41	6,258.84	137.56	46.499		
13,000.00	7,218.45	11,092.44	7,112.22	165.32	93.82	-71.92	-2,320.22	574.80	6,496.14	6,358.43	137.71	47.173		
13,100.00	7,217.86	11,095.19	7,112.33	168.11	93.87	-72.04	-2,322.97	574.63	6,595.89	6,458.03	137.86	47.846		
13,200.00	7,217.26	11,097.89	7,112.44	170.90	93.93	-72.15	-2,325.66	574.47	6,695.64	6,557.63	138.00	48.517		
13,300.00	7,216.66	11,100.55	7,112.55	173.70	93.98	-72.26	-2,328.31	574.31	6,795.39	6,657.24	138.15	49.188		
13,400.00	7,216.07	11,103.16	7,112.65	176.49	94.03	-72.37	-2,330.91	574.15	6,895.15	6,756.85	138.30	49.858		
13,500.00	7,215.47	11,112.00	7,112.99	179.29	94.21	-72.72	-2,339.73	573.63	6,994.92	6,856.29	138.63	50.459		
13,600.00	7,214.88	11,112.00	7,112.99	182.09	94.21	-72.72	-2,339.73	573.63	7,094.68	6,955.99	138.70	51.153		
13,700.00	7,214.28	11,112.00	7,112.99	184.90	94.21	-72.72	-2,339.73	573.63	7,194.45	7,055.69	138.77	51.846		
13,800.00	7,213.68	11,115.04	7,113.11	187.70	94.27	-72.84	-2,342.77	573.46	7,294.23	7,155.30	138.93	52.505		
13,900.00	7,213.09	11,121.42	7,113.36	190.51	94.40	-73.09	-2,349.13	573.09	7,394.00	7,254.82	139.19	53.123		
14,000.00	7,212.49	11,127.80	7,113.61	193.32	94.53	-73.33	-2,355.50	572.72	7,493.78	7,354.33	139.45	53.739		
14,100.00	7,211.90	14,100.00	7,114.93	196.13	155.06	-74.47	-2,388.12	570.78	7,593.54	7,393.12	200.42	37.889		
14,200.00	7,211.30	11,193.16	7,116.10	198.94	95.86	-75.48	-2,420.69	568.73	7,693.28	7,551.71	141.57	54.343		
14,300.00	7,210.71	11,199.96	7,116.30	201.75	96.00	-75.67	-2,427.47	568.29	7,793.01	7,651.16	141.85	54.938		
14,400.00	7,210.11	11,206.76	7,116.49	204.56	96.14	-75.85	-2,434.25	567.85	7,892.75	7,750.61	142.13	55.530		
14,500.00	7,209.51	11,206.00	7,116.47	207.38	96.12	-75.83	-2,433.49	567.90	7,992.49	7,850.30	142.19	56.211		
14,600.00	7,208.92	11,206.00	7,116.47	210.19	96.12	-75.83	-2,433.49	567.90	8,092.23	7,949.97	142.26	56.883		
14,700.00	7,208.32	11,206.00	7,116.47	213.01	96.12	-75.83	-2,433.49	567.90	8,191.98	8,049.64	142.34	57.553		
14,800.00	7,207.73	11,206.00	7,116.47	215.83	96.12	-75.83	-2,433.49	567.90	8,291.74	8,149.33	142.41	58.223		
14,900.00	7,207.13	11,206.00	7,116.47	218.65	96.12	-75.83	-2,433.49	567.90	8,391.50	8,249.01	142.49	58.892		
15,000.00	7,206.53	11,206.00	7,116.47	221.47	96.12	-75.83	-2,433.49	567.90	8,491.27	8,348.70	142.57	59.560		
15,100.00	7,205.94	11,206.00	7,116.47	224.29	96.12	-75.83	-2,433.49	567.90	8,591.04	8,448.40	142.64	60.228		
15,200.00	7,205.34	11,206.00	7,116.47	227.11	96.12	-75.83	-2,433.49	567.90	8,690.82	8,548.10	142.72	60.895		
15,258.04	7,205.00	11,206.00	7,116.47	228.75	96.12	-75.83	-2,433.49	567.90	8,748.74	8,605.98	142.76	61.281		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	13.14	3.14	3.28	3.28	45.55	1,663.84	1,695.98	2,375.86					
100.00	100.00	144.56	134.55	3.28	3.30	45.53	1,663.74	1,694.62	2,375.07	2,368.49	6.58	361.064		
200.00	200.00	256.63	246.58	3.34	3.37	45.47	1,663.99	1,691.68	2,373.35	2,366.64	6.71	353.755		
277.35	277.34	343.38	333.27	3.41	3.48	-139.38	1,664.74	1,688.31	2,372.47	2,365.58	6.89	344.204		
300.00	299.98	358.11	347.97	3.44	3.50	-139.40	1,664.94	1,687.70	2,372.54	2,365.60	6.94	341.780		
400.00	399.84	444.97	434.74	3.59	3.66	-139.54	1,666.67	1,683.95	2,374.84	2,367.60	7.24	327.824		
500.00	499.45	542.51	532.14	3.79	3.87	-139.72	1,669.12	1,679.52	2,380.05	2,372.39	7.65	310.935		
600.00	598.70	636.68	626.15	4.03	4.11	-139.92	1,672.15	1,674.79	2,388.14	2,380.00	8.14	293.500		
700.00	697.47	728.59	717.87	4.31	4.38	-140.15	1,675.64	1,669.87	2,399.15	2,390.47	8.68	276.377		
800.00	795.62	823.09	812.12	4.64	4.67	-140.40	1,679.89	1,664.58	2,413.28	2,403.99	9.29	259.732		
900.00	893.06	920.27	909.04	5.00	5.00	-140.69	1,684.17	1,658.92	2,430.02	2,420.06	9.96	243.914		
1,000.00	989.65	999.92	988.48	5.40	5.28	-140.90	1,687.95	1,654.52	2,450.04	2,439.42	10.62	230.701		
1,100.00	1,085.85	1,244.52	1,230.52	5.82	6.28	-142.66	1,706.77	1,626.05	2,470.77	2,458.76	12.01	205.730		
1,200.00	1,182.06	1,365.25	1,348.99	6.27	6.85	-143.62	1,715.50	1,604.51	2,486.51	2,473.53	12.98	191.580		
1,300.00	1,278.26	1,458.45	1,440.36	6.73	7.31	-144.36	1,722.06	1,587.35	2,502.24	2,488.38	13.85	180.639		
1,400.00	1,374.47	1,400.00	1,566.33	7.20	7.01	-145.37	1,730.85	1,563.39	2,518.26	2,504.27	14.00	179.913		
1,500.00	1,470.67	1,747.96	1,723.94	7.69	8.83	-146.59	1,737.69	1,531.48	2,531.80	2,515.59	16.20	156.258		
1,600.00	1,566.88	1,844.11	1,818.14	8.18	9.34	-147.29	1,740.24	1,512.38	2,544.78	2,527.63	17.15	148.378		
1,700.00	1,663.08	1,905.29	1,878.21	8.68	9.67	-147.72	1,741.98	1,500.92	2,558.96	2,541.04	17.92	142.774		
1,800.00	1,759.29	1,972.31	1,944.17	9.19	10.03	-148.17	1,744.20	1,489.28	2,574.63	2,555.90	18.72	137.504		
1,900.00	1,855.49	2,035.21	2,006.20	9.70	10.35	-148.59	1,746.53	1,479.08	2,591.62	2,572.11	19.50	132.886		
2,000.00	1,951.70	2,090.89	2,061.18	10.22	10.64	-148.95	1,749.13	1,470.68	2,610.24	2,590.00	20.24	128.971		
2,100.00	2,047.90	2,168.30	2,137.66	10.73	11.04	-149.44	1,753.51	1,459.51	2,630.27	2,609.17	21.09	124.690		
2,200.00	2,144.11	2,247.23	2,215.57	11.26	11.46	-149.95	1,758.50	1,447.90	2,651.00	2,629.04	21.96	120.700		
2,300.00	2,240.31	2,322.25	2,289.57	11.78	11.85	-150.44	1,763.90	1,436.82	2,672.68	2,649.86	22.82	117.145		
2,400.00	2,336.52	2,400.93	2,367.12	12.31	12.27	-150.96	1,770.21	1,425.16	2,695.28	2,671.59	23.69	113.769		
2,500.00	2,432.72	2,505.52	2,470.35	12.84	12.82	-151.61	1,778.04	1,410.35	2,718.08	2,693.36	24.72	109.965		
2,600.00	2,528.93	2,586.41	2,550.31	13.37	13.24	-152.09	1,783.81	1,399.55	2,741.30	2,715.71	25.60	107.095		
2,700.00	2,625.13	2,685.13	2,647.99	13.91	13.75	-152.66	1,790.65	1,386.91	2,764.90	2,738.32	26.58	104.028		
2,800.00	2,721.34	2,797.57	2,759.22	14.44	14.33	-153.30	1,798.13	1,372.34	2,788.46	2,760.82	27.65	100.864		
2,900.00	2,817.54	2,935.46	2,895.15	14.98	15.08	-154.13	1,807.19	1,351.00	2,810.93	2,782.04	28.90	97.277		
3,000.00	2,913.75	3,034.43	2,992.46	15.52	15.63	-154.73	1,813.60	1,334.14	2,832.94	2,803.01	29.92	94.680		
3,100.00	3,009.95	3,134.27	3,090.81	16.06	16.19	-155.31	1,819.43	1,318.02	2,855.11	2,824.17	30.95	92.261		
3,200.00	3,106.16	3,223.86	3,179.08	16.60	16.68	-155.83	1,824.56	1,303.56	2,877.46	2,845.55	31.91	90.182		
3,300.00	3,202.37	3,322.14	3,276.05	17.14	17.21	-156.37	1,829.86	1,288.46	2,900.13	2,867.22	32.91	88.121		
3,400.00	3,298.57	3,457.28	3,409.85	17.68	17.91	-157.03	1,834.42	1,270.09	2,922.06	2,887.95	34.11	85.664		
3,500.00	3,394.78	3,531.00	3,482.93	18.22	18.28	-157.37	1,836.46	1,260.63	2,944.05	2,909.11	34.94	84.258		
3,600.00	3,490.98	3,595.89	3,547.29	18.76	18.61	-157.66	1,838.73	1,252.63	2,967.03	2,931.32	35.71	83.077		
3,700.00	3,587.19	3,663.18	3,613.96	19.31	18.96	-157.98	1,841.88	1,244.16	2,991.09	2,954.59	36.50	81.944		
3,800.00	3,683.39	3,734.37	3,684.43	19.85	19.33	-158.32	1,846.03	1,234.94	3,016.13	2,978.81	37.32	80.829		
3,900.00	3,779.60	3,820.35	3,769.32	20.39	19.79	-158.75	1,852.02	1,222.68	3,041.80	3,003.57	38.24	79.553		
4,000.00	3,875.80	3,918.23	3,865.67	20.94	20.34	-159.26	1,859.62	1,207.20	3,067.75	3,028.49	39.26	78.145		
4,100.00	3,972.01	4,049.02	3,994.20	21.48	21.09	-159.96	1,869.42	1,185.10	3,093.29	3,052.77	40.52	76.338		
4,200.00	4,068.21	4,187.98	4,130.64	22.03	21.89	-160.70	1,878.33	1,160.32	3,117.77	3,075.93	41.84	74.509		
4,300.00	4,164.42	4,275.34	4,216.48	22.57	22.38	-161.15	1,883.23	1,144.84	3,141.85	3,099.05	42.80	73.411		
4,400.00	4,260.62	4,362.31	4,302.10	23.12	22.91	-161.07	1,888.12	1,129.34	3,165.78	3,122.94	43.83	72.363		
4,500.00	4,356.83	4,449.18	4,388.33	23.67	23.53	-161.53	1,893.01	1,114.84	3,189.63	3,147.81	44.91	71.365		
4,600.00	4,453.03	4,536.32	4,475.76	24.21	24.05	-162.06	1,897.90	1,100.34	3,213.48	3,171.66	46.04	70.407		
4,700.00	4,549.24	4,623.09	4,563.09	24.76	24.58	-162.66	1,902.79	1,085.84	3,237.33	3,195.51	47.21	69.489		
4,800.00	4,645.44	4,710.14	4,649.40	25.31	25.11	-163.32	1,907.68	1,071.34	3,261.18	3,219.36	48.42	68.611		
4,900.00	4,741.65	4,796.82	4,744.74	25.86	25.64	-164.03	1,912.57	1,056.84	3,285.03	3,243.21	49.66	67.773		
5,000.00	4,837.85	4,882.53	4,830.22	26.40	26.16	-164.79	1,917.46	1,042.34	3,308.88	3,267.06	50.93	66.975		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	10,088.45	7,234.89	26.95	72.20	-125.80	-1,167.33	973.35	2,540.35	2,483.50	56.85	44.684		
5,200.00	5,030.26	10,120.23	7,235.56	27.50	72.82	-124.64	-1,199.10	973.55	2,455.14	2,396.57	58.57	41.918		
5,300.00	5,126.47	10,147.30	7,236.13	28.05	73.34	-123.64	-1,226.16	973.77	2,370.74	2,310.39	60.35	39.286		
5,400.00	5,222.67	10,177.62	7,236.72	28.60	73.93	-122.49	-1,256.48	974.12	2,287.23	2,224.96	62.28	36.727		
5,500.00	5,318.88	10,210.48	7,237.26	29.15	74.57	-121.21	-1,289.32	974.57	2,204.67	2,140.31	64.37	34.251		
5,600.00	5,415.08	10,239.59	7,237.68	29.70	75.14	-120.05	-1,318.43	975.02	2,123.20	2,056.64	66.55	31.901		
5,700.00	5,511.29	10,294.85	7,238.32	30.25	76.21	-117.80	-1,373.68	975.78	2,042.97	1,973.74	69.23	29.512		
5,800.00	5,607.49	10,360.19	7,238.40	30.79	77.49	-115.05	-1,439.02	975.15	1,963.37	1,891.19	72.18	27.200		
5,900.00	5,703.70	10,388.51	7,238.30	31.34	78.05	-113.83	-1,467.33	974.68	1,885.19	1,810.34	74.85	25.186		
6,000.00	5,799.90	10,422.58	7,238.12	31.89	78.72	-112.34	-1,501.39	974.06	1,808.70	1,730.92	77.78	23.254		
6,100.00	5,896.11	10,458.13	7,237.84	32.44	79.42	-110.75	-1,536.93	973.28	1,734.06	1,653.14	80.93	21.427		
6,200.00	5,992.32	10,488.25	7,237.51	32.99	80.01	-109.39	-1,567.04	972.54	1,661.58	1,577.38	84.20	19.734		
6,300.00	6,088.52	10,520.13	7,237.09	33.54	80.64	-107.92	-1,598.91	971.70	1,591.57	1,503.87	87.70	18.148		
6,400.00	6,184.73	10,549.36	7,236.63	34.09	81.21	-106.56	-1,628.12	970.89	1,524.39	1,433.04	91.35	16.687		
6,500.00	6,280.93	10,576.30	7,236.14	34.64	81.75	-105.29	-1,655.05	970.14	1,460.48	1,365.33	95.15	15.350		
6,600.00	6,377.14	10,605.75	7,235.54	35.19	82.33	-103.89	-1,684.48	969.30	1,400.29	1,301.16	99.13	14.126		
6,700.00	6,473.34	10,635.09	7,234.85	35.74	82.91	-102.48	-1,713.80	968.42	1,344.29	1,241.08	103.22	13.024		
6,800.00	6,569.55	10,662.51	7,234.12	36.29	83.46	-101.15	-1,741.19	967.57	1,293.06	1,185.77	107.30	12.051		
6,900.00	6,665.75	10,692.09	7,233.24	36.84	84.05	-100.30	-1,770.75	966.62	1,247.38	1,136.02	111.37	11.201		
7,000.00	6,761.11	10,722.57	7,232.20	37.39	84.65	-128.81	-1,801.19	965.52	1,217.14	1,101.77	115.37	10.550		
7,082.79	6,837.84	10,745.48	7,231.40	37.80	85.11	-141.27	-1,824.07	964.62	1,209.15	1,090.77	118.38	10.214 CC, ES		
7,100.00	6,853.41	10,740.00	7,231.59	37.89	85.00	-143.62	-1,818.60	964.84	1,209.54	1,090.81	118.72	10.188		
7,200.00	6,940.36	10,757.46	7,231.05	38.34	85.35	-151.77	-1,836.04	964.23	1,225.36	1,103.96	121.40	10.094 SF		
7,300.00	7,019.83	10,772.00	7,230.72	38.74	85.64	-156.49	-1,850.57	963.87	1,263.50	1,140.26	123.24	10.252		
7,400.00	7,089.85	10,784.12	7,230.50	39.10	85.88	-159.31	-1,862.69	963.63	1,321.12	1,196.77	124.35	10.624		
7,500.00	7,148.71	10,797.51	7,230.29	39.42	86.15	-160.68	-1,876.07	963.40	1,394.56	1,269.52	125.03	11.153		
7,600.00	7,194.95	10,804.00	7,230.19	39.71	86.28	-161.38	-1,882.56	963.31	1,479.87	1,354.60	125.27	11.813		
7,700.00	7,227.43	10,813.64	7,230.08	40.01	86.47	-160.28	-1,892.19	963.20	1,573.28	1,447.79	125.50	12.537		
7,800.00	7,245.37	10,817.41	7,230.05	40.37	86.55	-154.75	-1,895.96	963.16	1,671.40	1,545.84	125.55	13.312		
7,900.00	7,248.84	10,818.80	7,230.04	40.87	86.58	-38.11	-1,897.36	963.15	1,771.26	1,645.67	125.59	14.104		
8,000.00	7,248.24	10,819.51	7,230.04	41.62	86.59	-38.96	-1,898.07	963.15	1,871.24	1,745.62	125.62	14.896		
8,100.00	7,247.65	10,820.19	7,230.03	42.66	86.60	-39.75	-1,898.75	963.14	1,971.22	1,845.57	125.65	15.688		
8,200.00	7,247.05	10,820.84	7,230.03	43.96	86.62	-40.48	-1,899.40	963.14	2,071.21	1,945.53	125.68	16.480		
8,300.00	7,246.46	10,821.46	7,230.03	45.46	86.63	-41.17	-1,900.02	963.13	2,171.19	2,045.48	125.71	17.272		
8,400.00	7,245.86	10,822.05	7,230.02	47.13	86.64	-41.81	-1,900.61	963.13	2,271.17	2,145.44	125.74	18.063		
8,500.00	7,245.27	10,822.61	7,230.02	48.93	86.65	-42.42	-1,901.17	963.13	2,371.16	2,245.39	125.77	18.854		
8,600.00	7,244.67	10,823.16	7,230.02	50.84	86.66	-42.98	-1,901.71	963.13	2,471.14	2,345.35	125.79	19.644		
8,700.00	7,244.07	10,823.67	7,230.02	52.85	86.67	-43.52	-1,902.23	963.12	2,571.13	2,445.31	125.82	20.434		
8,800.00	7,243.48	10,824.17	7,230.01	54.94	86.68	-44.02	-1,902.73	963.12	2,671.12	2,545.27	125.85	21.224		
8,900.00	7,242.88	10,824.64	7,230.01	57.10	86.69	-44.49	-1,903.20	963.12	2,771.11	2,645.23	125.88	22.013		
9,000.00	7,242.29	10,825.10	7,230.01	59.32	86.70	-44.94	-1,903.66	963.12	2,871.10	2,745.19	125.91	22.802		
9,100.00	7,241.69	10,825.54	7,230.01	61.60	86.71	-45.37	-1,904.10	963.11	2,971.09	2,845.14	125.94	23.591		
9,200.00	7,241.09	10,825.96	7,230.01	63.92	86.72	-45.77	-1,904.52	963.11	3,071.08	2,945.10	125.97	24.379		
9,300.00	7,240.50	10,826.37	7,230.01	66.29	86.73	-46.15	-1,904.93	963.11	3,171.07	3,045.06	126.00	25.166		
9,400.00	7,239.90	10,826.76	7,230.01	68.70	86.74	-46.52	-1,905.32	963.11	3,271.06	3,145.02	126.04	25.953		
9,500.00	7,239.31	10,835.00	7,230.00	71.14	86.90	-53.16	-1,913.56	963.09	3,371.07	3,244.80	126.28	26.696		
9,600.00	7,238.71	10,835.00	7,230.00	73.61	86.90	-53.16	-1,913.56	963.09	3,471.06	3,344.76	126.30	27.483		
9,700.00	7,238.11	10,835.00	7,230.00	76.11	86.90	-53.16	-1,913.56	963.09	3,571.05	3,444.73	126.32	28.269		
9,800.00	7,237.52	10,835.00	7,230.00	78.64	86.90	-53.16	-1,913.56	963.09	3,671.05	3,544.70	126.35	29.055		
9,900.00	7,236.92	10,835.00	7,230.00	81.19	86.90	-53.16	-1,913.56	963.09	3,771.04	3,644.66	126.37	29.841		
10,000.00	7,236.33	10,835.00	7,230.00	83.75	86.90	-53.16	-1,913.56	963.09	3,871.03	3,744.63	126.40	30.625		
10,100.00	7,235.73	10,835.00	7,230.00	86.34	86.90	-53.16	-1,913.56	963.09	3,971.02	3,844.59	126.43	31.410		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,200.00	7,235.14	10,835.00	7,230.00	88.94	86.90	-53.16	-1,913.56	963.09	4,071.01	3,944.56	126.45	32.194		
10,300.00	7,234.54	10,835.00	7,230.00	91.56	86.90	-53.16	-1,913.56	963.09	4,171.01	4,044.52	126.48	32.977		
10,400.00	7,233.94	10,835.00	7,230.00	94.19	86.90	-53.16	-1,913.56	963.09	4,271.00	4,144.49	126.51	33.759		
10,500.00	7,233.35	10,835.00	7,230.00	96.84	86.90	-53.16	-1,913.56	963.09	4,370.99	4,244.45	126.54	34.541		
10,600.00	7,232.75	10,835.00	7,230.00	99.50	86.90	-53.16	-1,913.56	963.09	4,470.99	4,344.41	126.57	35.323		
10,700.00	7,232.16	10,835.00	7,230.00	102.17	86.90	-53.16	-1,913.56	963.09	4,570.98	4,444.37	126.61	36.104		
10,800.00	7,231.56	10,835.00	7,230.00	104.85	86.90	-53.16	-1,913.56	963.09	4,670.98	4,544.34	126.64	36.884		
10,900.00	7,230.96	10,835.00	7,230.00	107.53	86.90	-53.16	-1,913.56	963.09	4,770.97	4,644.30	126.67	37.663		
11,000.00	7,230.37	10,835.00	7,230.00	110.23	86.90	-53.16	-1,913.56	963.09	4,870.97	4,744.26	126.71	38.442		
11,100.00	7,229.77	10,835.00	7,230.00	112.93	86.90	-53.16	-1,913.56	963.09	4,970.96	4,844.21	126.75	39.220		
11,200.00	7,229.18	10,835.00	7,230.00	115.65	86.90	-53.16	-1,913.56	963.09	5,070.96	4,944.17	126.78	39.997		
11,300.00	7,228.58	10,835.00	7,230.00	118.37	86.90	-53.16	-1,913.56	963.09	5,170.95	5,044.13	126.82	40.774		
11,400.00	7,227.99	10,835.00	7,230.00	121.09	86.90	-53.16	-1,913.56	963.09	5,270.95	5,144.09	126.86	41.550		
11,500.00	7,227.39	10,835.00	7,230.00	123.82	86.90	-53.16	-1,913.56	963.09	5,370.94	5,244.04	126.90	42.325		
11,600.00	7,226.79	10,835.00	7,230.00	126.56	86.90	-53.16	-1,913.56	963.09	5,470.94	5,344.00	126.94	43.100		
11,700.00	7,226.20	10,835.00	7,230.00	129.30	86.90	-53.16	-1,913.56	963.09	5,570.93	5,443.96	126.98	43.873		
11,800.00	7,225.60	10,835.00	7,230.00	132.05	86.90	-53.16	-1,913.56	963.09	5,670.93	5,543.91	127.02	44.646		
11,900.00	7,225.01	10,835.00	7,230.00	134.80	86.90	-53.16	-1,913.56	963.09	5,770.93	5,643.86	127.06	45.418		
12,000.00	7,224.41	10,835.00	7,230.00	137.56	86.90	-53.16	-1,913.56	963.09	5,870.92	5,743.82	127.11	46.189		
12,100.00	7,223.81	10,835.00	7,230.00	140.32	86.90	-53.16	-1,913.56	963.09	5,970.92	5,843.77	127.15	46.959		
12,200.00	7,223.22	10,835.00	7,230.00	143.08	86.90	-53.16	-1,913.56	963.09	6,070.92	5,943.72	127.20	47.729		
12,300.00	7,222.62	10,835.00	7,230.00	145.85	86.90	-53.16	-1,913.56	963.09	6,170.91	6,043.67	127.24	48.497		
12,400.00	7,222.03	10,835.00	7,230.00	148.62	86.90	-53.16	-1,913.56	963.09	6,270.91	6,143.62	127.29	49.265		
12,500.00	7,221.43	10,835.00	7,230.00	151.40	86.90	-53.16	-1,913.56	963.09	6,370.91	6,243.57	127.34	50.032		
12,600.00	7,220.83	10,835.00	7,230.00	154.18	86.90	-53.16	-1,913.56	963.09	6,470.90	6,343.52	127.39	50.798		
12,700.00	7,220.24	10,835.00	7,230.00	156.96	86.90	-53.16	-1,913.56	963.09	6,570.90	6,443.47	127.43	51.563		
12,800.00	7,219.64	10,835.00	7,230.00	159.74	86.90	-53.16	-1,913.56	963.09	6,670.90	6,543.41	127.48	52.327		
12,900.00	7,219.05	10,835.00	7,230.00	162.53	86.90	-53.16	-1,913.56	963.09	6,770.90	6,643.36	127.54	53.090		
13,000.00	7,218.45	10,835.00	7,230.00	165.32	86.90	-53.16	-1,913.56	963.09	6,870.89	6,743.31	127.59	53.852		
13,100.00	7,217.86	10,835.00	7,230.00	168.11	86.90	-53.16	-1,913.56	963.09	6,970.89	6,843.25	127.64	54.613		
13,200.00	7,217.26	10,835.00	7,230.00	170.90	86.90	-53.16	-1,913.56	963.09	7,070.89	6,943.19	127.69	55.374		
13,300.00	7,216.66	10,835.00	7,230.00	173.70	86.90	-53.16	-1,913.56	963.09	7,170.89	7,043.14	127.75	56.133		
13,400.00	7,216.07	10,835.00	7,230.00	176.49	86.90	-53.16	-1,913.56	963.09	7,270.88	7,143.08	127.80	56.891		
13,500.00	7,215.47	10,835.00	7,230.00	179.29	86.90	-53.16	-1,913.56	963.09	7,370.88	7,243.02	127.86	57.648		
13,600.00	7,214.88	10,835.00	7,230.00	182.09	86.90	-53.16	-1,913.56	963.09	7,470.88	7,342.96	127.92	58.405		
13,700.00	7,214.28	10,835.00	7,230.00	184.90	86.90	-53.16	-1,913.56	963.09	7,570.88	7,442.90	127.97	59.160		
13,800.00	7,213.68	10,835.00	7,230.00	187.70	86.90	-53.16	-1,913.56	963.09	7,670.88	7,542.84	128.03	59.914		
13,900.00	7,213.09	10,835.00	7,230.00	190.51	86.90	-53.16	-1,913.56	963.09	7,770.87	7,642.78	128.09	60.667		
14,000.00	7,212.49	10,835.00	7,230.00	193.32	86.90	-53.16	-1,913.56	963.09	7,870.87	7,742.72	128.15	61.419		
14,100.00	7,211.90	10,835.00	7,230.00	196.13	86.90	-53.16	-1,913.56	963.09	7,970.87	7,842.66	128.21	62.170		
14,200.00	7,211.30	10,835.00	7,230.00	198.94	86.90	-53.16	-1,913.56	963.09	8,070.87	7,942.59	128.27	62.920		
14,300.00	7,210.71	10,835.00	7,230.00	201.75	86.90	-53.16	-1,913.56	963.09	8,170.87	8,042.53	128.33	63.668		
14,400.00	7,210.11	10,835.00	7,230.00	204.56	86.90	-53.16	-1,913.56	963.09	8,270.86	8,142.47	128.40	64.416		
14,500.00	7,209.51	10,835.00	7,230.00	207.38	86.90	-53.16	-1,913.56	963.09	8,370.86	8,242.40	128.46	65.162		
14,600.00	7,208.92	10,835.00	7,230.00	210.19	86.90	-53.16	-1,913.56	963.09	8,470.86	8,342.33	128.53	65.908		
14,700.00	7,208.32	10,835.00	7,230.00	213.01	86.90	-53.16	-1,913.56	963.09	8,570.86	8,442.27	128.59	66.652		
14,800.00	7,207.73	10,835.00	7,230.00	215.83	86.90	-53.16	-1,913.56	963.09	8,670.86	8,542.20	128.66	67.395		
14,900.00	7,207.13	10,835.00	7,230.00	218.65	86.90	-53.16	-1,913.56	963.09	8,770.86	8,642.13	128.72	68.137		
15,000.00	7,206.53	10,835.00	7,230.00	221.47	86.90	-53.16	-1,913.56	963.09	8,870.85	8,742.06	128.79	68.878		
15,100.00	7,205.94	10,835.00	7,230.00	224.29	86.90	-53.16	-1,913.56	963.09	8,970.85	8,841.99	128.86	69.617		
15,200.00	7,205.34	10,835.00	7,230.00	227.11	86.90	-53.16	-1,913.56	963.09	9,070.85	8,941.92	128.93	70.356		
15,258.04	7,205.00	10,835.00	7,230.00	228.75	86.90	-53.16	-1,913.56	963.09	9,128.89	8,999.93	128.97	70.784		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	2.00	0.00	3.28	3.28	0.48	399.65	3.34	399.66					
100.00	100.00	102.00	100.00	3.28	3.29	0.48	399.65	3.34	399.66	393.09	6.57	60.832		
200.00	200.00	202.00	200.00	3.34	3.34	0.48	399.65	3.34	399.66	392.99	6.68	59.868	CC, ES	
300.00	299.98	289.48	287.47	3.44	3.43	175.71	401.04	3.20	402.98	396.10	6.88	58.560		
400.00	399.84	376.66	374.55	3.59	3.57	175.69	405.06	2.79	412.81	405.62	7.19	57.395		
500.00	499.45	462.75	460.38	3.79	3.73	175.64	411.63	2.13	429.06	421.47	7.59	56.515		
600.00	598.70	547.25	544.40	4.03	3.93	175.58	420.56	1.24	451.64	443.58	8.06	56.037		
700.00	697.47	629.70	626.09	4.31	4.15	175.51	431.65	0.12	480.37	471.80	8.58	56.016		
800.00	795.62	709.67	704.98	4.64	4.38	175.43	444.64	-1.18	515.08	505.96	9.12	56.458		
900.00	893.06	786.79	780.69	5.00	4.62	175.34	459.23	-2.64	555.54	545.85	9.69	57.336		
1,000.00	989.65	860.75	852.91	5.40	4.87	175.25	475.13	-4.24	601.48	591.22	10.27	58.587		
1,100.00	1,085.85	932.15	922.21	5.82	5.12	175.23	492.23	-5.96	650.94	640.11	10.82	60.144		
1,200.00	1,182.06	1,001.54	989.12	6.27	5.38	175.19	510.49	-7.79	702.50	691.12	11.38	61.742		
1,300.00	1,278.26	1,074.89	1,059.39	6.73	5.67	175.14	531.40	-9.89	755.97	744.01	11.96	63.223		
1,400.00	1,374.47	1,159.12	1,139.97	7.20	6.03	175.09	555.80	-12.34	809.87	797.26	12.60	64.250		
1,500.00	1,470.67	1,243.34	1,220.56	7.69	6.40	175.05	580.19	-14.79	863.77	850.49	13.28	65.059		
1,600.00	1,566.88	1,327.57	1,301.14	8.18	6.77	175.01	604.59	-17.24	917.67	903.70	13.97	65.697		
1,700.00	1,663.08	1,411.80	1,381.72	8.68	7.16	174.97	628.99	-19.69	971.57	956.89	14.68	66.199		
1,800.00	1,759.29	1,503.97	1,462.30	9.19	7.59	174.94	653.38	-22.14	1,025.47	1,010.03	15.43	66.441		
1,900.00	1,855.49	1,580.26	1,542.88	9.70	7.95	174.91	677.78	-24.59	1,079.37	1,063.23	16.14	66.894		
2,000.00	1,951.70	1,664.49	1,623.46	10.22	8.36	174.88	702.17	-27.03	1,133.27	1,116.39	16.88	67.128		
2,100.00	2,047.90	1,748.72	1,704.04	10.73	8.77	174.86	726.57	-29.48	1,187.17	1,169.53	17.64	67.304		
2,200.00	2,144.11	1,832.95	1,784.63	11.26	9.18	174.84	750.96	-31.93	1,241.07	1,222.67	18.40	67.436		
2,300.00	2,240.31	1,917.18	1,865.21	11.78	9.60	174.82	775.36	-34.38	1,294.97	1,275.80	19.18	67.530		
2,400.00	2,336.52	2,001.40	1,945.79	12.31	10.02	174.80	799.75	-36.83	1,348.87	1,328.92	19.96	67.596		
2,500.00	2,432.72	2,085.63	2,026.37	12.84	10.45	174.78	824.15	-39.28	1,402.78	1,382.04	20.74	67.637		
2,600.00	2,528.93	2,169.86	2,106.95	13.37	10.87	174.77	848.54	-41.73	1,456.68	1,435.15	21.53	67.659		
2,700.00	2,625.13	2,254.09	2,187.53	13.91	11.30	174.75	872.94	-44.18	1,510.58	1,488.25	22.32	67.665		
2,800.00	2,721.34	2,338.32	2,268.12	14.44	11.73	174.74	897.34	-46.63	1,564.48	1,541.36	23.12	67.658		
2,900.00	2,817.54	2,422.55	2,348.70	14.98	12.16	174.73	921.73	-49.08	1,618.38	1,594.46	23.93	67.642		
3,000.00	2,913.75	2,506.78	2,429.28	15.52	12.60	174.71	946.13	-51.53	1,672.28	1,647.55	24.73	67.617		
3,100.00	3,009.95	2,608.99	2,509.86	16.06	13.12	174.70	970.52	-53.98	1,726.19	1,700.56	25.63	67.357		
3,200.00	3,106.16	2,675.24	2,590.44	16.60	13.47	174.69	994.92	-56.43	1,780.09	1,753.74	26.35	67.549		
3,300.00	3,202.37	2,759.47	2,671.02	17.14	13.90	174.68	1,019.31	-58.87	1,833.99	1,806.82	27.17	67.509		
3,400.00	3,298.57	2,843.69	2,751.60	17.68	14.34	174.67	1,043.71	-61.32	1,887.89	1,859.91	27.98	67.465		
3,500.00	3,394.78	2,927.92	2,832.19	18.22	14.78	174.66	1,068.10	-63.77	1,941.79	1,912.99	28.80	67.418		
3,600.00	3,490.98	3,012.15	2,912.77	18.76	15.22	174.66	1,092.50	-66.22	1,995.70	1,966.07	29.62	67.370		
3,700.00	3,587.19	3,103.62	2,993.35	19.31	15.70	174.65	1,116.89	-68.67	2,049.60	2,019.12	30.48	67.242		
3,800.00	3,683.39	3,180.61	3,073.93	19.85	16.10	174.64	1,141.29	-71.12	2,103.50	2,072.23	31.27	67.269		
3,900.00	3,779.60	3,264.84	3,154.51	20.39	16.55	174.63	1,165.69	-73.57	2,157.40	2,125.31	32.10	67.218		
4,000.00	3,875.80	3,349.07	3,235.09	20.94	16.99	174.63	1,190.08	-76.02	2,211.30	2,178.38	32.92	67.166		
4,100.00	3,972.01	3,433.30	3,315.68	21.48	17.43	174.62	1,214.48	-78.47	2,265.21	2,231.45	33.75	67.114		
4,200.00	4,068.21	3,517.53	3,396.26	22.03	17.87	174.62	1,238.87	-80.92	2,319.11	2,284.53	34.58	67.061		
4,300.00	4,164.42	3,601.75	3,476.84	22.57	18.32	174.61	1,263.27	-83.37	2,373.01	2,337.60	35.41	67.010		
4,400.00	4,260.62	3,685.98	3,557.42	23.12	18.76	174.60	1,287.66	-85.82	2,426.91	2,390.67	36.25	66.958		
4,500.00	4,356.83	3,770.21	3,638.00	23.67	19.21	174.60	1,312.06	-88.26	2,480.82	2,443.74	37.08	66.907		
4,600.00	4,453.03	3,854.44	3,718.58	24.21	19.65	174.59	1,336.45	-90.71	2,534.72	2,496.80	37.91	66.856		
4,700.00	4,549.24	3,938.67	3,799.16	24.76	20.10	174.59	1,360.85	-93.16	2,588.62	2,549.87	38.75	66.806		
4,800.00	4,645.44	4,022.90	3,879.75	25.31	20.55	174.58	1,385.24	-95.61	2,642.52	2,602.94	39.58	66.756		
4,900.00	4,741.65	4,107.13	3,960.33	25.86	20.99	174.58	1,409.64	-98.06	2,696.42	2,656.00	40.42	66.707		
5,000.00	4,837.85	4,208.64	4,040.91	26.40	21.53	174.58	1,434.03	-100.51	2,750.33	2,708.98	41.35	66.520		
5,100.00	4,934.06	4,275.59	4,121.49	26.95	21.89	174.57	1,458.43	-102.96	2,804.23	2,762.13	42.10	66.612		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,200.00	5,030.26	4,359.82	4,202.07	27.50	22.33	174.57	1,482.83	-105.41	2,858.13	2,815.19	42.94	66.565		
5,300.00	5,126.47	4,444.04	4,282.65	28.05	22.78	174.56	1,507.22	-107.86	2,912.03	2,868.26	43.78	66.518		
5,400.00	5,222.67	4,528.27	4,363.23	28.60	23.23	174.56	1,531.62	-110.31	2,965.94	2,921.32	44.62	66.473		
5,500.00	5,318.88	4,612.50	4,443.82	29.15	23.68	174.56	1,556.01	-112.76	3,019.84	2,974.38	45.46	66.428		
5,600.00	5,415.08	4,703.27	4,524.40	29.70	24.16	174.55	1,580.41	-115.21	3,073.74	3,027.41	46.34	66.337		
5,700.00	5,511.29	4,780.96	4,604.98	30.25	24.57	174.55	1,604.80	-117.66	3,127.64	3,080.50	47.15	66.341		
5,800.00	5,607.49	4,865.19	4,685.56	30.79	25.02	174.55	1,629.20	-120.10	3,181.54	3,133.56	47.99	66.298		
5,900.00	5,703.70	4,949.42	4,766.14	31.34	25.47	174.54	1,653.59	-122.55	3,235.45	3,186.61	48.83	66.256		
6,000.00	5,799.90	5,033.65	4,846.72	31.89	25.92	174.54	1,677.99	-125.00	3,289.35	3,239.67	49.68	66.214		
6,100.00	5,896.11	5,117.88	4,927.31	32.44	26.37	174.54	1,702.38	-127.45	3,343.25	3,292.73	50.52	66.173		
6,200.00	5,992.32	5,202.10	5,007.89	32.99	26.82	174.53	1,726.78	-129.90	3,397.15	3,345.79	51.37	66.133		
6,300.00	6,088.52	5,286.33	5,088.47	33.54	27.26	174.53	1,751.18	-132.35	3,451.06	3,398.84	52.21	66.094		
6,400.00	6,184.73	5,370.56	5,169.06	34.09	27.71	174.78	1,904.89	-147.78	3,483.92	3,423.88	60.04	58.028		
6,500.00	6,280.93	5,504.43	5,280.93	34.64	32.52	174.82	1,904.89	-147.78	3,511.11	3,450.19	60.91	57.640		
6,600.00	6,377.14	5,608.22	5,377.14	35.19	32.90	174.86	1,904.89	-147.78	3,538.29	3,476.50	61.79	57.260		
6,700.00	6,473.34	5,687.98	5,473.34	35.74	33.19	174.90	1,904.89	-147.78	3,565.48	3,502.90	62.58	56.975		
6,800.00	6,569.55	5,784.19	5,569.55	36.29	33.54	174.94	1,904.89	-147.78	3,592.66	3,529.23	63.43	56.639		
6,900.00	6,665.75	5,881.96	5,667.28	36.84	33.89	169.93	1,904.87	-149.37	3,619.84	3,555.56	64.28	56.309		
7,000.00	6,761.11	5,981.52	5,765.64	37.39	34.24	141.23	1,904.76	-164.11	3,646.77	3,581.63	65.14	55.982		
7,100.00	6,853.41	6,081.11	5,860.54	37.89	34.59	123.14	1,904.53	-194.01	3,672.82	3,606.83	65.99	55.656		
7,200.00	6,940.36	6,180.99	5,949.85	38.34	34.91	111.95	1,904.18	-238.46	3,697.37	3,630.54	66.83	55.323		
7,300.00	7,019.83	7,281.32	7,031.48	38.74	35.21	104.54	1,903.72	-296.62	3,719.80	3,652.10	67.69	54.952		
7,400.00	7,089.85	7,382.19	7,103.32	39.10	35.49	99.34	1,903.17	-367.28	3,739.55	3,670.92	68.63	54.490		
7,500.00	7,148.71	7,483.60	7,163.39	39.42	35.76	95.63	1,902.53	-448.85	3,756.15	3,686.43	69.72	53.871		
7,600.00	7,194.95	7,585.42	7,209.93	39.71	36.11	93.01	1,901.83	-539.29	3,769.18	3,698.12	71.07	53.038		
7,700.00	7,227.43	7,687.45	7,241.51	40.01	36.70	91.29	1,901.07	-636.19	3,778.32	3,705.61	72.72	51.960		
7,800.00	7,245.37	7,789.41	7,257.22	40.37	37.62	90.36	1,900.28	-736.81	3,783.35	3,708.67	74.69	50.657		
7,900.00	7,248.84	7,909.76	7,258.80	40.87	38.99	90.15	1,899.49	-837.60	3,784.30	3,707.11	77.19	49.028		
8,000.00	7,248.24	8,009.76	7,258.42	41.62	40.33	90.15	1,898.71	-937.59	3,784.10	3,704.30	79.80	47.423		
8,100.00	7,247.65	8,109.76	7,258.04	42.66	41.83	90.16	1,897.93	-1,037.59	3,783.90	3,701.18	82.72	45.745		
8,200.00	7,247.05	8,209.76	7,257.66	43.96	43.47	90.16	1,897.15	-1,137.59	3,783.70	3,697.78	85.92	44.037		
8,300.00	7,246.46	8,290.24	7,257.28	45.46	44.88	90.16	1,896.36	-1,237.58	3,783.51	3,694.49	89.02	42.502		
8,400.00	7,245.86	8,409.76	7,256.90	47.13	47.11	90.17	1,895.58	-1,337.58	3,783.31	3,690.26	93.05	40.658		
8,500.00	7,245.27	8,509.76	7,256.53	48.93	49.07	90.17	1,894.80	-1,437.57	3,783.11	3,686.18	96.93	39.030		
8,600.00	7,244.67	8,609.76	7,256.15	50.84	51.13	90.17	1,894.02	-1,537.57	3,782.91	3,681.93	100.98	37.462		
8,700.00	7,244.07	8,709.76	7,255.77	52.85	53.25	90.18	1,893.24	-1,637.56	3,782.72	3,677.53	105.18	35.963		
8,800.00	7,243.48	8,809.76	7,255.39	54.94	55.45	90.18	1,892.45	-1,737.56	3,782.52	3,672.99	109.53	34.535		
8,900.00	7,242.88	8,909.77	7,255.01	57.10	57.70	90.18	1,891.67	-1,837.56	3,782.32	3,668.33	113.99	33.181		
9,000.00	7,242.29	9,009.77	7,254.63	59.32	60.00	90.19	1,890.89	-1,937.55	3,782.12	3,663.56	118.56	31.900		
9,100.00	7,241.69	9,090.23	7,254.25	61.60	61.89	90.19	1,890.11	-2,037.55	3,781.93	3,659.16	122.77	30.806		
9,200.00	7,241.09	9,209.77	7,253.87	63.92	64.74	90.19	1,889.33	-2,137.54	3,781.73	3,653.75	127.98	29.549		
9,300.00	7,240.50	9,309.77	7,253.49	66.29	67.17	90.20	1,888.54	-2,237.54	3,781.53	3,648.72	132.81	28.473		
9,400.00	7,239.90	9,409.77	7,253.11	68.70	69.63	90.20	1,887.76	-2,337.54	3,781.33	3,643.63	137.71	27.459		
9,500.00	7,239.31	9,509.77	7,252.73	71.14	72.11	90.20	1,886.98	-2,437.53	3,781.14	3,638.47	142.67	26.504		
9,600.00	7,238.71	9,609.77	7,252.35	73.61	74.63	90.21	1,886.20	-2,537.53	3,780.94	3,633.26	147.68	25.603		
9,700.00	7,238.11	9,709.77	7,251.97	76.11	77.17	90.21	1,885.42	-2,637.52	3,780.74	3,628.00	152.74	24.753		
9,800.00	7,237.52	9,809.77	7,251.59	78.64	79.73	90.21	1,884.63	-2,737.52	3,780.54	3,622.70	157.85	23.951		
9,900.00	7,236.92	9,909.77	7,251.21	81.19	82.31	90.22	1,883.85	-2,837.51	3,780.35	3,617.35	162.99	23.193		
10,000.00	7,236.33	9,990.23	7,250.83	83.75	84.40	90.22	1,883.07	-2,937.51	3,780.15	3,612.48	167.67	22.545		
10,100.00	7,235.73	10,109.77	7,250.45	86.34	87.52	90.22	1,882.29	-3,037.51	3,779.95	3,606.55	173.40	21.799		
10,200.00	7,235.14	10,209.77	7,250.07	88.94	90.15	90.23	1,881.51	-3,137.50	3,779.75	3,601.11	178.64	21.158		
10,300.00	7,234.54	10,309.77	7,249.69	91.56	92.79	90.23	1,880.72	-3,237.50	3,779.56	3,595.64	183.92	20.550		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,400.00	7,233.94	10,409.77	7,249.31	94.19	95.45	90.23	1,879.94	-3,337.49	3,779.36	3,590.14	189.22	19.973		
10,500.00	7,233.35	10,509.77	7,248.94	96.84	98.12	90.24	1,879.16	-3,437.49	3,779.16	3,584.61	194.55	19.425		
10,600.00	7,232.75	10,609.77	7,248.56	99.50	100.79	90.24	1,878.38	-3,537.48	3,778.96	3,579.07	199.90	18.905		
10,700.00	7,232.16	10,709.77	7,248.18	102.17	103.48	90.24	1,877.60	-3,637.48	3,778.77	3,573.50	205.26	18.409		
10,800.00	7,231.56	10,809.77	7,247.80	104.85	106.18	90.25	1,876.81	-3,737.48	3,778.57	3,567.92	210.65	17.938		
10,900.00	7,230.96	10,909.77	7,247.42	107.53	108.88	90.25	1,876.03	-3,837.47	3,778.37	3,562.32	216.05	17.488		
11,000.00	7,230.37	10,990.23	7,247.04	110.23	111.06	90.25	1,875.25	-3,937.47	3,778.18	3,557.24	220.94	17.101		
11,100.00	7,229.77	11,109.77	7,246.66	112.93	114.31	90.26	1,874.47	-4,037.46	3,777.98	3,551.08	226.90	16.650		
11,200.00	7,229.18	11,209.78	7,246.28	115.65	117.04	90.26	1,873.69	-4,137.46	3,777.78	3,545.43	232.35	16.259		
11,300.00	7,228.58	11,309.78	7,245.90	118.37	119.77	90.26	1,872.90	-4,237.46	3,777.58	3,539.78	237.81	15.885		
11,400.00	7,227.99	11,409.78	7,245.52	121.09	122.51	90.27	1,872.12	-4,337.45	3,777.39	3,534.11	243.28	15.527		
11,500.00	7,227.39	11,509.78	7,245.14	123.82	125.25	90.27	1,871.34	-4,437.45	3,777.19	3,528.43	248.76	15.184		
11,600.00	7,226.79	11,609.78	7,244.76	126.56	128.00	90.27	1,870.56	-4,537.44	3,776.99	3,522.74	254.25	14.855		
11,700.00	7,226.20	11,709.78	7,244.38	129.30	130.75	90.28	1,869.78	-4,637.44	3,776.79	3,517.04	259.75	14.540		
11,800.00	7,225.60	11,809.78	7,244.00	132.05	133.51	90.28	1,868.99	-4,737.43	3,776.60	3,511.33	265.27	14.237		
11,900.00	7,225.01	11,909.78	7,243.62	134.80	136.27	90.28	1,868.21	-4,837.43	3,776.40	3,505.61	270.79	13.946		
12,000.00	7,224.41	12,009.78	7,243.24	137.56	139.03	90.29	1,867.43	-4,937.43	3,776.20	3,499.89	276.31	13.666		
12,100.00	7,223.81	12,109.78	7,242.86	140.32	141.80	90.29	1,866.65	-5,037.42	3,776.01	3,494.16	281.85	13.397		
12,200.00	7,223.22	12,209.78	7,242.48	143.08	144.57	90.29	1,865.87	-5,137.42	3,775.81	3,488.42	287.39	13.138		
12,300.00	7,222.62	12,309.78	7,242.10	145.85	147.35	90.30	1,865.08	-5,237.41	3,775.61	3,482.67	292.94	12.889		
12,400.00	7,222.03	12,390.22	7,241.72	148.62	149.58	90.30	1,864.30	-5,337.41	3,775.41	3,477.46	297.95	12.671		
12,500.00	7,221.43	12,509.78	7,241.34	151.40	152.91	90.30	1,863.52	-5,437.40	3,775.22	3,471.16	304.06	12.416		
12,600.00	7,220.83	12,609.78	7,240.97	154.18	155.69	90.31	1,862.74	-5,537.40	3,775.02	3,465.40	309.62	12.192		
12,700.00	7,220.24	12,709.78	7,240.59	156.96	158.48	90.31	1,861.96	-5,637.40	3,774.82	3,459.63	315.20	11.976		
12,800.00	7,219.64	12,809.78	7,240.21	159.74	161.27	90.31	1,861.17	-5,737.39	3,774.63	3,453.85	320.77	11.767		
12,900.00	7,219.05	12,909.78	7,239.83	162.53	164.06	90.32	1,860.39	-5,837.39	3,774.43	3,448.07	326.36	11.565		
13,000.00	7,218.45	13,009.78	7,239.45	165.32	166.86	90.32	1,859.61	-5,937.38	3,774.23	3,442.29	331.94	11.370		
13,100.00	7,217.86	13,109.78	7,239.07	168.11	169.65	90.32	1,858.83	-6,037.38	3,774.04	3,436.50	337.53	11.181		
13,200.00	7,217.26	13,209.78	7,238.69	170.90	172.45	90.33	1,858.05	-6,137.38	3,773.84	3,430.71	343.13	10.998		
13,300.00	7,216.66	13,309.78	7,238.31	173.70	175.25	90.33	1,857.26	-6,237.37	3,773.64	3,424.91	348.73	10.821		
13,400.00	7,216.07	13,409.78	7,237.93	176.49	178.05	90.33	1,856.48	-6,337.37	3,773.44	3,419.11	354.33	10.649		
13,500.00	7,215.47	13,509.79	7,237.55	179.29	180.86	90.34	1,855.70	-6,437.36	3,773.25	3,413.31	359.94	10.483		
13,600.00	7,214.88	13,609.79	7,237.17	182.09	183.66	90.34	1,854.92	-6,537.36	3,773.05	3,407.50	365.55	10.322		
13,700.00	7,214.28	13,709.79	7,236.79	184.90	186.47	90.34	1,854.13	-6,637.35	3,772.85	3,401.69	371.16	10.165		
13,800.00	7,213.68	13,809.79	7,236.41	187.70	189.28	90.35	1,853.35	-6,737.35	3,772.66	3,395.88	376.78	10.013		
13,900.00	7,213.09	13,909.79	7,236.03	190.51	192.09	90.35	1,852.57	-6,837.35	3,772.46	3,390.06	382.40	9.865		
14,000.00	7,212.49	14,009.79	7,235.65	193.32	194.90	90.35	1,851.79	-6,937.34	3,772.26	3,384.24	388.02	9.722		
14,100.00	7,211.90	14,109.79	7,235.27	196.13	197.71	90.36	1,851.01	-7,037.34	3,772.07	3,378.42	393.65	9.582		
14,200.00	7,211.30	14,209.79	7,234.89	198.94	200.53	90.36	1,850.22	-7,137.33	3,771.87	3,372.60	399.27	9.447		
14,300.00	7,210.71	14,309.79	7,234.51	201.75	203.34	90.36	1,849.44	-7,237.33	3,771.67	3,366.77	404.90	9.315		
14,400.00	7,210.11	14,409.79	7,234.13	204.56	206.16	90.37	1,848.66	-7,337.32	3,771.48	3,360.94	410.54	9.187		
14,500.00	7,209.51	14,509.79	7,233.75	207.38	208.98	90.37	1,847.88	-7,437.32	3,771.28	3,355.11	416.17	9.062		
14,600.00	7,208.92	14,609.79	7,233.38	210.19	211.80	90.37	1,847.10	-7,537.32	3,771.08	3,349.27	421.81	8.940		
14,700.00	7,208.32	14,709.79	7,233.00	213.01	214.62	90.38	1,846.31	-7,637.31	3,770.88	3,343.44	427.45	8.822		
14,800.00	7,207.73	14,809.79	7,232.62	215.83	217.44	90.38	1,845.53	-7,737.31	3,770.69	3,337.60	433.09	8.707		
14,900.00	7,207.13	14,909.79	7,232.24	218.65	220.26	90.38	1,844.75	-7,837.30	3,770.49	3,331.76	438.73	8.594		
15,000.00	7,206.53	15,009.79	7,231.86	221.47	223.08	90.39	1,843.97	-7,937.30	3,770.29	3,325.92	444.37	8.484		
15,100.00	7,205.94	15,109.79	7,231.48	224.29	225.91	90.39	1,843.19	-8,037.30	3,770.10	3,320.08	450.02	8.378		
15,200.00	7,205.34	15,190.21	7,231.10	227.11	228.18	90.39	1,842.40	-8,137.29	3,769.90	3,314.78	455.12	8.283		
15,233.22	7,205.14	15,216.01	7,231.00	228.05	228.91	90.39	1,842.20	-8,163.10	3,769.84	3,313.06	456.78	8.253		
15,258.04	7,205.00	15,216.01	7,231.00	228.75	228.91	90.39	1,842.20	-8,163.10	3,769.92	3,312.46	457.46	8.241 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	2.00	0.00	3.28	3.28	0.50	379.98	3.34	379.99					
100.00	100.00	102.00	100.00	3.28	3.29	0.50	379.98	3.34	379.99	373.42	6.57	57.839		
200.00	200.00	202.00	200.00	3.34	3.34	0.50	379.98	3.34	379.99	373.32	6.68	56.922	CC, ES	
300.00	299.98	301.98	299.98	3.44	3.45	175.77	379.98	3.34	381.73	374.85	6.89	55.423		
400.00	399.84	389.79	387.78	3.59	3.59	175.78	381.37	3.16	388.53	381.35	7.19	54.051		
500.00	499.45	476.99	474.88	3.79	3.76	175.76	385.40	2.64	401.81	394.23	7.58	52.987		
600.00	598.70	562.82	560.45	4.03	3.96	175.71	391.93	1.81	421.47	413.42	8.05	52.355		
700.00	697.47	646.79	643.94	4.31	4.18	175.64	400.77	0.67	447.38	438.81	8.57	52.206		
800.00	795.62	728.45	724.85	4.64	4.42	175.55	411.70	-0.73	479.36	470.24	9.12	52.540		
900.00	893.06	807.40	802.75	5.00	4.67	175.44	424.43	-2.36	517.20	507.50	9.70	53.333		
1,000.00	989.65	885.38	879.32	5.40	4.93	175.33	439.07	-4.23	560.64	550.34	10.29	54.463		
1,100.00	1,085.85	974.37	966.54	5.82	5.23	175.29	456.59	-6.48	606.25	595.34	10.90	55.601		
1,200.00	1,182.06	1,063.36	1,053.76	6.27	5.56	175.25	474.12	-8.73	651.86	640.30	11.56	56.410		
1,300.00	1,278.26	1,152.35	1,140.98	6.73	5.90	175.22	491.65	-10.97	697.47	685.24	12.23	57.024		
1,400.00	1,374.47	1,241.35	1,228.20	7.20	6.25	175.20	509.17	-13.22	743.08	730.15	12.93	57.472		
1,500.00	1,470.67	1,330.34	1,315.42	7.69	6.61	175.17	526.70	-15.46	788.70	775.05	13.65	57.792		
1,600.00	1,566.88	1,419.33	1,402.64	8.18	6.99	175.15	544.23	-17.71	834.31	819.93	14.38	58.012		
1,700.00	1,663.08	1,508.32	1,489.86	8.68	7.36	175.13	561.75	-19.96	879.92	864.79	15.13	58.157		
1,800.00	1,759.29	1,602.69	1,577.08	9.19	7.77	175.12	579.28	-22.20	925.53	909.62	15.91	58.160		
1,900.00	1,855.49	1,686.30	1,664.29	9.70	8.13	175.10	596.81	-24.45	971.15	954.49	16.66	58.284		
2,000.00	1,951.70	1,775.29	1,751.51	10.22	8.53	175.09	614.33	-26.69	1,016.76	999.32	17.44	58.292		
2,100.00	2,047.90	1,864.28	1,838.73	10.73	8.92	175.07	631.86	-28.94	1,062.37	1,044.14	18.23	58.273		
2,200.00	2,144.11	1,953.27	1,925.95	11.26	9.32	175.06	649.39	-31.19	1,107.99	1,088.96	19.03	58.235		
2,300.00	2,240.31	2,042.27	2,013.17	11.78	9.72	175.05	666.91	-33.43	1,153.60	1,133.77	19.83	58.181		
2,400.00	2,336.52	2,131.26	2,100.39	12.31	10.12	175.04	684.44	-35.68	1,199.21	1,178.58	20.63	58.117		
2,500.00	2,432.72	2,220.25	2,187.61	12.84	10.53	175.03	701.97	-37.92	1,244.83	1,223.38	21.45	58.045		
2,600.00	2,528.93	2,309.24	2,274.83	13.37	10.94	175.02	719.49	-40.17	1,290.44	1,268.18	22.26	57.967		
2,700.00	2,625.13	2,401.77	2,362.05	13.91	11.36	175.01	737.02	-42.42	1,336.05	1,312.95	23.10	57.845		
2,800.00	2,721.34	2,487.22	2,449.27	14.44	11.76	175.01	754.55	-44.66	1,381.66	1,357.76	23.90	57.799		
2,900.00	2,817.54	2,576.21	2,536.49	14.98	12.17	175.00	772.07	-46.91	1,427.28	1,402.55	24.73	57.713		
3,000.00	2,913.75	2,665.20	2,623.71	15.52	12.59	174.99	789.60	-49.15	1,472.89	1,447.33	25.56	57.626		
3,100.00	3,009.95	2,754.19	2,710.93	16.06	13.00	174.99	807.13	-51.40	1,518.50	1,492.11	26.39	57.539		
3,200.00	3,106.16	2,843.19	2,798.14	16.60	13.42	174.98	824.65	-53.64	1,564.12	1,536.89	27.22	57.452		
3,300.00	3,202.37	2,932.18	2,885.36	17.14	13.83	174.97	842.18	-55.89	1,609.73	1,581.67	28.06	57.366		
3,400.00	3,298.57	3,021.17	2,972.58	17.68	14.25	174.97	859.71	-58.14	1,655.34	1,626.45	28.90	57.281		
3,500.00	3,394.78	3,110.16	3,059.80	18.22	14.67	174.96	877.23	-60.38	1,700.96	1,671.22	29.74	57.198		
3,600.00	3,490.98	3,199.15	3,147.02	18.76	15.09	174.96	894.76	-62.63	1,746.57	1,715.99	30.58	57.116		
3,700.00	3,587.19	3,288.14	3,234.24	19.31	15.51	174.95	912.29	-64.87	1,792.18	1,760.76	31.42	57.036		
3,800.00	3,683.39	3,377.13	3,321.46	19.85	15.93	174.95	929.81	-67.12	1,837.80	1,805.53	32.27	56.958		
3,900.00	3,779.60	3,466.12	3,408.68	20.39	16.35	174.95	947.34	-69.37	1,883.41	1,850.30	33.11	56.881		
4,000.00	3,875.80	3,555.11	3,495.90	20.94	16.77	174.94	964.87	-71.61	1,929.02	1,895.07	33.96	56.807		
4,100.00	3,972.01	3,644.11	3,583.12	21.48	17.19	174.94	982.39	-73.86	1,974.64	1,939.83	34.81	56.734		
4,200.00	4,068.21	3,733.10	3,670.34	22.03	17.62	174.94	999.92	-76.10	2,020.25	1,984.60	35.65	56.662		
4,300.00	4,164.42	3,822.09	3,757.56	22.57	18.04	174.93	1,017.45	-78.35	2,065.86	2,029.36	36.50	56.593		
4,400.00	4,260.62	3,911.08	3,844.77	23.12	18.46	174.93	1,034.97	-80.60	2,111.48	2,074.12	37.35	56.525		
4,500.00	4,356.83	4,000.07	3,931.99	23.67	18.88	174.93	1,052.50	-82.84	2,157.09	2,118.88	38.21	56.460		
4,600.00	4,453.03	4,089.06	4,019.21	24.21	19.31	174.92	1,070.03	-85.09	2,202.70	2,163.64	39.06	56.395		
4,700.00	4,549.24	4,178.05	4,106.43	24.76	19.73	174.92	1,087.55	-87.33	2,248.32	2,208.40	39.91	56.333		
4,800.00	4,645.44	4,267.04	4,193.65	25.31	20.16	174.92	1,105.08	-89.58	2,293.93	2,253.16	40.77	56.272		
4,900.00	4,741.65	4,356.03	4,280.87	25.86	20.58	174.91	1,122.61	-91.83	2,339.54	2,297.92	41.62	56.213		
5,000.00	4,837.85	4,445.03	4,368.09	26.40	21.01	174.91	1,140.13	-94.07	2,385.16	2,342.68	42.47	56.155		
5,100.00	4,934.06	4,534.02	4,455.31	26.95	21.43	174.91	1,157.66	-96.32	2,430.77	2,387.44	43.33	56.098		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,623.01	4,542.53	27.50	21.86	174.91	1,175.19	-98.56	2,476.38	2,432.20	44.19	56.043		
5,300.00	5,126.47	4,712.00	4,629.75	28.05	22.28	174.91	1,192.71	-100.81	2,522.00	2,476.95	45.04	55.990		
5,400.00	5,222.67	4,800.99	4,716.97	28.60	22.71	174.90	1,210.24	-103.06	2,567.61	2,521.71	45.90	55.937		
5,500.00	5,318.88	4,889.98	4,804.19	29.15	23.13	174.90	1,227.77	-105.30	2,613.22	2,566.46	46.76	55.886		
5,600.00	5,415.08	4,978.97	4,891.41	29.70	23.56	174.90	1,245.29	-107.55	2,658.84	2,611.22	47.62	55.837		
5,700.00	5,511.29	5,067.96	4,978.62	30.25	23.99	174.90	1,262.82	-109.79	2,704.45	2,655.97	48.48	55.788		
5,800.00	5,607.49	5,156.95	5,065.84	30.79	24.41	174.90	1,280.35	-112.04	2,750.06	2,700.73	49.34	55.741		
5,900.00	5,703.70	5,245.95	5,153.06	31.34	24.84	174.89	1,297.87	-114.29	2,795.68	2,745.48	50.20	55.694		
6,000.00	5,799.90	5,334.94	5,240.28	31.89	25.27	174.89	1,315.40	-116.53	2,841.29	2,790.23	51.06	55.649		
6,100.00	5,896.11	5,423.93	5,327.50	32.44	25.69	174.89	1,332.93	-118.78	2,886.90	2,834.98	51.92	55.605		
6,200.00	5,992.32	5,512.92	5,414.72	32.99	26.12	174.89	1,350.45	-121.02	2,932.52	2,879.74	52.78	55.561		
6,300.00	6,088.52	5,601.91	5,501.94	33.54	26.55	174.89	1,367.98	-123.27	2,978.13	2,924.49	53.64	55.519		
6,400.00	6,184.73	5,690.90	5,589.16	34.09	26.98	174.88	1,385.51	-125.51	3,023.74	2,969.24	54.50	55.478		
6,500.00	6,280.93	5,779.89	5,676.38	34.64	27.40	174.88	1,403.03	-127.76	3,069.36	3,013.99	55.37	55.437		
6,600.00	6,377.14	5,868.88	5,763.60	35.19	27.83	174.88	1,420.56	-130.01	3,114.97	3,058.74	56.23	55.397		
6,700.00	6,473.34	5,957.87	5,850.82	35.74	28.26	174.88	1,438.09	-132.25	3,160.58	3,103.49	57.09	55.358		
6,800.00	6,569.55	6,046.87	5,938.04	36.29	28.69	174.88	1,455.61	-134.50	3,206.20	3,148.24	57.96	55.320		
6,900.00	6,665.75	6,135.86	6,025.25	36.84	29.11	169.55	1,473.14	-136.74	3,251.81	3,192.99	58.82	55.283		
7,000.00	6,761.11	6,224.31	6,111.95	37.39	29.54	139.02	1,490.56	-138.98	3,297.13	3,237.45	59.68	55.247		
7,100.00	6,853.41	6,310.30	6,196.22	37.89	29.95	119.45	1,507.50	-141.15	3,341.30	3,280.80	60.50	55.225		
7,200.00	6,940.36	6,408.31	6,275.99	38.34	30.42	107.08	1,523.53	-143.20	3,383.56	3,322.21	61.35	55.151		
7,300.00	7,019.83	6,466.48	6,349.29	38.74	30.70	98.72	1,538.26	-145.09	3,423.36	3,361.37	61.99	55.227		
7,400.00	7,089.85	6,532.84	6,414.33	39.10	31.02	92.72	1,551.32	-146.76	3,460.29	3,397.63	62.66	55.221		
7,500.00	7,148.71	6,597.25	6,477.46	39.42	31.33	88.35	1,564.01	-148.62	3,494.08	3,430.67	63.41	55.105		
7,600.00	7,194.95	6,717.17	6,593.61	39.71	31.91	85.96	1,587.25	-166.05	3,523.88	3,459.07	64.81	54.373		
7,700.00	7,227.43	6,906.90	6,765.16	40.01	32.77	85.35	1,621.25	-237.81	3,548.38	3,481.42	66.96	52.996		
7,800.00	7,245.37	7,800.00	6,987.15	40.37	38.56	86.47	1,664.29	-469.02	3,564.65	3,489.91	74.75	47.691		
7,900.00	7,248.84	7,614.07	7,069.87	40.87	37.90	87.13	1,678.39	-834.27	3,567.66	3,491.95	75.71	47.125		
8,000.00	7,248.24	7,714.07	7,069.58	41.62	39.24	87.13	1,677.64	-934.26	3,567.47	3,489.16	78.31	45.553		
8,100.00	7,247.65	7,814.07	7,069.30	42.66	40.74	87.13	1,676.89	-1,034.26	3,567.29	3,486.05	81.24	43.910		
8,200.00	7,247.05	7,914.07	7,069.01	43.96	42.39	87.14	1,676.14	-1,134.26	3,567.11	3,482.65	84.45	42.238		
8,300.00	7,246.46	8,014.07	7,068.73	45.46	44.15	87.14	1,675.38	-1,234.25	3,566.92	3,479.00	87.92	40.571		
8,400.00	7,245.86	8,114.07	7,068.44	47.13	46.03	87.15	1,674.63	-1,334.25	3,566.74	3,475.13	91.61	38.934		
8,500.00	7,245.27	8,214.07	7,068.16	48.93	48.01	87.15	1,673.88	-1,434.24	3,566.55	3,471.05	95.50	37.346		
8,600.00	7,244.67	8,314.06	7,067.88	50.84	50.07	87.16	1,673.13	-1,534.24	3,566.37	3,466.80	99.57	35.819		
8,700.00	7,244.07	8,414.06	7,067.59	52.85	52.21	87.16	1,672.37	-1,634.24	3,566.19	3,462.40	103.79	34.361		
8,800.00	7,243.48	8,514.06	7,067.31	54.94	54.42	87.17	1,671.62	-1,734.23	3,566.00	3,457.86	108.15	32.974		
8,900.00	7,242.88	8,614.06	7,067.02	57.10	56.68	87.17	1,670.87	-1,834.23	3,565.82	3,453.19	112.63	31.661		
9,000.00	7,242.29	8,714.06	7,066.74	59.32	59.00	87.18	1,670.12	-1,934.23	3,565.63	3,448.42	117.21	30.420		
9,100.00	7,241.69	8,814.06	7,066.45	61.60	61.36	87.18	1,669.36	-2,034.22	3,565.45	3,443.56	121.89	29.250		
9,200.00	7,241.09	8,914.06	7,066.17	63.92	63.76	87.19	1,668.61	-2,134.22	3,565.27	3,438.61	126.66	28.148		
9,300.00	7,240.50	9,014.06	7,065.88	66.29	66.20	87.19	1,667.86	-2,234.21	3,565.08	3,433.58	131.50	27.110		
9,400.00	7,239.90	9,114.06	7,065.60	68.70	68.67	87.20	1,667.11	-2,334.21	3,564.90	3,428.49	136.41	26.133		
9,500.00	7,239.31	9,214.06	7,065.31	71.14	71.17	87.20	1,666.35	-2,434.21	3,564.72	3,423.33	141.38	25.213		
9,600.00	7,238.71	9,314.06	7,065.03	73.61	73.69	87.21	1,665.60	-2,534.20	3,564.53	3,418.13	146.41	24.347		
9,700.00	7,238.11	9,414.06	7,064.74	76.11	76.24	87.21	1,664.85	-2,634.20	3,564.35	3,412.87	151.48	23.530		
9,800.00	7,237.52	9,514.06	7,064.46	78.64	78.81	87.22	1,664.10	-2,734.19	3,564.16	3,407.57	156.60	22.760		
9,900.00	7,236.92	9,614.06	7,064.17	81.19	81.40	87.22	1,663.34	-2,834.19	3,563.98	3,402.23	161.75	22.034		
10,000.00	7,236.33	9,714.06	7,063.89	83.75	84.01	87.23	1,662.59	-2,934.19	3,563.80	3,396.85	166.95	21.347		
10,100.00	7,235.73	9,814.06	7,063.60	86.34	86.63	87.23	1,661.84	-3,034.18	3,563.61	3,391.44	172.17	20.698		
10,200.00	7,235.14	9,914.05	7,063.32	88.94	89.27	87.24	1,661.09	-3,134.18	3,563.43	3,386.00	177.43	20.084		
10,300.00	7,234.54	10,014.05	7,063.03	91.56	91.92	87.24	1,660.33	-3,234.18	3,563.25	3,380.54	182.71	19.502		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	10,114.05	7,062.75	94.19	94.59	87.25	1,659.58	-3,334.17	3,563.06	3,375.04	188.02	18.950		
10,500.00	7,233.35	10,214.05	7,062.46	96.84	97.26	87.25	1,658.83	-3,434.17	3,562.88	3,369.53	193.35	18.427		
10,600.00	7,232.75	10,314.05	7,062.18	99.50	99.94	87.26	1,658.08	-3,534.16	3,562.70	3,363.99	198.71	17.930		
10,700.00	7,232.16	10,414.05	7,061.90	102.17	102.64	87.26	1,657.32	-3,634.16	3,562.51	3,358.44	204.08	17.457		
10,800.00	7,231.56	10,514.05	7,061.61	104.85	105.34	87.27	1,656.57	-3,734.16	3,562.33	3,352.86	209.47	17.006		
10,900.00	7,230.96	10,614.05	7,061.33	107.53	108.05	87.27	1,655.82	-3,834.15	3,562.15	3,347.27	214.88	16.578		
11,000.00	7,230.37	10,714.05	7,061.04	110.23	110.77	87.28	1,655.07	-3,934.15	3,561.96	3,341.66	220.30	16.169		
11,100.00	7,229.77	10,814.05	7,060.76	112.93	113.49	87.28	1,654.31	-4,034.14	3,561.78	3,336.04	225.74	15.779		
11,200.00	7,229.18	10,914.05	7,060.47	115.65	116.23	87.29	1,653.56	-4,134.14	3,561.60	3,330.41	231.19	15.406		
11,300.00	7,228.58	11,014.05	7,060.19	118.37	118.96	87.29	1,652.81	-4,234.14	3,561.41	3,324.76	236.65	15.049		
11,400.00	7,227.99	11,114.05	7,059.90	121.09	121.71	87.30	1,652.06	-4,334.13	3,561.23	3,319.11	242.12	14.708		
11,500.00	7,227.39	11,214.05	7,059.62	123.82	124.45	87.30	1,651.30	-4,434.13	3,561.05	3,313.44	247.61	14.382		
11,600.00	7,226.79	11,314.05	7,059.33	126.56	127.21	87.31	1,650.55	-4,534.13	3,560.86	3,307.76	253.11	14.069		
11,700.00	7,226.20	11,414.05	7,059.05	129.30	129.96	87.31	1,649.80	-4,634.12	3,560.68	3,302.07	258.61	13.769		
11,800.00	7,225.60	11,514.04	7,058.76	132.05	132.73	87.31	1,649.05	-4,734.12	3,560.50	3,296.37	264.12	13.480		
11,900.00	7,225.01	11,614.04	7,058.48	134.80	135.49	87.32	1,648.29	-4,834.11	3,560.32	3,290.67	269.65	13.204		
12,000.00	7,224.41	11,714.04	7,058.19	137.56	138.26	87.32	1,647.54	-4,934.11	3,560.13	3,284.96	275.18	12.938		
12,100.00	7,223.81	11,814.04	7,057.91	140.32	141.03	87.33	1,646.79	-5,034.11	3,559.95	3,279.24	280.71	12.682		
12,200.00	7,223.22	11,914.04	7,057.62	143.08	143.81	87.33	1,646.04	-5,134.10	3,559.77	3,273.51	286.26	12.436		
12,300.00	7,222.62	12,014.04	7,057.34	145.85	146.59	87.34	1,645.29	-5,234.10	3,559.58	3,267.78	291.81	12.198		
12,400.00	7,222.03	12,114.04	7,057.05	148.62	149.37	87.34	1,644.53	-5,334.09	3,559.40	3,262.04	297.37	11.970		
12,500.00	7,221.43	12,214.04	7,056.77	151.40	152.16	87.35	1,643.78	-5,434.09	3,559.22	3,256.29	302.93	11.749		
12,600.00	7,220.83	12,314.04	7,056.48	154.18	154.94	87.35	1,643.03	-5,534.09	3,559.04	3,250.54	308.50	11.537		
12,700.00	7,220.24	12,414.04	7,056.20	156.96	157.74	87.36	1,642.28	-5,634.08	3,558.85	3,244.78	314.07	11.331		
12,800.00	7,219.64	12,514.04	7,055.92	159.74	160.53	87.36	1,641.52	-5,734.08	3,558.67	3,239.02	319.65	11.133		
12,900.00	7,219.05	12,614.04	7,055.63	162.53	163.32	87.37	1,640.77	-5,834.07	3,558.49	3,233.25	325.23	10.941		
13,000.00	7,218.45	12,714.04	7,055.35	165.32	166.12	87.37	1,640.02	-5,934.07	3,558.30	3,227.48	330.82	10.756		
13,100.00	7,217.86	12,814.04	7,055.06	168.11	168.92	87.38	1,639.27	-6,034.07	3,558.12	3,221.71	336.41	10.577		
13,200.00	7,217.26	12,914.04	7,054.78	170.90	171.72	87.38	1,638.51	-6,134.06	3,557.94	3,215.93	342.01	10.403		
13,300.00	7,216.66	13,014.04	7,054.49	173.70	174.52	87.39	1,637.76	-6,234.06	3,557.76	3,210.15	347.61	10.235		
13,400.00	7,216.07	13,114.03	7,054.21	176.49	177.33	87.39	1,637.01	-6,334.06	3,557.57	3,204.36	353.21	10.072		
13,500.00	7,215.47	13,214.03	7,053.92	179.29	180.14	87.40	1,636.26	-6,434.05	3,557.39	3,198.57	358.82	9.914		
13,600.00	7,214.88	13,314.03	7,053.64	182.09	182.94	87.40	1,635.50	-6,534.05	3,557.21	3,192.78	364.43	9.761		
13,700.00	7,214.28	13,414.03	7,053.35	184.90	185.75	87.41	1,634.75	-6,634.04	3,557.03	3,186.98	370.05	9.612		
13,800.00	7,213.68	13,514.03	7,053.07	187.70	188.56	87.41	1,634.00	-6,734.04	3,556.84	3,181.18	375.66	9.468		
13,900.00	7,213.09	13,614.03	7,052.78	190.51	191.38	87.42	1,633.25	-6,834.04	3,556.66	3,175.38	381.28	9.328		
14,000.00	7,212.49	13,714.03	7,052.50	193.32	194.19	87.42	1,632.49	-6,934.03	3,556.48	3,169.57	386.90	9.192		
14,100.00	7,211.90	13,814.03	7,052.21	196.13	197.01	87.43	1,631.74	-7,034.03	3,556.30	3,163.77	392.53	9.060		
14,200.00	7,211.30	13,914.03	7,051.93	198.94	199.82	87.43	1,630.99	-7,134.02	3,556.11	3,157.96	398.16	8.931		
14,300.00	7,210.71	14,014.03	7,051.64	201.75	202.64	87.44	1,630.24	-7,234.02	3,555.93	3,152.14	403.79	8.806		
14,400.00	7,210.11	14,114.03	7,051.36	204.56	205.46	87.44	1,629.48	-7,334.02	3,555.75	3,146.33	409.42	8.685		
14,500.00	7,209.51	14,214.03	7,051.07	207.38	208.28	87.45	1,628.73	-7,434.01	3,555.57	3,140.51	415.06	8.566		
14,600.00	7,208.92	14,314.03	7,050.79	210.19	211.10	87.45	1,627.98	-7,534.01	3,555.38	3,134.69	420.69	8.451		
14,700.00	7,208.32	14,414.03	7,050.50	213.01	213.92	87.46	1,627.23	-7,634.01	3,555.20	3,128.87	426.33	8.339		
14,800.00	7,207.73	14,514.03	7,050.22	215.83	216.74	87.46	1,626.47	-7,734.00	3,555.02	3,123.05	431.97	8.230		
14,900.00	7,207.13	14,614.03	7,049.94	218.65	219.57	87.47	1,625.72	-7,834.00	3,554.84	3,117.22	437.62	8.123		
15,000.00	7,206.53	14,714.02	7,049.65	221.47	222.39	87.47	1,624.97	-7,933.99	3,554.65	3,111.39	443.26	8.019		
15,100.00	7,205.94	14,814.02	7,049.37	224.29	225.22	87.48	1,624.22	-8,033.99	3,554.47	3,105.56	448.91	7.918		
15,200.00	7,205.34	14,914.02	7,049.08	227.11	228.04	87.48	1,623.46	-8,133.99	3,554.29	3,099.73	454.56	7.819		
15,232.56	7,205.15	14,946.58	7,048.99	228.03	228.96	87.48	1,623.22	-8,166.54	3,554.23	3,097.84	456.39	7.788		
15,258.04	7,205.00	14,942.37	7,049.00	228.75	228.85	87.48	1,623.25	-8,162.33	3,554.31	3,097.33	456.98	7.778 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.48	299.83	2.50	299.84					
100.00	100.00	101.00	100.00	3.28	3.28	0.48	299.83	2.50	299.84	293.27	6.57	45.640		
200.00	200.00	201.00	200.00	3.34	3.34	0.48	299.83	2.50	299.84	293.16	6.67	44.920	CC, ES	
300.00	299.98	300.98	299.98	3.44	3.45	175.75	299.83	2.50	301.58	294.69	6.89	43.794		
400.00	399.84	400.84	399.84	3.59	3.60	175.81	299.83	2.50	306.80	299.60	7.20	42.628		
500.00	499.45	500.45	499.45	3.79	3.81	175.91	299.83	2.50	315.49	307.89	7.60	41.515		
600.00	598.70	599.70	598.70	4.03	4.05	176.05	299.83	2.50	327.65	319.57	8.08	40.550		
700.00	697.47	698.47	697.47	4.31	4.29	176.10	301.09	1.97	344.65	336.04	8.60	40.056		
800.00	795.62	796.62	795.62	4.64	4.54	175.98	304.81	0.40	367.82	358.65	9.18	40.089		
900.00	893.06	894.06	893.06	5.00	4.84	175.79	310.50	-2.00	396.05	386.25	9.80	40.413		
1,000.00	989.65	990.65	989.65	5.40	5.15	175.65	316.23	-4.42	427.61	417.14	10.47	40.843		
1,100.00	1,085.85	1,086.85	1,085.85	5.82	5.48	175.58	321.93	-6.83	460.57	449.42	11.15	41.319		
1,200.00	1,182.06	1,183.06	1,182.06	6.27	5.82	175.52	327.63	-9.24	493.52	481.67	11.85	41.635		
1,300.00	1,278.26	1,279.26	1,278.26	6.73	6.17	175.47	333.34	-11.65	526.47	513.89	12.58	41.838		
1,400.00	1,374.47	1,375.47	1,374.47	7.20	6.52	175.43	339.04	-14.06	559.43	546.09	13.33	41.957		
1,500.00	1,470.67	1,471.67	1,470.67	7.69	6.89	175.39	344.74	-16.47	592.38	578.28	14.10	42.013		
1,600.00	1,566.88	1,567.88	1,566.88	8.18	7.25	175.35	350.45	-18.88	625.34	610.46	14.88	42.025		
1,700.00	1,663.08	1,664.08	1,663.08	8.68	7.63	175.32	356.15	-21.29	658.29	642.62	15.67	42.003		
1,800.00	1,759.29	1,760.29	1,759.29	9.19	8.01	175.29	361.85	-23.70	691.25	674.77	16.48	41.957		
1,900.00	1,855.49	1,856.49	1,855.49	9.70	8.39	175.26	367.56	-26.11	724.20	706.92	17.29	41.895		
2,000.00	1,951.70	1,952.70	1,951.70	10.22	8.77	175.24	373.26	-28.52	757.16	739.05	18.11	41.820		
2,100.00	2,047.90	2,048.90	2,047.90	10.73	9.16	175.22	378.96	-30.92	790.12	771.18	18.93	41.738		
2,200.00	2,144.11	2,145.11	2,144.11	11.26	9.55	175.19	384.67	-33.33	823.07	803.31	19.76	41.650		
2,300.00	2,240.31	2,241.31	2,240.31	11.78	10.01	175.18	390.37	-35.74	856.03	835.37	20.66	41.438		
2,400.00	2,336.52	2,337.52	2,336.52	12.31	10.34	175.16	396.08	-38.15	888.98	867.54	21.44	41.466		
2,500.00	2,432.72	2,433.72	2,432.72	12.84	10.74	175.14	401.78	-40.56	921.94	899.66	22.28	41.374		
2,600.00	2,528.93	2,529.93	2,528.93	13.37	11.14	175.13	407.48	-42.97	954.90	931.76	23.13	41.281		
2,700.00	2,625.13	2,626.13	2,625.13	13.91	11.54	175.11	413.19	-45.38	987.85	963.87	23.98	41.190		
2,800.00	2,721.34	2,722.34	2,721.34	14.44	11.94	175.10	418.89	-47.79	1,020.81	995.97	24.84	41.100		
2,900.00	2,817.54	2,818.54	2,817.54	14.98	12.34	175.09	424.59	-50.20	1,053.76	1,028.07	25.69	41.013		
3,000.00	2,913.75	2,914.75	2,913.75	15.52	12.74	175.07	430.30	-52.61	1,086.72	1,060.17	26.55	40.927		
3,100.00	3,009.95	3,010.95	3,009.95	16.06	13.15	175.06	436.00	-55.02	1,119.68	1,092.26	27.41	40.844		
3,200.00	3,106.16	3,107.16	3,106.16	16.60	13.55	175.05	441.70	-57.42	1,152.63	1,124.36	28.28	40.763		
3,300.00	3,202.37	3,203.37	3,202.37	17.14	13.96	175.04	447.41	-59.83	1,185.59	1,156.45	29.14	40.684		
3,400.00	3,298.57	3,299.57	3,298.57	17.68	14.36	175.03	453.11	-62.24	1,218.55	1,188.54	30.01	40.608		
3,500.00	3,394.78	3,395.78	3,394.78	18.22	14.77	175.03	458.81	-64.65	1,251.50	1,220.63	30.88	40.534		
3,600.00	3,490.98	3,491.98	3,490.98	18.76	15.18	175.02	464.52	-67.06	1,284.46	1,252.72	31.74	40.462		
3,700.00	3,587.19	3,588.19	3,587.19	19.31	15.59	175.01	470.22	-69.47	1,317.42	1,284.80	32.61	40.393		
3,800.00	3,683.39	3,684.39	3,683.39	19.85	16.00	175.00	475.92	-71.88	1,350.37	1,316.89	33.49	40.326		
3,900.00	3,779.60	3,780.60	3,779.60	20.39	16.40	174.99	481.63	-74.29	1,383.33	1,348.97	34.36	40.261		
4,000.00	3,875.80	3,876.80	3,875.80	20.94	16.83	174.99	487.33	-76.70	1,416.29	1,381.04	35.25	40.177		
4,100.00	3,972.01	3,973.01	3,972.01	21.48	17.29	174.98	493.03	-79.11	1,449.24	1,413.07	36.17	40.063		
4,200.00	4,068.21	4,069.21	4,068.21	22.03	17.63	174.98	498.74	-81.52	1,482.20	1,445.22	36.98	40.079		
4,300.00	4,164.42	4,165.42	4,164.42	22.57	18.05	174.97	504.44	-83.92	1,515.16	1,477.30	37.86	40.022		
4,400.00	4,260.62	4,261.62	4,260.62	23.12	18.46	174.96	510.14	-86.33	1,548.11	1,509.38	38.73	39.967		
4,500.00	4,356.83	4,357.83	4,356.83	23.67	18.87	174.96	515.85	-88.74	1,581.07	1,541.46	39.61	39.914		
4,600.00	4,453.03	4,454.03	4,453.03	24.21	19.28	174.95	521.55	-91.15	1,614.03	1,573.54	40.49	39.862		
4,700.00	4,549.24	4,550.24	4,549.24	24.76	19.69	174.95	527.25	-93.56	1,646.98	1,605.62	41.37	39.812		
4,800.00	4,645.44	4,646.44	4,645.44	25.31	20.10	174.94	532.96	-95.97	1,679.94	1,637.69	42.25	39.763		
4,900.00	4,741.65	4,742.65	4,741.65	25.86	20.52	174.94	538.66	-98.38	1,712.90	1,669.77	43.13	39.716		
5,000.00	4,837.85	4,838.85	4,837.85	26.40	20.93	174.93	544.36	-100.79	1,745.85	1,701.85	44.01	39.671		
5,100.00	4,934.06	4,935.06	4,934.06	26.95	21.34	174.93	550.07	-103.20	1,778.81	1,733.92	44.89	39.626		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,930.80	4,920.74	27.50	21.75	174.93	555.77	-105.61	1,811.77	1,766.00	45.77	39.583		
5,300.00	5,126.47	5,025.21	5,014.95	28.05	22.17	174.92	561.47	-108.02	1,844.73	1,798.07	46.65	39.542		
5,400.00	5,222.67	5,119.62	5,109.16	28.60	22.58	174.92	567.18	-110.42	1,877.68	1,830.15	47.54	39.501		
5,500.00	5,318.88	5,214.04	5,203.37	29.15	22.99	174.91	572.88	-112.83	1,910.64	1,862.22	48.42	39.461		
5,600.00	5,415.08	5,308.45	5,297.58	29.70	23.41	174.91	578.58	-115.24	1,943.60	1,894.29	49.30	39.423		
5,700.00	5,511.29	5,402.86	5,391.79	30.25	23.82	174.91	584.29	-117.65	1,976.55	1,926.37	50.18	39.386		
5,800.00	5,607.49	5,502.73	5,486.00	30.79	24.26	174.90	589.99	-120.06	2,009.51	1,958.42	51.09	39.331		
5,900.00	5,703.70	5,608.31	5,580.21	31.34	24.72	174.90	595.70	-122.47	2,042.47	1,990.44	52.03	39.259		
6,000.00	5,799.90	5,686.10	5,674.42	31.89	25.06	174.90	601.40	-124.88	2,075.42	2,022.59	52.84	39.280		
6,100.00	5,896.11	5,780.51	5,768.63	32.44	25.48	174.89	607.10	-127.29	2,108.38	2,054.66	53.72	39.246		
6,200.00	5,992.32	5,874.93	5,862.84	32.99	25.89	174.89	612.81	-129.70	2,141.34	2,086.73	54.61	39.214		
6,300.00	6,088.52	5,969.34	5,957.05	33.54	26.31	174.89	618.51	-132.11	2,174.29	2,118.80	55.49	39.182		
6,400.00	6,184.73	6,063.75	6,051.26	34.09	26.72	174.89	624.21	-134.52	2,207.25	2,150.87	56.38	39.151		
6,500.00	6,280.93	6,158.17	6,145.47	34.64	27.14	174.88	629.92	-136.92	2,240.21	2,182.94	57.26	39.121		
6,600.00	6,377.14	6,252.58	6,239.68	35.19	27.55	174.88	635.62	-139.33	2,273.16	2,215.01	58.15	39.091		
6,700.00	6,473.34	6,346.99	6,333.89	35.74	27.97	174.88	641.32	-141.74	2,306.12	2,247.08	59.04	39.062		
6,800.00	6,569.55	6,441.41	6,428.10	36.29	28.38	174.87	647.03	-144.15	2,339.08	2,279.15	59.92	39.034		
6,900.00	6,665.75	6,535.82	6,522.31	36.84	28.80	169.76	652.73	-146.56	2,372.03	2,311.22	60.81	39.006		
7,000.00	6,761.11	6,629.66	6,615.95	37.39	29.21	140.75	658.40	-148.96	2,404.79	2,343.09	61.69	38.981		
7,100.00	6,853.41	6,722.60	6,708.39	37.89	29.62	122.58	664.02	-155.84	2,436.77	2,374.21	62.55	38.954		
7,200.00	6,940.36	6,818.81	6,802.02	38.34	30.05	111.36	669.80	-176.84	2,467.31	2,403.88	63.44	38.895		
7,300.00	7,019.83	6,919.38	6,895.32	38.74	30.49	103.95	675.65	-213.62	2,495.70	2,431.35	64.35	38.782		
7,400.00	7,089.85	7,025.13	6,985.91	39.10	30.98	98.80	681.44	-267.64	2,521.24	2,455.89	65.35	38.583		
7,500.00	7,148.71	7,136.74	7,070.44	39.42	31.54	95.17	686.97	-340.09	2,543.25	2,476.76	66.49	38.252		
7,600.00	7,194.95	7,254.57	7,144.53	39.71	32.25	92.66	691.98	-431.36	2,561.14	2,493.25	67.88	37.729		
7,700.00	7,227.43	7,378.44	7,202.93	40.01	33.19	91.05	696.15	-540.29	2,574.35	2,504.70	69.66	36.958		
7,800.00	7,245.37	7,507.42	7,240.21	40.37	34.43	90.21	699.13	-663.50	2,582.46	2,510.59	71.87	35.931		
7,900.00	7,248.84	7,638.01	7,251.98	40.87	35.93	90.07	700.60	-793.32	2,585.32	2,510.83	74.49	34.708		
8,000.00	7,248.24	7,738.00	7,251.61	41.62	37.27	90.07	701.17	-893.31	2,586.47	2,509.41	77.06	33.564		
8,100.00	7,247.65	7,838.00	7,251.25	42.66	38.76	90.08	701.74	-993.30	2,587.62	2,507.68	79.94	32.368		
8,200.00	7,247.05	7,937.99	7,250.88	43.96	40.40	90.08	702.30	-1,093.29	2,588.77	2,505.65	83.12	31.144		
8,300.00	7,246.46	8,037.98	7,250.51	45.46	42.17	90.09	702.87	-1,193.29	2,589.93	2,503.36	86.56	29.920		
8,400.00	7,245.86	8,137.98	7,250.15	47.13	44.05	90.09	703.44	-1,293.28	2,591.08	2,500.84	90.23	28.715		
8,500.00	7,245.27	8,237.97	7,249.78	48.93	46.03	90.10	704.00	-1,393.27	2,592.23	2,498.12	94.11	27.544		
8,600.00	7,244.67	8,337.96	7,249.41	50.84	48.11	90.10	704.57	-1,493.26	2,593.38	2,495.21	98.17	26.418		
8,700.00	7,244.07	8,437.95	7,249.05	52.85	50.26	90.11	705.14	-1,593.25	2,594.53	2,492.15	102.38	25.341		
8,800.00	7,243.48	8,537.95	7,248.68	54.94	52.48	90.11	705.70	-1,693.24	2,595.68	2,488.94	106.74	24.318		
8,900.00	7,242.88	8,637.94	7,248.32	57.10	54.75	90.12	706.27	-1,793.23	2,596.83	2,485.61	111.22	23.348		
9,000.00	7,242.29	8,737.93	7,247.95	59.32	57.09	90.12	706.84	-1,893.22	2,597.98	2,482.17	115.81	22.433		
9,100.00	7,241.69	8,837.93	7,247.58	61.60	59.46	90.13	707.40	-1,993.21	2,599.13	2,478.64	120.50	21.570		
9,200.00	7,241.09	8,937.92	7,247.22	63.92	61.88	90.13	707.97	-2,093.20	2,600.29	2,475.02	125.27	20.758		
9,300.00	7,240.50	9,037.91	7,246.85	66.29	64.34	90.14	708.54	-2,193.19	2,601.44	2,471.32	130.12	19.993		
9,400.00	7,239.90	9,137.91	7,246.48	68.70	66.82	90.14	709.10	-2,293.19	2,602.59	2,467.55	135.03	19.274		
9,500.00	7,239.31	9,237.90	7,246.12	71.14	69.34	90.15	709.67	-2,393.18	2,603.74	2,463.73	140.01	18.597		
9,600.00	7,238.71	9,337.89	7,245.75	73.61	71.88	90.15	710.24	-2,493.17	2,604.89	2,459.85	145.04	17.959		
9,700.00	7,238.11	9,437.89	7,245.39	76.11	74.45	90.16	710.81	-2,593.16	2,606.04	2,455.92	150.13	17.359		
9,800.00	7,237.52	9,537.88	7,245.02	78.64	77.04	90.16	711.37	-2,693.15	2,607.19	2,451.94	155.25	16.793		
9,900.00	7,236.92	9,637.87	7,244.65	81.19	79.64	90.17	711.94	-2,793.14	2,608.34	2,447.92	160.42	16.260		
10,000.00	7,236.33	9,737.86	7,244.29	83.75	82.26	90.17	712.51	-2,893.13	2,609.49	2,443.87	165.62	15.756		
10,100.00	7,235.73	9,837.86	7,243.92	86.34	84.90	90.18	713.07	-2,993.12	2,610.65	2,439.79	170.86	15.280		
10,200.00	7,235.14	9,937.85	7,243.56	88.94	87.55	90.18	713.64	-3,093.11	2,611.80	2,435.67	176.12	14.829		
10,300.00	7,234.54	10,037.84	7,243.19	91.56	90.22	90.19	714.21	-3,193.10	2,612.95	2,431.53	181.42	14.403		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	10,137.84	7,242.82	94.19	92.89	90.19	714.77	-3,293.09	2,614.10	2,427.36	186.74	13.999		
10,500.00	7,233.35	10,237.83	7,242.46	96.84	95.58	90.20	715.34	-3,393.08	2,615.25	2,423.17	192.08	13.615		
10,600.00	7,232.75	10,337.82	7,242.09	99.50	98.28	90.20	715.91	-3,493.08	2,616.40	2,418.96	197.44	13.251		
10,700.00	7,232.16	10,437.82	7,241.72	102.17	100.99	90.21	716.47	-3,593.07	2,617.55	2,414.73	202.83	12.905		
10,800.00	7,231.56	10,537.81	7,241.36	104.85	103.70	90.21	717.04	-3,693.06	2,618.71	2,410.48	208.23	12.576		
10,900.00	7,230.96	10,637.80	7,240.99	107.53	106.42	90.22	717.61	-3,793.05	2,619.86	2,406.21	213.65	12.263		
11,000.00	7,230.37	10,737.80	7,240.63	110.23	109.15	90.22	718.17	-3,893.04	2,621.01	2,401.93	219.08	11.964		
11,100.00	7,229.77	10,837.79	7,240.26	112.93	111.89	90.23	718.74	-3,993.03	2,622.16	2,397.64	224.53	11.679		
11,200.00	7,229.18	10,937.78	7,239.89	115.65	114.63	90.23	719.31	-4,093.02	2,623.31	2,393.33	229.99	11.406		
11,300.00	7,228.58	11,037.78	7,239.53	118.37	117.38	90.24	719.87	-4,193.01	2,624.46	2,389.00	235.46	11.146		
11,400.00	7,227.99	11,137.77	7,239.16	121.09	120.13	90.24	720.44	-4,293.00	2,625.62	2,384.67	240.94	10.897		
11,500.00	7,227.39	11,237.76	7,238.80	123.82	122.89	90.24	721.01	-4,392.99	2,626.77	2,380.33	246.44	10.659		
11,600.00	7,226.79	11,337.75	7,238.43	126.56	125.65	90.25	721.58	-4,492.98	2,627.92	2,375.97	251.94	10.431		
11,700.00	7,226.20	11,437.75	7,238.06	129.30	128.42	90.25	722.14	-4,592.97	2,629.07	2,371.61	257.46	10.212		
11,800.00	7,225.60	11,537.74	7,237.70	132.05	131.19	90.26	722.71	-4,692.97	2,630.22	2,367.24	262.98	10.002		
11,900.00	7,225.01	11,637.73	7,237.33	134.80	133.97	90.26	723.28	-4,792.96	2,631.37	2,362.86	268.51	9.800		
12,000.00	7,224.41	11,737.73	7,236.96	137.56	136.75	90.27	723.84	-4,892.95	2,632.53	2,358.47	274.05	9.606		
12,100.00	7,223.81	11,837.72	7,236.60	140.32	139.53	90.27	724.41	-4,992.94	2,633.68	2,354.08	279.60	9.419		
12,200.00	7,223.22	11,937.71	7,236.23	143.08	142.32	90.28	724.98	-5,092.93	2,634.83	2,349.67	285.15	9.240		
12,300.00	7,222.62	12,037.71	7,235.87	145.85	145.10	90.28	725.54	-5,192.92	2,635.98	2,345.27	290.71	9.067		
12,400.00	7,222.03	12,137.70	7,235.50	148.62	147.90	90.29	726.11	-5,292.91	2,637.13	2,340.85	296.28	8.901		
12,500.00	7,221.43	12,237.69	7,235.13	151.40	150.69	90.29	726.68	-5,392.90	2,638.28	2,336.43	301.85	8.740		
12,600.00	7,220.83	12,337.69	7,234.77	154.18	153.49	90.30	727.24	-5,492.89	2,639.44	2,332.01	307.43	8.585		
12,700.00	7,220.24	12,437.68	7,234.40	156.96	156.28	90.30	727.81	-5,592.88	2,640.59	2,327.57	313.01	8.436		
12,800.00	7,219.64	12,537.67	7,234.04	159.74	159.09	90.31	728.38	-5,692.87	2,641.74	2,323.14	318.60	8.292		
12,900.00	7,219.05	12,637.67	7,233.67	162.53	161.89	90.31	728.94	-5,792.86	2,642.89	2,318.70	324.19	8.152		
13,000.00	7,218.45	12,737.66	7,233.30	165.32	164.69	90.32	729.51	-5,892.86	2,644.04	2,314.25	329.79	8.017		
13,100.00	7,217.86	12,837.65	7,232.94	168.11	167.50	90.32	730.08	-5,992.85	2,645.20	2,309.80	335.39	7.887		
13,200.00	7,217.26	12,937.64	7,232.57	170.90	170.31	90.33	730.64	-6,092.84	2,646.35	2,305.35	341.00	7.761		
13,300.00	7,216.66	13,037.64	7,232.20	173.70	173.12	90.33	731.21	-6,192.83	2,647.50	2,300.90	346.60	7.638		
13,400.00	7,216.07	13,137.63	7,231.84	176.49	175.93	90.34	731.78	-6,292.82	2,648.65	2,296.43	352.22	7.520		
13,500.00	7,215.47	13,237.62	7,231.47	179.29	178.75	90.34	732.34	-6,392.81	2,649.80	2,291.97	357.83	7.405		
13,600.00	7,214.88	13,337.62	7,231.11	182.09	181.56	90.35	732.91	-6,492.80	2,650.95	2,287.50	363.45	7.294		
13,700.00	7,214.28	13,437.61	7,230.74	184.90	184.38	90.35	733.48	-6,592.79	2,652.11	2,283.03	369.07	7.186		
13,800.00	7,213.68	13,537.60	7,230.37	187.70	187.20	90.36	734.05	-6,692.78	2,653.26	2,278.56	374.70	7.081		
13,900.00	7,213.09	13,637.60	7,230.01	190.51	190.02	90.36	734.61	-6,792.77	2,654.41	2,274.09	380.33	6.979		
14,000.00	7,212.49	13,737.59	7,229.64	193.32	192.84	90.37	735.18	-6,892.76	2,655.56	2,269.61	385.96	6.880		
14,100.00	7,211.90	13,837.58	7,229.28	196.13	195.66	90.37	735.75	-6,992.75	2,656.72	2,265.13	391.59	6.784		
14,200.00	7,211.30	13,937.58	7,228.91	198.94	198.48	90.38	736.31	-7,092.75	2,657.87	2,260.64	397.23	6.691		
14,300.00	7,210.71	14,037.57	7,228.54	201.75	201.31	90.38	736.88	-7,192.74	2,659.02	2,256.16	402.86	6.600		
14,400.00	7,210.11	14,137.56	7,228.18	204.56	204.13	90.39	737.45	-7,292.73	2,660.17	2,251.67	408.50	6.512		
14,500.00	7,209.51	14,237.56	7,227.81	207.38	206.96	90.39	738.01	-7,392.72	2,661.32	2,247.18	414.15	6.426		
14,600.00	7,208.92	14,337.55	7,227.44	210.19	209.79	90.39	738.58	-7,492.71	2,662.48	2,242.69	419.79	6.342		
14,700.00	7,208.32	14,437.54	7,227.08	213.01	212.62	90.40	739.15	-7,592.70	2,663.63	2,238.19	425.44	6.261		
14,800.00	7,207.73	14,537.53	7,226.71	215.83	215.45	90.40	739.71	-7,692.69	2,664.78	2,233.69	431.09	6.182		
14,900.00	7,207.13	14,637.53	7,226.35	218.65	218.28	90.41	740.28	-7,792.68	2,665.93	2,229.20	436.74	6.104		
15,000.00	7,206.53	14,737.52	7,225.98	221.47	221.11	90.41	740.85	-7,892.67	2,667.08	2,224.70	442.39	6.029		
15,100.00	7,205.94	14,837.51	7,225.61	224.29	223.94	90.42	741.41	-7,992.66	2,668.24	2,220.19	448.04	5.955		
15,200.00	7,205.34	14,937.51	7,225.25	227.11	226.77	90.42	741.98	-8,092.65	2,669.39	2,215.69	453.70	5.884		
15,258.04	7,205.00	14,995.55	7,225.03	228.75	228.42	90.43	742.31	-8,150.69	2,670.06	2,213.08	456.98	5.843 SF		





# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	-179.60	-120.21	-0.83	120.22					
100.00	100.00	101.00	100.00	3.28	3.28	-179.60	-120.21	-0.83	120.22	113.65	6.57	18.299		
200.00	200.00	199.00	200.00	3.34	3.34	-179.60	-120.21	-0.83	120.22	113.54	6.67	18.015		
300.00	299.98	295.02	296.00	3.44	3.43	-4.39	-121.79	-0.91	120.12	113.23	6.88	17.452		
400.00	399.84	391.00	391.86	3.59	3.58	-4.48	-126.57	-1.13	119.88	112.69	7.20	16.657		
500.00	499.45	486.99	487.51	3.79	3.76	-4.64	-134.56	-1.50	119.52	111.91	7.61	15.705		
600.00	598.70	582.99	582.85	4.03	3.99	-4.85	-145.75	-2.02	119.02	110.92	8.11	14.680		
700.00	697.47	679.02	677.79	4.31	4.25	-5.14	-160.12	-2.68	118.40	109.73	8.68	13.648		
800.00	795.62	775.06	772.21	4.64	4.55	-5.48	-177.67	-3.49	117.65	108.35	9.30	12.649		
900.00	893.06	871.13	868.01	5.00	4.89	-5.90	-198.38	-4.45	116.78	106.81	9.97	11.711		
1,000.00	989.65	967.23	959.09	5.40	5.26	-6.39	-222.23	-5.55	115.81	105.12	10.69	10.832		
1,022.64	1,011.43	988.99	980.06	5.49	5.35	-6.50	-228.06	-5.82	115.72	104.86	10.86	10.659 CC, ES		
1,100.00	1,085.85	1,063.34	1,051.33	5.82	5.67	-6.83	-249.18	-6.80	116.72	105.28	11.44	10.203		
1,200.00	1,182.06	1,159.28	1,142.46	6.27	6.10	-7.12	-279.16	-8.19	120.99	108.77	12.21	9.906		
1,300.00	1,278.26	1,254.85	1,232.18	6.73	6.57	-7.26	-312.03	-9.71	128.57	115.57	13.00	9.888		
1,400.00	1,374.47	1,349.84	1,320.21	7.20	7.06	-7.27	-347.64	-11.35	139.46	125.66	13.80	10.105		
1,500.00	1,470.67	1,444.04	1,406.31	7.69	7.58	-7.16	-385.82	-13.12	153.61	139.00	14.60	10.517		
1,600.00	1,566.88	1,537.26	1,490.22	8.18	8.12	-6.98	-426.37	-14.99	170.97	155.57	15.41	11.097		
1,700.00	1,663.08	1,629.33	1,571.76	8.68	8.68	-6.75	-469.07	-16.97	191.51	175.30	16.21	11.817		
1,800.00	1,759.29	1,720.08	1,650.75	9.19	9.26	-6.51	-513.70	-19.03	215.14	198.15	16.99	12.660		
1,900.00	1,855.49	1,809.35	1,727.03	9.70	9.86	-6.26	-560.02	-21.18	241.82	224.05	17.77	13.607		
2,000.00	1,951.70	1,903.35	1,806.26	10.22	10.52	-6.02	-610.55	-23.51	270.60	251.93	18.66	14.499		
2,100.00	2,047.90	2,000.91	1,886.91	10.73	11.21	-5.82	-662.08	-25.90	299.46	279.84	19.62	15.265		
2,200.00	2,144.11	2,105.17	1,967.57	11.26	11.96	-5.65	-713.60	-28.28	328.33	307.70	20.62	15.919		
2,300.00	2,240.31	2,209.43	2,048.22	11.78	12.73	-5.51	-765.13	-30.66	357.20	335.55	21.65	16.501		
2,400.00	2,336.52	2,286.30	2,128.87	12.31	13.29	-5.39	-816.66	-33.05	386.07	363.54	22.52	17.141		
2,500.00	2,432.72	2,382.04	2,209.53	12.84	14.01	-5.29	-868.19	-35.43	414.94	391.42	23.52	17.645		
2,600.00	2,528.93	2,477.78	2,290.18	13.37	14.72	-5.20	-919.72	-37.81	443.81	419.29	24.52	18.102		
2,700.00	2,625.13	2,573.52	2,370.84	13.91	15.45	-5.13	-971.25	-40.19	472.68	447.16	25.53	18.518		
2,800.00	2,721.34	2,669.26	2,451.49	14.44	16.17	-5.06	-1,022.77	-42.58	501.56	475.02	26.54	18.897		
2,900.00	2,817.54	2,765.00	2,532.15	14.98	16.90	-5.00	-1,074.30	-44.96	530.43	502.87	27.56	19.244		
3,000.00	2,913.75	2,860.74	2,612.80	15.52	17.63	-4.94	-1,125.83	-47.34	559.31	530.72	28.59	19.563		
3,100.00	3,009.95	2,956.48	2,693.46	16.06	18.37	-4.89	-1,177.36	-49.73	588.19	558.56	29.62	19.856		
3,200.00	3,106.16	3,052.22	2,774.11	16.60	19.11	-4.85	-1,228.89	-52.11	617.06	586.40	30.66	20.127		
3,300.00	3,202.37	3,147.96	2,854.76	17.14	19.84	-4.81	-1,280.41	-54.49	645.94	614.24	31.70	20.378		
3,400.00	3,298.57	3,243.69	2,935.42	17.68	20.58	-4.77	-1,331.94	-56.88	674.82	642.07	32.74	20.611		
3,500.00	3,394.78	3,339.43	3,016.07	18.22	21.33	-4.73	-1,383.47	-59.26	703.69	669.90	33.79	20.827		
3,600.00	3,490.98	3,435.17	3,096.73	18.76	22.07	-4.70	-1,435.00	-61.64	732.57	697.73	34.84	21.029		
3,700.00	3,587.19	3,530.91	3,177.38	19.31	22.82	-4.67	-1,486.53	-64.03	761.45	725.56	35.89	21.217		
3,800.00	3,683.39	3,626.65	3,258.04	19.85	23.56	-4.65	-1,538.05	-66.41	790.32	753.38	36.94	21.393		
3,900.00	3,779.60	3,722.39	3,338.69	20.39	24.31	-4.62	-1,589.58	-68.79	819.20	781.20	38.00	21.559		
4,000.00	3,875.80	3,818.13	3,419.34	20.94	25.06	-4.60	-1,641.11	-71.18	848.08	809.02	39.06	21.714		
4,100.00	3,972.01	3,913.87	3,500.00	21.48	25.81	-4.58	-1,692.64	-73.56	876.96	836.84	40.12	21.860		
4,200.00	4,068.21	4,009.61	3,580.65	22.03	26.56	-4.55	-1,744.17	-75.94	905.84	864.66	41.18	21.998		
4,300.00	4,164.42	4,105.35	3,661.31	22.57	27.31	-4.54	-1,795.69	-78.33	934.72	892.47	42.24	22.127		
4,400.00	4,260.62	4,201.08	3,741.96	23.12	28.06	-4.52	-1,847.22	-80.71	963.59	920.29	43.31	22.250		
4,500.00	4,356.83	4,303.18	3,822.62	23.67	28.86	-4.50	-1,898.75	-83.09	992.47	948.06	44.41	22.346		
4,600.00	4,453.03	4,407.44	3,903.27	24.21	29.68	-4.48	-1,950.28	-85.48	1,021.35	975.82	45.53	22.430		
4,700.00	4,549.24	4,488.30	3,983.93	24.76	30.32	-4.47	-2,001.81	-87.86	1,050.23	1,003.72	46.51	22.581		
4,800.00	4,645.44	4,584.04	4,064.58	25.31	31.07	-4.45	-2,053.33	-90.24	1,079.11	1,031.53	47.58	22.680		
4,900.00	4,741.65	4,679.78	4,145.23	25.86	31.82	-4.44	-2,104.86	-92.63	1,107.99	1,059.34	48.65	22.774		
5,000.00	4,837.85	4,775.52	4,225.89	26.40	32.58	-4.43	-2,156.39	-95.01	1,136.87	1,087.14	49.72	22.864		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	4,871.26	4,306.54	26.95	33.33	-4.42	-2,207.92	-97.39	1,165.74	1,114.95	50.80	22.950		
5,200.00	5,030.26	4,967.00	4,387.20	27.50	34.09	-4.40	-2,259.45	-99.77	1,194.62	1,142.75	51.87	23.032		
5,300.00	5,126.47	5,062.74	4,467.85	28.05	34.85	-4.39	-2,310.97	-102.16	1,223.50	1,170.56	52.94	23.110		
5,400.00	5,222.67	5,158.47	4,548.51	28.60	35.60	-4.38	-2,362.50	-104.54	1,252.38	1,198.36	54.02	23.184		
5,500.00	5,318.88	5,254.21	4,629.16	29.15	36.36	-4.37	-2,414.03	-106.92	1,281.26	1,226.17	55.09	23.256		
5,600.00	5,415.08	5,349.95	4,709.82	29.70	37.11	-4.36	-2,465.56	-109.31	1,310.14	1,253.97	56.17	23.324		
5,700.00	5,511.29	5,445.69	4,790.47	30.25	37.87	-4.35	-2,517.09	-111.69	1,339.02	1,281.77	57.25	23.390		
5,800.00	5,607.49	5,541.43	4,871.12	30.79	38.63	-4.34	-2,568.61	-114.07	1,367.90	1,309.57	58.33	23.453		
5,900.00	5,703.70	5,637.17	4,951.78	31.34	39.39	-4.34	-2,620.14	-116.46	1,396.78	1,337.37	59.40	23.513		
6,000.00	5,799.90	5,732.91	5,032.43	31.89	40.14	-4.33	-2,671.67	-118.84	1,425.66	1,365.17	60.48	23.571		
6,100.00	5,896.11	5,892.38	5,168.23	32.44	41.38	-4.32	-2,755.16	-122.70	1,453.18	1,390.78	62.40	23.288		
6,200.00	5,992.32	6,092.05	5,344.35	32.99	42.83	-4.33	-2,849.06	-127.04	1,474.46	1,409.91	64.54	22.844		
6,300.00	6,088.52	6,296.89	5,531.37	33.54	44.18	-4.36	-2,932.41	-130.90	1,488.79	1,422.44	66.35	22.439		
6,400.00	6,184.73	6,504.94	5,726.93	34.09	45.42	-4.42	-3,003.19	-134.17	1,495.97	1,428.21	67.76	22.079		
6,500.00	6,280.93	6,714.05	5,928.15	34.64	46.52	-4.50	-3,059.86	-136.79	1,495.87	1,427.14	68.73	21.765		
6,600.00	6,377.14	6,900.00	6,095.05	35.19	46.04	-4.58	-3,094.91	-138.42	1,488.50	1,420.26	68.24	21.814		
6,700.00	6,473.34	7,126.68	6,334.74	35.74	48.27	-4.74	-3,128.03	-139.95	1,473.98	1,404.64	69.34	21.257		
6,800.00	6,569.55	7,326.12	6,533.79	36.29	48.91	-4.90	-3,139.86	-140.49	1,452.53	1,383.53	69.01	21.049		
6,900.00	6,665.75	7,457.28	6,664.85	36.84	49.24	-9.94	-3,140.75	-143.41	1,425.79	1,356.50	69.29	20.579		
7,000.00	6,761.11	7,551.82	6,757.96	37.39	49.47	-38.44	-3,140.85	-159.33	1,398.86	1,328.79	70.08	19.962		
7,100.00	6,853.41	7,646.20	6,847.52	37.89	49.70	-56.41	-3,141.03	-188.79	1,372.78	1,301.92	70.85	19.375		
7,200.00	6,940.36	7,740.73	6,931.89	38.34	49.91	-67.54	-3,141.29	-231.23	1,348.17	1,276.56	71.61	18.827		
7,300.00	7,019.83	7,835.69	7,009.39	38.74	50.09	-74.95	-3,141.62	-285.97	1,325.65	1,253.29	72.36	18.321		
7,400.00	7,089.85	7,931.28	7,078.31	39.10	50.26	-80.18	-3,142.03	-352.08	1,305.76	1,232.62	73.14	17.852		
7,500.00	7,148.71	8,027.62	7,136.97	39.42	50.39	-83.95	-3,142.50	-428.37	1,289.01	1,214.96	74.05	17.407		
7,600.00	7,194.95	8,124.72	7,183.78	39.71	50.49	-86.64	-3,143.02	-513.34	1,275.81	1,200.65	75.16	16.974		
7,700.00	7,227.43	8,222.51	7,217.32	40.01	50.57	-88.43	-3,143.58	-605.09	1,266.49	1,189.93	76.56	16.543		
7,800.00	7,245.37	8,320.86	7,236.49	40.37	50.61	-89.41	-3,144.17	-701.45	1,261.27	1,183.00	78.27	16.115		
7,899.11	7,250.32	8,418.86	7,240.93	40.87	50.65	-89.57	-3,144.77	-799.27	1,259.74	1,179.42	80.32	15.685		
7,900.00	7,248.84	8,419.80	7,240.92	40.87	50.65	-89.64	-3,144.77	-800.22	1,260.15	1,179.84	80.30	15.692		
8,000.00	7,248.24	8,519.80	7,240.52	41.62	50.70	-89.65	-3,145.39	-900.21	1,260.17	1,177.50	82.68	15.242		
8,100.00	7,247.65	8,619.80	7,240.11	42.66	50.77	-89.66	-3,146.00	-1,000.21	1,260.20	1,174.83	85.37	14.761		
8,200.00	7,247.05	8,719.80	7,239.70	43.96	50.88	-89.67	-3,146.61	-1,100.21	1,260.23	1,171.88	88.35	14.264		
8,300.00	7,246.46	8,819.80	7,239.30	45.46	51.06	-89.67	-3,147.22	-1,200.20	1,260.26	1,168.66	91.59	13.759		
8,400.00	7,245.86	8,919.80	7,238.89	47.13	51.42	-89.68	-3,147.84	-1,300.20	1,260.28	1,165.22	95.07	13.257		
8,500.00	7,245.27	9,019.80	7,238.49	48.93	52.14	-89.69	-3,148.45	-1,400.20	1,260.31	1,161.56	98.75	12.762		
8,600.00	7,244.67	9,119.80	7,238.08	50.84	53.39	-89.70	-3,149.06	-1,500.20	1,260.34	1,157.72	102.62	12.282		
8,700.00	7,244.07	9,219.80	7,237.68	52.85	55.04	-89.71	-3,149.67	-1,600.19	1,260.37	1,153.71	106.66	11.817		
8,800.00	7,243.48	9,319.80	7,237.27	54.94	56.92	-89.72	-3,150.29	-1,700.19	1,260.39	1,149.56	110.84	11.371		
8,900.00	7,242.88	9,419.80	7,236.86	57.10	58.94	-89.73	-3,150.90	-1,800.19	1,260.42	1,145.27	115.15	10.946		
9,000.00	7,242.29	9,519.80	7,236.46	59.32	61.05	-89.74	-3,151.51	-1,900.18	1,260.45	1,140.87	119.59	10.540		
9,100.00	7,241.69	9,619.80	7,236.05	61.60	63.24	-89.74	-3,152.12	-2,000.18	1,260.48	1,136.36	124.12	10.155		
9,200.00	7,241.09	9,719.80	7,235.65	63.92	65.48	-89.75	-3,152.74	-2,100.18	1,260.51	1,131.75	128.75	9.790		
9,300.00	7,240.50	9,819.80	7,235.24	66.29	67.78	-89.76	-3,153.35	-2,200.18	1,260.53	1,127.07	133.47	9.444		
9,400.00	7,239.90	9,919.80	7,234.84	68.70	70.13	-89.77	-3,153.96	-2,300.17	1,260.56	1,122.30	138.26	9.117		
9,500.00	7,239.31	10,019.80	7,234.43	71.14	72.51	-89.78	-3,154.57	-2,400.17	1,260.59	1,117.47	143.12	8.808		
9,600.00	7,238.71	10,119.80	7,234.02	73.61	74.93	-89.79	-3,155.19	-2,500.17	1,260.62	1,112.58	148.04	8.516		
9,700.00	7,238.11	10,219.80	7,233.62	76.11	77.38	-89.80	-3,155.80	-2,600.16	1,260.65	1,107.64	153.01	8.239		
9,800.00	7,237.52	10,319.80	7,233.21	78.64	79.86	-89.80	-3,156.41	-2,700.16	1,260.67	1,102.64	158.03	7.977		
9,900.00	7,236.92	10,419.80	7,232.81	81.19	82.36	-89.81	-3,157.02	-2,800.16	1,260.70	1,097.60	163.10	7.729		
10,000.00	7,236.33	10,519.80	7,232.40	83.75	84.89	-89.82	-3,157.64	-2,900.16	1,260.73	1,092.51	168.22	7.495		
10,100.00	7,235.73	10,619.80	7,232.00	86.34	87.43	-89.83	-3,158.25	-3,000.15	1,260.76	1,087.39	173.37	7.272		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,200.00	7,235.14	10,719.80	7,231.59	88.94	90.00	-89.84	-3,158.86	-3,100.15	1,260.79	1,082.24	178.55	7.061		
10,300.00	7,234.54	10,819.80	7,231.18	91.56	92.58	-89.85	-3,159.47	-3,200.15	1,260.81	1,077.05	183.76	6.861		
10,400.00	7,233.94	10,919.80	7,230.78	94.19	95.18	-89.86	-3,160.08	-3,300.14	1,260.84	1,071.83	189.01	6.671		
10,500.00	7,233.35	11,019.80	7,230.37	96.84	97.80	-89.86	-3,160.70	-3,400.14	1,260.87	1,066.59	194.28	6.490		
10,600.00	7,232.75	11,119.80	7,229.97	99.50	100.43	-89.87	-3,161.31	-3,500.14	1,260.90	1,061.32	199.57	6.318		
10,700.00	7,232.16	11,219.80	7,229.56	102.17	103.07	-89.88	-3,161.92	-3,600.14	1,260.93	1,056.03	204.89	6.154		
10,800.00	7,231.56	11,319.80	7,229.16	104.85	105.72	-89.89	-3,162.53	-3,700.13	1,260.96	1,050.72	210.23	5.998		
10,900.00	7,230.96	11,419.80	7,228.75	107.53	108.38	-89.90	-3,163.15	-3,800.13	1,260.98	1,045.39	215.59	5.849		
11,000.00	7,230.37	11,519.80	7,228.34	110.23	111.05	-89.91	-3,163.76	-3,900.13	1,261.01	1,040.05	220.97	5.707		
11,100.00	7,229.77	11,619.80	7,227.94	112.93	113.74	-89.92	-3,164.37	-4,000.12	1,261.04	1,034.68	226.36	5.571		
11,200.00	7,229.18	11,719.80	7,227.53	115.65	116.43	-89.93	-3,164.98	-4,100.12	1,261.07	1,029.30	231.77	5.441		
11,300.00	7,228.58	11,819.80	7,227.13	118.37	119.12	-89.93	-3,165.60	-4,200.12	1,261.10	1,023.91	237.19	5.317		
11,400.00	7,227.99	11,919.80	7,226.72	121.09	121.83	-89.94	-3,166.21	-4,300.12	1,261.13	1,018.50	242.62	5.198		
11,500.00	7,227.39	12,019.80	7,226.31	123.82	124.54	-89.95	-3,166.82	-4,400.11	1,261.15	1,013.08	248.07	5.084		
11,600.00	7,226.79	12,119.80	7,225.91	126.56	127.26	-89.96	-3,167.43	-4,500.11	1,261.18	1,007.65	253.53	4.974		
11,700.00	7,226.20	12,219.80	7,225.50	129.30	129.98	-89.97	-3,168.05	-4,600.11	1,261.21	1,002.21	259.00	4.869		
11,800.00	7,225.60	12,319.80	7,225.10	132.05	132.71	-89.98	-3,168.66	-4,700.10	1,261.24	996.75	264.49	4.769		
11,900.00	7,225.01	12,419.80	7,224.69	134.80	135.45	-89.99	-3,169.27	-4,800.10	1,261.27	991.29	269.98	4.672		
12,000.00	7,224.41	12,519.80	7,224.29	137.56	138.19	-89.99	-3,169.88	-4,900.10	1,261.30	985.82	275.48	4.579		
12,100.00	7,223.81	12,619.80	7,223.88	140.32	140.94	-90.00	-3,170.50	-5,000.10	1,261.33	980.34	280.99	4.489		
12,200.00	7,223.22	12,719.80	7,223.47	143.08	143.69	-90.01	-3,171.11	-5,100.09	1,261.35	974.85	286.50	4.403		
12,300.00	7,222.62	12,819.80	7,223.07	145.85	146.44	-90.02	-3,171.72	-5,200.09	1,261.38	969.36	292.03	4.319		
12,400.00	7,222.03	12,919.80	7,222.66	148.62	149.20	-90.03	-3,172.33	-5,300.09	1,261.41	963.85	297.56	4.239		
12,500.00	7,221.43	13,019.80	7,222.26	151.40	151.96	-90.04	-3,172.95	-5,400.08	1,261.44	958.34	303.10	4.162		
12,600.00	7,220.83	13,119.80	7,221.85	154.18	154.72	-90.05	-3,173.56	-5,500.08	1,261.47	952.83	308.64	4.087		
12,700.00	7,220.24	13,219.80	7,221.45	156.96	157.49	-90.05	-3,174.17	-5,600.08	1,261.50	947.30	314.20	4.015		
12,800.00	7,219.64	13,319.80	7,221.04	159.74	160.26	-90.06	-3,174.78	-5,700.08	1,261.53	941.78	319.75	3.945		
12,900.00	7,219.05	13,419.80	7,220.63	162.53	163.04	-90.07	-3,175.40	-5,800.07	1,261.56	936.24	325.32	3.878		
13,000.00	7,218.45	13,519.79	7,220.23	165.32	165.82	-90.08	-3,176.01	-5,900.07	1,261.59	930.70	330.88	3.813		
13,100.00	7,217.86	13,619.79	7,219.82	168.11	168.60	-90.09	-3,176.62	-6,000.07	1,261.61	925.16	336.46	3.750		
13,200.00	7,217.26	13,719.79	7,219.42	170.90	171.38	-90.10	-3,177.23	-6,100.06	1,261.64	919.61	342.03	3.689		
13,300.00	7,216.66	13,819.79	7,219.01	173.70	174.17	-90.11	-3,177.85	-6,200.06	1,261.67	914.06	347.61	3.630		
13,400.00	7,216.07	13,919.79	7,218.61	176.49	176.95	-90.12	-3,178.46	-6,300.06	1,261.70	908.50	353.20	3.572		
13,500.00	7,215.47	14,019.79	7,218.20	179.29	179.74	-90.12	-3,179.07	-6,400.05	1,261.73	902.94	358.79	3.517		
13,600.00	7,214.88	14,119.79	7,217.79	182.09	182.54	-90.13	-3,179.68	-6,500.05	1,261.76	897.37	364.39	3.463		
13,700.00	7,214.28	14,219.79	7,217.39	184.90	185.33	-90.14	-3,180.30	-6,600.05	1,261.79	891.81	369.98	3.410		
13,800.00	7,213.68	14,319.79	7,216.98	187.70	188.13	-90.15	-3,180.91	-6,700.05	1,261.82	886.23	375.58	3.360		
13,900.00	7,213.09	14,419.79	7,216.58	190.51	190.92	-90.16	-3,181.52	-6,800.04	1,261.85	880.66	381.19	3.310		
14,000.00	7,212.49	14,519.79	7,216.17	193.32	193.72	-90.17	-3,182.13	-6,900.04	1,261.88	875.08	386.80	3.262		
14,100.00	7,211.90	14,619.79	7,215.77	196.13	196.52	-90.18	-3,182.75	-7,000.04	1,261.91	869.50	392.41	3.216		
14,200.00	7,211.30	14,719.79	7,215.36	198.94	199.33	-90.18	-3,183.36	-7,100.03	1,261.93	863.91	398.02	3.171		
14,300.00	7,210.71	14,819.79	7,214.95	201.75	202.13	-90.19	-3,183.97	-7,200.03	1,261.96	858.32	403.64	3.126		
14,400.00	7,210.11	14,919.79	7,214.55	204.56	204.94	-90.20	-3,184.58	-7,300.03	1,261.99	852.73	409.26	3.084		
14,500.00	7,209.51	15,019.79	7,214.14	207.38	207.75	-90.21	-3,185.20	-7,400.03	1,262.02	847.14	414.88	3.042		
14,600.00	7,208.92	15,119.79	7,213.74	210.19	210.55	-90.22	-3,185.81	-7,500.02	1,262.05	841.55	420.51	3.001		
14,700.00	7,208.32	15,219.79	7,213.33	213.01	213.36	-90.23	-3,186.42	-7,600.02	1,262.08	835.95	426.13	2.962		
14,800.00	7,207.73	15,319.79	7,212.93	215.83	216.18	-90.24	-3,187.03	-7,700.02	1,262.11	830.35	431.76	2.923		
14,900.00	7,207.13	15,419.79	7,212.52	218.65	218.99	-90.24	-3,187.65	-7,800.01	1,262.14	824.75	437.39	2.886		
15,000.00	7,206.53	15,519.79	7,212.11	221.47	221.80	-90.25	-3,188.26	-7,900.01	1,262.17	819.14	443.03	2.849		
15,100.00	7,205.94	15,619.79	7,211.71	224.29	224.62	-90.26	-3,188.87	-8,000.01	1,262.20	813.54	448.66	2.813		
15,200.00	7,205.34	15,719.79	7,211.30	227.11	227.43	-90.27	-3,189.48	-8,100.01	1,262.23	807.93	454.30	2.778		
15,258.04	7,205.00	15,777.83	7,211.07	228.75	229.07	-90.28	-3,189.84	-8,158.05	1,262.25	804.67	457.57	2.759 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 5C-16-M - OH - PLAN #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	1.00	0.00	3.28	3.28	0.49	259.75	2.23	259.76					
100.00	100.00	101.00	100.00	3.28	3.28	0.49	259.75	2.23	259.76	253.19	6.57	39.540		
200.00	200.00	201.00	200.00	3.34	3.34	0.49	259.75	2.23	259.76	253.09	6.67	38.917	CC, ES	
300.00	299.98	300.98	299.98	3.44	3.45	175.76	259.75	2.23	261.50	254.62	6.89	37.975		
400.00	399.84	400.84	399.84	3.59	3.60	175.84	259.75	2.23	266.72	259.53	7.20	37.060		
500.00	499.45	500.45	499.45	3.79	3.81	175.96	259.75	2.23	275.42	267.82	7.60	36.241		
600.00	598.70	599.70	598.70	4.03	4.05	176.11	259.75	2.23	287.57	279.49	8.08	35.591		
700.00	697.47	706.18	692.80	4.31	4.33	176.03	260.56	0.93	304.00	295.36	8.65	35.158		
800.00	795.62	808.33	790.61	4.64	4.63	175.79	262.10	-1.53	324.55	315.29	9.25	35.067		
900.00	893.06	888.75	887.65	5.00	4.89	175.61	263.63	-3.97	348.48	338.64	9.84	35.411		
1,000.00	989.65	984.95	983.81	5.40	5.20	175.48	265.14	-6.39	375.78	365.26	10.52	35.718		
1,100.00	1,085.85	1,080.74	1,079.56	5.82	5.53	175.43	266.64	-8.80	404.48	393.27	11.21	36.075		
1,200.00	1,182.06	1,176.54	1,175.31	6.27	5.88	175.38	268.15	-11.21	433.18	421.25	11.93	36.305		
1,300.00	1,278.26	1,272.33	1,271.06	6.73	6.23	175.34	269.66	-13.62	461.88	449.21	12.67	36.442		
1,400.00	1,374.47	1,368.12	1,366.81	7.20	6.59	175.31	271.16	-16.03	490.58	477.15	13.44	36.510		
1,500.00	1,470.67	1,463.91	1,462.56	7.69	6.96	175.27	272.67	-18.44	519.28	505.07	14.22	36.529		
1,600.00	1,566.88	1,559.70	1,558.31	8.18	7.33	175.25	274.17	-20.85	547.99	532.98	15.01	36.513		
1,700.00	1,663.08	1,655.50	1,654.06	8.68	7.71	175.22	275.68	-23.26	576.69	560.88	15.81	36.471		
1,800.00	1,759.29	1,751.29	1,749.81	9.19	8.09	175.20	277.19	-25.67	605.39	588.76	16.63	36.411		
1,900.00	1,855.49	1,847.08	1,845.56	9.70	8.47	175.18	278.69	-28.08	634.09	616.64	17.45	36.339		
2,000.00	1,951.70	1,942.87	1,941.31	10.22	8.86	175.16	280.20	-30.49	662.79	644.51	18.28	36.259		
2,100.00	2,047.90	2,038.67	2,037.06	10.73	9.26	175.14	281.70	-32.90	691.50	672.38	19.12	36.173		
2,200.00	2,144.11	2,134.46	2,132.81	11.26	9.65	175.12	283.21	-35.31	720.20	700.24	19.96	36.085		
2,300.00	2,240.31	2,230.25	2,228.56	11.78	10.05	175.11	284.72	-37.72	748.90	728.10	20.81	35.995		
2,400.00	2,336.52	2,326.04	2,324.31	12.31	10.45	175.09	286.22	-40.14	777.60	755.95	21.66	35.905		
2,500.00	2,432.72	2,421.83	2,420.06	12.84	10.85	175.08	287.73	-42.55	806.31	783.79	22.51	35.815		
2,600.00	2,528.93	2,517.63	2,515.81	13.37	11.25	175.07	289.24	-44.96	835.01	811.64	23.37	35.727		
2,700.00	2,625.13	2,613.42	2,611.56	13.91	11.65	175.06	290.74	-47.37	863.71	839.48	24.23	35.641		
2,800.00	2,721.34	2,709.21	2,707.31	14.44	12.06	175.05	292.25	-49.78	892.41	867.31	25.10	35.557		
2,900.00	2,817.54	2,805.00	2,803.06	14.98	12.46	175.04	293.75	-52.19	921.12	895.15	25.97	35.474		
3,000.00	2,913.75	2,900.79	2,898.81	15.52	12.87	175.03	295.26	-54.60	949.82	922.98	26.84	35.395		
3,100.00	3,009.95	3,003.41	2,994.56	16.06	13.31	175.02	296.77	-57.01	978.52	950.79	27.74	35.280		
3,200.00	3,106.16	3,107.62	3,090.31	16.60	13.75	175.01	298.27	-59.42	1,007.22	978.58	28.65	35.162		
3,300.00	3,202.37	3,188.17	3,186.06	17.14	14.09	175.00	299.78	-61.83	1,035.93	1,006.47	29.46	35.170		
3,400.00	3,298.57	3,283.96	3,281.81	17.68	14.50	174.99	301.28	-64.24	1,064.63	1,034.30	30.33	35.099		
3,500.00	3,394.78	3,379.76	3,377.56	18.22	14.91	174.99	302.79	-66.65	1,093.33	1,062.12	31.21	35.032		
3,600.00	3,490.98	3,475.55	3,473.31	18.76	15.33	174.98	304.30	-69.06	1,122.03	1,089.94	32.09	34.966		
3,700.00	3,587.19	3,571.34	3,569.06	19.31	15.74	174.97	305.80	-71.47	1,150.74	1,117.77	32.97	34.903		
3,800.00	3,683.39	3,667.13	3,664.81	19.85	16.15	174.97	307.31	-73.88	1,179.44	1,145.59	33.85	34.842		
3,900.00	3,779.60	3,762.92	3,760.56	20.39	16.56	174.96	308.81	-76.29	1,208.14	1,173.41	34.73	34.783		
4,000.00	3,875.80	3,858.72	3,856.31	20.94	16.98	174.96	310.32	-78.70	1,236.84	1,201.23	35.62	34.726		
4,100.00	3,972.01	3,954.51	3,952.06	21.48	17.39	174.95	311.83	-81.11	1,265.55	1,229.05	36.50	34.671		
4,200.00	4,068.21	4,050.30	4,047.81	22.03	17.80	174.95	313.33	-83.52	1,294.25	1,256.86	37.39	34.617		
4,300.00	4,164.42	4,146.09	4,143.56	22.57	18.22	174.94	314.84	-85.93	1,322.95	1,284.68	38.27	34.566		
4,400.00	4,260.62	4,241.89	4,239.31	23.12	18.63	174.94	316.35	-88.34	1,351.66	1,312.50	39.16	34.516		
4,500.00	4,356.83	4,337.68	4,335.06	23.67	19.05	174.93	317.85	-90.75	1,380.36	1,340.31	40.05	34.468		
4,600.00	4,453.03	4,433.47	4,430.81	24.21	19.46	174.93	319.36	-93.16	1,409.06	1,368.13	40.94	34.421		
4,700.00	4,549.24	4,529.26	4,526.56	24.76	19.88	174.92	320.86	-95.57	1,437.76	1,395.94	41.82	34.376		
4,800.00	4,645.44	4,625.05	4,622.31	25.31	20.29	174.92	322.37	-97.98	1,466.47	1,423.75	42.71	34.332		
4,900.00	4,741.65	4,720.85	4,718.06	25.86	20.71	174.92	323.88	-100.39	1,495.17	1,451.57	43.60	34.290		
5,000.00	4,837.85	4,816.64	4,813.81	26.40	21.13	174.91	325.38	-102.80	1,523.87	1,479.38	44.49	34.249		
5,100.00	4,934.06	4,912.43	4,909.56	26.95	21.54	174.91	326.89	-105.21	1,552.58	1,507.19	45.38	34.209		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 5C-16-M - OH - PLAN #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,030.26	5,008.22	5,005.31	27.50	21.96	174.91	328.39	-107.62	1,581.28	1,535.00	46.28	34.171		
5,300.00	5,126.47	5,104.02	5,101.06	28.05	22.38	174.90	329.90	-110.03	1,609.98	1,562.81	47.17	34.133		
5,400.00	5,222.67	5,200.19	5,196.81	28.60	22.79	174.90	331.41	-112.44	1,638.68	1,590.62	48.06	34.096		
5,500.00	5,318.88	5,304.40	5,292.56	29.15	23.25	174.90	332.91	-114.85	1,667.39	1,618.40	48.99	34.035		
5,600.00	5,415.08	5,408.61	5,388.31	29.70	23.70	174.89	334.42	-117.26	1,696.09	1,646.17	49.92	33.976		
5,700.00	5,511.29	5,487.18	5,484.06	30.25	24.05	174.89	335.92	-119.67	1,724.79	1,674.05	50.74	33.994		
5,800.00	5,607.49	5,582.98	5,579.81	30.79	24.46	174.89	337.43	-122.08	1,753.50	1,701.86	51.63	33.962		
5,900.00	5,703.70	5,678.77	5,675.56	31.34	24.88	174.89	338.94	-124.49	1,782.20	1,729.67	52.53	33.930		
6,000.00	5,799.90	5,774.56	5,771.31	31.89	25.30	174.88	340.44	-126.90	1,810.90	1,757.48	53.42	33.899		
6,100.00	5,896.11	5,870.35	5,867.06	32.44	25.72	174.88	341.95	-129.31	1,839.60	1,785.29	54.31	33.870		
6,200.00	5,992.32	5,966.14	5,962.81	32.99	26.13	174.88	343.46	-131.73	1,868.31	1,813.10	55.21	33.841		
6,300.00	6,088.52	6,061.94	6,058.56	33.54	26.55	174.88	344.96	-134.14	1,897.01	1,840.91	56.10	33.812		
6,400.00	6,184.73	6,157.73	6,154.31	34.09	26.97	174.87	346.47	-136.55	1,925.71	1,868.71	57.00	33.785		
6,500.00	6,280.93	6,253.52	6,250.06	34.64	27.39	174.87	347.97	-138.96	1,954.41	1,896.52	57.90	33.758		
6,600.00	6,377.14	6,349.31	6,345.81	35.19	27.81	174.87	349.48	-141.37	1,983.12	1,924.33	58.79	33.732		
6,700.00	6,473.34	6,445.11	6,441.56	35.74	28.23	174.87	350.99	-143.78	2,011.82	1,952.13	59.69	33.706		
6,800.00	6,569.55	6,540.90	6,537.31	36.29	28.65	174.87	352.49	-146.19	2,040.52	1,979.94	60.58	33.681		
6,900.00	6,665.75	6,636.83	6,633.19	36.84	29.06	169.82	354.00	-148.66	2,069.23	2,007.74	61.48	33.656		
7,000.00	6,761.11	6,734.31	6,729.92	37.39	29.50	141.04	355.45	-150.89	2,097.68	2,035.29	62.40	33.619		
7,100.00	6,853.41	6,832.37	6,824.34	37.89	29.93	122.89	356.76	-153.93	2,125.23	2,061.93	63.30	33.573		
7,200.00	6,940.36	6,931.32	6,914.44	38.34	30.38	111.66	357.88	-156.59	2,151.19	2,086.99	64.20	33.507		
7,300.00	7,019.83	7,031.41	6,998.06	38.74	30.85	104.23	358.80	-159.40	2,174.93	2,109.82	65.11	33.403		
7,400.00	7,089.85	7,132.77	7,072.95	39.10	31.38	99.03	359.47	-162.55	2,195.85	2,129.76	66.10	33.222		
7,500.00	7,148.71	7,235.42	7,136.80	39.42	32.00	95.32	359.87	-165.79	2,213.44	2,146.21	67.23	32.921		
7,600.00	7,194.95	7,339.24	7,187.43	39.71	32.77	92.72	359.99	-168.28	2,227.26	2,158.64	68.62	32.457		
7,700.00	7,227.43	7,443.94	7,222.93	40.01	33.71	91.02	359.80	-170.86	2,236.97	2,166.64	70.33	31.807		
7,800.00	7,245.37	7,549.15	7,241.89	40.37	34.83	90.10	359.32	-173.02	2,242.31	2,169.94	72.37	30.983		
7,900.00	7,248.84	7,652.40	7,244.88	40.87	36.10	89.90	358.58	-175.17	2,243.32	2,168.62	74.71	30.028		
8,000.00	7,248.24	7,752.40	7,244.57	41.62	37.49	89.91	357.81	-177.17	2,243.14	2,165.81	77.33	29.007		
8,100.00	7,247.65	7,852.40	7,244.25	42.66	39.03	89.91	357.04	-179.17	2,242.96	2,162.68	80.27	27.942		
8,200.00	7,247.05	7,952.40	7,243.94	43.96	40.71	89.92	356.28	-181.16	2,242.77	2,159.27	83.50	26.860		
8,300.00	7,246.46	8,052.40	7,243.63	45.46	42.52	89.93	355.51	-183.16	2,242.59	2,155.60	86.98	25.782		
8,400.00	7,245.86	8,152.40	7,243.32	47.13	44.44	89.94	354.74	-185.15	2,242.40	2,151.71	90.69	24.725		
8,500.00	7,245.27	8,252.40	7,243.01	48.93	46.46	89.94	353.97	-187.15	2,242.22	2,147.61	94.61	23.701		
8,600.00	7,244.67	8,352.40	7,242.69	50.84	48.56	89.95	353.21	-189.15	2,242.03	2,143.34	98.69	22.717		
8,700.00	7,244.07	8,452.40	7,242.38	52.85	50.73	89.96	352.44	-191.14	2,241.85	2,138.91	102.94	21.779		
8,800.00	7,243.48	8,552.40	7,242.07	54.94	52.97	89.96	351.67	-193.14	2,241.67	2,134.35	107.32	20.888		
8,900.00	7,242.88	8,652.40	7,241.76	57.10	55.27	89.97	350.90	-195.13	2,241.48	2,129.67	111.82	20.046		
9,000.00	7,242.29	8,752.40	7,241.45	59.32	57.62	89.98	350.14	-197.13	2,241.30	2,124.88	116.42	19.251		
9,100.00	7,241.69	8,852.40	7,241.13	61.60	60.01	89.99	349.37	-199.13	2,241.12	2,119.99	121.13	18.502		
9,200.00	7,241.09	8,952.40	7,240.82	63.92	62.44	89.99	348.60	-201.12	2,240.93	2,115.02	125.91	17.798		
9,300.00	7,240.50	9,052.40	7,240.51	66.29	64.91	90.00	347.83	-223.12	2,240.75	2,109.98	130.77	17.135		
9,400.00	7,239.90	9,152.40	7,240.20	68.70	67.40	90.01	347.07	-225.11	2,240.56	2,104.86	135.70	16.511		
9,500.00	7,239.31	9,252.40	7,239.89	71.14	69.93	90.02	346.30	-227.11	2,240.38	2,099.69	140.69	15.925		
9,600.00	7,238.71	9,352.40	7,239.57	73.61	72.48	90.02	345.53	-229.11	2,240.20	2,094.47	145.73	15.373		
9,700.00	7,238.11	9,452.39	7,239.26	76.11	75.05	90.03	344.76	-231.10	2,240.01	2,089.20	150.82	14.853		
9,800.00	7,237.52	9,552.39	7,238.95	78.64	77.64	90.04	343.99	-233.10	2,239.83	2,083.88	155.95	14.363		
9,900.00	7,236.92	9,652.39	7,238.64	81.19	80.25	90.04	343.23	-235.09	2,239.65	2,078.52	161.12	13.900		
10,000.00	7,236.33	9,752.39	7,238.33	83.75	82.88	90.05	342.46	-237.09	2,239.46	2,073.13	166.33	13.464		
10,100.00	7,235.73	9,852.39	7,238.01	86.34	85.52	90.06	341.69	-239.09	2,239.28	2,067.71	171.57	13.052		
10,200.00	7,235.14	9,952.39	7,237.70	88.94	88.17	90.07	340.92	-241.08	2,239.09	2,062.26	176.84	12.662		
10,300.00	7,234.54	10,052.39	7,237.39	91.56	90.84	90.07	340.16	-243.08	2,238.91	2,056.78	182.14	12.293		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 5C-16-M - OH - PLAN #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,400.00	7,233.94	10,152.39	7,237.08	94.19	93.52	90.08	339.39	-3,325.07	2,238.73	2,051.27	187.46	11.943	
10,500.00	7,233.35	10,252.39	7,236.77	96.84	96.21	90.09	338.62	-3,425.07	2,238.54	2,045.74	192.80	11.611	
10,600.00	7,232.75	10,352.39	7,236.46	99.50	98.90	90.10	337.85	-3,525.07	2,238.36	2,040.19	198.17	11.295	
10,700.00	7,232.16	10,452.39	7,236.14	102.17	101.61	90.10	337.09	-3,625.06	2,238.18	2,034.63	203.55	10.996	
10,800.00	7,231.56	10,552.39	7,235.83	104.85	104.33	90.11	336.32	-3,725.06	2,237.99	2,029.04	208.95	10.711	
10,900.00	7,230.96	10,652.39	7,235.52	107.53	107.05	90.12	335.55	-3,825.05	2,237.81	2,023.44	214.37	10.439	
11,000.00	7,230.37	10,752.39	7,235.21	110.23	109.78	90.12	334.78	-3,925.05	2,237.63	2,017.82	219.80	10.180	
11,100.00	7,229.77	10,852.39	7,234.90	112.93	112.51	90.13	334.02	-4,025.05	2,237.44	2,012.19	225.25	9.933	
11,200.00	7,229.18	10,952.39	7,234.58	115.65	115.26	90.14	333.25	-4,125.04	2,237.26	2,006.55	230.71	9.697	
11,300.00	7,228.58	11,052.39	7,234.27	118.37	118.00	90.15	332.48	-4,225.04	2,237.08	2,000.89	236.18	9.472	
11,400.00	7,227.99	11,152.39	7,233.96	121.09	120.76	90.15	331.71	-4,325.03	2,236.90	1,995.23	241.67	9.256	
11,500.00	7,227.39	11,252.38	7,233.65	123.82	123.51	90.16	330.95	-4,425.03	2,236.71	1,989.55	247.16	9.050	
11,600.00	7,226.79	11,352.38	7,233.34	126.56	126.28	90.17	330.18	-4,525.03	2,236.53	1,983.86	252.67	8.852	
11,700.00	7,226.20	11,452.38	7,233.02	129.30	129.04	90.18	329.41	-4,625.02	2,236.35	1,978.16	258.18	8.662	
11,800.00	7,225.60	11,552.38	7,232.71	132.05	131.81	90.18	328.64	-4,725.02	2,236.16	1,972.46	263.70	8.480	
11,900.00	7,225.01	11,652.38	7,232.40	134.80	134.58	90.19	327.88	-4,825.01	2,235.98	1,966.75	269.23	8.305	
12,000.00	7,224.41	11,752.38	7,232.09	137.56	137.36	90.20	327.11	-4,925.01	2,235.80	1,961.02	274.77	8.137	
12,100.00	7,223.81	11,852.38	7,231.78	140.32	140.14	90.20	326.34	-5,025.01	2,235.62	1,955.30	280.32	7.975	
12,200.00	7,223.22	11,952.38	7,231.46	143.08	142.93	90.21	325.57	-5,125.00	2,235.43	1,949.56	285.87	7.820	
12,300.00	7,222.62	12,052.38	7,231.15	145.85	145.71	90.22	324.81	-5,225.00	2,235.25	1,943.82	291.43	7.670	
12,400.00	7,222.03	12,152.38	7,230.84	148.62	148.50	90.23	324.04	-5,324.99	2,235.07	1,938.07	296.99	7.526	
12,500.00	7,221.43	12,252.38	7,230.53	151.40	151.29	90.23	323.27	-5,424.99	2,234.88	1,932.32	302.56	7.386	
12,600.00	7,220.83	12,352.38	7,230.22	154.18	154.09	90.24	322.50	-5,524.99	2,234.70	1,926.56	308.14	7.252	
12,700.00	7,220.24	12,452.38	7,229.91	156.96	156.88	90.25	321.73	-5,624.98	2,234.52	1,920.80	313.72	7.123	
12,800.00	7,219.64	12,552.38	7,229.59	159.74	159.68	90.26	320.97	-5,724.98	2,234.34	1,915.03	319.31	6.997	
12,900.00	7,219.05	12,652.38	7,229.28	162.53	162.48	90.26	320.20	-5,824.97	2,234.15	1,909.26	324.90	6.877	
13,000.00	7,218.45	12,752.38	7,228.97	165.32	165.28	90.27	319.43	-5,924.97	2,233.97	1,903.48	330.49	6.760	
13,100.00	7,217.86	12,852.38	7,228.66	168.11	168.09	90.28	318.66	-6,024.97	2,233.79	1,897.70	336.09	6.646	
13,200.00	7,217.26	12,952.37	7,228.35	170.90	170.90	90.28	317.90	-6,124.96	2,233.61	1,891.92	341.69	6.537	
13,300.00	7,216.66	13,052.37	7,228.03	173.70	173.70	90.29	317.13	-6,224.96	2,233.42	1,886.13	347.30	6.431	
13,400.00	7,216.07	13,152.37	7,227.72	176.49	176.51	90.30	316.36	-6,324.95	2,233.24	1,880.33	352.91	6.328	
13,500.00	7,215.47	13,252.37	7,227.41	179.29	179.32	90.31	315.59	-6,424.95	2,233.06	1,874.54	358.52	6.229	
13,600.00	7,214.88	13,352.37	7,227.10	182.09	182.14	90.31	314.83	-6,524.95	2,232.88	1,868.74	364.14	6.132	
13,700.00	7,214.28	13,452.37	7,226.79	184.90	184.95	90.32	314.06	-6,624.94	2,232.70	1,862.94	369.76	6.038	
13,800.00	7,213.68	13,552.37	7,226.47	187.70	187.77	90.33	313.29	-6,724.94	2,232.51	1,857.13	375.38	5.947	
13,900.00	7,213.09	13,652.37	7,226.16	190.51	190.58	90.34	312.52	-6,824.93	2,232.33	1,851.33	381.00	5.859	
14,000.00	7,212.49	13,752.37	7,225.85	193.32	193.40	90.34	311.76	-6,924.93	2,232.15	1,845.52	386.63	5.773	
14,100.00	7,211.90	13,852.37	7,225.54	196.13	196.22	90.35	310.99	-7,024.93	2,231.97	1,839.70	392.26	5.690	
14,200.00	7,211.30	13,952.37	7,225.23	198.94	199.04	90.36	310.22	-7,124.92	2,231.78	1,833.89	397.89	5.609	
14,300.00	7,210.71	14,052.37	7,224.91	201.75	201.86	90.37	309.45	-7,224.92	2,231.60	1,828.07	403.53	5.530	
14,400.00	7,210.11	14,152.37	7,224.60	204.56	204.68	90.37	308.69	-7,324.91	2,231.42	1,822.25	409.17	5.454	
14,500.00	7,209.51	14,252.37	7,224.29	207.38	207.51	90.38	307.92	-7,424.91	2,231.24	1,816.43	414.81	5.379	
14,600.00	7,208.92	14,352.37	7,223.98	210.19	210.33	90.39	307.15	-7,524.91	2,231.06	1,810.61	420.45	5.306	
14,700.00	7,208.32	14,452.37	7,223.67	213.01	213.16	90.39	306.38	-7,624.90	2,230.87	1,804.78	426.09	5.236	
14,800.00	7,207.73	14,552.37	7,223.35	215.83	215.98	90.40	305.62	-7,724.90	2,230.69	1,798.95	431.74	5.167	
14,900.00	7,207.13	14,652.37	7,223.04	218.65	218.81	90.41	304.85	-7,824.89	2,230.51	1,793.13	437.39	5.100	
15,000.00	7,206.53	14,752.36	7,222.73	221.47	221.64	90.42	304.08	-7,924.89	2,230.33	1,787.29	443.04	5.034	
15,100.00	7,205.94	14,852.36	7,222.42	224.29	224.46	90.42	303.31	-8,024.89	2,230.15	1,781.46	448.69	4.970	
15,200.00	7,205.34	14,952.36	7,222.11	227.11	227.29	90.43	302.55	-8,124.88	2,229.97	1,775.63	454.34	4.908	
15,242.92	7,205.09	14,995.28	7,221.97	228.32	228.51	90.43	302.22	-8,167.80	2,229.89	1,773.12	456.76	4.882	
15,258.04	7,205.00	14,987.41	7,222.00	228.75	228.28	90.43	302.28	-8,159.93	2,229.98	1,773.09	456.88	4.881 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	0.00	3.28	3.28	0.81	19.68	0.28	19.68					
100.00	100.00	100.00	100.00	3.28	3.28	0.81	19.68	0.28	19.68	13.11	6.57	2.996		
200.00	200.00	200.00	200.00	3.34	3.34	0.81	19.68	0.28	19.68	13.01	6.67	2.949		
300.00	299.98	300.69	300.67	3.44	3.44	176.00	17.92	0.11	19.67	12.78	6.89	2.855		
400.00	399.84	401.38	401.21	3.59	3.59	175.82	12.64	-0.39	19.64	12.42	7.22	2.721		
500.00	499.45	502.06	501.51	3.79	3.80	175.53	3.84	-1.21	19.59	11.94	7.65	2.561		
600.00	598.70	602.75	601.42	4.03	4.04	175.11	-8.46	-2.37	19.52	11.35	8.17	2.390		
700.00	697.47	703.43	700.84	4.31	4.32	174.57	-24.25	-3.86	19.43	10.67	8.75	2.219		
800.00	795.62	804.11	799.64	4.64	4.65	173.91	-43.50	-5.67	19.32	9.91	9.40	2.054		
900.00	893.06	904.78	897.69	5.00	5.02	173.12	-66.20	-7.81	19.19	9.09	10.10	1.900		
947.89	939.43	952.93	944.30	5.19	5.20	172.69	-78.25	-8.95	19.11	8.66	10.45	1.829 CC, ES		
1,000.00	989.65	1,005.04	994.65	5.40	5.41	172.47	-91.59	-10.20	19.67	8.85	10.82	1.818		
1,100.00	1,085.85	1,105.03	1,091.28	5.82	5.83	172.29	-117.19	-12.61	21.32	9.76	11.56	1.844		
1,200.00	1,182.06	1,205.01	1,187.90	6.27	6.27	172.14	-142.78	-15.03	22.98	10.64	12.34	1.862		
1,300.00	1,278.26	1,305.00	1,284.53	6.73	6.73	172.01	-168.38	-17.44	24.63	11.49	13.15	1.874		
1,400.00	1,374.47	1,404.99	1,381.15	7.20	7.19	171.90	-193.98	-19.85	26.29	12.31	13.98	1.881		
1,500.00	1,470.67	1,504.97	1,477.77	7.69	7.67	171.80	-219.58	-22.26	27.95	13.12	14.83	1.884		
1,600.00	1,566.88	1,604.96	1,574.40	8.18	8.16	171.71	-245.17	-24.67	29.60	13.90	15.70	1.886		
1,700.00	1,663.08	1,704.94	1,671.02	8.68	8.65	171.63	-270.77	-27.08	31.26	14.68	16.58	1.885		
1,800.00	1,759.29	1,804.93	1,767.65	9.19	9.14	171.56	-296.37	-29.49	32.92	15.44	17.48	1.883		
1,900.00	1,855.49	1,904.92	1,864.27	9.70	9.65	171.50	-321.96	-31.90	34.57	16.19	18.38	1.881		
2,000.00	1,951.70	2,004.90	1,960.89	10.22	10.15	171.44	-347.56	-34.32	36.23	16.93	19.30	1.877		
2,100.00	2,047.90	2,104.89	2,057.52	10.73	10.66	171.38	-373.16	-36.73	37.88	17.67	20.22	1.874		
2,200.00	2,144.11	2,204.88	2,154.14	11.26	11.17	171.34	-398.75	-39.14	39.54	18.39	21.15	1.870		
2,300.00	2,240.31	2,304.86	2,250.77	11.78	11.69	171.29	-424.35	-41.55	41.20	19.12	22.08	1.866		
2,400.00	2,336.52	2,404.85	2,347.39	12.31	12.21	171.25	-449.95	-43.96	42.85	19.83	23.02	1.862		
2,500.00	2,432.72	2,504.83	2,444.02	12.84	12.73	171.21	-475.54	-46.37	44.51	20.55	23.96	1.857		
2,600.00	2,528.93	2,604.82	2,540.64	13.37	13.25	171.17	-501.14	-48.78	46.17	21.26	24.91	1.853		
2,700.00	2,625.13	2,704.81	2,637.26	13.91	13.77	171.14	-526.74	-51.19	47.82	21.96	25.86	1.849		
2,800.00	2,721.34	2,804.79	2,733.89	14.44	14.30	171.11	-552.34	-53.60	49.48	22.66	26.82	1.845		
2,900.00	2,817.54	2,904.78	2,830.51	14.98	14.82	171.08	-577.93	-56.02	51.14	23.36	27.77	1.841		
3,000.00	2,913.75	3,004.77	2,927.14	15.52	15.35	171.05	-603.53	-58.43	52.79	24.06	28.73	1.837		
3,100.00	3,009.95	3,104.75	3,023.76	16.06	15.88	171.03	-629.13	-60.84	54.45	24.76	29.69	1.834		
3,200.00	3,106.16	3,204.74	3,120.39	16.60	16.40	171.00	-654.72	-63.25	56.11	25.45	30.66	1.830		
3,300.00	3,202.37	3,304.72	3,217.01	17.14	16.93	170.98	-680.32	-65.66	57.76	26.14	31.62	1.827		
3,400.00	3,298.57	3,404.71	3,313.63	17.68	17.46	170.96	-705.92	-68.07	59.42	26.83	32.59	1.823		
3,500.00	3,394.78	3,504.70	3,410.26	18.22	17.99	170.94	-731.51	-70.48	61.08	27.52	33.56	1.820		
3,600.00	3,490.98	3,604.68	3,506.88	18.76	18.53	170.92	-757.11	-72.89	62.73	28.20	34.53	1.817		
3,700.00	3,587.19	3,704.67	3,603.51	19.31	19.06	170.90	-782.71	-75.31	64.39	28.89	35.50	1.814		
3,800.00	3,683.39	3,804.66	3,700.13	19.85	19.59	170.89	-808.31	-77.72	66.05	29.57	36.48	1.811		
3,900.00	3,779.60	3,904.64	3,796.75	20.39	20.12	170.87	-833.90	-80.13	67.70	30.25	37.45	1.808		
4,000.00	3,875.80	4,004.63	3,893.38	20.94	20.66	170.85	-859.50	-82.54	69.36	30.93	38.43	1.805		
4,100.00	3,972.01	4,104.61	3,990.00	21.48	21.19	170.84	-885.10	-84.95	71.02	31.62	39.40	1.802		
4,200.00	4,068.21	4,204.60	4,086.63	22.03	21.73	170.82	-910.69	-87.36	72.67	32.29	40.38	1.800		
4,300.00	4,164.42	4,304.59	4,183.25	22.57	22.26	170.81	-936.29	-89.77	74.33	32.97	41.36	1.797		
4,400.00	4,260.62	4,404.57	4,279.88	23.12	22.80	170.80	-961.89	-92.18	75.99	33.65	42.34	1.795		
4,500.00	4,356.83	4,504.56	4,376.50	23.67	23.33	170.79	-987.48	-94.60	77.64	34.33	43.32	1.793		
4,600.00	4,453.03	4,604.55	4,473.12	24.21	23.87	170.77	-1,013.08	-97.01	79.30	35.01	44.30	1.790		
4,700.00	4,549.24	4,704.53	4,569.75	24.76	24.40	170.76	-1,038.68	-99.42	80.96	35.68	45.28	1.788		
4,800.00	4,645.44	4,804.52	4,666.37	25.31	24.94	170.75	-1,064.27	-101.83	82.61	36.36	46.26	1.786		
4,900.00	4,741.65	4,904.50	4,763.00	25.86	25.48	170.74	-1,089.87	-104.24	84.27	37.03	47.24	1.784		
5,000.00	4,837.85	5,004.49	4,859.62	26.40	26.01	170.73	-1,115.47	-106.65	85.93	37.71	48.22	1.782		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,104.48	4,956.25	26.95	26.55	170.72	-1,141.07	-109.06	87.58	38.38	49.20	1.780		
5,200.00	5,030.26	5,204.46	5,052.87	27.50	27.09	170.71	-1,166.66	-111.47	89.24	39.05	50.19	1.778		
5,300.00	5,126.47	5,304.45	5,149.49	28.05	27.62	170.70	-1,192.26	-113.88	90.90	39.73	51.17	1.776		
5,400.00	5,222.67	5,404.44	5,246.12	28.60	28.16	170.69	-1,217.86	-116.30	92.55	40.40	52.16	1.775		
5,500.00	5,318.88	5,504.42	5,342.74	29.15	28.70	170.69	-1,243.45	-118.71	94.21	41.07	53.14	1.773		
5,600.00	5,415.08	5,604.41	5,439.37	29.70	29.24	170.68	-1,269.05	-121.12	95.87	41.74	54.13	1.771		
5,700.00	5,511.29	5,704.40	5,535.99	30.25	29.77	170.67	-1,294.65	-123.53	97.52	42.41	55.11	1.770		
5,800.00	5,607.49	5,804.38	5,632.61	30.79	30.31	170.66	-1,320.24	-125.94	99.18	43.08	56.10	1.768		
5,900.00	5,703.70	5,904.37	5,729.24	31.34	30.85	170.65	-1,345.84	-128.35	100.84	43.76	57.08	1.767		
6,000.00	5,799.90	6,004.35	5,825.86	31.89	31.39	170.65	-1,371.44	-130.76	102.49	44.43	58.07	1.765		
6,100.00	5,896.11	6,104.34	5,922.49	32.44	31.93	170.64	-1,397.03	-133.17	104.15	45.10	59.05	1.764		
6,200.00	5,992.32	6,204.33	6,019.11	32.99	32.47	170.63	-1,422.63	-135.59	105.81	45.77	60.04	1.762		
6,300.00	6,088.52	6,304.31	6,115.74	33.54	33.00	170.63	-1,448.23	-138.00	107.46	46.44	61.03	1.761		
6,400.00	6,184.73	6,404.30	6,212.36	34.09	33.54	170.62	-1,473.83	-140.41	109.12	47.11	62.02	1.760		
6,500.00	6,280.93	6,504.29	6,308.98	34.64	34.08	170.62	-1,499.42	-142.82	110.78	47.77	63.00	1.758		
6,600.00	6,377.14	6,603.36	6,404.60	35.19	34.61	169.36	-1,524.77	-147.67	112.66	48.61	64.04	1.759		
6,700.00	6,473.34	6,699.17	6,495.48	35.74	35.11	161.74	-1,548.95	-165.51	117.05	51.66	65.39	1.790		
6,800.00	6,569.55	6,788.45	6,576.93	36.29	35.54	149.86	-1,570.72	-194.66	129.24	62.65	66.60	1.941		
6,900.00	6,665.75	6,868.85	6,646.25	36.84	35.89	132.78	-1,589.33	-230.77	154.61	88.33	66.27	2.333		
7,000.00	6,761.11	6,943.74	6,706.38	37.39	36.20	95.84	-1,605.53	-272.29	187.96	123.90	64.05	2.934		
7,100.00	6,853.41	7,016.04	6,759.56	37.89	36.47	72.98	-1,619.94	-319.04	222.10	161.49	60.62	3.664		
7,200.00	6,940.36	7,086.32	6,806.01	38.34	36.71	59.12	-1,632.59	-370.18	254.55	198.11	56.44	4.510		
7,300.00	7,019.83	7,155.03	6,845.88	38.74	36.93	50.31	-1,643.53	-425.02	283.95	232.12	51.83	5.479		
7,400.00	7,089.85	7,222.52	6,879.26	39.10	37.14	44.46	-1,652.77	-482.92	309.48	262.47	47.01	6.583		
7,500.00	7,148.71	7,289.09	6,906.19	39.42	37.35	40.51	-1,660.32	-543.29	330.61	288.38	42.23	7.828		
7,600.00	7,194.95	7,350.00	6,925.36	39.71	37.56	37.91	-1,665.80	-600.82	347.05	309.95	37.10	9.355		
7,700.00	7,227.43	7,420.37	6,940.78	40.01	37.85	36.22	-1,670.36	-669.30	358.39	324.29	34.11	10.508		
7,800.00	7,245.37	7,485.48	6,948.45	40.37	38.18	35.37	-1,672.85	-733.88	364.64	333.02	31.63	11.529		
7,900.00	7,248.84	7,559.74	6,949.90	40.87	38.69	35.21	-1,673.75	-808.10	365.86	334.55	31.31	11.685		
8,000.00	7,248.24	7,659.74	6,949.52	41.62	39.61	35.22	-1,674.35	-908.09	365.67	332.44	33.24	11.002		
8,100.00	7,247.65	7,759.74	6,949.14	42.66	40.81	35.24	-1,674.95	-1,008.09	365.49	330.06	35.43	10.316		
8,200.00	7,247.05	7,859.74	6,948.76	43.96	42.24	35.26	-1,675.54	-1,108.09	365.30	327.45	37.85	9.650		
8,300.00	7,246.46	7,959.74	6,948.39	45.46	43.85	35.28	-1,676.14	-1,208.08	365.12	324.65	40.47	9.022		
8,400.00	7,245.86	8,059.74	6,948.01	47.13	45.61	35.29	-1,676.74	-1,308.08	364.93	321.69	43.24	8.440		
8,500.00	7,245.27	8,159.74	6,947.63	48.93	47.49	35.31	-1,677.34	-1,408.08	364.75	318.61	46.14	7.905		
8,600.00	7,244.67	8,259.74	6,947.25	50.84	49.47	35.33	-1,677.94	-1,508.08	364.56	315.42	49.15	7.418		
8,700.00	7,244.07	8,359.74	6,946.87	52.85	51.54	35.35	-1,678.54	-1,608.07	364.38	312.14	52.24	6.975		
8,800.00	7,243.48	8,459.74	6,946.49	54.94	53.69	35.37	-1,679.14	-1,708.07	364.19	308.78	55.41	6.573		
8,900.00	7,242.88	8,559.74	6,946.11	57.10	55.90	35.38	-1,679.74	-1,808.07	364.01	305.36	58.64	6.207		
9,000.00	7,242.29	8,659.74	6,945.73	59.32	58.17	35.40	-1,680.33	-1,908.06	363.82	301.89	61.93	5.875		
9,100.00	7,241.69	8,759.74	6,945.35	61.60	60.50	35.42	-1,680.93	-2,008.06	363.64	298.38	65.26	5.572		
9,200.00	7,241.09	8,859.74	6,944.97	63.92	62.87	35.44	-1,681.53	-2,108.06	363.45	294.82	68.63	5.296		
9,300.00	7,240.50	8,959.74	6,944.59	66.29	65.28	35.45	-1,682.13	-2,208.06	363.27	291.23	72.04	5.043		
9,400.00	7,239.90	9,059.74	6,944.21	68.70	67.72	35.47	-1,682.73	-2,308.05	363.08	287.61	75.47	4.811		
9,500.00	7,239.31	9,159.74	6,943.83	71.14	70.20	35.49	-1,683.33	-2,408.05	362.90	283.96	78.93	4.598		
9,600.00	7,238.71	9,259.74	6,943.45	73.61	72.70	35.51	-1,683.93	-2,508.05	362.71	280.30	82.42	4.401		
9,700.00	7,238.11	9,359.74	6,943.07	76.11	75.23	35.53	-1,684.52	-2,608.05	362.53	276.61	85.92	4.219		
9,800.00	7,237.52	9,459.74	6,942.70	78.64	77.79	35.54	-1,685.12	-2,708.04	362.34	272.90	89.45	4.051		
9,900.00	7,236.92	9,559.74	6,942.32	81.19	80.36	35.56	-1,685.72	-2,808.04	362.16	269.17	92.99	3.895		
10,000.00	7,236.33	9,659.74	6,941.94	83.75	82.96	35.58	-1,686.32	-2,908.04	361.97	265.43	96.54	3.749		
10,100.00	7,235.73	9,759.74	6,941.56	86.34	85.57	35.60	-1,686.92	-3,008.03	361.79	261.67	100.11	3.614		
10,200.00	7,235.14	9,859.74	6,941.18	88.94	88.19	35.62	-1,687.52	-3,108.03	361.60	257.91	103.70	3.487		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	9,959.74	6,940.80	91.56	90.83	35.63	-1,688.12	-3,208.03	361.42	254.13	107.29	3.369		
10,400.00	7,233.94	10,059.74	6,940.42	94.19	93.49	35.65	-1,688.72	-3,308.03	361.23	250.34	110.90	3.257		
10,500.00	7,233.35	10,159.74	6,940.04	96.84	96.15	35.67	-1,689.31	-3,408.02	361.05	246.54	114.51	3.153		
10,600.00	7,232.75	10,259.74	6,939.66	99.50	98.83	35.69	-1,689.91	-3,508.02	360.86	242.73	118.14	3.055		
10,700.00	7,232.16	10,359.74	6,939.28	102.17	101.51	35.71	-1,690.51	-3,608.02	360.68	238.91	121.77	2.962		
10,800.00	7,231.56	10,459.74	6,938.90	104.85	104.21	35.73	-1,691.11	-3,708.02	360.50	235.09	125.41	2.875		
10,900.00	7,230.96	10,559.74	6,938.52	107.53	106.91	35.74	-1,691.71	-3,808.01	360.31	231.25	129.06	2.792		
11,000.00	7,230.37	10,659.74	6,938.14	110.23	109.63	35.76	-1,692.31	-3,908.01	360.13	227.41	132.72	2.714		
11,100.00	7,229.77	10,759.74	6,937.76	112.93	112.34	35.78	-1,692.91	-4,008.01	359.94	223.56	136.38	2.639		
11,200.00	7,229.18	10,859.73	6,937.39	115.65	115.07	35.80	-1,693.50	-4,108.00	359.76	219.71	140.05	2.569		
11,300.00	7,228.58	10,959.73	6,937.01	118.37	117.80	35.82	-1,694.10	-4,208.00	359.57	215.85	143.72	2.502		
11,400.00	7,227.99	11,059.73	6,936.63	121.09	120.54	35.83	-1,694.70	-4,308.00	359.39	211.98	147.41	2.438		
11,500.00	7,227.39	11,159.73	6,936.25	123.82	123.29	35.85	-1,695.30	-4,408.00	359.21	208.11	151.09	2.377		
11,600.00	7,226.79	11,259.73	6,935.87	126.56	126.03	35.87	-1,695.90	-4,507.99	359.02	204.23	154.79	2.319		
11,700.00	7,226.20	11,359.73	6,935.49	129.30	128.79	35.89	-1,696.50	-4,607.99	358.84	200.35	158.49	2.264		
11,800.00	7,225.60	11,459.73	6,935.11	132.05	131.55	35.91	-1,697.10	-4,707.99	358.65	196.46	162.19	2.211		
11,900.00	7,225.01	11,559.73	6,934.73	134.80	134.31	35.93	-1,697.69	-4,807.99	358.47	192.57	165.90	2.161		
12,000.00	7,224.41	11,659.73	6,934.35	137.56	137.07	35.94	-1,698.29	-4,907.98	358.28	188.67	169.61	2.112		
12,100.00	7,223.81	11,759.73	6,933.97	140.32	139.84	35.96	-1,698.89	-5,007.98	358.10	184.77	173.33	2.066		
12,200.00	7,223.22	11,859.73	6,933.59	143.08	142.62	35.98	-1,699.49	-5,107.98	357.92	180.87	177.05	2.022		
12,300.00	7,222.62	11,959.73	6,933.21	145.85	145.40	36.00	-1,700.09	-5,207.97	357.73	176.96	180.78	1.979		
12,400.00	7,222.03	12,059.73	6,932.83	148.62	148.18	36.02	-1,700.69	-5,307.97	357.55	173.04	184.51	1.938		
12,500.00	7,221.43	12,159.73	6,932.45	151.40	150.96	36.04	-1,701.29	-5,407.97	357.37	169.12	188.24	1.898		
12,600.00	7,220.83	12,259.73	6,932.07	154.18	153.74	36.06	-1,701.89	-5,507.97	357.18	165.20	191.98	1.860		
12,700.00	7,220.24	12,359.73	6,931.70	156.96	156.53	36.07	-1,702.48	-5,607.96	357.00	161.27	195.73	1.824		
12,800.00	7,219.64	12,459.73	6,931.32	159.74	159.32	36.09	-1,703.08	-5,707.96	356.81	157.34	199.47	1.789		
12,900.00	7,219.05	12,559.73	6,930.94	162.53	162.12	36.11	-1,703.68	-5,807.96	356.63	153.41	203.22	1.755		
13,000.00	7,218.45	12,659.73	6,930.56	165.32	164.91	36.13	-1,704.28	-5,907.96	356.45	149.47	206.98	1.722		
13,100.00	7,217.86	12,759.73	6,930.18	168.11	167.71	36.15	-1,704.88	-6,007.95	356.26	145.53	210.74	1.691		
13,200.00	7,217.26	12,859.73	6,929.80	170.90	170.51	36.17	-1,705.48	-6,107.95	356.08	141.58	214.50	1.660		
13,300.00	7,216.66	12,959.73	6,929.42	173.70	173.31	36.19	-1,706.08	-6,207.95	355.90	137.63	218.26	1.631		
13,400.00	7,216.07	13,059.73	6,929.04	176.49	176.11	36.20	-1,706.67	-6,307.94	355.71	133.68	222.03	1.602		
13,500.00	7,215.47	13,159.73	6,928.66	179.29	178.92	36.22	-1,707.27	-6,407.94	355.53	129.72	225.80	1.575		
13,600.00	7,214.88	13,259.73	6,928.28	182.09	181.73	36.24	-1,707.87	-6,507.94	355.35	125.77	229.58	1.548		
13,700.00	7,214.28	13,359.73	6,927.90	184.90	184.54	36.26	-1,708.47	-6,607.94	355.16	121.80	233.36	1.522		
13,800.00	7,213.68	13,459.73	6,927.52	187.70	187.35	36.28	-1,709.07	-6,707.93	354.98	117.84	237.14	1.497 Level 3		
13,900.00	7,213.09	13,559.73	6,927.14	190.51	190.16	36.30	-1,709.67	-6,807.93	354.80	113.87	240.93	1.473 Level 3		
14,000.00	7,212.49	13,659.73	6,926.76	193.32	192.97	36.32	-1,710.27	-6,907.93	354.61	109.90	244.72	1.449 Level 3		
14,100.00	7,211.90	13,759.73	6,926.38	196.13	195.78	36.34	-1,710.86	-7,007.92	354.43	105.92	248.51	1.426 Level 3		
14,200.00	7,211.30	13,859.73	6,926.01	198.94	198.60	36.35	-1,711.46	-7,107.92	354.25	101.94	252.30	1.404 Level 3		
14,300.00	7,210.71	13,959.73	6,925.63	201.75	201.42	36.37	-1,712.06	-7,207.92	354.06	97.96	256.10	1.383 Level 3		
14,400.00	7,210.11	14,059.73	6,925.25	204.56	204.23	36.39	-1,712.66	-7,307.92	353.88	93.98	259.90	1.362 Level 3		
14,500.00	7,209.51	14,159.73	6,924.87	207.38	207.05	36.41	-1,713.26	-7,407.91	353.70	89.99	263.71	1.341 Level 3		
14,600.00	7,208.92	14,259.73	6,924.49	210.19	209.87	36.43	-1,713.86	-7,507.91	353.51	86.00	267.52	1.321 Level 3		
14,700.00	7,208.32	14,359.73	6,924.11	213.01	212.69	36.45	-1,714.46	-7,607.91	353.33	82.00	271.33	1.302 Level 3		
14,800.00	7,207.73	14,459.73	6,923.73	215.83	215.52	36.47	-1,715.06	-7,707.91	353.15	78.00	275.14	1.284 Level 3		
14,900.00	7,207.13	14,559.73	6,923.35	218.65	218.34	36.49	-1,715.65	-7,807.90	352.96	74.00	278.96	1.265 Level 3		
15,000.00	7,206.53	14,659.73	6,922.97	221.47	221.16	36.51	-1,716.25	-7,907.90	352.78	70.00	282.78	1.248 Level 2		
15,100.00	7,205.94	14,759.73	6,922.59	224.29	223.99	36.52	-1,716.85	-8,007.90	352.60	65.99	286.60	1.230 Level 2		
15,200.00	7,205.34	14,859.73	6,922.21	227.11	226.81	36.54	-1,717.45	-8,107.89	352.42	61.99	290.43	1.213 Level 2		
15,257.29	7,205.00	14,917.02	6,921.99	228.73	228.43	36.55	-1,717.79	-8,165.18	352.31	59.69	292.62	1.204 Level 2, SF		
15,258.04	7,205.00	14,915.55	6,922.00	228.75	228.39	36.55	-1,717.78	-8,163.72	352.32	59.81	292.51	1.204 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	0.00	0.00	3.28	3.28	0.40	39.71	0.28	39.71					
100.00	100.00	100.00	100.00	3.28	3.28	0.40	39.71	0.28	39.71	33.14	6.57	6.045		
200.00	200.00	200.00	200.00	3.34	3.34	0.40	39.71	0.28	39.71	33.04	6.67	5.950		
300.00	299.98	301.40	301.38	3.44	3.44	175.58	37.93	0.09	39.69	32.80	6.89	5.759		
400.00	399.84	402.79	402.63	3.59	3.60	175.40	32.57	-0.48	39.63	32.41	7.22	5.488		
500.00	499.45	504.19	503.62	3.79	3.80	175.08	23.67	-1.43	39.53	31.87	7.65	5.164		
600.00	598.70	605.57	604.22	4.03	4.05	174.64	11.21	-2.76	39.39	31.21	8.17	4.818		
700.00	697.47	706.95	704.31	4.31	4.33	174.06	-4.78	-4.47	39.21	30.44	8.77	4.473		
800.00	795.62	808.32	803.76	4.64	4.67	173.36	-24.27	-6.54	39.00	29.58	9.42	4.141		
847.58	842.08	856.46	850.73	4.81	4.84	172.98	-34.75	-7.66	38.89	29.16	9.74	3.994 CC		
900.00	893.06	908.88	901.81	5.00	5.03	172.66	-46.46	-8.91	39.37	29.28	10.09	3.902		
1,000.00	989.65	1,008.81	999.18	5.40	5.42	172.56	-68.80	-11.29	42.91	32.11	10.80	3.975		
1,100.00	1,085.85	1,108.68	1,096.50	5.82	5.83	172.70	-91.13	-13.67	47.90	36.36	11.54	4.151		
1,200.00	1,182.06	1,208.56	1,193.82	6.27	6.25	172.83	-113.46	-16.06	52.89	40.58	12.31	4.295		
1,300.00	1,278.26	1,308.43	1,291.14	6.73	6.69	172.93	-135.78	-18.44	57.88	44.77	13.12	4.413		
1,400.00	1,374.47	1,408.31	1,388.45	7.20	7.14	173.01	-158.11	-20.82	62.88	48.93	13.94	4.509		
1,500.00	1,470.67	1,508.18	1,485.77	7.69	7.60	173.08	-180.44	-23.20	67.87	53.08	14.79	4.589		
1,600.00	1,566.88	1,608.06	1,583.09	8.18	8.07	173.14	-202.76	-25.58	72.86	57.21	15.65	4.656		
1,700.00	1,663.08	1,707.94	1,680.41	8.68	8.54	173.20	-225.09	-27.96	77.85	61.33	16.52	4.712		
1,800.00	1,759.29	1,807.81	1,777.73	9.19	9.02	173.25	-247.42	-30.34	82.85	65.44	17.41	4.759		
1,900.00	1,855.49	1,907.69	1,875.05	9.70	9.50	173.29	-269.74	-32.72	87.84	69.54	18.30	4.799		
2,000.00	1,951.70	2,007.56	1,972.37	10.22	9.98	173.33	-292.07	-35.10	92.83	73.63	19.21	4.834		
2,100.00	2,047.90	2,107.44	2,069.69	10.73	10.47	173.36	-314.40	-37.48	97.82	77.71	20.12	4.863		
2,200.00	2,144.11	2,207.31	2,167.00	11.26	10.97	173.39	-336.72	-39.86	102.82	81.79	21.03	4.889		
2,300.00	2,240.31	2,307.19	2,264.32	11.78	11.46	173.42	-359.05	-42.25	107.81	85.86	21.95	4.911		
2,400.00	2,336.52	2,407.06	2,361.64	12.31	11.96	173.44	-381.38	-44.63	112.80	89.92	22.88	4.930		
2,500.00	2,432.72	2,506.94	2,458.96	12.84	12.45	173.47	-403.71	-47.01	117.80	93.99	23.81	4.947		
2,600.00	2,528.93	2,606.81	2,556.28	13.37	12.95	173.49	-426.03	-49.39	122.79	98.04	24.74	4.962		
2,700.00	2,625.13	2,706.69	2,653.60	13.91	13.46	173.51	-448.36	-51.77	127.78	102.10	25.68	4.975		
2,800.00	2,721.34	2,806.56	2,750.92	14.44	13.96	173.52	-470.69	-54.15	132.77	106.15	26.62	4.987		
2,900.00	2,817.54	2,906.44	2,848.23	14.98	14.46	173.54	-493.01	-56.53	137.77	110.20	27.57	4.998		
3,000.00	2,913.75	3,006.31	2,945.55	15.52	14.97	173.56	-515.34	-58.91	142.76	114.25	28.51	5.007		
3,100.00	3,009.95	3,106.19	3,042.87	16.06	15.47	173.57	-537.67	-61.29	147.75	118.29	29.46	5.015		
3,200.00	3,106.16	3,206.06	3,140.19	16.60	15.98	173.59	-559.99	-63.67	152.75	122.34	30.41	5.023		
3,300.00	3,202.37	3,305.94	3,237.51	17.14	16.49	173.60	-582.32	-66.05	157.74	126.38	31.36	5.030		
3,400.00	3,298.57	3,405.81	3,334.83	17.68	17.00	173.61	-604.65	-68.44	162.73	130.42	32.32	5.036		
3,500.00	3,394.78	3,505.69	3,432.15	18.22	17.51	173.62	-626.97	-70.82	167.73	134.46	33.27	5.041		
3,600.00	3,490.98	3,605.57	3,529.46	18.76	18.02	173.63	-649.30	-73.20	172.72	138.49	34.23	5.046		
3,700.00	3,587.19	3,705.44	3,626.78	19.31	18.53	173.64	-671.63	-75.58	177.71	142.53	35.18	5.051		
3,800.00	3,683.39	3,805.32	3,724.10	19.85	19.04	173.65	-693.95	-77.96	182.71	146.56	36.14	5.055		
3,900.00	3,779.60	3,905.19	3,821.42	20.39	19.55	173.66	-716.28	-80.34	187.70	150.60	37.10	5.059		
4,000.00	3,875.80	4,005.07	3,918.74	20.94	20.06	173.67	-738.61	-82.72	192.69	154.63	38.06	5.062		
4,100.00	3,972.01	4,104.94	4,016.06	21.48	20.57	173.68	-760.94	-85.10	197.68	158.66	39.03	5.065		
4,200.00	4,068.21	4,204.82	4,113.38	22.03	21.08	173.68	-783.26	-87.48	202.68	162.69	39.99	5.068		
4,300.00	4,164.42	4,304.69	4,210.69	22.57	21.60	173.69	-805.59	-89.86	207.67	166.72	40.95	5.071		
4,400.00	4,260.62	4,404.57	4,308.01	23.12	22.11	173.70	-827.92	-92.25	212.66	170.75	41.92	5.074		
4,500.00	4,356.83	4,504.44	4,405.33	23.67	22.62	173.71	-850.24	-94.63	217.66	174.78	42.88	5.076		
4,600.00	4,453.03	4,604.32	4,502.65	24.21	23.14	173.71	-872.57	-97.01	222.65	178.80	43.85	5.078		
4,700.00	4,549.24	4,704.19	4,599.97	24.76	23.65	173.72	-894.90	-99.39	227.64	182.83	44.81	5.080		
4,800.00	4,645.44	4,804.07	4,697.29	25.31	24.16	173.72	-917.22	-101.77	232.64	186.86	45.78	5.082		
4,900.00	4,741.65	4,903.94	4,794.61	25.86	24.68	173.73	-939.55	-104.15	237.63	190.88	46.75	5.083		
5,000.00	4,837.85	5,003.82	4,891.92	26.40	25.19	173.73	-961.88	-106.53	242.62	194.91	47.71	5.085		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,103.69	4,989.24	26.95	25.71	173.74	-984.20	-108.91	247.62	198.93	48.68	5.086		
5,200.00	5,030.26	5,203.57	5,086.56	27.50	26.22	173.74	-1,006.53	-111.29	252.61	202.96	49.65	5.088		
5,300.00	5,126.47	5,303.44	5,183.88	28.05	26.74	173.75	-1,028.86	-113.67	257.60	206.98	50.62	5.089		
5,400.00	5,222.67	5,403.32	5,281.20	28.60	27.25	173.75	-1,051.18	-116.05	262.60	211.01	51.59	5.090		
5,500.00	5,318.88	5,503.20	5,378.52	29.15	27.77	173.76	-1,073.51	-118.44	267.59	215.03	52.56	5.091		
5,600.00	5,415.08	5,603.07	5,475.84	29.70	28.28	173.76	-1,095.84	-120.82	272.58	219.05	53.53	5.092		
5,700.00	5,511.29	5,702.95	5,573.15	30.25	28.80	173.77	-1,118.17	-123.20	277.57	223.08	54.50	5.093		
5,800.00	5,607.49	5,802.82	5,670.47	30.79	29.32	173.77	-1,140.49	-125.58	282.57	227.10	55.47	5.094		
5,900.00	5,703.70	5,902.70	5,767.79	31.34	29.83	173.77	-1,162.82	-127.96	287.56	231.12	56.44	5.095		
6,000.00	5,799.90	6,002.57	5,865.11	31.89	30.35	173.78	-1,185.15	-130.34	292.55	235.14	57.41	5.096		
6,100.00	5,896.11	6,102.45	5,962.43	32.44	30.86	173.78	-1,207.47	-132.72	297.55	239.16	58.38	5.096		
6,200.00	5,992.32	6,202.32	6,059.75	32.99	31.38	173.78	-1,229.80	-135.10	302.54	243.18	59.36	5.097		
6,300.00	6,088.52	6,302.20	6,157.07	33.54	31.90	173.79	-1,252.13	-137.48	307.53	247.21	60.33	5.098		
6,400.00	6,184.73	6,402.07	6,254.39	34.09	32.41	173.79	-1,274.45	-139.86	312.53	251.23	61.30	5.098		
6,500.00	6,280.93	6,501.95	6,351.70	34.64	32.93	173.79	-1,296.78	-142.24	317.52	255.25	62.27	5.099		
6,600.00	6,377.14	6,601.82	6,449.02	35.19	33.45	173.80	-1,319.11	-144.63	322.51	259.27	63.25	5.099		
6,700.00	6,473.34	6,700.22	6,544.49	35.74	33.95	172.76	-1,341.05	-152.89	327.69	263.45	64.24	5.101		
6,800.00	6,569.55	6,794.49	6,633.75	36.29	34.41	169.39	-1,361.65	-174.77	334.15	268.88	65.27	5.120		
6,900.00	6,665.75	6,881.33	6,712.36	36.84	34.81	159.64	-1,379.88	-206.69	344.29	278.08	66.21	5.200		
7,000.00	6,761.11	6,962.76	6,781.57	37.39	35.15	127.50	-1,396.01	-246.33	358.37	291.61	66.76	5.368		
7,100.00	6,853.41	7,041.29	6,843.11	37.89	35.45	106.57	-1,410.42	-292.85	374.49	307.74	66.75	5.610		
7,200.00	6,940.36	7,117.51	6,897.05	38.34	35.71	93.13	-1,423.13	-345.11	391.32	325.16	66.16	5.915		
7,300.00	7,019.83	7,191.91	6,943.47	38.74	35.96	84.00	-1,434.14	-402.15	407.72	342.62	65.10	6.263		
7,400.00	7,089.85	7,264.88	6,982.38	39.10	36.19	77.55	-1,443.46	-463.12	422.78	358.98	63.80	6.626		
7,500.00	7,148.71	7,336.75	7,013.81	39.42	36.42	72.94	-1,451.08	-527.26	435.78	373.27	62.51	6.972		
7,600.00	7,194.95	7,407.79	7,037.75	39.71	36.69	69.73	-1,457.01	-593.85	446.17	384.70	61.47	7.258		
7,700.00	7,227.43	7,478.27	7,054.21	40.01	37.01	67.65	-1,461.23	-662.21	453.56	392.62	60.94	7.443		
7,800.00	7,245.37	7,550.00	7,063.30	40.37	37.45	66.56	-1,463.77	-733.28	457.69	396.54	61.16	7.484		
7,900.00	7,248.84	7,626.83	7,064.94	40.87	38.08	66.36	-1,464.65	-810.06	458.53	396.21	62.31	7.358		
8,000.00	7,248.24	7,726.83	7,064.71	41.62	39.14	66.40	-1,465.25	-910.06	458.37	393.69	64.67	7.087		
8,100.00	7,247.65	7,826.83	7,064.48	42.66	40.44	66.44	-1,465.85	-1,010.05	458.21	390.83	67.37	6.801		
8,200.00	7,247.05	7,926.83	7,064.25	43.96	41.95	66.48	-1,466.45	-1,110.05	458.05	387.67	70.37	6.509		
8,300.00	7,246.46	8,026.83	7,064.02	45.46	43.61	66.52	-1,467.04	-1,210.05	457.89	384.25	73.64	6.218		
8,400.00	7,245.86	8,126.83	7,063.79	47.13	45.40	66.56	-1,467.64	-1,310.04	457.73	380.59	77.13	5.934		
8,500.00	7,245.27	8,226.83	7,063.56	48.93	47.31	66.60	-1,468.24	-1,410.04	457.57	376.74	80.83	5.661		
8,600.00	7,244.67	8,326.83	7,063.33	50.84	49.31	66.64	-1,468.84	-1,510.04	457.41	372.70	84.71	5.400		
8,700.00	7,244.07	8,426.82	7,063.10	52.85	51.40	66.68	-1,469.44	-1,610.04	457.25	368.52	88.73	5.153		
8,800.00	7,243.48	8,526.82	7,062.87	54.94	53.57	66.73	-1,470.04	-1,710.03	457.09	364.20	92.89	4.921		
8,900.00	7,242.88	8,626.82	7,062.64	57.10	55.79	66.77	-1,470.64	-1,810.03	456.93	359.76	97.17	4.702		
9,000.00	7,242.29	8,726.82	7,062.40	59.32	58.08	66.81	-1,471.24	-1,910.03	456.78	355.22	101.55	4.498		
9,100.00	7,241.69	8,826.82	7,062.17	61.60	60.41	66.85	-1,471.83	-2,010.03	456.62	350.59	106.03	4.307		
9,200.00	7,241.09	8,926.82	7,061.94	63.92	62.79	66.89	-1,472.43	-2,110.02	456.46	345.88	110.58	4.128		
9,300.00	7,240.50	9,026.82	7,061.71	66.29	65.21	66.93	-1,473.03	-2,210.02	456.30	341.10	115.20	3.961		
9,400.00	7,239.90	9,126.82	7,061.48	68.70	67.66	66.97	-1,473.63	-2,310.02	456.15	336.26	119.89	3.805		
9,500.00	7,239.31	9,226.82	7,061.25	71.14	70.14	67.02	-1,474.23	-2,410.01	455.99	331.36	124.63	3.659		
9,600.00	7,238.71	9,326.82	7,061.02	73.61	72.66	67.06	-1,474.83	-2,510.01	455.83	326.41	129.43	3.522		
9,700.00	7,238.11	9,426.82	7,060.79	76.11	75.19	67.10	-1,475.43	-2,610.01	455.68	321.41	134.26	3.394		
9,800.00	7,237.52	9,526.82	7,060.56	78.64	77.75	67.14	-1,476.03	-2,710.01	455.52	316.38	139.14	3.274		
9,900.00	7,236.92	9,626.82	7,060.33	81.19	80.33	67.18	-1,476.63	-2,810.00	455.37	311.31	144.06	3.161		
10,000.00	7,236.33	9,726.82	7,060.10	83.75	82.93	67.22	-1,477.22	-2,910.00	455.21	306.20	149.01	3.055		
10,100.00	7,235.73	9,826.82	7,059.87	86.34	85.54	67.27	-1,477.82	-3,010.00	455.06	301.06	153.99	2.955		
10,200.00	7,235.14	9,926.81	7,059.64	88.94	88.17	67.31	-1,478.42	-3,110.00	454.90	295.90	159.00	2.861		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	10,026.81	7,059.41	91.56	90.82	67.35	-1,479.02	-3,209.99	454.75	290.71	164.04	2.772		
10,400.00	7,233.94	10,126.81	7,059.18	94.19	93.47	67.39	-1,479.62	-3,309.99	454.59	285.50	169.10	2.688		
10,500.00	7,233.35	10,226.81	7,058.95	96.84	96.14	67.43	-1,480.22	-3,409.99	454.44	280.26	174.18	2.609		
10,600.00	7,232.75	10,326.81	7,058.72	99.50	98.82	67.47	-1,480.82	-3,509.98	454.28	275.00	179.28	2.534		
10,700.00	7,232.16	10,426.81	7,058.49	102.17	101.51	67.52	-1,481.42	-3,609.98	454.13	269.73	184.40	2.463		
10,800.00	7,231.56	10,526.81	7,058.26	104.85	104.21	67.56	-1,482.02	-3,709.98	453.98	264.44	189.54	2.395		
10,900.00	7,230.96	10,626.81	7,058.03	107.53	106.91	67.60	-1,482.61	-3,809.98	453.82	259.13	194.69	2.331		
11,000.00	7,230.37	10,726.81	7,057.80	110.23	109.63	67.64	-1,483.21	-3,909.97	453.67	253.81	199.86	2.270		
11,100.00	7,229.77	10,826.81	7,057.57	112.93	112.35	67.68	-1,483.81	-4,009.97	453.52	248.47	205.05	2.212		
11,200.00	7,229.18	10,926.81	7,057.34	115.65	115.08	67.73	-1,484.41	-4,109.97	453.36	243.12	210.24	2.156		
11,300.00	7,228.58	11,026.81	7,057.11	118.37	117.81	67.77	-1,485.01	-4,209.97	453.21	237.76	215.45	2.104		
11,400.00	7,227.99	11,126.81	7,056.88	121.09	120.55	67.81	-1,485.61	-4,309.96	453.06	232.38	220.68	2.053		
11,500.00	7,227.39	11,226.81	7,056.65	123.82	123.30	67.85	-1,486.21	-4,409.96	452.91	227.00	225.91	2.005		
11,600.00	7,226.79	11,326.81	7,056.41	126.56	126.05	67.89	-1,486.81	-4,509.96	452.76	221.60	231.16	1.959		
11,700.00	7,226.20	11,426.80	7,056.18	129.30	128.80	67.94	-1,487.40	-4,609.95	452.61	216.19	236.41	1.914		
11,800.00	7,225.60	11,526.80	7,055.95	132.05	131.56	67.98	-1,488.00	-4,709.95	452.45	210.78	241.68	1.872		
11,900.00	7,225.01	11,626.80	7,055.72	134.80	134.33	68.02	-1,488.60	-4,809.95	452.30	205.35	246.95	1.832		
12,000.00	7,224.41	11,726.80	7,055.49	137.56	137.09	68.06	-1,489.20	-4,909.95	452.15	199.92	252.23	1.793		
12,100.00	7,223.81	11,826.80	7,055.26	140.32	139.87	68.11	-1,489.80	-5,009.94	452.00	194.48	257.52	1.755		
12,200.00	7,223.22	11,926.80	7,055.03	143.08	142.64	68.15	-1,490.40	-5,109.94	451.85	189.03	262.82	1.719		
12,300.00	7,222.62	12,026.80	7,054.80	145.85	145.42	68.19	-1,491.00	-5,209.94	451.70	183.57	268.13	1.685		
12,400.00	7,222.03	12,126.80	7,054.57	148.62	148.20	68.23	-1,491.60	-5,309.94	451.55	178.10	273.45	1.651		
12,500.00	7,221.43	12,226.80	7,054.34	151.40	150.98	68.27	-1,492.20	-5,409.93	451.40	172.63	278.77	1.619		
12,600.00	7,220.83	12,326.80	7,054.11	154.18	153.77	68.32	-1,492.79	-5,509.93	451.25	167.15	284.10	1.588		
12,700.00	7,220.24	12,426.80	7,053.88	156.96	156.56	68.36	-1,493.39	-5,609.93	451.11	161.67	289.44	1.559		
12,800.00	7,219.64	12,526.80	7,053.65	159.74	159.35	68.40	-1,493.99	-5,709.92	450.96	156.18	294.78	1.530		
12,900.00	7,219.05	12,626.80	7,053.42	162.53	162.15	68.44	-1,494.59	-5,809.92	450.81	150.68	300.13	1.502		
13,000.00	7,218.45	12,726.80	7,053.19	165.32	164.94	68.49	-1,495.19	-5,909.92	450.66	145.18	305.48	1.475 Level 3		
13,100.00	7,217.86	12,826.80	7,052.96	168.11	167.74	68.53	-1,495.79	-6,009.92	450.51	139.67	310.85	1.449 Level 3		
13,200.00	7,217.26	12,926.79	7,052.73	170.90	170.54	68.57	-1,496.39	-6,109.91	450.36	134.15	316.21	1.424 Level 3		
13,300.00	7,216.66	13,026.79	7,052.50	173.70	173.34	68.61	-1,496.99	-6,209.91	450.22	128.63	321.59	1.400 Level 3		
13,400.00	7,216.07	13,126.79	7,052.27	176.49	176.15	68.66	-1,497.58	-6,309.91	450.07	123.11	326.96	1.377 Level 3		
13,500.00	7,215.47	13,226.79	7,052.04	179.29	178.95	68.70	-1,498.18	-6,409.91	449.92	117.57	332.35	1.354 Level 3		
13,600.00	7,214.88	13,326.79	7,051.81	182.09	181.76	68.74	-1,498.78	-6,509.90	449.78	112.04	337.74	1.332 Level 3		
13,700.00	7,214.28	13,426.79	7,051.58	184.90	184.57	68.79	-1,499.38	-6,609.90	449.63	106.50	343.13	1.310 Level 3		
13,800.00	7,213.68	13,526.79	7,051.35	187.70	187.38	68.83	-1,499.98	-6,709.90	449.48	100.95	348.53	1.290 Level 3		
13,900.00	7,213.09	13,626.79	7,051.12	190.51	190.19	68.87	-1,500.58	-6,809.89	449.34	95.40	353.93	1.270 Level 3		
14,000.00	7,212.49	13,726.79	7,050.89	193.32	193.01	68.91	-1,501.18	-6,909.89	449.19	89.85	359.34	1.250 Level 3		
14,100.00	7,211.90	13,826.79	7,050.66	196.13	195.82	68.96	-1,501.78	-7,009.89	449.05	84.29	364.75	1.231 Level 2		
14,200.00	7,211.30	13,926.79	7,050.42	198.94	198.64	69.00	-1,502.38	-7,109.89	448.90	78.73	370.17	1.213 Level 2		
14,300.00	7,210.71	14,026.79	7,050.19	201.75	201.46	69.04	-1,502.97	-7,209.88	448.76	73.16	375.59	1.195 Level 2		
14,400.00	7,210.11	14,126.79	7,049.96	204.56	204.27	69.09	-1,503.57	-7,309.88	448.61	67.59	381.02	1.177 Level 2		
14,500.00	7,209.51	14,226.79	7,049.73	207.38	207.09	69.13	-1,504.17	-7,409.88	448.47	62.02	386.45	1.160 Level 2		
14,600.00	7,208.92	14,326.79	7,049.50	210.19	209.91	69.17	-1,504.77	-7,509.88	448.32	56.44	391.89	1.144 Level 2		
14,700.00	7,208.32	14,426.78	7,049.27	213.01	212.74	69.21	-1,505.37	-7,609.87	448.18	50.85	397.33	1.128 Level 2		
14,800.00	7,207.73	14,526.78	7,049.04	215.83	215.56	69.26	-1,505.97	-7,709.87	448.04	45.27	402.77	1.112 Level 2		
14,900.00	7,207.13	14,626.78	7,048.81	218.65	218.38	69.30	-1,506.57	-7,809.87	447.89	39.68	408.22	1.097 Level 2		
15,000.00	7,206.53	14,726.78	7,048.58	221.47	221.21	69.34	-1,507.17	-7,909.86	447.75	34.08	413.67	1.082 Level 2		
15,100.00	7,205.94	14,826.78	7,048.35	224.29	224.03	69.39	-1,507.77	-8,009.86	447.61	28.48	419.12	1.068 Level 2		
15,200.00	7,205.34	14,926.78	7,048.12	227.11	226.86	69.43	-1,508.36	-8,109.86	447.46	22.88	424.58	1.054 Level 2		
15,258.04	7,205.00	14,984.82	7,047.99	228.75	228.50	69.45	-1,508.71	-8,167.90	447.38	19.63	427.75	1.046 Level 2, 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	0.00	0.00	3.28	3.28	0.53	59.76	0.56	59.76					
100.00	100.00	100.00	100.00	3.28	3.28	0.53	59.76	0.56	59.76	53.19	6.57	9.097		
200.00	200.00	200.00	200.00	3.34	3.34	0.53	59.76	0.56	59.76	53.09	6.67	8.954		
300.00	299.98	302.11	302.09	3.44	3.44	175.70	57.95	0.32	59.73	52.84	6.89	8.666		
400.00	399.84	404.23	404.05	3.59	3.60	175.45	52.54	-0.37	59.65	52.42	7.22	8.257		
500.00	499.45	506.33	505.75	3.79	3.81	175.05	43.53	-1.54	59.50	51.85	7.66	7.769		
600.00	598.70	608.43	607.04	4.03	4.06	174.47	30.93	-3.16	59.31	51.13	8.18	7.249		
700.00	697.47	710.51	707.81	4.31	4.35	173.73	14.76	-5.25	59.07	50.30	8.78	6.731		
724.27	721.35	735.13	732.03	4.39	4.42	173.53	10.34	-5.82	59.02	50.09	8.93	6.610 CC, ES		
800.00	795.62	810.84	806.46	4.64	4.67	173.03	-3.41	-7.59	60.02	50.63	9.39	6.394		
900.00	893.06	910.74	904.67	5.00	5.03	172.75	-21.55	-9.93	64.38	54.34	10.04	6.411		
1,000.00	989.65	1,010.43	1,002.68	5.40	5.40	172.86	-39.65	-12.27	72.19	61.44	10.75	6.716		
1,100.00	1,085.85	1,110.00	1,100.56	5.82	5.79	173.09	-57.73	-14.60	81.45	69.96	11.49	7.089		
1,200.00	1,182.06	1,209.57	1,198.45	6.27	6.20	173.27	-75.81	-16.93	90.71	78.45	12.26	7.399		
1,300.00	1,278.26	1,309.14	1,296.34	6.73	6.62	173.41	-93.89	-19.26	99.97	86.92	13.06	7.658		
1,400.00	1,374.47	1,408.71	1,394.22	7.20	7.05	173.54	-111.97	-21.60	109.24	95.36	13.87	7.874		
1,500.00	1,470.67	1,508.28	1,492.11	7.69	7.48	173.64	-130.05	-23.93	118.50	103.79	14.71	8.057		
1,600.00	1,566.88	1,607.85	1,589.99	8.18	7.93	173.73	-148.13	-26.26	127.76	112.21	15.56	8.213		
1,700.00	1,663.08	1,707.42	1,687.88	8.68	8.37	173.81	-166.21	-28.59	137.03	120.61	16.42	8.346		
1,800.00	1,759.29	1,806.99	1,785.77	9.19	8.83	173.87	-184.30	-30.92	146.29	129.00	17.29	8.460		
1,900.00	1,855.49	1,906.56	1,883.65	9.70	9.29	173.93	-202.38	-33.26	155.56	137.39	18.17	8.560		
2,000.00	1,951.70	2,006.13	1,981.54	10.22	9.75	173.99	-220.46	-35.59	164.82	145.76	19.06	8.646		
2,100.00	2,047.90	2,105.70	2,079.43	10.73	10.21	174.03	-238.54	-37.92	174.09	154.13	19.96	8.722		
2,200.00	2,144.11	2,205.27	2,177.31	11.26	10.68	174.07	-256.62	-40.25	183.35	162.49	20.86	8.789		
2,300.00	2,240.31	2,304.84	2,275.20	11.78	11.15	174.11	-274.70	-42.59	192.62	170.85	21.77	8.848		
2,400.00	2,336.52	2,404.41	2,373.09	12.31	11.62	174.15	-292.78	-44.92	201.88	179.20	22.68	8.901		
2,500.00	2,432.72	2,503.98	2,470.97	12.84	12.09	174.18	-310.86	-47.25	211.15	187.55	23.60	8.948		
2,600.00	2,528.93	2,603.55	2,568.86	13.37	12.56	174.21	-328.94	-49.58	220.42	195.90	24.52	8.991		
2,700.00	2,625.13	2,703.12	2,666.75	13.91	13.04	174.23	-347.02	-51.91	229.68	204.24	25.44	9.029		
2,800.00	2,721.34	2,802.69	2,764.63	14.44	13.52	174.26	-365.10	-54.25	238.95	212.58	26.36	9.063		
2,900.00	2,817.54	2,902.26	2,862.52	14.98	14.00	174.28	-383.18	-56.58	248.21	220.92	27.29	9.094		
3,000.00	2,913.75	3,001.83	2,960.41	15.52	14.48	174.30	-401.26	-58.91	257.48	229.26	28.22	9.123		
3,100.00	3,009.95	3,101.40	3,058.29	16.06	14.96	174.32	-419.35	-61.24	266.74	237.59	29.16	9.149		
3,200.00	3,106.16	3,200.97	3,156.18	16.60	15.44	174.34	-437.43	-63.58	276.01	245.92	30.09	9.173		
3,300.00	3,202.37	3,300.54	3,254.07	17.14	15.92	174.36	-455.51	-65.91	285.28	254.25	31.03	9.195		
3,400.00	3,298.57	3,400.11	3,351.95	17.68	16.40	174.37	-473.59	-68.24	294.54	262.58	31.96	9.215		
3,500.00	3,394.78	3,499.68	3,449.84	18.22	16.88	174.39	-491.67	-70.57	303.81	270.90	32.90	9.233		
3,600.00	3,490.98	3,600.75	3,547.73	18.76	17.37	174.40	-509.75	-72.90	313.07	279.22	33.85	9.249		
3,700.00	3,587.19	3,701.18	3,645.61	19.31	17.86	174.42	-527.83	-75.24	322.34	287.54	34.80	9.264		
3,800.00	3,683.39	3,798.39	3,743.50	19.85	18.34	174.43	-545.91	-77.57	331.60	295.88	35.73	9.281		
3,900.00	3,779.60	3,902.04	3,841.39	20.39	18.84	174.44	-563.99	-79.90	340.87	304.18	36.69	9.290		
4,000.00	3,875.80	3,997.53	3,939.27	20.94	19.31	174.45	-582.07	-82.23	350.14	312.52	37.62	9.308		
4,100.00	3,972.01	4,097.10	4,037.16	21.48	19.79	174.46	-600.15	-84.57	359.40	320.84	38.56	9.320		
4,200.00	4,068.21	4,203.33	4,135.05	22.03	20.31	174.47	-618.23	-86.90	368.67	329.13	39.54	9.324		
4,300.00	4,164.42	4,303.76	4,232.93	22.57	20.80	174.48	-636.32	-89.23	377.93	337.44	40.49	9.334		
4,400.00	4,260.62	4,404.19	4,330.82	23.12	21.29	174.49	-654.40	-91.56	387.20	345.76	41.44	9.343		
4,500.00	4,356.83	4,504.62	4,428.71	23.67	21.79	174.50	-672.48	-93.89	396.47	354.07	42.39	9.352		
4,600.00	4,453.03	4,594.95	4,526.59	24.21	22.23	174.51	-690.56	-96.23	405.73	362.43	43.30	9.370		
4,700.00	4,549.24	4,705.48	4,624.48	24.76	22.77	174.52	-708.64	-98.56	415.00	370.70	44.30	9.368		
4,800.00	4,645.44	4,805.92	4,722.37	25.31	23.26	174.52	-726.72	-100.89	424.26	379.01	45.26	9.375		
4,900.00	4,741.65	4,893.65	4,820.25	25.86	23.69	174.53	-744.80	-103.22	433.53	387.38	46.15	9.393		
5,000.00	4,837.85	5,006.78	4,918.14	26.40	24.25	174.54	-762.88	-105.56	442.80	395.63	47.17	9.388		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,107.21	5,016.03	26.95	24.74	174.54	-780.96	-107.89	452.06	403.94	48.12	9.394		
5,200.00	5,030.26	5,207.64	5,113.91	27.50	25.23	174.55	-799.04	-110.22	461.33	412.25	49.08	9.400		
5,300.00	5,126.47	5,308.07	5,211.80	28.05	25.73	174.56	-817.12	-112.55	470.59	420.56	50.03	9.405		
5,400.00	5,222.67	5,391.50	5,309.69	28.60	26.14	174.56	-835.20	-114.88	479.86	428.95	50.91	9.425		
5,500.00	5,318.88	5,508.93	5,407.57	29.15	26.71	174.57	-853.28	-117.22	489.13	437.18	51.95	9.415		
5,600.00	5,415.08	5,590.64	5,505.46	29.70	27.12	174.57	-871.37	-119.55	498.39	445.57	52.82	9.436		
5,700.00	5,511.29	5,709.79	5,603.35	30.25	27.70	174.58	-889.45	-121.88	507.66	453.79	53.86	9.425		
5,800.00	5,607.49	5,789.78	5,701.23	30.79	28.09	174.58	-907.53	-124.21	516.92	462.20	54.73	9.445		
5,900.00	5,703.70	5,889.35	5,799.12	31.34	28.58	174.59	-925.61	-126.55	526.19	470.51	55.68	9.450		
6,000.00	5,799.90	5,988.92	5,897.00	31.89	29.07	174.59	-943.69	-128.88	535.46	478.82	56.64	9.454		
6,100.00	5,896.11	6,088.49	5,994.89	32.44	29.56	174.60	-961.77	-131.21	544.72	487.13	57.59	9.458		
6,200.00	5,992.32	6,188.06	6,092.78	32.99	30.06	174.60	-979.85	-133.54	553.99	495.44	58.55	9.462		
6,300.00	6,088.52	6,287.63	6,190.66	33.54	30.55	174.61	-997.93	-135.88	563.26	503.75	59.50	9.466		
6,400.00	6,184.73	6,387.20	6,288.55	34.09	31.04	174.61	-1,016.01	-138.21	572.52	512.06	60.46	9.469		
6,500.00	6,280.93	6,486.77	6,386.44	34.64	31.53	174.62	-1,034.09	-140.54	581.79	520.37	61.42	9.473		
6,600.00	6,377.14	6,586.34	6,484.32	35.19	32.02	174.62	-1,052.17	-142.87	591.05	528.68	62.37	9.476		
6,700.00	6,473.34	6,686.02	6,582.20	35.74	32.51	174.41	-1,070.29	-147.39	600.31	536.98	63.33	9.479		
6,800.00	6,569.55	6,783.32	6,676.16	36.29	32.97	172.97	-1,087.90	-165.04	609.77	545.47	64.30	9.483		
6,900.00	6,665.75	6,874.10	6,760.44	36.84	33.38	165.65	-1,103.93	-194.46	620.48	555.27	65.22	9.514		
7,000.00	6,761.11	6,959.58	6,835.26	37.39	33.74	135.82	-1,118.36	-233.05	632.83	566.81	66.02	9.585		
7,100.00	6,853.41	7,042.03	6,901.97	37.89	34.05	116.78	-1,131.44	-279.61	645.96	579.30	66.66	9.691		
7,200.00	6,940.36	7,122.06	6,960.51	38.34	34.34	104.83	-1,143.11	-332.84	659.17	592.07	67.10	9.824		
7,300.00	7,019.83	7,200.00	7,010.75	38.74	34.60	96.81	-1,153.35	-391.47	671.81	604.43	67.38	9.970		
7,400.00	7,089.85	7,276.67	7,052.93	39.10	34.86	91.16	-1,162.18	-454.83	683.28	615.68	67.60	10.108		
7,500.00	7,148.71	7,350.00	7,085.96	39.42	35.12	87.12	-1,169.36	-519.86	693.08	625.28	67.81	10.222		
7,600.00	7,194.95	7,426.41	7,112.32	39.71	35.47	84.25	-1,175.41	-591.28	700.81	632.51	68.31	10.260		
7,700.00	7,227.43	7,500.00	7,129.56	40.01	35.92	82.38	-1,179.78	-662.64	706.16	637.12	69.04	10.228		
7,800.00	7,245.37	7,573.50	7,138.58	40.37	36.52	81.37	-1,182.66	-735.49	708.91	638.74	70.17	10.102		
7,900.00	7,248.84	7,656.43	7,139.80	40.87	37.36	81.15	-1,184.27	-818.37	708.92	636.99	71.94	9.855		
8,000.00	7,248.24	7,756.43	7,139.26	41.62	38.59	81.15	-1,185.84	-918.35	707.94	633.47	74.47	9.507		
8,100.00	7,247.65	7,856.42	7,138.72	42.66	40.01	81.14	-1,187.41	-1,018.34	706.96	629.63	77.32	9.143		
8,200.00	7,247.05	7,956.42	7,138.17	43.96	41.59	81.13	-1,188.98	-1,118.32	705.97	625.50	80.47	8.773		
8,300.00	7,246.46	8,056.41	7,137.63	45.46	43.31	81.12	-1,190.55	-1,218.30	704.99	621.10	83.89	8.404		
8,400.00	7,245.86	8,156.41	7,137.09	47.13	45.16	81.11	-1,192.12	-1,318.28	704.01	616.47	87.53	8.043		
8,500.00	7,245.27	8,256.40	7,136.55	48.93	47.11	81.11	-1,193.69	-1,418.26	703.02	611.64	91.38	7.693		
8,600.00	7,244.67	8,356.40	7,136.01	50.84	49.15	81.10	-1,195.26	-1,518.24	702.04	606.63	95.41	7.358		
8,700.00	7,244.07	8,456.39	7,135.46	52.85	51.27	81.09	-1,196.83	-1,618.22	701.06	601.46	99.60	7.039		
8,800.00	7,243.48	8,556.39	7,134.92	54.94	53.46	81.08	-1,198.40	-1,718.21	700.08	596.15	103.93	6.736		
8,900.00	7,242.88	8,656.38	7,134.38	57.10	55.71	81.07	-1,199.97	-1,818.19	699.09	590.72	108.38	6.451		
9,000.00	7,242.29	8,756.38	7,133.84	59.32	58.02	81.07	-1,201.54	-1,918.17	698.11	585.18	112.93	6.182		
9,100.00	7,241.69	8,856.37	7,133.30	61.60	60.37	81.06	-1,203.11	-2,018.15	697.13	579.55	117.58	5.929		
9,200.00	7,241.09	8,956.37	7,132.75	63.92	62.77	81.05	-1,204.68	-2,118.13	696.15	573.83	122.32	5.691		
9,300.00	7,240.50	9,056.36	7,132.21	66.29	65.20	81.04	-1,206.25	-2,218.11	695.16	568.04	127.13	5.468		
9,400.00	7,239.90	9,156.36	7,131.67	68.70	67.66	81.03	-1,207.82	-2,318.09	694.18	562.18	132.00	5.259		
9,500.00	7,239.31	9,256.36	7,131.13	71.14	70.16	81.02	-1,209.39	-2,418.07	693.20	556.26	136.94	5.062		
9,600.00	7,238.71	9,356.35	7,130.59	73.61	72.68	81.02	-1,210.96	-2,518.06	692.21	550.29	141.93	4.877		
9,700.00	7,238.11	9,456.35	7,130.04	76.11	75.23	81.01	-1,212.53	-2,618.04	691.23	544.27	146.96	4.703		
9,800.00	7,237.52	9,556.34	7,129.50	78.64	77.79	81.00	-1,214.10	-2,718.02	690.25	538.21	152.04	4.540		
9,900.00	7,236.92	9,656.34	7,128.96	81.19	80.38	80.99	-1,215.67	-2,818.00	689.27	532.10	157.16	4.386		
10,000.00	7,236.33	9,756.33	7,128.42	83.75	82.99	80.98	-1,217.24	-2,917.98	688.28	525.97	162.32	4.240		
10,100.00	7,235.73	9,856.33	7,127.88	86.34	85.61	80.97	-1,218.81	-3,017.96	687.30	519.80	167.50	4.103		
10,200.00	7,235.14	9,956.32	7,127.33	88.94	88.24	80.97	-1,220.38	-3,117.94	686.32	513.60	172.71	3.974		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	7,234.54	10,056.32	7,126.79	91.56	90.89	80.96	-1,221.95	-3,217.93	685.34	507.38	177.95	3.851		
10,400.00	7,233.94	10,156.31	7,126.25	94.19	93.55	80.95	-1,223.52	-3,317.91	684.35	501.13	183.22	3.735		
10,500.00	7,233.35	10,256.31	7,125.71	96.84	96.23	80.94	-1,225.09	-3,417.89	683.37	494.87	188.51	3.625		
10,600.00	7,232.75	10,356.30	7,125.17	99.50	98.91	80.93	-1,226.66	-3,517.87	682.39	488.58	193.81	3.521		
10,700.00	7,232.16	10,456.30	7,124.62	102.17	101.60	80.92	-1,228.23	-3,617.85	681.41	482.27	199.14	3.422		
10,800.00	7,231.56	10,556.29	7,124.08	104.85	104.30	80.91	-1,229.80	-3,717.83	680.42	475.94	204.48	3.328		
10,900.00	7,230.96	10,656.29	7,123.54	107.53	107.01	80.91	-1,231.37	-3,817.81	679.44	469.60	209.84	3.238		
11,000.00	7,230.37	10,756.28	7,123.00	110.23	109.73	80.90	-1,232.94	-3,917.79	678.46	463.25	215.21	3.153		
11,100.00	7,229.77	10,856.28	7,122.46	112.93	112.45	80.89	-1,234.51	-4,017.78	677.48	456.88	220.60	3.071		
11,200.00	7,229.18	10,956.27	7,121.92	115.65	115.18	80.88	-1,236.08	-4,117.76	676.49	450.50	226.00	2.993		
11,300.00	7,228.58	11,056.27	7,121.37	118.37	117.91	80.87	-1,237.65	-4,217.74	675.51	444.11	231.41	2.919		
11,400.00	7,227.99	11,156.26	7,120.83	121.09	120.65	80.86	-1,239.22	-4,317.72	674.53	437.70	236.83	2.848		
11,500.00	7,227.39	11,256.26	7,120.29	123.82	123.40	80.85	-1,240.79	-4,417.70	673.55	431.29	242.26	2.780		
11,600.00	7,226.79	11,356.25	7,119.75	126.56	126.15	80.84	-1,242.36	-4,517.68	672.57	424.87	247.70	2.715		
11,700.00	7,226.20	11,456.25	7,119.21	129.30	128.91	80.84	-1,243.93	-4,617.66	671.58	418.44	253.15	2.653		
11,800.00	7,225.60	11,556.24	7,118.66	132.05	131.67	80.83	-1,245.50	-4,717.65	670.60	412.00	258.60	2.593		
11,900.00	7,225.01	11,656.24	7,118.12	134.80	134.43	80.82	-1,247.07	-4,817.63	669.62	405.55	264.07	2.536		
12,000.00	7,224.41	11,756.23	7,117.58	137.56	137.20	80.81	-1,248.64	-4,917.61	668.64	399.10	269.54	2.481		
12,100.00	7,223.81	11,856.23	7,117.04	140.32	139.97	80.80	-1,250.21	-5,017.59	667.65	392.63	275.02	2.428		
12,200.00	7,223.22	11,956.22	7,116.50	143.08	142.75	80.79	-1,251.78	-5,117.57	666.67	386.17	280.51	2.377		
12,300.00	7,222.62	12,056.22	7,115.95	145.85	145.52	80.78	-1,253.35	-5,217.55	665.69	379.69	286.00	2.328		
12,400.00	7,222.03	12,156.21	7,115.41	148.62	148.30	80.77	-1,254.92	-5,317.53	664.71	373.21	291.49	2.280		
12,500.00	7,221.43	12,256.21	7,114.87	151.40	151.09	80.76	-1,256.49	-5,417.51	663.73	366.73	296.99	2.235		
12,600.00	7,220.83	12,356.20	7,114.33	154.18	153.87	80.75	-1,258.06	-5,517.50	662.74	360.24	302.50	2.191		
12,700.00	7,220.24	12,456.20	7,113.79	156.96	156.66	80.75	-1,259.63	-5,617.48	661.76	353.75	308.01	2.148		
12,800.00	7,219.64	12,556.19	7,113.24	159.74	159.45	80.74	-1,261.20	-5,717.46	660.78	347.25	313.53	2.108		
12,900.00	7,219.05	12,656.19	7,112.70	162.53	162.25	80.73	-1,262.77	-5,817.44	659.80	340.75	319.05	2.068		
13,000.00	7,218.45	12,756.18	7,112.16	165.32	165.04	80.72	-1,264.34	-5,917.42	658.81	334.24	324.57	2.030		
13,100.00	7,217.86	12,856.18	7,111.62	168.11	167.84	80.71	-1,265.91	-6,017.40	657.83	327.73	330.10	1.993		
13,200.00	7,217.26	12,956.17	7,111.08	170.90	170.64	80.70	-1,267.48	-6,117.38	656.85	321.22	335.63	1.957		
13,300.00	7,216.66	13,056.17	7,110.53	173.70	173.44	80.69	-1,269.05	-6,217.37	655.87	314.70	341.16	1.922		
13,400.00	7,216.07	13,156.17	7,109.99	176.49	176.24	80.68	-1,270.62	-6,317.35	654.89	308.18	346.70	1.889		
13,500.00	7,215.47	13,256.16	7,109.45	179.29	179.05	80.67	-1,272.19	-6,417.33	653.90	301.66	352.24	1.856		
13,600.00	7,214.88	13,356.16	7,108.91	182.09	181.85	80.66	-1,273.76	-6,517.31	652.92	295.14	357.79	1.825		
13,700.00	7,214.28	13,456.15	7,108.37	184.90	184.66	80.65	-1,275.33	-6,617.29	651.94	288.61	363.33	1.794		
13,800.00	7,213.68	13,556.15	7,107.82	187.70	187.47	80.64	-1,276.90	-6,717.27	650.96	282.08	368.88	1.765		
13,900.00	7,213.09	13,656.14	7,107.28	190.51	190.28	80.63	-1,278.47	-6,817.25	649.98	275.54	374.43	1.736		
14,000.00	7,212.49	13,756.14	7,106.74	193.32	193.09	80.62	-1,280.04	-6,917.23	648.99	269.01	379.98	1.708		
14,100.00	7,211.90	13,856.13	7,106.20	196.13	195.90	80.62	-1,281.61	-7,017.22	648.01	262.47	385.54	1.681		
14,200.00	7,211.30	13,956.13	7,105.66	198.94	198.72	80.61	-1,283.18	-7,117.20	647.03	255.93	391.10	1.654		
14,300.00	7,210.71	14,056.12	7,105.11	201.75	201.53	80.60	-1,284.75	-7,217.18	646.05	249.39	396.66	1.629		
14,400.00	7,210.11	14,156.12	7,104.57	204.56	204.35	80.59	-1,286.32	-7,317.16	645.07	242.85	402.22	1.604		
14,500.00	7,209.51	14,256.11	7,104.03	207.38	207.17	80.58	-1,287.89	-7,417.14	644.09	236.30	407.78	1.579		
14,600.00	7,208.92	14,356.11	7,103.49	210.19	209.99	80.57	-1,289.46	-7,517.12	643.10	229.76	413.35	1.556		
14,700.00	7,208.32	14,456.10	7,102.95	213.01	212.81	80.56	-1,291.03	-7,617.10	642.12	223.21	418.91	1.533		
14,800.00	7,207.73	14,556.10	7,102.41	215.83	215.63	80.55	-1,292.60	-7,717.09	641.14	216.66	424.48	1.510		
14,900.00	7,207.13	14,656.09	7,101.86	218.65	218.45	80.54	-1,294.17	-7,817.07	640.16	210.11	430.05	1.489 Level 3		
15,000.00	7,206.53	14,756.09	7,101.32	221.47	221.27	80.53	-1,295.74	-7,917.05	639.18	203.56	435.62	1.467 Level 3		
15,100.00	7,205.94	14,856.08	7,100.78	224.29	224.09	80.52	-1,297.31	-8,017.03	638.19	197.00	441.19	1.447 Level 3		
15,200.00	7,205.34	14,956.08	7,100.24	227.11	226.92	80.51	-1,298.88	-8,117.01	637.21	190.45	446.77	1.426 Level 3		
15,253.39	7,205.02	15,009.47	7,099.95	228.62	228.43	80.50	-1,299.71	-8,170.40	636.69	186.95	449.74	1.416 Level 3, SF		
15,258.04	7,205.00	15,000.73	7,100.00	228.75	228.18	80.50	-1,299.58	-8,161.65	636.78	187.46	449.32	1.417 Level 3		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	-179.47	-60.11	-0.56	60.11					
100.00	100.00	101.00	100.00	3.28	3.28	-179.47	-60.11	-0.56	60.11	53.54	6.57	9.150		
200.00	200.00	199.00	200.00	3.34	3.34	-179.47	-60.11	-0.56	60.11	53.44	6.67	9.008		
300.00	299.98	296.97	297.95	3.44	3.44	-4.26	-61.75	-0.66	60.05	53.16	6.89	8.720		
400.00	399.84	394.92	395.77	3.59	3.58	-4.36	-66.73	-0.98	59.91	52.71	7.20	8.315		
500.00	499.45	492.88	493.37	3.79	3.78	-4.53	-75.04	-1.51	59.71	52.08	7.63	7.831		
600.00	598.70	590.84	590.63	4.03	4.01	-4.77	-86.68	-2.24	59.44	51.31	8.13	7.311		
700.00	697.47	688.82	687.45	4.31	4.28	-5.08	-101.63	-3.20	59.11	50.41	8.71	6.789		
800.00	795.62	786.81	783.71	4.64	4.59	-5.47	-119.88	-4.36	58.72	49.38	9.34	6.285		
900.00	893.06	884.81	879.31	5.00	4.94	-5.93	-141.41	-5.72	58.26	48.24	10.02	5.813		
1,000.00	989.65	982.83	974.13	5.40	5.33	-6.46	-166.19	-7.30	57.76	47.01	10.75	5.373		
1,007.47	996.83	990.16	981.18	5.43	5.36	-6.50	-168.17	-7.42	57.75	46.95	10.81	5.344 CC, ES		
1,100.00	1,085.85	1,080.83	1,068.02	5.82	5.74	-6.84	-194.19	-9.08	59.21	47.70	11.51	5.144		
1,200.00	1,182.06	1,178.63	1,160.71	6.27	6.19	-6.88	-225.31	-11.06	64.06	51.77	12.29	5.212		
1,300.00	1,278.26	1,277.11	1,253.04	6.73	6.67	-6.67	-259.48	-13.23	71.94	58.85	13.09	5.494		
1,400.00	1,374.47	1,376.76	1,346.30	7.20	7.18	-6.46	-294.51	-15.45	80.31	66.38	13.92	5.768		
1,500.00	1,470.67	1,476.41	1,439.56	7.69	7.71	-6.30	-329.54	-17.68	88.68	73.90	14.78	6.000		
1,600.00	1,566.88	1,576.05	1,532.82	8.18	8.25	-6.16	-364.58	-19.91	97.05	81.39	15.66	6.198		
1,700.00	1,663.08	1,675.70	1,626.09	8.68	8.79	-6.04	-399.61	-22.13	105.42	88.87	16.55	6.369		
1,800.00	1,759.29	1,775.35	1,719.35	9.19	9.35	-5.94	-434.64	-24.36	113.79	96.33	17.46	6.517		
1,900.00	1,855.49	1,875.00	1,812.61	9.70	9.91	-5.86	-469.67	-26.59	122.17	103.78	18.38	6.645		
2,000.00	1,951.70	1,974.65	1,905.87	10.22	10.48	-5.79	-504.71	-28.81	130.54	111.22	19.32	6.757		
2,100.00	2,047.90	2,074.30	1,999.13	10.73	11.05	-5.72	-539.74	-31.04	138.91	118.65	20.26	6.856		
2,200.00	2,144.11	2,173.95	2,092.39	11.26	11.63	-5.66	-574.77	-33.27	147.28	126.07	21.21	6.943		
2,300.00	2,240.31	2,273.60	2,185.65	11.78	12.21	-5.61	-609.80	-35.49	155.66	133.49	22.17	7.021		
2,400.00	2,336.52	2,373.24	2,278.91	12.31	12.80	-5.57	-644.83	-37.72	164.03	140.89	23.14	7.090		
2,500.00	2,432.72	2,472.89	2,372.18	12.84	13.38	-5.52	-679.87	-39.95	172.40	148.30	24.11	7.152		
2,600.00	2,528.93	2,572.54	2,465.44	13.37	13.97	-5.49	-714.90	-42.17	180.78	155.70	25.08	7.208		
2,700.00	2,625.13	2,672.19	2,558.70	13.91	14.56	-5.45	-749.93	-44.40	189.15	163.09	26.06	7.258		
2,800.00	2,721.34	2,771.84	2,651.96	14.44	15.16	-5.42	-784.96	-46.63	197.52	170.48	27.04	7.304		
2,900.00	2,817.54	2,871.49	2,745.22	14.98	15.75	-5.39	-820.00	-48.85	205.90	177.87	28.03	7.346		
3,000.00	2,913.75	2,971.14	2,838.48	15.52	16.35	-5.36	-855.03	-51.08	214.27	185.25	29.02	7.384		
3,100.00	3,009.95	3,070.79	2,931.74	16.06	16.94	-5.34	-890.06	-53.31	222.64	192.63	30.01	7.419		
3,200.00	3,106.16	3,170.43	3,025.00	16.60	17.54	-5.32	-925.09	-55.53	231.02	200.01	31.01	7.451		
3,300.00	3,202.37	3,270.08	3,118.26	17.14	18.14	-5.29	-960.13	-57.76	239.39	207.39	32.00	7.480		
3,400.00	3,298.57	3,369.73	3,211.53	17.68	18.74	-5.27	-995.16	-59.99	247.77	214.76	33.00	7.507		
3,500.00	3,394.78	3,469.38	3,304.79	18.22	19.34	-5.26	-1,030.19	-62.21	256.14	222.14	34.00	7.533		
3,600.00	3,490.98	3,569.03	3,398.05	18.76	19.95	-5.24	-1,065.22	-64.44	264.51	229.51	35.01	7.556		
3,700.00	3,587.19	3,668.68	3,491.31	19.31	20.55	-5.22	-1,100.26	-66.67	272.89	236.88	36.01	7.578		
3,800.00	3,683.39	3,768.33	3,584.57	19.85	21.15	-5.21	-1,135.29	-68.89	281.26	244.24	37.02	7.598		
3,900.00	3,779.60	3,867.98	3,677.83	20.39	21.76	-5.19	-1,170.32	-71.12	289.64	251.61	38.02	7.617		
4,000.00	3,875.80	3,967.62	3,771.09	20.94	22.36	-5.18	-1,205.35	-73.35	298.01	258.98	39.03	7.635		
4,100.00	3,972.01	4,067.27	3,864.35	21.48	22.97	-5.17	-1,240.39	-75.57	306.38	266.34	40.04	7.652		
4,200.00	4,068.21	4,166.92	3,957.62	22.03	23.57	-5.15	-1,275.42	-77.80	314.76	273.70	41.05	7.667		
4,300.00	4,164.42	4,266.57	4,050.88	22.57	24.18	-5.14	-1,310.45	-80.03	323.13	281.07	42.06	7.682		
4,400.00	4,260.62	4,366.22	4,144.14	23.12	24.78	-5.13	-1,345.48	-82.25	331.50	288.43	43.08	7.696		
4,500.00	4,356.83	4,465.87	4,237.40	23.67	25.39	-5.12	-1,380.51	-84.48	339.88	295.79	44.09	7.709		
4,600.00	4,453.03	4,565.52	4,330.66	24.21	26.00	-5.11	-1,415.55	-86.70	348.25	303.15	45.10	7.721		
4,700.00	4,549.24	4,665.17	4,423.92	24.76	26.61	-5.10	-1,450.58	-88.93	356.63	310.51	46.12	7.733		
4,800.00	4,645.44	4,764.81	4,517.18	25.31	27.21	-5.09	-1,485.61	-91.16	365.00	317.87	47.13	7.744		
4,900.00	4,741.65	4,864.46	4,610.44	25.86	27.82	-5.08	-1,520.64	-93.38	373.37	325.22	48.15	7.754		
5,000.00	4,837.85	4,964.11	4,703.70	26.40	28.43	-5.07	-1,555.68	-95.61	381.75	332.58	49.17	7.764		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,063.76	4,796.97	26.95	29.04	-5.07	-1,590.71	-97.84	390.12	339.94	50.19	7.774		
5,200.00	5,030.26	5,163.41	4,890.23	27.50	29.65	-5.06	-1,625.74	-100.06	398.50	347.29	51.20	7.783		
5,300.00	5,126.47	5,263.06	4,983.49	28.05	30.26	-5.05	-1,660.77	-102.29	406.87	354.65	52.22	7.791		
5,400.00	5,222.67	5,362.71	5,076.75	28.60	30.87	-5.04	-1,695.81	-104.52	415.24	362.00	53.24	7.799		
5,500.00	5,318.88	5,462.36	5,170.01	29.15	31.47	-5.04	-1,730.84	-106.74	423.62	369.36	54.26	7.807		
5,600.00	5,415.08	5,562.00	5,263.27	29.70	32.08	-5.03	-1,765.87	-108.97	431.99	376.71	55.28	7.815		
5,700.00	5,511.29	5,661.65	5,356.53	30.25	32.69	-5.03	-1,800.90	-111.20	440.37	384.07	56.30	7.822		
5,800.00	5,607.49	5,761.30	5,449.79	30.79	33.30	-5.02	-1,835.94	-113.42	448.74	391.42	57.32	7.829		
5,900.00	5,703.70	5,860.95	5,543.06	31.34	33.91	-5.01	-1,870.97	-115.65	457.11	398.77	58.34	7.835		
6,000.00	5,799.90	5,960.60	5,636.32	31.89	34.52	-5.01	-1,906.00	-117.88	465.49	406.13	59.36	7.841		
6,100.00	5,896.11	6,060.25	5,729.58	32.44	35.13	-5.00	-1,941.03	-120.10	473.86	413.48	60.39	7.847		
6,200.00	5,992.32	6,159.90	5,822.84	32.99	35.74	-5.00	-1,976.07	-122.33	482.24	420.83	61.41	7.853		
6,300.00	6,088.52	6,259.55	5,916.10	33.54	36.36	-4.99	-2,011.10	-124.56	490.61	428.18	62.43	7.859		
6,400.00	6,184.73	6,359.19	6,009.36	34.09	36.97	-4.99	-2,046.13	-126.78	498.98	435.53	63.45	7.864		
6,500.00	6,280.93	6,458.84	6,102.62	34.64	37.58	-4.98	-2,081.16	-129.01	507.36	442.88	64.47	7.869		
6,600.00	6,377.14	6,558.49	6,195.88	35.19	38.19	-4.98	-2,116.19	-131.24	515.73	450.24	65.50	7.874		
6,700.00	6,473.34	6,658.14	6,289.14	35.74	38.80	-4.97	-2,151.23	-133.46	524.11	457.59	66.52	7.879		
6,800.00	6,569.55	6,757.79	6,382.41	36.29	39.41	-4.97	-2,186.26	-135.69	532.48	464.94	67.54	7.883		
6,900.00	6,665.75	6,857.44	6,475.67	36.84	40.02	-9.52	-2,221.29	-137.92	540.86	472.29	68.57	7.888		
7,000.00	6,761.11	6,956.47	6,568.35	37.39	40.63	-35.96	-2,256.11	-140.13	549.27	479.65	69.62	7.889		
7,100.00	6,853.41	7,052.71	6,658.42	37.89	41.22	-53.31	-2,289.94	-142.28	558.40	487.67	70.73	7.895		
7,200.00	6,940.36	7,154.64	6,753.32	38.34	41.84	-64.72	-2,325.64	-151.62	569.18	497.17	72.02	7.903		
7,300.00	7,019.83	7,263.68	6,851.86	38.74	42.45	-72.52	-2,362.86	-179.31	581.09	507.73	73.36	7.921		
7,400.00	7,089.85	7,380.44	6,950.75	39.10	43.03	-78.23	-2,400.36	-228.39	593.48	518.92	74.56	7.960		
7,500.00	7,148.71	7,505.75	7,045.57	39.42	43.56	-82.55	-2,436.53	-301.55	605.52	530.09	75.43	8.027		
7,600.00	7,194.95	7,639.92	7,130.08	39.71	44.02	-85.80	-2,469.03	-400.23	616.24	540.28	75.97	8.112		
7,700.00	7,227.43	7,782.36	7,196.48	40.01	44.43	-88.09	-2,494.91	-523.21	624.61	548.18	76.43	8.173		
7,800.00	7,245.37	7,931.19	7,236.72	40.37	44.80	-89.40	-2,511.12	-665.22	629.70	552.38	77.32	8.144		
7,900.00	7,248.84	8,070.82	7,245.88	40.87	45.19	-89.73	-2,515.64	-804.24	630.98	551.87	79.11	7.976		
8,000.00	7,248.24	8,170.82	7,245.38	41.62	45.59	-89.74	-2,516.23	-904.24	630.99	549.47	81.52	7.740		
8,100.00	7,247.65	8,270.82	7,244.88	42.66	46.17	-89.75	-2,516.82	-1,004.23	630.99	546.75	84.24	7.491		
8,200.00	7,247.05	8,370.82	7,244.38	43.96	47.00	-89.76	-2,517.41	-1,104.23	631.00	543.75	87.25	7.232		
8,300.00	7,246.46	8,470.82	7,243.88	45.46	48.10	-89.77	-2,517.99	-1,204.23	631.00	540.48	90.52	6.971		
8,400.00	7,245.86	8,570.82	7,243.38	47.13	49.45	-89.77	-2,518.58	-1,304.23	631.00	536.98	94.02	6.711		
8,500.00	7,245.27	8,670.82	7,242.88	48.93	51.00	-89.78	-2,519.17	-1,404.22	631.01	533.28	97.73	6.456		
8,600.00	7,244.67	8,770.82	7,242.37	50.84	52.72	-89.79	-2,519.76	-1,504.22	631.01	529.38	101.63	6.209		
8,700.00	7,244.07	8,870.82	7,241.87	52.85	54.57	-89.80	-2,520.35	-1,604.22	631.02	525.32	105.69	5.970		
8,800.00	7,243.48	8,970.82	7,241.37	54.94	56.53	-89.81	-2,520.94	-1,704.21	631.02	521.11	109.91	5.741		
8,900.00	7,242.88	9,070.82	7,240.87	57.10	58.58	-89.82	-2,521.52	-1,804.21	631.02	516.78	114.25	5.523		
9,000.00	7,242.29	9,170.82	7,240.37	59.32	60.71	-89.83	-2,522.11	-1,904.21	631.03	512.32	118.71	5.316		
9,100.00	7,241.69	9,270.82	7,239.87	61.60	62.90	-89.83	-2,522.70	-2,004.20	631.03	507.76	123.27	5.119		
9,200.00	7,241.09	9,370.82	7,239.37	63.92	65.15	-89.84	-2,523.29	-2,104.20	631.04	503.11	127.92	4.933		
9,300.00	7,240.50	9,470.82	7,238.87	66.29	67.45	-89.85	-2,523.88	-2,204.20	631.04	498.38	132.66	4.757		
9,400.00	7,239.90	9,570.82	7,238.37	68.70	69.80	-89.86	-2,524.46	-2,304.19	631.04	493.57	137.47	4.590		
9,500.00	7,239.31	9,670.82	7,237.87	71.14	72.18	-89.87	-2,525.05	-2,404.19	631.05	488.70	142.35	4.433		
9,600.00	7,238.71	9,770.82	7,237.37	73.61	74.60	-89.88	-2,525.64	-2,504.19	631.05	483.76	147.29	4.284		
9,700.00	7,238.11	9,870.82	7,236.87	76.11	77.05	-89.89	-2,526.23	-2,604.19	631.06	478.77	152.28	4.144		
9,800.00	7,237.52	9,970.82	7,236.37	78.64	79.53	-89.90	-2,526.82	-2,704.18	631.06	473.73	157.33	4.011		
9,900.00	7,236.92	10,070.82	7,235.87	81.19	82.04	-89.90	-2,527.41	-2,804.18	631.07	468.65	162.41	3.886		
10,000.00	7,236.33	10,170.82	7,235.36	83.75	84.57	-89.91	-2,527.99	-2,904.18	631.07	463.53	167.54	3.767		
10,100.00	7,235.73	10,270.82	7,234.86	86.34	87.12	-89.92	-2,528.58	-3,004.17	631.07	458.37	172.71	3.654		
10,200.00	7,235.14	10,370.82	7,234.36	88.94	89.69	-89.93	-2,529.17	-3,104.17	631.08	453.17	177.90	3.547		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	10,470.82	7,233.86	91.56	92.27	-89.94	-2,529.76	-3,204.17	631.08	447.95	183.13	3.446		
10,400.00	7,233.94	10,570.82	7,233.36	94.19	94.88	-89.95	-2,530.35	-3,304.16	631.09	442.70	188.39	3.350		
10,500.00	7,233.35	10,670.82	7,232.86	96.84	97.49	-89.96	-2,530.93	-3,404.16	631.09	437.42	193.68	3.259		
10,600.00	7,232.75	10,770.82	7,232.36	99.50	100.12	-89.96	-2,531.52	-3,504.16	631.10	432.11	198.98	3.172		
10,700.00	7,232.16	10,870.82	7,231.86	102.17	102.77	-89.97	-2,532.11	-3,604.16	631.10	426.79	204.31	3.089		
10,800.00	7,231.56	10,970.82	7,231.36	104.85	105.42	-89.98	-2,532.70	-3,704.15	631.10	421.44	209.66	3.010		
10,900.00	7,230.96	11,070.82	7,230.86	107.53	108.09	-89.99	-2,533.29	-3,804.15	631.11	416.08	215.03	2.935		
11,000.00	7,230.37	11,170.82	7,230.36	110.23	110.76	-90.00	-2,533.88	-3,904.15	631.11	410.70	220.42	2.863		
11,100.00	7,229.77	11,270.82	7,229.86	112.93	113.45	-90.01	-2,534.46	-4,004.14	631.12	405.30	225.82	2.795		
11,200.00	7,229.18	11,370.82	7,229.36	115.65	116.14	-90.02	-2,535.05	-4,104.14	631.12	399.89	231.24	2.729		
11,300.00	7,228.58	11,470.82	7,228.86	118.37	118.84	-90.02	-2,535.64	-4,204.14	631.13	394.46	236.67	2.667		
11,400.00	7,227.99	11,570.82	7,228.36	121.09	121.55	-90.03	-2,536.23	-4,304.13	631.13	389.02	242.11	2.607		
11,500.00	7,227.39	11,670.82	7,227.85	123.82	124.26	-90.04	-2,536.82	-4,404.13	631.14	383.57	247.57	2.549		
11,600.00	7,226.79	11,770.82	7,227.35	126.56	126.98	-90.05	-2,537.40	-4,504.13	631.14	378.10	253.04	2.494		
11,700.00	7,226.20	11,870.82	7,226.85	129.30	129.71	-90.06	-2,537.99	-4,604.13	631.14	372.63	258.52	2.441		
11,800.00	7,225.60	11,970.82	7,226.35	132.05	132.44	-90.07	-2,538.58	-4,704.12	631.15	367.14	264.01	2.391		
11,900.00	7,225.01	12,070.82	7,225.85	134.80	135.18	-90.08	-2,539.17	-4,804.12	631.15	361.65	269.50	2.342		
12,000.00	7,224.41	12,170.82	7,225.35	137.56	137.92	-90.09	-2,539.76	-4,904.12	631.16	356.15	275.01	2.295		
12,100.00	7,223.81	12,270.82	7,224.85	140.32	140.67	-90.09	-2,540.35	-5,004.11	631.16	350.64	280.53	2.250		
12,200.00	7,223.22	12,370.82	7,224.35	143.08	143.42	-90.10	-2,540.93	-5,104.11	631.17	345.12	286.05	2.206		
12,300.00	7,222.62	12,470.82	7,223.85	145.85	146.18	-90.11	-2,541.52	-5,204.11	631.17	339.59	291.58	2.165		
12,400.00	7,222.03	12,570.82	7,223.35	148.62	148.94	-90.12	-2,542.11	-5,304.10	631.18	334.06	297.12	2.124		
12,500.00	7,221.43	12,670.82	7,222.85	151.40	151.70	-90.13	-2,542.70	-5,404.10	631.18	328.52	302.66	2.085		
12,600.00	7,220.83	12,770.82	7,222.35	154.18	154.47	-90.14	-2,543.29	-5,504.10	631.19	322.97	308.21	2.048		
12,700.00	7,220.24	12,870.82	7,221.85	156.96	157.24	-90.15	-2,543.87	-5,604.09	631.19	317.42	313.77	2.012		
12,800.00	7,219.64	12,970.82	7,221.35	159.74	160.01	-90.15	-2,544.46	-5,704.09	631.19	311.86	319.33	1.977		
12,900.00	7,219.05	13,070.82	7,220.85	162.53	162.79	-90.16	-2,545.05	-5,804.09	631.20	306.30	324.90	1.943		
13,000.00	7,218.45	13,170.82	7,220.34	165.32	165.57	-90.17	-2,545.64	-5,904.09	631.20	300.73	330.47	1.910		
13,100.00	7,217.86	13,270.82	7,219.84	168.11	168.35	-90.18	-2,546.23	-6,004.08	631.21	295.16	336.05	1.878		
13,200.00	7,217.26	13,370.82	7,219.34	170.90	171.14	-90.19	-2,546.82	-6,104.08	631.21	289.58	341.63	1.848		
13,300.00	7,216.66	13,470.82	7,218.84	173.70	173.92	-90.20	-2,547.40	-6,204.08	631.22	284.00	347.22	1.818		
13,400.00	7,216.07	13,570.82	7,218.34	176.49	176.71	-90.21	-2,547.99	-6,304.07	631.22	278.41	352.81	1.789		
13,500.00	7,215.47	13,670.82	7,217.84	179.29	179.50	-90.22	-2,548.58	-6,404.07	631.23	272.82	358.40	1.761		
13,600.00	7,214.88	13,770.82	7,217.34	182.09	182.30	-90.22	-2,549.17	-6,504.07	631.23	267.23	364.00	1.734		
13,700.00	7,214.28	13,870.82	7,216.84	184.90	185.09	-90.23	-2,549.76	-6,604.06	631.24	261.63	369.60	1.708		
13,800.00	7,213.68	13,970.82	7,216.34	187.70	187.89	-90.24	-2,550.34	-6,704.06	631.24	256.03	375.21	1.682		
13,900.00	7,213.09	14,070.82	7,215.84	190.51	190.69	-90.25	-2,550.93	-6,804.06	631.25	250.43	380.82	1.658		
14,000.00	7,212.49	14,170.82	7,215.34	193.32	193.49	-90.26	-2,551.52	-6,904.06	631.25	244.82	386.43	1.634		
14,100.00	7,211.90	14,270.82	7,214.84	196.13	196.30	-90.27	-2,552.11	-7,004.05	631.26	239.21	392.04	1.610		
14,200.00	7,211.30	14,370.82	7,214.34	198.94	199.10	-90.28	-2,552.70	-7,104.05	631.26	233.60	397.66	1.587		
14,300.00	7,210.71	14,470.82	7,213.84	201.75	201.91	-90.28	-2,553.29	-7,204.05	631.27	227.99	403.28	1.565		
14,400.00	7,210.11	14,570.82	7,213.34	204.56	204.71	-90.29	-2,553.87	-7,304.04	631.27	222.37	408.90	1.544		
14,500.00	7,209.51	14,670.82	7,212.83	207.38	207.52	-90.30	-2,554.46	-7,404.04	631.28	216.75	414.53	1.523		
14,600.00	7,208.92	14,770.82	7,212.33	210.19	210.33	-90.31	-2,555.05	-7,504.04	631.28	211.12	420.16	1.502		
14,700.00	7,208.32	14,870.82	7,211.83	213.01	213.14	-90.32	-2,555.64	-7,604.03	631.29	205.50	425.79	1.483 Level 3		
14,800.00	7,207.73	14,970.82	7,211.33	215.83	215.96	-90.33	-2,556.23	-7,704.03	631.29	199.87	431.42	1.463 Level 3		
14,900.00	7,207.13	15,070.82	7,210.83	218.65	218.77	-90.34	-2,556.81	-7,804.03	631.30	194.24	437.05	1.444 Level 3		
15,000.00	7,206.53	15,170.82	7,210.33	221.47	221.59	-90.34	-2,557.40	-7,904.03	631.30	188.61	442.69	1.426 Level 3		
15,100.00	7,205.94	15,270.82	7,209.83	224.29	224.40	-90.35	-2,557.99	-8,004.02	631.31	182.98	448.33	1.408 Level 3		
15,200.00	7,205.34	15,370.82	7,209.33	227.11	227.22	-90.36	-2,558.58	-8,104.02	631.31	177.34	453.97	1.391 Level 3		
15,258.04	7,205.00	15,428.86	7,209.04	228.75	228.85	-90.37	-2,558.92	-8,162.06	631.31	174.07	457.24	1.381 Level 3, 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	-179.60	-80.13	-0.56	80.14					
100.00	100.00	101.00	100.00	3.28	3.28	-179.60	-80.13	-0.56	80.14	73.57	6.57	12.198		
200.00	200.00	199.00	200.00	3.34	3.34	-179.60	-80.13	-0.56	80.14	73.46	6.67	12.009		
300.00	299.98	296.31	297.29	3.44	3.44	-4.39	-81.75	-0.65	80.06	73.17	6.88	11.629		
400.00	399.84	393.60	394.45	3.59	3.58	-4.48	-86.66	-0.95	79.89	72.69	7.20	11.092		
500.00	499.45	490.89	491.39	3.79	3.77	-4.63	-94.86	-1.43	79.63	72.01	7.62	10.450		
600.00	598.70	588.20	588.01	4.03	4.00	-4.85	-106.35	-2.12	79.29	71.17	8.12	9.761		
700.00	697.47	685.51	684.19	4.31	4.27	-5.13	-121.11	-3.00	78.86	70.16	8.70	9.068		
800.00	795.62	782.85	779.84	4.64	4.58	-5.47	-139.12	-4.07	78.35	69.02	9.33	8.398		
900.00	893.06	880.20	874.83	5.00	4.93	-5.89	-160.37	-5.34	77.75	67.74	10.01	7.770		
1,000.00	989.65	977.57	969.06	5.40	5.31	-6.37	-184.83	-6.79	77.08	66.35	10.73	7.183		
1,012.65	1,001.82	989.89	980.92	5.45	5.35	-6.43	-188.15	-6.99	77.06	66.23	10.82	7.119 CC, ES		
1,100.00	1,085.85	1,074.94	1,062.40	5.82	5.72	-6.74	-212.47	-8.44	78.35	66.86	11.49	6.821		
1,200.00	1,182.06	1,172.11	1,154.56	6.27	6.16	-6.88	-243.20	-10.27	83.00	70.73	12.27	6.767		
1,300.00	1,278.26	1,268.87	1,245.24	6.73	6.64	-6.79	-276.88	-12.28	91.00	77.94	13.06	6.968		
1,400.00	1,374.47	1,365.89	1,335.02	7.20	7.14	-6.55	-313.60	-14.47	102.24	88.37	13.87	7.371		
1,500.00	1,470.67	1,465.15	1,426.52	7.69	7.68	-6.31	-351.99	-16.75	114.38	99.66	14.72	7.769		
1,600.00	1,566.88	1,564.41	1,518.02	8.18	8.23	-6.11	-390.39	-19.04	126.52	110.92	15.60	8.111		
1,700.00	1,663.08	1,663.66	1,609.52	8.68	8.80	-5.95	-428.79	-21.33	138.67	122.17	16.50	8.407		
1,800.00	1,759.29	1,762.92	1,701.03	9.19	9.38	-5.82	-467.18	-23.62	150.81	133.41	17.41	8.664		
1,900.00	1,855.49	1,862.18	1,792.53	9.70	9.96	-5.71	-505.58	-25.91	162.96	144.63	18.33	8.888		
2,000.00	1,951.70	1,961.44	1,884.03	10.22	10.55	-5.61	-543.98	-28.19	175.11	155.83	19.27	9.086		
2,100.00	2,047.90	2,060.70	1,975.54	10.73	11.15	-5.52	-582.37	-30.48	187.25	167.03	20.22	9.260		
2,200.00	2,144.11	2,159.96	2,067.04	11.26	11.75	-5.45	-620.77	-32.77	199.40	178.22	21.18	9.415		
2,300.00	2,240.31	2,259.22	2,158.54	11.78	12.36	-5.38	-659.17	-35.06	211.55	189.40	22.15	9.553		
2,400.00	2,336.52	2,358.48	2,250.05	12.31	12.97	-5.32	-697.56	-37.34	223.70	200.58	23.12	9.676		
2,500.00	2,432.72	2,457.74	2,341.55	12.84	13.58	-5.27	-735.96	-39.63	235.85	211.75	24.10	9.788		
2,600.00	2,528.93	2,557.00	2,433.05	13.37	14.19	-5.22	-774.36	-41.92	248.00	222.91	25.08	9.888		
2,700.00	2,625.13	2,656.26	2,524.56	13.91	14.81	-5.18	-812.75	-44.21	260.14	234.07	26.07	9.979		
2,800.00	2,721.34	2,755.51	2,616.06	14.44	15.43	-5.14	-851.15	-46.50	272.29	245.23	27.06	10.062		
2,900.00	2,817.54	2,854.77	2,707.56	14.98	16.05	-5.10	-889.55	-48.78	284.44	256.38	28.06	10.137		
3,000.00	2,913.75	2,954.03	2,799.07	15.52	16.67	-5.07	-927.94	-51.07	296.59	267.53	29.06	10.206		
3,100.00	3,009.95	3,053.29	2,890.57	16.06	17.30	-5.04	-966.34	-53.36	308.74	278.68	30.06	10.270		
3,200.00	3,106.16	3,152.55	2,982.07	16.60	17.92	-5.01	-1,004.74	-55.65	320.89	289.82	31.07	10.329		
3,300.00	3,202.37	3,251.81	3,073.58	17.14	18.55	-4.98	-1,043.13	-57.93	333.04	300.96	32.08	10.383		
3,400.00	3,298.57	3,351.07	3,165.08	17.68	19.18	-4.96	-1,081.53	-60.22	345.19	312.10	33.09	10.433		
3,500.00	3,394.78	3,450.33	3,256.58	18.22	19.81	-4.94	-1,119.93	-62.51	357.34	323.24	34.10	10.479		
3,600.00	3,490.98	3,549.59	3,348.09	18.76	20.44	-4.92	-1,158.32	-64.80	369.49	334.37	35.11	10.522		
3,700.00	3,587.19	3,648.85	3,439.59	19.31	21.07	-4.90	-1,196.72	-67.09	381.64	345.51	36.13	10.563		
3,800.00	3,683.39	3,748.11	3,531.09	19.85	21.70	-4.88	-1,235.11	-69.37	393.79	356.64	37.15	10.600		
3,900.00	3,779.60	3,847.36	3,622.60	20.39	22.33	-4.86	-1,273.51	-71.66	405.94	367.77	38.17	10.636		
4,000.00	3,875.80	3,946.62	3,714.10	20.94	22.96	-4.84	-1,311.91	-73.95	418.09	378.90	39.19	10.669		
4,100.00	3,972.01	4,045.88	3,805.60	21.48	23.60	-4.83	-1,350.30	-76.24	430.24	390.03	40.21	10.700		
4,200.00	4,068.21	4,145.14	3,897.11	22.03	24.23	-4.81	-1,388.70	-78.52	442.39	401.15	41.23	10.729		
4,300.00	4,164.42	4,244.40	3,988.61	22.57	24.86	-4.80	-1,427.10	-80.81	454.54	412.28	42.26	10.757		
4,400.00	4,260.62	4,343.66	4,080.11	23.12	25.50	-4.78	-1,465.49	-83.10	466.69	423.40	43.28	10.782		
4,500.00	4,356.83	4,442.92	4,171.62	23.67	26.13	-4.77	-1,503.89	-85.39	478.84	434.53	44.31	10.807		
4,600.00	4,453.03	4,542.18	4,263.12	24.21	26.77	-4.76	-1,542.29	-87.68	490.99	445.65	45.33	10.830		
4,700.00	4,549.24	4,641.44	4,354.62	24.76	27.40	-4.75	-1,580.68	-89.96	503.14	456.77	46.36	10.852		
4,800.00	4,645.44	4,740.70	4,446.13	25.31	28.04	-4.74	-1,619.08	-92.25	515.29	467.90	47.39	10.873		
4,900.00	4,741.65	4,839.96	4,537.63	25.86	28.67	-4.73	-1,657.48	-94.54	527.44	479.02	48.42	10.893		
5,000.00	4,837.85	4,939.22	4,629.13	26.40	29.31	-4.72	-1,695.87	-96.83	539.59	490.14	49.45	10.912		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,038.47	4,720.63	26.95	29.95	-4.71	-1,734.27	-99.11	551.74	501.26	50.48	10.930		
5,200.00	5,030.26	5,137.73	4,812.14	27.50	30.58	-4.70	-1,772.67	-101.40	563.89	512.38	51.51	10.947		
5,300.00	5,126.47	5,236.99	4,903.64	28.05	31.22	-4.69	-1,811.06	-103.69	576.04	523.49	52.54	10.963		
5,400.00	5,222.67	5,336.25	4,995.14	28.60	31.86	-4.68	-1,849.46	-105.98	588.19	534.61	53.57	10.979		
5,500.00	5,318.88	5,435.51	5,086.65	29.15	32.50	-4.67	-1,887.86	-108.26	600.34	545.73	54.61	10.994		
5,600.00	5,415.08	5,534.77	5,178.15	29.70	33.13	-4.67	-1,926.25	-110.55	612.49	556.85	55.64	11.008		
5,700.00	5,511.29	5,634.03	5,269.65	30.25	33.77	-4.66	-1,964.65	-112.84	624.64	567.96	56.67	11.022		
5,800.00	5,607.49	5,733.29	5,361.16	30.79	34.41	-4.65	-2,003.04	-115.13	636.79	579.08	57.71	11.035		
5,900.00	5,703.70	5,832.55	5,452.66	31.34	35.05	-4.65	-2,041.44	-117.42	648.94	590.20	58.74	11.048		
6,000.00	5,799.90	5,931.81	5,544.16	31.89	35.69	-4.64	-2,079.84	-119.70	661.09	601.31	59.78	11.060		
6,100.00	5,896.11	6,031.07	5,635.67	32.44	36.32	-4.63	-2,118.23	-121.99	673.24	612.43	60.81	11.071		
6,200.00	5,992.32	6,130.32	5,727.17	32.99	36.96	-4.63	-2,156.63	-124.28	685.39	623.54	61.85	11.082		
6,300.00	6,088.52	6,229.58	5,818.67	33.54	37.60	-4.62	-2,195.03	-126.57	697.54	634.66	62.88	11.093		
6,400.00	6,184.73	6,328.84	5,910.18	34.09	38.24	-4.62	-2,233.42	-128.85	709.69	645.77	63.92	11.103		
6,500.00	6,280.93	6,428.10	6,001.68	34.64	38.88	-4.61	-2,271.82	-131.14	721.84	656.89	64.95	11.113		
6,600.00	6,377.14	6,527.36	6,093.18	35.19	39.52	-4.60	-2,310.22	-133.43	733.99	668.00	65.99	11.123		
6,700.00	6,473.34	6,626.62	6,184.69	35.74	40.16	-4.60	-2,348.61	-135.72	746.14	679.11	67.03	11.132		
6,800.00	6,569.55	6,725.88	6,276.19	36.29	40.80	-4.59	-2,387.01	-138.01	758.29	690.23	68.06	11.141		
6,900.00	6,665.75	6,825.14	6,367.69	36.84	41.44	-9.09	-2,425.41	-140.29	770.44	701.34	69.10	11.150		
7,000.00	6,761.11	6,923.80	6,458.64	37.39	42.07	-34.88	-2,463.57	-142.57	782.51	712.35	70.16	11.154		
7,100.00	6,853.41	7,022.43	6,549.45	37.89	42.71	-51.09	-2,501.69	-144.29	794.71	723.44	71.27	11.151		
7,200.00	6,940.36	7,125.72	6,642.80	38.34	43.34	-60.68	-2,540.99	-166.96	806.98	734.51	72.47	11.136		
7,300.00	7,019.83	7,233.73	6,735.88	38.74	43.93	-66.73	-2,580.31	-204.75	818.92	745.22	73.70	11.111		
7,400.00	7,089.85	7,346.86	6,825.55	39.10	44.47	-70.79	-2,618.33	-262.01	830.11	755.19	74.93	11.079		
7,500.00	7,148.71	7,465.30	6,907.81	39.42	44.95	-73.65	-2,653.39	-339.40	840.09	763.96	76.13	11.035		
7,600.00	7,194.95	7,588.88	6,977.98	39.71	45.36	-75.65	-2,683.53	-436.31	848.37	771.00	77.37	10.965		
7,700.00	7,227.43	7,716.99	7,031.07	40.01	45.71	-77.00	-2,706.61	-550.36	854.49	775.71	78.78	10.846		
7,800.00	7,245.37	7,848.49	7,062.53	40.37	46.03	-77.76	-2,720.73	-677.01	858.07	777.55	80.52	10.657		
7,900.00	7,248.84	7,974.34	7,069.93	40.87	46.34	-77.98	-2,724.74	-802.41	858.92	776.28	82.64	10.394		
8,000.00	7,248.24	8,074.34	7,069.63	41.62	46.67	-78.00	-2,725.34	-902.41	858.87	773.83	85.04	10.099		
8,100.00	7,247.65	8,174.34	7,069.34	42.66	47.15	-78.02	-2,725.93	-1,002.41	858.82	771.09	87.73	9.789		
8,200.00	7,247.05	8,274.34	7,069.04	43.96	47.82	-78.04	-2,726.53	-1,102.40	858.78	768.09	90.68	9.470		
8,300.00	7,246.46	8,374.34	7,068.74	45.46	48.74	-78.06	-2,727.13	-1,202.40	858.73	764.85	93.88	9.147		
8,400.00	7,245.86	8,474.34	7,068.44	47.13	49.93	-78.08	-2,727.73	-1,302.40	858.68	761.38	97.30	8.825		
8,500.00	7,245.27	8,574.34	7,068.15	48.93	51.36	-78.10	-2,728.33	-1,402.39	858.63	757.73	100.91	8.509		
8,600.00	7,244.67	8,674.34	7,067.85	50.84	52.98	-78.12	-2,728.92	-1,502.39	858.58	753.89	104.69	8.201		
8,700.00	7,244.07	8,774.34	7,067.55	52.85	54.77	-78.13	-2,729.52	-1,602.39	858.54	749.90	108.64	7.903		
8,800.00	7,243.48	8,874.34	7,067.25	54.94	56.67	-78.15	-2,730.12	-1,702.39	858.49	745.77	112.72	7.616		
8,900.00	7,242.88	8,974.34	7,066.96	57.10	58.69	-78.17	-2,730.72	-1,802.38	858.44	741.51	116.93	7.341		
9,000.00	7,242.29	9,074.34	7,066.66	59.32	60.78	-78.19	-2,731.31	-1,902.38	858.39	737.13	121.26	7.079		
9,100.00	7,241.69	9,174.34	7,066.36	61.60	62.95	-78.21	-2,731.91	-2,002.38	858.35	732.66	125.69	6.829		
9,200.00	7,241.09	9,274.34	7,066.06	63.92	65.18	-78.23	-2,732.51	-2,102.38	858.30	728.09	130.21	6.592		
9,300.00	7,240.50	9,374.34	7,065.76	66.29	67.47	-78.25	-2,733.11	-2,202.37	858.25	723.44	134.81	6.366		
9,400.00	7,239.90	9,474.34	7,065.47	68.70	69.80	-78.27	-2,733.71	-2,302.37	858.21	718.72	139.48	6.153		
9,500.00	7,239.31	9,574.34	7,065.17	71.14	72.17	-78.29	-2,734.30	-2,402.37	858.16	713.93	144.23	5.950		
9,600.00	7,238.71	9,674.34	7,064.87	73.61	74.58	-78.31	-2,734.90	-2,502.37	858.11	709.08	149.03	5.758		
9,700.00	7,238.11	9,774.34	7,064.57	76.11	77.02	-78.33	-2,735.50	-2,602.36	858.07	704.18	153.89	5.576		
9,800.00	7,237.52	9,874.34	7,064.28	78.64	79.50	-78.35	-2,736.10	-2,702.36	858.02	699.22	158.80	5.403		
9,900.00	7,236.92	9,974.34	7,063.98	81.19	81.99	-78.37	-2,736.70	-2,802.36	857.97	694.22	163.76	5.239		
10,000.00	7,236.33	10,074.33	7,063.68	83.75	84.52	-78.39	-2,737.29	-2,902.35	857.93	689.17	168.75	5.084		
10,100.00	7,235.73	10,174.33	7,063.38	86.34	87.06	-78.41	-2,737.89	-3,002.35	857.88	684.09	173.79	4.936		
10,200.00	7,235.14	10,274.33	7,063.09	88.94	89.63	-78.43	-2,738.49	-3,102.35	857.84	678.98	178.86	4.796		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	10,374.33	7,062.79	91.56	92.21	-78.45	-2,739.09	-3,202.35	857.79	673.83	183.96	4.663		
10,400.00	7,233.94	10,474.33	7,062.49	94.19	94.81	-78.47	-2,739.69	-3,302.34	857.74	668.65	189.09	4.536		
10,500.00	7,233.35	10,574.33	7,062.19	96.84	97.42	-78.49	-2,740.28	-3,402.34	857.70	663.44	194.26	4.415		
10,600.00	7,232.75	10,674.33	7,061.90	99.50	100.05	-78.51	-2,740.88	-3,502.34	857.65	658.21	199.44	4.300		
10,700.00	7,232.16	10,774.33	7,061.60	102.17	102.69	-78.53	-2,741.48	-3,602.34	857.61	652.96	204.65	4.191		
10,800.00	7,231.56	10,874.33	7,061.30	104.85	105.34	-78.55	-2,742.08	-3,702.33	857.56	647.68	209.88	4.086		
10,900.00	7,230.96	10,974.33	7,061.00	107.53	108.00	-78.57	-2,742.68	-3,802.33	857.52	642.38	215.13	3.986		
11,000.00	7,230.37	11,074.33	7,060.71	110.23	110.67	-78.59	-2,743.27	-3,902.33	857.47	637.07	220.40	3.890		
11,100.00	7,229.77	11,174.33	7,060.41	112.93	113.36	-78.61	-2,743.87	-4,002.33	857.43	631.74	225.69	3.799		
11,200.00	7,229.18	11,274.33	7,060.11	115.65	116.05	-78.63	-2,744.47	-4,102.32	857.38	626.39	230.99	3.712		
11,300.00	7,228.58	11,374.33	7,059.81	118.37	118.74	-78.65	-2,745.07	-4,202.32	857.34	621.02	236.31	3.628		
11,400.00	7,227.99	11,474.33	7,059.52	121.09	121.45	-78.67	-2,745.66	-4,302.32	857.29	615.65	241.65	3.548		
11,500.00	7,227.39	11,574.33	7,059.22	123.82	124.16	-78.69	-2,746.26	-4,402.31	857.25	610.25	246.99	3.471		
11,600.00	7,226.79	11,674.33	7,058.92	126.56	126.88	-78.71	-2,746.86	-4,502.31	857.20	604.85	252.35	3.397		
11,700.00	7,226.20	11,774.33	7,058.62	129.30	129.61	-78.73	-2,747.46	-4,602.31	857.16	599.43	257.73	3.326		
11,800.00	7,225.60	11,874.33	7,058.32	132.05	132.34	-78.75	-2,748.06	-4,702.31	857.11	594.00	263.11	3.258		
11,900.00	7,225.01	11,974.33	7,058.03	134.80	135.08	-78.77	-2,748.65	-4,802.30	857.07	588.57	268.50	3.192		
12,000.00	7,224.41	12,074.33	7,057.73	137.56	137.82	-78.79	-2,749.25	-4,902.30	857.02	583.12	273.91	3.129		
12,100.00	7,223.81	12,174.33	7,057.43	140.32	140.56	-78.80	-2,749.85	-5,002.30	856.98	577.66	279.32	3.068		
12,200.00	7,223.22	12,274.33	7,057.13	143.08	143.32	-78.82	-2,750.45	-5,102.30	856.94	572.19	284.74	3.010		
12,300.00	7,222.62	12,374.32	7,056.84	145.85	146.07	-78.84	-2,751.05	-5,202.29	856.89	566.72	290.17	2.953		
12,400.00	7,222.03	12,474.32	7,056.54	148.62	148.83	-78.86	-2,751.64	-5,302.29	856.85	561.24	295.61	2.899		
12,500.00	7,221.43	12,574.32	7,056.24	151.40	151.59	-78.88	-2,752.24	-5,402.29	856.81	555.75	301.06	2.846		
12,600.00	7,220.83	12,674.32	7,055.94	154.18	154.36	-78.90	-2,752.84	-5,502.29	856.76	550.25	306.51	2.795		
12,700.00	7,220.24	12,774.32	7,055.65	156.96	157.13	-78.92	-2,753.44	-5,602.28	856.72	544.74	311.97	2.746		
12,800.00	7,219.64	12,874.32	7,055.35	159.74	159.90	-78.94	-2,754.04	-5,702.28	856.67	539.23	317.44	2.699		
12,900.00	7,219.05	12,974.32	7,055.05	162.53	162.68	-78.96	-2,754.63	-5,802.28	856.63	533.72	322.92	2.653		
13,000.00	7,218.45	13,074.32	7,054.75	165.32	165.45	-78.98	-2,755.23	-5,902.27	856.59	528.19	328.40	2.608		
13,100.00	7,217.86	13,174.32	7,054.46	168.11	168.24	-79.00	-2,755.83	-6,002.27	856.55	522.66	333.88	2.565		
13,200.00	7,217.26	13,274.32	7,054.16	170.90	171.02	-79.02	-2,756.43	-6,102.27	856.50	517.13	339.37	2.524		
13,300.00	7,216.66	13,374.32	7,053.86	173.70	173.81	-79.04	-2,757.03	-6,202.27	856.46	511.59	344.87	2.483		
13,400.00	7,216.07	13,474.32	7,053.56	176.49	176.59	-79.06	-2,757.62	-6,302.26	856.42	506.05	350.37	2.444		
13,500.00	7,215.47	13,574.32	7,053.27	179.29	179.39	-79.08	-2,758.22	-6,402.26	856.37	500.50	355.88	2.406		
13,600.00	7,214.88	13,674.32	7,052.97	182.09	182.18	-79.10	-2,758.82	-6,502.26	856.33	494.94	361.39	2.370		
13,700.00	7,214.28	13,774.32	7,052.67	184.90	184.97	-79.12	-2,759.42	-6,602.26	856.29	489.39	366.90	2.334		
13,800.00	7,213.68	13,874.32	7,052.37	187.70	187.77	-79.14	-2,760.02	-6,702.25	856.25	483.82	372.42	2.299		
13,900.00	7,213.09	13,974.32	7,052.08	190.51	190.57	-79.16	-2,760.61	-6,802.25	856.20	478.26	377.95	2.265		
14,000.00	7,212.49	14,074.32	7,051.78	193.32	193.37	-79.18	-2,761.21	-6,902.25	856.16	472.69	383.48	2.233		
14,100.00	7,211.90	14,174.32	7,051.48	196.13	196.17	-79.20	-2,761.81	-7,002.25	856.12	467.11	389.01	2.201		
14,200.00	7,211.30	14,274.32	7,051.18	198.94	198.98	-79.22	-2,762.41	-7,102.24	856.08	461.53	394.54	2.170		
14,300.00	7,210.71	14,374.32	7,050.88	201.75	201.78	-79.24	-2,763.00	-7,202.24	856.04	455.95	400.08	2.140		
14,400.00	7,210.11	14,474.32	7,050.59	204.56	204.59	-79.26	-2,763.60	-7,302.24	855.99	450.37	405.63	2.110		
14,500.00	7,209.51	14,574.31	7,050.29	207.38	207.40	-79.28	-2,764.20	-7,402.23	855.95	444.78	411.17	2.082		
14,600.00	7,208.92	14,674.31	7,049.99	210.19	210.21	-79.30	-2,764.80	-7,502.23	855.91	439.19	416.72	2.054		
14,700.00	7,208.32	14,774.31	7,049.69	213.01	213.02	-79.32	-2,765.40	-7,602.23	855.87	433.60	422.27	2.027		
14,800.00	7,207.73	14,874.31	7,049.40	215.83	215.83	-79.34	-2,765.99	-7,702.23	855.83	428.00	427.83	2.000		
14,900.00	7,207.13	14,974.31	7,049.10	218.65	218.64	-79.36	-2,766.59	-7,802.22	855.79	422.40	433.39	1.975		
15,000.00	7,206.53	15,074.31	7,048.80	221.47	221.46	-79.38	-2,767.19	-7,902.22	855.75	416.80	438.95	1.950		
15,100.00	7,205.94	15,174.31	7,048.50	224.29	224.27	-79.40	-2,767.79	-8,002.22	855.71	411.19	444.51	1.925		
15,200.00	7,205.34	15,274.31	7,048.21	227.11	227.09	-79.42	-2,768.39	-8,102.22	855.66	405.58	450.08	1.901		
15,258.04	7,205.00	15,332.36	7,048.03	228.75	228.73	-79.43	-2,768.73	-8,160.26	855.64	402.33	453.31	1.888 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.51	279.80	2.50	279.81					
100.00	100.00	101.00	100.00	3.28	3.28	0.51	279.80	2.50	279.81	273.24	6.57	42.592		
200.00	200.00	201.00	200.00	3.34	3.34	0.51	279.80	2.50	279.81	273.14	6.67	41.921	CC, ES	
300.00	299.98	300.98	299.98	3.44	3.45	175.78	279.80	2.50	281.55	274.67	6.89	40.886		
400.00	399.84	400.84	399.84	3.59	3.60	175.85	279.80	2.50	286.77	279.58	7.20	39.846		
500.00	499.45	500.45	499.45	3.79	3.81	175.96	279.80	2.50	295.47	287.87	7.60	38.880		
600.00	598.70	591.06	590.04	4.03	4.02	175.96	281.09	1.84	309.02	300.96	8.07	38.315		
700.00	697.47	683.28	682.16	4.31	4.27	175.76	284.85	-0.11	328.59	320.00	8.60	38.226		
800.00	795.62	780.45	779.20	4.64	4.56	175.55	289.40	-2.47	352.18	342.99	9.18	38.343		
900.00	893.06	876.74	875.35	5.00	4.86	175.40	293.91	-4.80	379.13	369.31	9.82	38.618		
1,000.00	989.65	972.04	970.52	5.40	5.18	175.30	298.37	-7.11	409.40	398.91	10.49	39.023		
1,100.00	1,085.85	1,066.89	1,065.24	5.82	5.50	175.27	302.81	-9.41	441.07	429.90	11.18	39.469		
1,200.00	1,182.06	1,161.74	1,159.96	6.27	5.84	175.25	307.25	-11.71	472.74	460.85	11.89	39.770		
1,300.00	1,278.26	1,256.60	1,254.69	6.73	6.19	175.23	311.69	-14.01	504.41	491.79	12.62	39.963		
1,400.00	1,374.47	1,351.45	1,349.41	7.20	6.55	175.21	316.13	-16.31	536.08	522.70	13.38	40.076		
1,500.00	1,470.67	1,446.30	1,444.13	7.69	6.92	175.19	320.57	-18.61	567.75	553.60	14.15	40.131		
1,600.00	1,566.88	1,541.16	1,538.85	8.18	7.29	175.18	325.01	-20.91	599.41	584.48	14.93	40.143		
1,700.00	1,663.08	1,636.01	1,633.57	8.68	7.66	175.17	329.46	-23.21	631.08	615.35	15.73	40.123		
1,800.00	1,759.29	1,730.86	1,728.29	9.19	8.04	175.15	333.90	-25.51	662.75	646.22	16.54	40.081		
1,900.00	1,855.49	1,825.72	1,823.01	9.70	8.43	175.14	338.34	-27.81	694.42	677.07	17.35	40.023		
2,000.00	1,951.70	1,920.57	1,917.73	10.22	8.81	175.13	342.78	-30.11	726.09	707.92	18.17	39.954		
2,100.00	2,047.90	2,015.42	2,012.45	10.73	9.20	175.13	347.22	-32.41	757.76	738.75	19.00	39.877		
2,200.00	2,144.11	2,110.27	2,107.17	11.26	9.60	175.12	351.66	-34.71	789.43	769.59	19.84	39.796		
2,300.00	2,240.31	2,205.13	2,201.90	11.78	9.99	175.11	356.10	-37.01	821.09	800.42	20.68	39.711		
2,400.00	2,336.52	2,300.02	2,296.62	12.31	10.39	175.10	360.54	-39.31	852.76	831.24	21.52	39.625		
2,500.00	2,432.72	2,405.17	2,391.34	12.84	10.83	175.10	364.98	-41.61	884.43	862.02	22.41	39.462		
2,600.00	2,528.93	2,489.69	2,486.06	13.37	11.18	175.09	369.43	-43.91	916.10	892.88	23.22	39.452		
2,700.00	2,625.13	2,584.54	2,580.78	13.91	11.58	175.08	373.87	-46.21	947.77	923.69	24.08	39.367		
2,800.00	2,721.34	2,679.39	2,675.50	14.44	11.99	175.08	378.31	-48.51	979.44	954.51	24.93	39.284		
2,900.00	2,817.54	2,774.25	2,770.22	14.98	12.39	175.07	382.75	-50.81	1,011.11	985.31	25.79	39.202		
3,000.00	2,913.75	2,869.10	2,864.94	15.52	12.79	175.07	387.19	-53.11	1,042.78	1,016.12	26.65	39.122		
3,100.00	3,009.95	2,963.95	2,959.66	16.06	13.20	175.06	391.63	-55.41	1,074.44	1,046.93	27.52	39.044		
3,200.00	3,106.16	3,058.80	3,054.38	16.60	13.60	175.06	396.07	-57.71	1,106.11	1,077.73	28.38	38.968		
3,300.00	3,202.37	3,153.66	3,149.11	17.14	14.01	175.06	400.51	-60.01	1,137.78	1,108.53	29.25	38.895		
3,400.00	3,298.57	3,248.51	3,243.83	17.68	14.42	175.05	404.96	-62.31	1,169.45	1,139.33	30.12	38.824		
3,500.00	3,394.78	3,343.36	3,338.55	18.22	14.82	175.05	409.40	-64.61	1,201.12	1,170.13	30.99	38.755		
3,600.00	3,490.98	3,438.22	3,433.27	18.76	15.23	175.05	413.84	-66.91	1,232.79	1,200.92	31.86	38.688		
3,700.00	3,587.19	3,533.07	3,527.99	19.31	15.64	175.04	418.28	-69.21	1,264.46	1,231.72	32.74	38.623		
3,800.00	3,683.39	3,627.92	3,622.71	19.85	16.05	175.04	422.72	-71.51	1,296.13	1,262.51	33.61	38.561		
3,900.00	3,779.60	3,722.77	3,717.43	20.39	16.46	175.04	427.16	-73.81	1,327.79	1,293.31	34.49	38.500		
4,000.00	3,875.80	3,817.63	3,812.15	20.94	16.87	175.03	431.60	-76.11	1,359.46	1,324.10	35.36	38.441		
4,100.00	3,972.01	3,912.48	3,906.87	21.48	17.28	175.03	436.04	-78.41	1,391.13	1,354.89	36.24	38.385		
4,200.00	4,068.21	4,007.33	4,001.59	22.03	17.69	175.03	440.48	-80.71	1,422.80	1,385.68	37.12	38.330		
4,300.00	4,164.42	4,102.19	4,096.32	22.57	18.11	175.03	444.93	-83.01	1,454.47	1,416.47	38.00	38.277		
4,400.00	4,260.62	4,197.04	4,191.04	23.12	18.52	175.02	449.37	-85.31	1,486.14	1,447.26	38.88	38.225		
4,500.00	4,356.83	4,308.11	4,285.76	23.67	19.00	175.02	453.81	-87.61	1,517.81	1,477.98	39.83	38.108		
4,600.00	4,453.03	4,386.75	4,380.48	24.21	19.34	175.02	458.25	-89.91	1,549.48	1,508.84	40.64	38.127		
4,700.00	4,549.24	4,481.60	4,475.20	24.76	19.75	175.02	462.69	-92.21	1,581.14	1,539.62	41.52	38.080		
4,800.00	4,645.44	4,576.45	4,569.92	25.31	20.17	175.02	467.13	-94.51	1,612.81	1,570.41	42.40	38.035		
4,900.00	4,741.65	4,671.30	4,664.64	25.86	20.58	175.01	471.57	-96.81	1,644.48	1,601.20	43.29	37.991		
5,000.00	4,837.85	4,766.16	4,759.36	26.40	20.99	175.01	476.01	-99.11	1,676.15	1,631.98	44.17	37.948		
5,100.00	4,934.06	4,861.01	4,854.08	26.95	21.41	175.01	480.46	-101.41	1,707.82	1,662.77	45.05	37.906		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,955.86	4,948.80	27.50	21.82	175.01	484.90	-103.71	1,739.49	1,693.55	45.94	37.866		
5,300.00	5,126.47	5,050.72	5,043.53	28.05	22.24	175.01	489.34	-106.01	1,771.16	1,724.33	46.82	37.827		
5,400.00	5,222.67	5,145.57	5,138.25	28.60	22.65	175.01	493.78	-108.31	1,802.83	1,755.12	47.71	37.789		
5,500.00	5,318.88	5,240.42	5,232.97	29.15	23.06	175.00	498.22	-110.61	1,834.49	1,785.90	48.59	37.752		
5,600.00	5,415.08	5,335.28	5,327.69	29.70	23.48	175.00	502.66	-112.91	1,866.16	1,816.69	49.48	37.716		
5,700.00	5,511.29	5,430.13	5,422.41	30.25	23.89	175.00	507.10	-115.21	1,897.83	1,847.47	50.36	37.682		
5,800.00	5,607.49	5,524.98	5,517.13	30.79	24.31	175.00	511.54	-117.51	1,929.50	1,878.25	51.25	37.648		
5,900.00	5,703.70	5,619.83	5,611.85	31.34	24.72	175.00	515.98	-119.81	1,961.17	1,909.03	52.14	37.615		
6,000.00	5,799.90	5,714.69	5,706.57	31.89	25.14	175.00	520.43	-122.11	1,992.84	1,939.81	53.03	37.583		
6,100.00	5,896.11	5,809.54	5,801.29	32.44	25.55	175.00	524.87	-124.41	2,024.51	1,970.59	53.91	37.551		
6,200.00	5,992.32	5,904.39	5,896.02	32.99	25.97	175.00	529.31	-126.71	2,056.18	2,001.38	54.80	37.521		
6,300.00	6,088.52	6,000.75	5,990.74	33.54	26.39	174.99	533.75	-129.01	2,087.85	2,032.15	55.70	37.486		
6,400.00	6,184.73	6,105.90	6,085.46	34.09	26.85	174.99	538.19	-131.31	2,119.51	2,062.88	56.63	37.428		
6,500.00	6,280.93	6,188.95	6,180.18	34.64	27.21	174.99	542.63	-133.61	2,151.18	2,093.72	57.47	37.434		
6,600.00	6,377.14	6,283.80	6,274.90	35.19	27.63	174.99	547.07	-135.91	2,182.85	2,124.50	58.36	37.406		
6,700.00	6,473.34	6,378.66	6,369.62	35.74	28.05	174.99	551.51	-138.21	2,214.52	2,155.28	59.24	37.379		
6,800.00	6,569.55	6,474.10	6,464.91	36.29	28.46	174.98	555.98	-141.04	2,246.19	2,186.05	60.14	37.350		
6,900.00	6,665.75	6,569.81	6,559.50	36.84	28.88	169.59	560.34	-154.34	2,277.81	2,216.77	61.04	37.318		
7,000.00	6,761.11	6,663.08	6,648.76	37.39	29.30	140.09	564.36	-180.81	2,309.23	2,247.32	61.91	37.300		
7,100.00	6,853.41	6,754.96	6,731.99	37.89	29.71	121.26	568.02	-219.36	2,339.73	2,276.98	62.75	37.287		
7,200.00	6,940.36	6,845.92	6,830.09	38.34	30.13	109.41	571.27	-268.94	2,368.52	2,304.95	63.57	37.260		
7,300.00	7,019.83	6,936.35	6,875.99	38.74	30.60	101.43	574.06	-328.49	2,394.87	2,330.47	64.40	37.188		
7,400.00	7,089.85	7,026.52	6,934.64	39.10	31.12	95.78	576.36	-396.83	2,418.13	2,352.82	65.31	37.027		
7,500.00	7,148.71	7,116.58	6,983.01	39.42	31.75	91.70	578.13	-472.70	2,437.71	2,371.34	66.37	36.730		
7,600.00	7,194.95	7,206.63	7,020.21	39.71	32.50	88.80	579.33	-554.61	2,453.12	2,385.47	67.66	36.259		
7,700.00	7,227.43	7,296.65	7,045.50	40.01	33.38	86.89	579.94	-640.93	2,464.00	2,394.77	69.23	35.592		
7,800.00	7,245.37	7,386.58	7,058.38	40.37	34.39	85.85	579.95	-729.85	2,470.08	2,398.98	71.10	34.739		
7,900.00	7,248.84	7,479.98	7,059.38	40.87	35.57	85.60	579.37	-823.20	2,471.37	2,398.07	73.30	33.714		
8,000.00	7,248.24	7,579.97	7,057.63	41.62	36.99	85.58	578.62	-923.17	2,471.29	2,395.35	75.95	32.540		
8,100.00	7,247.65	7,679.96	7,055.88	42.66	38.56	85.55	577.87	-1,023.15	2,471.21	2,392.31	78.90	31.319		
8,200.00	7,247.05	7,779.96	7,054.13	43.96	40.28	85.52	577.12	-1,123.12	2,471.13	2,388.98	82.15	30.081		
8,300.00	7,246.46	7,879.95	7,052.38	45.46	42.12	85.50	576.36	-1,223.10	2,471.06	2,385.40	85.65	28.850		
8,400.00	7,245.86	7,979.94	7,050.63	47.13	44.07	85.47	575.61	-1,323.08	2,470.98	2,381.60	89.38	27.646		
8,500.00	7,245.27	8,079.94	7,048.88	48.93	46.11	85.44	574.86	-1,423.05	2,470.90	2,377.59	93.31	26.482		
8,600.00	7,244.67	8,179.93	7,047.13	50.84	48.24	85.41	574.11	-1,523.03	2,470.82	2,373.42	97.41	25.366		
8,700.00	7,244.07	8,279.92	7,045.38	52.85	50.44	85.39	573.35	-1,623.00	2,470.75	2,369.09	101.66	24.304		
8,800.00	7,243.48	8,379.92	7,043.63	54.94	52.70	85.36	572.60	-1,722.98	2,470.67	2,364.62	106.05	23.297		
8,900.00	7,242.88	8,479.91	7,041.88	57.10	55.02	85.33	571.85	-1,822.95	2,470.60	2,360.04	110.56	22.346		
9,000.00	7,242.29	8,579.90	7,040.13	59.32	57.39	85.31	571.10	-1,922.93	2,470.52	2,355.35	115.17	21.451		
9,100.00	7,241.69	8,679.90	7,038.38	61.60	59.80	85.28	570.34	-2,022.90	2,470.45	2,350.57	119.88	20.608		
9,200.00	7,241.09	8,779.89	7,036.63	63.92	62.24	85.25	569.59	-2,122.88	2,470.38	2,345.71	124.67	19.816		
9,300.00	7,240.50	8,879.88	7,034.89	66.29	64.73	85.23	568.84	-2,222.85	2,470.30	2,340.78	129.53	19.072		
9,400.00	7,239.90	8,979.88	7,033.14	68.70	67.24	85.20	568.09	-2,322.83	2,470.23	2,335.78	134.45	18.372		
9,500.00	7,239.31	9,079.87	7,031.39	71.14	69.77	85.17	567.33	-2,422.80	2,470.16	2,330.72	139.44	17.715		
9,600.00	7,238.71	9,179.86	7,029.64	73.61	72.34	85.14	566.58	-2,522.78	2,470.09	2,325.61	144.48	17.097		
9,700.00	7,238.11	9,279.86	7,027.89	76.11	74.92	85.12	565.83	-2,622.75	2,470.02	2,320.46	149.56	16.515		
9,800.00	7,237.52	9,379.85	7,026.14	78.64	77.52	85.09	565.08	-2,722.73	2,469.95	2,315.27	154.68	15.968		
9,900.00	7,236.92	9,479.84	7,024.39	81.19	80.14	85.06	564.32	-2,822.70	2,469.88	2,310.03	159.85	15.452		
10,000.00	7,236.33	9,579.84	7,022.64	83.75	82.78	85.04	563.57	-2,922.68	2,469.81	2,304.77	165.04	14.965		
10,100.00	7,235.73	9,679.83	7,020.89	86.34	85.43	85.01	562.82	-3,022.65	2,469.74	2,299.47	170.27	14.505		
10,200.00	7,235.14	9,779.82	7,019.14	88.94	88.09	84.98	562.07	-3,122.63	2,469.68	2,294.15	175.53	14.070		
10,300.00	7,234.54	9,879.81	7,017.39	91.56	90.76	84.96	561.31	-3,222.60	2,469.61	2,288.80	180.81	13.658		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	9,979.81	7,015.64	94.19	93.45	84.93	560.56	-3,322.58	2,469.54	2,283.42	186.12	13.269		
10,500.00	7,233.35	10,079.80	7,013.89	96.84	96.15	84.90	559.81	-3,422.55	2,469.48	2,278.03	191.45	12.899		
10,600.00	7,232.75	10,179.79	7,012.14	99.50	98.85	84.87	559.06	-3,522.53	2,469.41	2,272.61	196.80	12.548		
10,700.00	7,232.16	10,279.79	7,010.39	102.17	101.56	84.85	558.30	-3,622.50	2,469.35	2,267.18	202.16	12.215		
10,800.00	7,231.56	10,379.78	7,008.64	104.85	104.28	84.82	557.55	-3,722.48	2,469.28	2,261.74	207.55	11.898		
10,900.00	7,230.96	10,479.77	7,006.89	107.53	107.01	84.79	556.80	-3,822.45	2,469.22	2,256.27	212.94	11.596		
11,000.00	7,230.37	10,579.77	7,005.15	110.23	109.75	84.77	556.04	-3,922.43	2,469.15	2,250.80	218.36	11.308		
11,100.00	7,229.77	10,679.76	7,003.40	112.93	112.49	84.74	555.29	-4,022.40	2,469.09	2,245.31	223.78	11.033		
11,200.00	7,229.18	10,779.75	7,001.65	115.65	115.23	84.71	554.54	-4,122.38	2,469.03	2,239.81	229.22	10.771		
11,300.00	7,228.58	10,879.75	6,999.90	118.37	117.98	84.69	553.79	-4,222.35	2,468.97	2,234.30	234.67	10.521		
11,400.00	7,227.99	10,979.74	6,998.15	121.09	120.74	84.66	553.03	-4,322.33	2,468.91	2,228.78	240.13	10.282		
11,500.00	7,227.39	11,079.73	6,996.40	123.82	123.50	84.63	552.28	-4,422.30	2,468.85	2,223.25	245.60	10.052		
11,600.00	7,226.79	11,179.73	6,994.65	126.56	126.27	84.60	551.53	-4,522.28	2,468.79	2,217.71	251.08	9.833		
11,700.00	7,226.20	11,279.72	6,992.90	129.30	129.04	84.58	550.78	-4,622.25	2,468.73	2,212.16	256.57	9.622		
11,800.00	7,225.60	11,379.71	6,991.15	132.05	131.81	84.55	550.02	-4,722.23	2,468.67	2,206.61	262.06	9.420		
11,900.00	7,225.01	11,479.71	6,989.40	134.80	134.59	84.52	549.27	-4,822.20	2,468.61	2,201.05	267.56	9.226		
12,000.00	7,224.41	11,579.70	6,987.65	137.56	137.37	84.50	548.52	-4,922.18	2,468.55	2,195.48	273.07	9.040		
12,100.00	7,223.81	11,679.69	6,985.90	140.32	140.15	84.47	547.77	-5,022.15	2,468.49	2,189.90	278.59	8.861		
12,200.00	7,223.22	11,779.69	6,984.15	143.08	142.94	84.44	547.01	-5,122.13	2,468.44	2,184.33	284.11	8.688		
12,300.00	7,222.62	11,879.68	6,982.40	145.85	145.73	84.42	546.26	-5,222.10	2,468.38	2,178.74	289.64	8.522		
12,400.00	7,222.03	11,979.67	6,980.65	148.62	148.52	84.39	545.51	-5,322.08	2,468.33	2,173.15	295.17	8.362		
12,500.00	7,221.43	12,079.67	6,978.90	151.40	151.31	84.36	544.76	-5,422.05	2,468.27	2,167.56	300.71	8.208		
12,600.00	7,220.83	12,179.66	6,977.15	154.18	154.11	84.33	544.00	-5,522.03	2,468.22	2,161.96	306.25	8.059		
12,700.00	7,220.24	12,279.65	6,975.41	156.96	156.91	84.31	543.25	-5,622.00	2,468.16	2,156.36	311.80	7.916		
12,800.00	7,219.64	12,379.64	6,973.66	159.74	159.71	84.28	542.50	-5,721.98	2,468.11	2,150.76	317.35	7.777		
12,900.00	7,219.05	12,479.64	6,971.91	162.53	162.51	84.25	541.75	-5,821.95	2,468.06	2,145.15	322.91	7.643		
13,000.00	7,218.45	12,579.63	6,970.16	165.32	165.31	84.23	540.99	-5,921.93	2,468.00	2,139.54	328.47	7.514		
13,100.00	7,217.86	12,679.62	6,968.41	168.11	168.12	84.20	540.24	-6,021.90	2,467.95	2,133.92	334.03	7.388		
13,200.00	7,217.26	12,779.62	6,966.66	170.90	170.93	84.17	539.49	-6,121.88	2,467.90	2,128.31	339.59	7.267		
13,300.00	7,216.66	12,879.61	6,964.91	173.70	173.74	84.14	538.74	-6,221.85	2,467.85	2,122.69	345.16	7.150		
13,400.00	7,216.07	12,979.60	6,963.16	176.49	176.55	84.12	537.98	-6,321.83	2,467.80	2,117.07	350.74	7.036		
13,500.00	7,215.47	13,079.60	6,961.41	179.29	179.36	84.09	537.23	-6,421.80	2,467.75	2,111.44	356.31	6.926		
13,600.00	7,214.88	13,179.59	6,959.66	182.09	182.18	84.06	536.48	-6,521.78	2,467.70	2,105.82	361.89	6.819		
13,700.00	7,214.28	13,279.58	6,957.91	184.90	184.99	84.04	535.72	-6,621.75	2,467.65	2,100.19	367.47	6.715		
13,800.00	7,213.68	13,379.58	6,956.16	187.70	187.81	84.01	534.97	-6,721.73	2,467.61	2,094.56	373.05	6.615		
13,900.00	7,213.09	13,479.57	6,954.41	190.51	190.63	83.98	534.22	-6,821.70	2,467.56	2,088.93	378.63	6.517		
14,000.00	7,212.49	13,579.56	6,952.66	193.32	193.45	83.96	533.47	-6,921.68	2,467.51	2,083.29	384.22	6.422		
14,100.00	7,211.90	13,679.56	6,950.91	196.13	196.27	83.93	532.71	-7,021.65	2,467.47	2,077.66	389.81	6.330		
14,200.00	7,211.30	13,779.55	6,949.16	198.94	199.09	83.90	531.96	-7,121.63	2,467.42	2,072.02	395.40	6.240		
14,300.00	7,210.71	13,879.54	6,947.41	201.75	201.91	83.87	531.21	-7,221.60	2,467.37	2,066.39	400.99	6.153		
14,400.00	7,210.11	13,979.54	6,945.67	204.56	204.73	83.85	530.46	-7,321.58	2,467.33	2,060.75	406.58	6.069		
14,500.00	7,209.51	14,079.53	6,943.92	207.38	207.56	83.82	529.70	-7,421.55	2,467.29	2,055.11	412.17	5.986		
14,600.00	7,208.92	14,179.52	6,942.17	210.19	210.38	83.79	528.95	-7,521.53	2,467.24	2,049.47	417.77	5.906		
14,700.00	7,208.32	14,279.52	6,940.42	213.01	213.21	83.77	528.20	-7,621.50	2,467.20	2,043.83	423.37	5.828		
14,800.00	7,207.73	14,379.51	6,938.67	215.83	216.04	83.74	527.45	-7,721.48	2,467.16	2,038.19	428.97	5.751		
14,900.00	7,207.13	14,479.50	6,936.92	218.65	218.86	83.71	526.69	-7,821.45	2,467.12	2,032.55	434.57	5.677		
15,000.00	7,206.53	14,579.50	6,935.17	221.47	221.69	83.69	525.94	-7,921.43	2,467.07	2,026.91	440.17	5.605		
15,100.00	7,205.94	14,679.49	6,933.42	224.29	224.52	83.66	525.19	-8,021.40	2,467.03	2,021.26	445.77	5.534		
15,200.00	7,205.34	14,779.48	6,931.67	227.11	227.35	83.63	524.44	-8,121.38	2,466.99	2,015.62	451.37	5.466		
15,239.54	7,205.11	14,819.02	6,930.98	228.23	228.47	83.62	524.14	-8,160.91	2,466.98	2,013.39	453.59	5.439		
15,258.04	7,205.00	14,817.75	6,931.00	228.75	228.43	83.62	524.15	-8,159.64	2,467.05	2,013.04	454.01	5.434 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	0.00	0.00	3.28	3.28	0.60	79.80	0.83	79.80					
100.00	100.00	100.00	100.00	3.28	3.28	0.60	79.80	0.83	79.80	73.23	6.57	12.147		
200.00	200.00	200.00	200.00	3.34	3.34	0.60	79.80	0.83	79.80	73.13	6.67	11.957		
300.00	299.98	302.84	302.82	3.44	3.44	175.77	77.97	0.58	79.76	72.87	6.89	11.570		
400.00	399.84	405.68	405.50	3.59	3.60	175.53	72.49	-0.20	79.64	72.42	7.23	11.021		
500.00	499.45	508.50	507.91	3.79	3.82	175.14	63.36	-1.49	79.45	71.79	7.66	10.366		
600.00	598.70	611.32	609.90	4.03	4.09	174.59	50.61	-3.29	79.19	71.00	8.19	9.669		
667.19	665.12	680.39	678.14	4.22	4.31	174.12	40.01	-4.79	78.98	70.40	8.59	9.198	CC, ES	
700.00	697.47	712.97	710.28	4.31	4.42	173.92	34.73	-5.53	79.17	70.40	8.77	9.029		
800.00	795.62	812.92	808.88	4.64	4.79	173.46	18.49	-7.83	82.00	72.63	9.37	8.753		
900.00	893.06	912.72	907.32	5.00	5.20	173.30	2.29	-10.12	88.30	78.27	10.03	8.804		
1,000.00	989.65	1,012.23	1,005.49	5.40	5.63	173.40	-13.88	-12.40	98.05	87.31	10.74	9.131		
1,100.00	1,085.85	1,111.60	1,103.52	5.82	6.08	173.58	-30.02	-14.68	109.25	97.77	11.48	9.519		
1,200.00	1,182.06	1,210.98	1,201.54	6.27	6.55	173.73	-46.16	-16.96	120.45	108.20	12.25	9.836		
1,300.00	1,278.26	1,310.35	1,299.57	6.73	7.03	173.85	-62.29	-19.24	131.64	118.61	13.04	10.096		
1,400.00	1,374.47	1,409.72	1,397.59	7.20	7.52	173.96	-78.43	-21.52	142.84	128.99	13.85	10.311		
1,500.00	1,470.67	1,509.09	1,495.62	7.69	8.02	174.05	-94.57	-23.80	154.04	139.36	14.69	10.490		
1,600.00	1,566.88	1,608.46	1,593.64	8.18	8.53	174.12	-110.71	-26.08	165.25	149.71	15.53	10.639		
1,700.00	1,663.08	1,707.83	1,691.67	8.68	9.04	174.19	-126.85	-28.36	176.45	160.06	16.39	10.766		
1,800.00	1,759.29	1,807.20	1,789.69	9.19	9.56	174.25	-142.99	-30.64	187.65	170.39	17.26	10.873		
1,900.00	1,855.49	1,906.57	1,887.72	9.70	10.08	174.30	-159.13	-32.92	198.85	180.71	18.14	10.964		
2,000.00	1,951.70	2,005.94	1,985.74	10.22	10.61	174.35	-175.27	-35.20	210.05	191.03	19.02	11.043		
2,100.00	2,047.90	2,105.31	2,083.77	10.73	11.14	174.39	-191.41	-37.48	221.25	201.34	19.91	11.111		
2,200.00	2,144.11	2,204.68	2,181.79	11.26	11.67	174.43	-207.55	-39.76	232.45	211.64	20.81	11.170		
2,300.00	2,240.31	2,304.05	2,279.81	11.78	12.20	174.46	-223.68	-42.04	243.65	221.94	21.71	11.221		
2,400.00	2,336.52	2,403.42	2,377.84	12.31	12.74	174.50	-239.82	-44.32	254.86	232.24	22.62	11.267		
2,500.00	2,432.72	2,502.79	2,475.86	12.84	13.28	174.53	-255.96	-46.60	266.06	242.53	23.53	11.306		
2,600.00	2,528.93	2,602.16	2,573.89	13.37	13.81	174.55	-272.10	-48.88	277.26	252.81	24.45	11.342		
2,700.00	2,625.13	2,701.53	2,671.91	13.91	14.36	174.58	-288.24	-51.16	288.46	263.10	25.36	11.373		
2,800.00	2,721.34	2,800.90	2,769.94	14.44	14.90	174.60	-304.38	-53.44	299.66	273.38	26.28	11.401		
2,900.00	2,817.54	2,900.27	2,867.96	14.98	15.44	174.62	-320.52	-55.72	310.87	283.66	27.21	11.426		
3,000.00	2,913.75	3,000.36	2,965.99	15.52	15.99	174.64	-336.66	-58.00	322.07	293.93	28.14	11.447		
3,100.00	3,009.95	3,100.98	3,064.01	16.06	16.54	174.66	-352.80	-60.28	333.27	304.20	29.07	11.465		
3,200.00	3,106.16	3,201.61	3,162.04	16.60	17.09	174.68	-368.94	-62.56	344.47	314.47	30.00	11.481		
3,300.00	3,202.37	3,302.24	3,260.06	17.14	17.65	174.69	-385.07	-64.84	355.67	324.73	30.94	11.495		
3,400.00	3,298.57	3,402.87	3,358.09	17.68	18.20	174.71	-401.21	-67.12	366.88	335.00	31.88	11.509		
3,500.00	3,394.78	3,496.50	3,456.11	18.22	18.72	174.72	-417.35	-69.40	378.08	345.29	32.79	11.532		
3,600.00	3,490.98	3,604.13	3,554.14	18.76	19.31	174.73	-433.49	-71.68	389.28	355.52	33.76	11.531		
3,700.00	3,587.19	3,704.76	3,652.16	19.31	19.87	174.75	-449.63	-73.96	400.48	365.78	34.70	11.541		
3,800.00	3,683.39	3,805.39	3,750.18	19.85	20.42	174.76	-465.77	-76.24	411.69	376.04	35.64	11.550		
3,900.00	3,779.60	3,906.02	3,848.21	20.39	20.98	174.77	-481.91	-78.52	422.89	386.30	36.59	11.558		
4,000.00	3,875.80	4,006.65	3,946.23	20.94	21.54	174.78	-498.05	-80.80	434.09	396.56	37.53	11.565		
4,100.00	3,972.01	4,107.28	4,044.26	21.48	22.09	174.79	-514.19	-83.08	445.29	406.81	38.48	11.572		
4,200.00	4,068.21	4,207.91	4,142.28	22.03	22.65	174.80	-530.33	-85.36	456.50	417.07	39.43	11.578		
4,300.00	4,164.42	4,308.54	4,240.31	22.57	23.21	174.81	-546.46	-87.64	467.70	427.32	40.37	11.584		
4,400.00	4,260.62	4,409.17	4,338.33	23.12	23.77	174.82	-562.60	-89.92	478.90	437.58	41.32	11.589		
4,500.00	4,356.83	4,490.20	4,436.36	23.67	24.22	174.83	-578.74	-92.20	490.10	447.92	42.18	11.619		
4,600.00	4,453.03	4,589.57	4,534.38	24.21	24.77	174.83	-594.88	-94.48	501.30	458.18	43.13	11.624		
4,700.00	4,549.24	4,688.94	4,632.41	24.76	25.32	174.84	-611.02	-96.76	512.51	468.44	44.07	11.629		
4,800.00	4,645.44	4,788.31	4,730.43	25.31	25.88	174.85	-627.16	-99.04	523.71	478.69	45.01	11.634		
4,900.00	4,741.65	4,887.68	4,828.46	25.86	26.43	174.86	-643.30	-101.32	534.91	488.95	45.96	11.639		
5,000.00	4,837.85	4,987.06	4,926.48	26.40	26.98	174.86	-659.44	-103.60	546.11	499.21	46.91	11.643		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	
5,100.00	4,934.06	5,086.43	5,024.51	26.95	27.54	174.87	-675.58	-105.88	557.32	509.46	47.85	11.647	
5,200.00	5,030.26	5,185.80	5,122.53	27.50	28.09	174.88	-691.72	-108.16	568.52	519.72	48.80	11.650	
5,300.00	5,126.47	5,285.17	5,220.55	28.05	28.64	174.88	-707.85	-110.44	579.72	529.98	49.75	11.654	
5,400.00	5,222.67	5,384.54	5,318.58	28.60	29.20	174.89	-723.99	-112.72	590.92	540.23	50.69	11.657	
5,500.00	5,318.88	5,483.91	5,416.60	29.15	29.75	174.89	-740.13	-115.00	602.13	550.49	51.64	11.660	
5,600.00	5,415.08	5,583.28	5,514.63	29.70	30.30	174.90	-756.27	-117.28	613.33	560.74	52.59	11.663	
5,700.00	5,511.29	5,682.65	5,612.65	30.25	30.86	174.90	-772.41	-119.56	624.53	570.99	53.54	11.665	
5,800.00	5,607.49	5,782.02	5,710.68	30.79	31.41	174.91	-788.55	-121.84	635.73	581.25	54.49	11.668	
5,900.00	5,703.70	5,881.39	5,808.70	31.34	31.97	174.91	-804.69	-124.12	646.94	591.50	55.44	11.670	
6,000.00	5,799.90	5,980.76	5,906.73	31.89	32.52	174.92	-820.83	-126.40	658.14	601.75	56.38	11.672	
6,100.00	5,896.11	6,080.13	6,004.75	32.44	33.07	174.92	-836.97	-128.68	669.34	612.01	57.33	11.674	
6,200.00	5,992.32	6,179.50	6,102.78	32.99	33.63	174.93	-853.11	-130.96	680.54	622.26	58.28	11.676	
6,300.00	6,088.52	6,278.87	6,200.80	33.54	34.18	174.93	-869.24	-133.24	691.75	632.51	59.23	11.678	
6,400.00	6,184.73	6,378.24	6,298.83	34.09	34.74	174.93	-885.38	-135.52	702.95	642.76	60.18	11.680	
6,500.00	6,280.93	6,477.61	6,396.85	34.64	35.29	174.94	-901.52	-137.80	714.15	653.02	61.14	11.681	
6,600.00	6,377.14	6,576.98	6,494.88	35.19	35.85	174.94	-917.66	-140.08	725.35	663.27	62.09	11.683	
6,700.00	6,473.34	6,676.35	6,592.90	35.74	36.40	174.95	-933.80	-142.36	736.56	673.52	63.04	11.685	
6,800.00	6,569.55	6,775.62	6,690.68	36.29	36.96	174.74	-949.92	-147.33	747.76	683.76	64.00	11.684	
6,900.00	6,665.75	6,872.17	6,784.10	36.84	37.50	168.73	-965.41	-165.64	759.19	694.18	65.01	11.679	
7,000.00	6,761.11	6,965.04	6,870.39	37.39	38.02	140.04	-979.81	-196.56	771.09	705.08	66.01	11.681	
7,100.00	6,853.41	7,055.44	6,949.25	37.89	38.52	122.03	-993.06	-238.56	783.09	716.11	66.99	11.690	
7,200.00	6,940.36	7,143.77	7,019.87	38.34	39.00	110.95	-1,005.02	-290.13	794.78	726.86	67.92	11.702	
7,300.00	7,019.83	7,230.38	7,081.62	38.74	39.49	103.67	-1,015.58	-349.84	805.73	736.90	68.84	11.705	
7,400.00	7,089.85	7,315.60	7,134.02	39.10	40.00	98.61	-1,024.65	-416.36	815.60	745.80	69.80	11.685	
7,500.00	7,148.71	7,399.72	7,176.68	39.42	40.55	95.03	-1,032.15	-488.39	824.04	753.17	70.87	11.628	
7,600.00	7,194.95	7,482.99	7,209.33	39.71	41.17	92.52	-1,038.03	-564.71	830.78	758.63	72.15	11.515	
7,700.00	7,227.43	7,565.65	7,231.73	40.01	41.88	90.88	-1,042.25	-644.10	835.60	761.90	73.70	11.338	
7,800.00	7,245.37	7,647.91	7,243.78	40.37	42.72	89.99	-1,044.77	-725.38	838.35	762.79	75.55	11.096	
7,900.00	7,248.84	7,735.45	7,245.84	40.87	43.77	89.80	-1,045.70	-812.85	838.99	761.08	77.91	10.769	
8,000.00	7,248.24	7,835.45	7,245.31	41.62	45.18	89.80	-1,046.29	-912.85	838.99	757.98	81.01	10.356	
8,100.00	7,247.65	7,935.45	7,244.78	42.66	46.82	89.80	-1,046.87	-1,012.85	838.99	754.54	84.45	9.935	
8,200.00	7,247.05	8,035.45	7,244.26	43.96	48.68	89.81	-1,047.45	-1,112.84	838.99	750.81	88.18	9.514	
8,300.00	7,246.46	8,135.45	7,243.73	45.46	50.71	89.81	-1,048.04	-1,212.84	838.99	746.81	92.18	9.102	
8,400.00	7,245.86	8,235.45	7,243.20	47.13	52.90	89.82	-1,048.62	-1,312.84	838.99	742.58	96.41	8.702	
8,500.00	7,245.27	8,335.45	7,242.67	48.93	55.23	89.82	-1,049.21	-1,412.83	838.99	738.15	100.84	8.320	
8,600.00	7,244.67	8,435.45	7,242.14	50.84	57.66	89.83	-1,049.79	-1,512.83	838.99	733.54	105.45	7.956	
8,700.00	7,244.07	8,535.45	7,241.61	52.85	60.20	89.83	-1,050.38	-1,612.83	838.99	728.78	110.21	7.613	
8,800.00	7,243.48	8,635.45	7,241.08	54.94	62.82	89.84	-1,050.96	-1,712.83	838.99	723.88	115.11	7.289	
8,900.00	7,242.88	8,735.45	7,240.55	57.10	65.51	89.84	-1,051.54	-1,812.82	838.99	718.86	120.12	6.984	
9,000.00	7,242.29	8,835.45	7,240.03	59.32	68.26	89.85	-1,052.13	-1,912.82	838.99	713.74	125.24	6.699	
9,100.00	7,241.69	8,935.45	7,239.50	61.60	71.06	89.85	-1,052.71	-2,012.82	838.98	708.53	130.45	6.431	
9,200.00	7,241.09	9,035.45	7,238.97	63.92	73.91	89.85	-1,053.30	-2,112.81	838.98	703.23	135.75	6.180	
9,300.00	7,240.50	9,135.45	7,238.44	66.29	76.81	89.86	-1,053.88	-2,212.81	838.98	697.87	141.12	5.945	
9,400.00	7,239.90	9,235.45	7,237.91	68.70	79.74	89.86	-1,054.47	-2,312.81	838.98	692.43	146.55	5.725	
9,500.00	7,239.31	9,335.45	7,237.38	71.14	82.70	89.87	-1,055.05	-2,412.80	838.98	686.94	152.04	5.518	
9,600.00	7,238.71	9,435.45	7,236.85	73.61	85.69	89.87	-1,055.64	-2,512.80	838.98	681.40	157.58	5.324	
9,700.00	7,238.11	9,535.45	7,236.32	76.11	88.71	89.88	-1,056.22	-2,612.80	838.98	675.81	163.17	5.142	
9,800.00	7,237.52	9,635.45	7,235.80	78.64	91.74	89.88	-1,056.80	-2,712.79	838.98	670.18	168.80	4.970	
9,900.00	7,236.92	9,735.45	7,235.27	81.19	94.80	89.89	-1,057.39	-2,812.79	838.98	664.51	174.47	4.809	
10,000.00	7,236.33	9,835.45	7,234.74	83.75	97.88	89.89	-1,057.97	-2,912.79	838.98	658.80	180.18	4.656	
10,100.00	7,235.73	9,935.45	7,234.21	86.34	100.98	89.90	-1,058.56	-3,012.78	838.98	653.07	185.91	4.513	
10,200.00	7,235.14	10,035.45	7,233.68	88.94	104.09	89.90	-1,059.14	-3,112.78	838.98	647.30	191.68	4.377	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	10,135.45	7,233.15	91.56	107.21	89.91	-1,059.73	-3,212.78	838.98	641.51	197.46	4.249		
10,400.00	7,233.94	10,235.45	7,232.62	94.19	110.35	89.91	-1,060.31	-3,312.78	838.98	635.70	203.28	4.127		
10,500.00	7,233.35	10,335.45	7,232.10	96.84	113.50	89.91	-1,060.89	-3,412.77	838.97	629.86	209.11	4.012		
10,600.00	7,232.75	10,435.45	7,231.57	99.50	116.65	89.92	-1,061.48	-3,512.77	838.97	624.01	214.97	3.903		
10,700.00	7,232.16	10,535.45	7,231.04	102.17	119.82	89.92	-1,062.06	-3,612.77	838.97	618.13	220.84	3.799		
10,800.00	7,231.56	10,635.45	7,230.51	104.85	123.00	89.93	-1,062.65	-3,712.76	838.97	612.24	226.73	3.700		
10,900.00	7,230.96	10,735.45	7,229.98	107.53	126.19	89.93	-1,063.23	-3,812.76	838.97	606.33	232.64	3.606		
11,000.00	7,230.37	10,835.45	7,229.45	110.23	129.38	89.94	-1,063.82	-3,912.76	838.97	600.41	238.56	3.517		
11,100.00	7,229.77	10,935.45	7,228.92	112.93	132.58	89.94	-1,064.40	-4,012.75	838.97	594.48	244.49	3.431		
11,200.00	7,229.18	11,035.45	7,228.39	115.65	135.79	89.95	-1,064.99	-4,112.75	838.97	588.53	250.44	3.350		
11,300.00	7,228.58	11,135.45	7,227.87	118.37	139.00	89.95	-1,065.57	-4,212.75	838.97	582.57	256.40	3.272		
11,400.00	7,227.99	11,235.45	7,227.34	121.09	142.22	89.96	-1,066.15	-4,312.74	838.97	576.60	262.37	3.198		
11,500.00	7,227.39	11,335.45	7,226.81	123.82	145.44	89.96	-1,066.74	-4,412.74	838.97	570.62	268.34	3.126		
11,600.00	7,226.79	11,435.45	7,226.28	126.56	148.67	89.96	-1,067.32	-4,512.74	838.97	564.63	274.33	3.058		
11,700.00	7,226.20	11,535.45	7,225.75	129.30	151.90	89.97	-1,067.91	-4,612.73	838.97	558.64	280.33	2.993		
11,800.00	7,225.60	11,635.45	7,225.22	132.05	155.14	89.97	-1,068.49	-4,712.73	838.97	552.63	286.34	2.930		
11,900.00	7,225.01	11,735.45	7,224.69	134.80	158.38	89.98	-1,069.08	-4,812.73	838.97	546.61	292.35	2.870		
12,000.00	7,224.41	11,835.45	7,224.16	137.56	161.63	89.98	-1,069.66	-4,912.73	838.96	540.59	298.37	2.812		
12,100.00	7,223.81	11,935.45	7,223.64	140.32	164.88	89.99	-1,070.24	-5,012.72	838.96	534.56	304.40	2.756		
12,200.00	7,223.22	12,035.45	7,223.11	143.08	168.13	89.99	-1,070.83	-5,112.72	838.96	528.53	310.43	2.703		
12,300.00	7,222.62	12,135.45	7,222.58	145.85	171.38	90.00	-1,071.41	-5,212.72	838.96	522.49	316.47	2.651		
12,400.00	7,222.03	12,235.45	7,222.05	148.62	174.64	90.00	-1,072.00	-5,312.71	838.96	516.44	322.52	2.601		
12,500.00	7,221.43	12,335.45	7,221.52	151.40	177.90	90.01	-1,072.58	-5,412.71	838.96	510.39	328.57	2.553		
12,600.00	7,220.83	12,435.45	7,220.99	154.18	181.17	90.01	-1,073.17	-5,512.71	838.96	504.33	334.63	2.507		
12,700.00	7,220.24	12,535.45	7,220.46	156.96	184.44	90.02	-1,073.75	-5,612.70	838.96	498.27	340.69	2.463		
12,800.00	7,219.64	12,635.45	7,219.93	159.74	187.70	90.02	-1,074.34	-5,712.70	838.96	492.20	346.76	2.419		
12,900.00	7,219.05	12,735.45	7,219.41	162.53	190.98	90.02	-1,074.92	-5,812.70	838.96	486.13	352.83	2.378		
13,000.00	7,218.45	12,835.45	7,218.88	165.32	194.25	90.03	-1,075.50	-5,912.69	838.96	480.06	358.90	2.338		
13,100.00	7,217.86	12,935.45	7,218.35	168.11	197.52	90.03	-1,076.09	-6,012.69	838.96	473.98	364.98	2.299		
13,200.00	7,217.26	13,035.45	7,217.82	170.90	200.80	90.04	-1,076.67	-6,112.69	838.96	467.89	371.07	2.261		
13,300.00	7,216.66	13,135.45	7,217.29	173.70	204.08	90.04	-1,077.26	-6,212.68	838.96	461.81	377.15	2.224		
13,400.00	7,216.07	13,235.45	7,216.76	176.49	207.36	90.05	-1,077.84	-6,312.68	838.96	455.72	383.24	2.189		
13,500.00	7,215.47	13,335.45	7,216.23	179.29	210.64	90.05	-1,078.43	-6,412.68	838.96	449.62	389.33	2.155		
13,600.00	7,214.88	13,435.45	7,215.71	182.09	213.93	90.06	-1,079.01	-6,512.68	838.96	443.53	395.43	2.122		
13,700.00	7,214.28	13,535.45	7,215.18	184.90	217.21	90.06	-1,079.59	-6,612.67	838.96	437.43	401.53	2.089		
13,800.00	7,213.68	13,635.45	7,214.65	187.70	220.50	90.07	-1,080.18	-6,712.67	838.96	431.32	407.63	2.058		
13,900.00	7,213.09	13,735.45	7,214.12	190.51	223.79	90.07	-1,080.76	-6,812.67	838.95	425.22	413.74	2.028		
14,000.00	7,212.49	13,835.45	7,213.59	193.32	227.08	90.07	-1,081.35	-6,912.66	838.95	419.11	419.84	1.998		
14,100.00	7,211.90	13,935.45	7,213.06	196.13	230.37	90.08	-1,081.93	-7,012.66	838.95	413.00	425.95	1.970		
14,200.00	7,211.30	14,035.45	7,212.53	198.94	233.66	90.08	-1,082.52	-7,112.66	838.95	406.89	432.07	1.942		
14,300.00	7,210.71	14,135.45	7,212.00	201.75	236.96	90.09	-1,083.10	-7,212.65	838.95	400.77	438.18	1.915		
14,400.00	7,210.11	14,235.45	7,211.48	204.56	240.25	90.09	-1,083.68	-7,312.65	838.95	394.66	444.30	1.888		
14,500.00	7,209.51	14,335.45	7,210.95	207.38	243.55	90.10	-1,084.27	-7,412.65	838.95	388.54	450.41	1.863		
14,600.00	7,208.92	14,435.45	7,210.42	210.19	246.84	90.10	-1,084.85	-7,512.64	838.95	382.42	456.53	1.838		
14,700.00	7,208.32	14,535.45	7,209.89	213.01	250.14	90.11	-1,085.44	-7,612.64	838.95	376.29	462.66	1.813		
14,800.00	7,207.73	14,635.45	7,209.36	215.83	253.44	90.11	-1,086.02	-7,712.64	838.95	370.17	468.78	1.790		
14,900.00	7,207.13	14,735.45	7,208.83	218.65	256.74	90.12	-1,086.61	-7,812.63	838.95	364.04	474.91	1.767		
15,000.00	7,206.53	14,835.45	7,208.30	221.47	260.04	90.12	-1,087.19	-7,912.63	838.95	357.91	481.04	1.744		
15,100.00	7,205.94	14,935.45	7,207.77	224.29	263.34	90.13	-1,087.78	-8,012.63	838.95	351.78	487.16	1.722		
15,200.00	7,205.34	15,035.45	7,207.25	227.11	266.64	90.13	-1,088.36	-8,112.63	838.95	345.65	493.30	1.701		
15,253.64	7,205.02	15,089.09	7,206.96	228.62	268.41	90.13	-1,088.67	-8,166.26	838.95	342.36	496.58	1.689 SF		
15,258.04	7,205.00	15,081.89	7,207.00	228.75	268.17	90.13	-1,088.63	-8,159.06	839.03	342.89	496.14	1.691		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.48	199.65	1.67	199.66					
100.00	100.00	101.00	100.00	3.28	3.28	0.48	199.65	1.67	199.66	193.09	6.57	30.391		
200.00	200.00	201.00	200.00	3.34	3.34	0.48	199.65	1.67	199.66	192.98	6.67	29.912	CC, ES	
300.00	299.98	300.98	299.98	3.44	3.45	175.76	199.65	1.67	201.40	194.51	6.89	29.246		
400.00	399.84	400.84	399.84	3.59	3.60	175.86	199.65	1.67	206.62	199.42	7.20	28.709		
500.00	499.45	500.49	499.49	3.79	3.81	176.01	199.65	1.67	215.31	207.71	7.60	28.332		
600.00	598.70	607.84	606.81	4.03	4.05	176.08	197.72	1.04	225.68	217.59	8.09	27.890		
700.00	697.47	715.59	714.39	4.31	4.33	175.90	191.95	-0.86	235.94	227.29	8.66	27.254		
800.00	795.62	815.64	814.13	4.64	4.62	175.66	184.50	-3.30	247.59	238.34	9.25	26.763		
900.00	893.06	914.49	912.68	5.00	4.92	175.49	177.13	-5.72	262.67	252.78	9.89	26.554		
1,000.00	989.65	1,012.76	1,010.64	5.40	5.24	175.39	169.81	-8.12	281.18	270.60	10.58	26.579		
1,100.00	1,085.85	1,110.75	1,108.33	5.82	5.58	175.34	162.50	-10.52	301.12	289.83	11.29	26.678		
1,200.00	1,182.06	1,208.74	1,206.02	6.27	5.94	175.31	155.20	-12.92	321.06	309.04	12.03	26.699		
1,300.00	1,278.26	1,306.73	1,303.71	6.73	6.30	175.28	147.89	-15.31	341.00	328.22	12.79	26.667		
1,400.00	1,374.47	1,404.72	1,401.40	7.20	6.67	175.25	140.59	-17.71	360.95	347.38	13.57	26.599		
1,500.00	1,470.67	1,502.72	1,499.09	7.69	7.06	175.22	133.28	-20.11	380.89	366.52	14.37	26.506		
1,600.00	1,566.88	1,600.71	1,596.78	8.18	7.45	175.20	125.97	-22.50	400.83	385.65	15.18	26.398		
1,700.00	1,663.08	1,698.70	1,694.46	8.68	7.84	175.18	118.67	-24.90	420.77	404.76	16.01	26.281		
1,800.00	1,759.29	1,803.31	1,792.15	9.19	8.27	175.16	111.36	-27.30	440.72	423.84	16.87	26.119		
1,900.00	1,855.49	1,905.32	1,889.84	9.70	8.69	175.14	104.06	-29.69	460.66	442.92	17.74	25.974		
2,000.00	1,951.70	1,992.67	1,987.53	10.22	9.05	175.13	96.75	-32.09	480.60	462.06	18.55	25.915		
2,100.00	2,047.90	2,109.34	2,085.22	10.73	9.54	175.11	89.45	-34.49	500.55	481.06	19.48	25.692		
2,200.00	2,144.11	2,188.65	2,182.91	11.26	9.88	175.10	82.14	-36.88	520.49	500.22	20.27	25.677		
2,300.00	2,240.31	2,286.64	2,280.60	11.78	10.29	175.09	74.84	-39.28	540.43	519.29	21.14	25.563		
2,400.00	2,336.52	2,384.64	2,378.29	12.31	10.71	175.08	67.53	-41.68	560.37	538.36	22.02	25.452		
2,500.00	2,432.72	2,482.63	2,475.98	12.84	11.13	175.07	60.22	-44.08	580.32	557.42	22.90	25.346		
2,600.00	2,528.93	2,580.62	2,573.67	13.37	11.55	175.06	52.92	-46.47	600.26	576.48	23.78	25.244		
2,700.00	2,625.13	2,678.61	2,671.36	13.91	11.97	175.05	45.61	-48.87	620.20	595.54	24.66	25.146		
2,800.00	2,721.34	2,776.60	2,769.04	14.44	12.40	175.04	38.31	-51.27	640.14	614.59	25.55	25.052		
2,900.00	2,817.54	2,874.59	2,866.73	14.98	12.82	175.03	31.00	-53.66	660.09	633.64	26.44	24.962		
3,000.00	2,913.75	2,972.52	2,964.42	15.52	13.25	175.02	23.70	-56.06	680.03	652.69	27.34	24.876		
3,100.00	3,009.95	3,070.57	3,062.11	16.06	13.68	175.01	16.39	-58.46	699.97	671.74	28.23	24.793		
3,200.00	3,106.16	3,168.57	3,159.80	16.60	14.11	175.01	9.09	-60.85	719.92	690.79	29.13	24.714		
3,300.00	3,202.37	3,266.56	3,257.49	17.14	14.54	175.00	1.78	-63.25	739.86	709.83	30.03	24.638		
3,400.00	3,298.57	3,364.55	3,355.18	17.68	14.97	174.99	-5.52	-65.65	759.80	728.87	30.93	24.565		
3,500.00	3,394.78	3,462.54	3,452.87	18.22	15.40	174.99	-12.83	-68.04	779.75	747.91	31.83	24.496		
3,600.00	3,490.98	3,560.53	3,550.56	18.76	15.83	174.98	-20.14	-70.44	799.69	766.95	32.74	24.429		
3,700.00	3,587.19	3,658.52	3,648.25	19.31	16.26	174.98	-27.44	-72.84	819.63	785.99	33.64	24.365		
3,800.00	3,683.39	3,756.51	3,745.94	19.85	16.70	174.97	-34.75	-75.23	839.57	805.03	34.55	24.303		
3,900.00	3,779.60	3,854.50	3,843.62	20.39	17.13	174.97	-42.05	-77.63	859.52	824.06	35.45	24.244		
4,000.00	3,875.80	3,952.50	3,941.31	20.94	17.56	174.96	-49.36	-80.03	879.46	843.10	36.36	24.187		
4,100.00	3,972.01	4,050.49	4,039.00	21.48	18.00	174.96	-56.66	-82.42	899.40	862.13	37.27	24.133		
4,200.00	4,068.21	4,148.48	4,136.69	22.03	18.43	174.95	-63.97	-84.82	919.35	881.17	38.18	24.080		
4,300.00	4,164.42	4,246.47	4,234.38	22.57	18.87	174.95	-71.27	-87.22	939.29	900.20	39.09	24.030		
4,400.00	4,260.62	4,344.46	4,332.07	23.12	19.30	174.95	-78.58	-89.62	959.23	919.23	40.00	23.981		
4,500.00	4,356.83	4,442.45	4,429.76	23.67	19.74	174.94	-85.89	-92.01	979.17	938.26	40.91	23.934		
4,600.00	4,453.03	4,540.44	4,527.45	24.21	20.17	174.94	-93.19	-94.41	999.12	957.29	41.82	23.889		
4,700.00	4,549.24	4,638.43	4,625.14	24.76	20.61	174.94	-100.50	-96.81	1,019.06	976.32	42.74	23.845		
4,800.00	4,645.44	4,736.42	4,722.83	25.31	21.05	174.93	-107.80	-99.20	1,039.00	995.35	43.65	23.803		
4,900.00	4,741.65	4,834.42	4,820.52	25.86	21.48	174.93	-115.11	-101.60	1,058.95	1,014.38	44.56	23.763		
5,000.00	4,837.85	4,932.41	4,918.20	26.40	21.92	174.93	-122.41	-104.00	1,078.89	1,033.41	45.48	23.723		
5,100.00	4,934.06	5,030.40	5,015.89	26.95	22.36	174.92	-129.72	-106.39	1,098.83	1,052.44	46.39	23.685		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,128.39	5,113.58	27.50	22.80	174.92	-137.02	-108.79	1,118.78	1,071.47	47.31	23.649		
5,300.00	5,126.47	5,226.38	5,211.27	28.05	23.23	174.92	-144.33	-111.19	1,138.72	1,090.50	48.22	23.613		
5,400.00	5,222.67	5,324.37	5,308.96	28.60	23.67	174.92	-151.63	-113.58	1,158.66	1,109.52	49.14	23.579		
5,500.00	5,318.88	5,422.36	5,406.65	29.15	24.11	174.91	-158.94	-115.98	1,178.60	1,128.55	50.06	23.546		
5,600.00	5,415.08	5,520.35	5,504.34	29.70	24.55	174.91	-166.25	-118.38	1,198.55	1,147.57	50.97	23.513		
5,700.00	5,511.29	5,618.35	5,602.03	30.25	24.99	174.91	-173.55	-120.77	1,218.49	1,166.60	51.89	23.482		
5,800.00	5,607.49	5,716.34	5,699.72	30.79	25.43	174.91	-180.86	-123.17	1,238.43	1,185.63	52.81	23.452		
5,900.00	5,703.70	5,814.33	5,797.41	31.34	25.86	174.90	-188.16	-125.57	1,258.38	1,204.65	53.73	23.422		
6,000.00	5,799.90	5,912.32	5,895.10	31.89	26.30	174.90	-195.47	-127.96	1,278.32	1,223.68	54.64	23.394		
6,100.00	5,896.11	6,010.31	5,992.78	32.44	26.74	174.90	-202.77	-130.36	1,298.26	1,242.70	55.56	23.366		
6,200.00	5,992.32	6,108.30	6,090.47	32.99	27.18	174.90	-210.08	-132.76	1,318.21	1,261.73	56.48	23.339		
6,300.00	6,088.52	6,206.29	6,188.16	33.54	27.62	174.90	-217.38	-135.16	1,338.15	1,280.75	57.40	23.313		
6,400.00	6,184.73	6,304.28	6,285.85	34.09	28.06	174.89	-224.69	-137.55	1,358.09	1,299.77	58.32	23.287		
6,500.00	6,280.93	6,402.27	6,383.54	34.64	28.50	174.89	-232.00	-139.95	1,378.04	1,318.80	59.24	23.263		
6,600.00	6,377.14	6,500.27	6,481.23	35.19	28.94	174.89	-239.30	-142.35	1,397.98	1,337.82	60.16	23.238		
6,700.00	6,473.34	6,601.74	6,578.92	35.74	29.39	174.89	-246.61	-144.74	1,417.92	1,356.83	61.09	23.209		
6,800.00	6,569.55	6,696.53	6,676.77	36.29	29.82	174.79	-253.94	-149.43	1,437.86	1,375.86	62.00	23.191		
6,900.00	6,665.75	6,792.61	6,770.85	36.84	30.24	169.26	-261.10	-167.06	1,457.86	1,394.95	62.90	23.176		
7,000.00	6,761.11	6,885.25	6,858.07	37.39	30.64	140.53	-267.85	-197.32	1,477.93	1,414.17	63.76	23.180		
7,100.00	6,853.41	6,975.69	6,938.10	37.89	31.00	122.44	-274.16	-238.78	1,497.55	1,432.99	64.57	23.193		
7,200.00	6,940.36	7,064.34	7,010.10	38.34	31.34	111.28	-279.94	-290.06	1,516.20	1,450.86	65.34	23.205		
7,300.00	7,019.83	7,151.56	7,073.33	38.74	31.68	103.91	-285.15	-349.82	1,533.34	1,467.23	66.11	23.195		
7,400.00	7,089.85	7,237.68	7,127.19	39.10	32.06	98.77	-289.71	-416.78	1,548.51	1,481.58	66.94	23.134		
7,500.00	7,148.71	7,322.94	7,171.15	39.42	32.56	95.10	-293.58	-489.65	1,561.32	1,493.41	67.91	22.992		
7,600.00	7,194.95	7,407.55	7,204.80	39.71	33.19	92.53	-296.72	-567.15	1,571.40	1,502.32	69.08	22.746		
7,700.00	7,227.43	7,491.70	7,227.81	40.01	33.96	90.85	-299.09	-647.99	1,578.51	1,507.97	70.54	22.379		
7,800.00	7,245.37	7,575.52	7,239.96	40.37	34.86	89.94	-300.67	-730.85	1,582.45	1,510.17	72.28	21.893		
7,900.00	7,248.84	7,665.05	7,241.86	40.87	35.94	89.75	-301.53	-820.32	1,583.21	1,508.81	74.40	21.280		
8,000.00	7,248.24	7,765.05	7,241.46	41.62	37.31	89.76	-302.32	-920.32	1,583.01	1,505.98	77.02	20.552		
8,100.00	7,247.65	7,865.05	7,241.07	42.66	38.85	89.76	-303.10	-1,020.31	1,582.81	1,502.84	79.96	19.794		
8,200.00	7,247.05	7,965.05	7,240.68	43.96	40.52	89.77	-303.88	-1,120.31	1,582.61	1,499.42	83.19	19.024		
8,300.00	7,246.46	8,065.05	7,240.29	45.46	42.33	89.78	-304.66	-1,220.31	1,582.41	1,495.73	86.68	18.257		
8,400.00	7,245.86	8,165.05	7,239.89	47.13	44.24	89.78	-305.45	-1,320.30	1,582.21	1,491.82	90.39	17.504		
8,500.00	7,245.27	8,265.05	7,239.50	48.93	46.25	89.79	-306.23	-1,420.30	1,582.01	1,487.71	94.30	16.776		
8,600.00	7,244.67	8,365.05	7,239.11	50.84	48.35	89.80	-307.01	-1,520.29	1,581.81	1,483.42	98.39	16.077		
8,700.00	7,244.07	8,465.05	7,238.71	52.85	50.53	89.81	-307.79	-1,620.29	1,581.61	1,478.97	102.64	15.410		
8,800.00	7,243.48	8,565.05	7,238.32	54.94	52.77	89.81	-308.57	-1,720.28	1,581.41	1,474.39	107.02	14.777		
8,900.00	7,242.88	8,665.05	7,237.93	57.10	55.06	89.82	-309.36	-1,820.28	1,581.21	1,469.69	111.52	14.178		
9,000.00	7,242.29	8,765.05	7,237.53	59.32	57.41	89.83	-310.14	-1,920.28	1,581.01	1,464.88	116.13	13.614		
9,100.00	7,241.69	8,865.05	7,237.14	61.60	59.80	89.84	-310.92	-2,020.27	1,580.82	1,459.98	120.84	13.082		
9,200.00	7,241.09	8,965.05	7,236.75	63.92	62.23	89.84	-311.70	-2,120.27	1,580.62	1,454.99	125.63	12.582		
9,300.00	7,240.50	9,065.05	7,236.35	66.29	64.70	89.85	-312.49	-2,220.26	1,580.42	1,449.93	130.49	12.111		
9,400.00	7,239.90	9,165.05	7,235.96	68.70	67.19	89.86	-313.27	-2,320.26	1,580.22	1,444.80	135.42	11.669		
9,500.00	7,239.31	9,265.05	7,235.57	71.14	69.72	89.87	-314.05	-2,420.26	1,580.02	1,439.61	140.41	11.253		
9,600.00	7,238.71	9,365.04	7,235.17	73.61	72.27	89.87	-314.83	-2,520.25	1,579.82	1,434.37	145.45	10.861		
9,700.00	7,238.11	9,465.04	7,234.78	76.11	74.84	89.88	-315.61	-2,620.25	1,579.62	1,429.07	150.55	10.493		
9,800.00	7,237.52	9,565.04	7,234.39	78.64	77.43	89.89	-316.40	-2,720.24	1,579.42	1,423.74	155.68	10.145		
9,900.00	7,236.92	9,665.04	7,233.99	81.19	80.04	89.89	-317.18	-2,820.24	1,579.22	1,418.37	160.86	9.818		
10,000.00	7,236.33	9,765.04	7,233.60	83.75	82.67	89.90	-317.96	-2,920.23	1,579.03	1,412.96	166.07	9.508		
10,100.00	7,235.73	9,865.04	7,233.21	86.34	85.31	89.91	-318.74	-3,020.23	1,578.83	1,407.52	171.31	9.216		
10,200.00	7,235.14	9,965.04	7,232.81	88.94	87.97	89.92	-319.53	-3,120.23	1,578.63	1,402.05	176.58	8.940		
10,300.00	7,234.54	10,065.04	7,232.42	91.56	90.64	89.92	-320.31	-3,220.22	1,578.43	1,396.55	181.88	8.678		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	7,233.94	10,165.04	7,232.03	94.19	93.31	89.93	-321.09	-3,320.22	1,578.23	1,391.03	187.20	8.431		
10,500.00	7,233.35	10,265.04	7,231.63	96.84	96.00	89.94	-321.87	-3,420.21	1,578.03	1,385.48	192.55	8.195		
10,600.00	7,232.75	10,365.04	7,231.24	99.50	98.70	89.95	-322.65	-3,520.21	1,577.83	1,379.92	197.92	7.972		
10,700.00	7,232.16	10,465.04	7,230.85	102.17	101.41	89.95	-323.44	-3,620.20	1,577.63	1,374.33	203.30	7.760		
10,800.00	7,231.56	10,565.04	7,230.45	104.85	104.13	89.96	-324.22	-3,720.20	1,577.44	1,368.73	208.71	7.558		
10,900.00	7,230.96	10,665.04	7,230.06	107.53	106.85	89.97	-325.00	-3,820.20	1,577.24	1,363.11	214.13	7.366		
11,000.00	7,230.37	10,765.04	7,229.67	110.23	109.58	89.98	-325.78	-3,920.19	1,577.04	1,357.48	219.56	7.183		
11,100.00	7,229.77	10,865.04	7,229.27	112.93	112.32	89.98	-326.57	-4,020.19	1,576.84	1,351.83	225.01	7.008		
11,200.00	7,229.18	10,965.04	7,228.88	115.65	115.06	89.99	-327.35	-4,120.18	1,576.64	1,346.17	230.47	6.841		
11,300.00	7,228.58	11,065.04	7,228.49	118.37	117.81	90.00	-328.13	-4,220.18	1,576.44	1,340.50	235.95	6.681		
11,400.00	7,227.99	11,165.04	7,228.09	121.09	120.56	90.00	-328.91	-4,320.17	1,576.24	1,334.81	241.43	6.529		
11,500.00	7,227.39	11,265.04	7,227.70	123.82	123.32	90.01	-329.69	-4,420.17	1,576.05	1,329.12	246.93	6.383		
11,600.00	7,226.79	11,365.04	7,227.31	126.56	126.08	90.02	-330.48	-4,520.17	1,575.85	1,323.41	252.44	6.243		
11,700.00	7,226.20	11,465.04	7,226.91	129.30	128.84	90.03	-331.26	-4,620.16	1,575.65	1,317.70	257.95	6.108		
11,800.00	7,225.60	11,565.04	7,226.52	132.05	131.61	90.03	-332.04	-4,720.16	1,575.45	1,311.98	263.47	5.980		
11,900.00	7,225.01	11,665.04	7,226.13	134.80	134.39	90.04	-332.82	-4,820.15	1,575.25	1,306.25	269.01	5.856		
12,000.00	7,224.41	11,765.04	7,225.73	137.56	137.17	90.05	-333.60	-4,920.15	1,575.05	1,300.51	274.55	5.737		
12,100.00	7,223.81	11,865.03	7,225.34	140.32	139.95	90.06	-334.39	-5,020.15	1,574.86	1,294.76	280.09	5.623		
12,200.00	7,223.22	11,965.03	7,224.95	143.08	142.73	90.06	-335.17	-5,120.14	1,574.66	1,289.01	285.65	5.513		
12,300.00	7,222.62	12,065.03	7,224.55	145.85	145.52	90.07	-335.95	-5,220.14	1,574.46	1,283.25	291.21	5.407		
12,400.00	7,222.03	12,165.03	7,224.16	148.62	148.31	90.08	-336.73	-5,320.13	1,574.26	1,277.49	296.77	5.305		
12,500.00	7,221.43	12,265.03	7,223.77	151.40	151.10	90.09	-337.52	-5,420.13	1,574.06	1,271.72	302.34	5.206		
12,600.00	7,220.83	12,365.03	7,223.37	154.18	153.89	90.09	-338.30	-5,520.12	1,573.87	1,265.95	307.92	5.111		
12,700.00	7,220.24	12,465.03	7,222.98	156.96	156.69	90.10	-339.08	-5,620.12	1,573.67	1,260.17	313.50	5.020		
12,800.00	7,219.64	12,565.03	7,222.59	159.74	159.49	90.11	-339.86	-5,720.12	1,573.47	1,254.38	319.09	4.931		
12,900.00	7,219.05	12,665.03	7,222.19	162.53	162.29	90.12	-340.64	-5,820.11	1,573.27	1,248.59	324.68	4.846		
13,000.00	7,218.45	12,765.03	7,221.80	165.32	165.09	90.12	-341.43	-5,920.11	1,573.07	1,242.80	330.28	4.763		
13,100.00	7,217.86	12,865.03	7,221.41	168.11	167.90	90.13	-342.21	-6,020.10	1,572.88	1,237.00	335.87	4.683		
13,200.00	7,217.26	12,965.03	7,221.01	170.90	170.70	90.14	-342.99	-6,120.10	1,572.68	1,231.20	341.48	4.605		
13,300.00	7,216.66	13,065.03	7,220.62	173.70	173.51	90.14	-343.77	-6,220.09	1,572.48	1,225.39	347.09	4.531		
13,400.00	7,216.07	13,165.03	7,220.23	176.49	176.32	90.15	-344.56	-6,320.09	1,572.28	1,219.59	352.70	4.458		
13,500.00	7,215.47	13,265.03	7,219.83	179.29	179.13	90.16	-345.34	-6,420.09	1,572.08	1,213.77	358.31	4.387		
13,600.00	7,214.88	13,365.03	7,219.44	182.09	181.95	90.17	-346.12	-6,520.08	1,571.89	1,207.96	363.93	4.319		
13,700.00	7,214.28	13,465.03	7,219.05	184.90	184.76	90.17	-346.90	-6,620.08	1,571.69	1,202.14	369.55	4.253		
13,800.00	7,213.68	13,565.03	7,218.65	187.70	187.58	90.18	-347.68	-6,720.07	1,571.49	1,196.32	375.17	4.189		
13,900.00	7,213.09	13,665.03	7,218.26	190.51	190.39	90.19	-348.47	-6,820.07	1,571.29	1,190.49	380.80	4.126		
14,000.00	7,212.49	13,765.03	7,217.87	193.32	193.21	90.20	-349.25	-6,920.06	1,571.09	1,184.67	386.43	4.066		
14,100.00	7,211.90	13,865.03	7,217.47	196.13	196.03	90.20	-350.03	-7,020.06	1,570.90	1,178.84	392.06	4.007		
14,200.00	7,211.30	13,965.03	7,217.08	198.94	198.85	90.21	-350.81	-7,120.06	1,570.70	1,173.01	397.69	3.950		
14,300.00	7,210.71	14,065.03	7,216.69	201.75	201.67	90.22	-351.60	-7,220.05	1,570.50	1,167.17	403.33	3.894		
14,400.00	7,210.11	14,165.03	7,216.29	204.56	204.49	90.23	-352.38	-7,320.05	1,570.30	1,161.34	408.97	3.840		
14,500.00	7,209.51	14,265.03	7,215.90	207.38	207.32	90.23	-353.16	-7,420.04	1,570.11	1,155.50	414.61	3.787		
14,600.00	7,208.92	14,365.02	7,215.51	210.19	210.14	90.24	-353.94	-7,520.04	1,569.91	1,149.66	420.25	3.736		
14,700.00	7,208.32	14,465.02	7,215.11	213.01	212.97	90.25	-354.72	-7,620.04	1,569.71	1,143.82	425.89	3.686		
14,800.00	7,207.73	14,565.02	7,214.72	215.83	215.79	90.26	-355.51	-7,720.03	1,569.51	1,137.97	431.54	3.637		
14,900.00	7,207.13	14,665.02	7,214.33	218.65	218.62	90.26	-356.29	-7,820.03	1,569.32	1,132.13	437.19	3.590		
15,000.00	7,206.53	14,765.02	7,213.93	221.47	221.45	90.27	-357.07	-7,920.02	1,569.12	1,126.28	442.84	3.543		
15,100.00	7,205.94	14,865.02	7,213.54	224.29	224.28	90.28	-357.85	-8,020.02	1,568.92	1,120.43	448.49	3.498		
15,200.00	7,205.34	14,965.02	7,213.15	227.11	227.11	90.29	-358.64	-8,120.01	1,568.72	1,114.58	454.14	3.454		
15,247.63	7,205.06	15,012.65	7,212.96	228.45	228.45	90.29	-359.01	-8,167.64	1,568.63	1,111.79	456.84	3.434 SF		
15,258.04	7,205.00	15,002.44	7,213.00	228.75	228.16	90.29	-358.93	-8,157.43	1,568.74	1,112.05	456.69	3.435		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	0.00	0.00	3.28	3.28	0.48	99.83	0.83	99.84					
100.00	100.00	100.00	100.00	3.28	3.28	0.48	99.83	0.83	99.84	93.27	6.57	15.197		
200.00	200.00	200.00	200.00	3.34	3.34	0.48	99.83	0.83	99.84	93.16	6.67	14.959 CC, ES		
300.00	299.98	299.98	299.98	3.44	3.44	175.80	99.83	0.83	101.58	94.69	6.88	14.753		
400.00	399.84	403.61	403.59	3.59	3.60	175.84	97.99	0.51	105.01	97.81	7.20	14.582		
500.00	499.45	507.37	507.18	3.79	3.80	175.71	92.44	-0.45	108.36	100.74	7.62	14.220		
600.00	598.70	611.24	610.63	4.03	4.05	175.40	83.19	-2.05	111.61	103.48	8.13	13.725		
700.00	697.47	715.24	713.79	4.31	4.33	174.94	70.23	-4.30	114.78	106.06	8.72	13.163		
800.00	795.62	814.76	812.31	4.64	4.63	174.55	56.37	-6.71	119.94	110.62	9.32	12.876		
900.00	893.06	914.38	910.93	5.00	4.97	174.34	42.49	-9.12	128.56	118.59	9.97	12.900		
1,000.00	989.65	1,013.65	1,009.20	5.40	5.32	174.29	28.65	-11.52	140.62	129.95	10.67	13.183		
1,100.00	1,085.85	1,112.73	1,107.28	5.82	5.69	174.32	14.84	-13.92	154.13	142.74	11.40	13.526		
1,200.00	1,182.06	1,211.81	1,205.37	6.27	6.07	174.35	1.03	-16.32	167.64	155.49	12.15	13.793		
1,300.00	1,278.26	1,310.90	1,303.45	6.73	6.47	174.38	-12.79	-18.72	181.16	168.22	12.94	14.002		
1,400.00	1,374.47	1,409.98	1,401.54	7.20	6.87	174.40	-26.60	-21.12	194.67	180.93	13.74	14.166		
1,500.00	1,470.67	1,509.06	1,499.63	7.69	7.29	174.41	-40.41	-23.51	208.18	193.62	14.56	14.295		
1,600.00	1,566.88	1,608.14	1,597.71	8.18	7.71	174.43	-54.22	-25.91	221.70	206.30	15.40	14.396		
1,700.00	1,663.08	1,707.23	1,695.80	8.68	8.13	174.44	-68.03	-28.31	235.21	218.96	16.25	14.476		
1,800.00	1,759.29	1,806.31	1,793.88	9.19	8.56	174.45	-81.85	-30.71	248.72	231.62	17.11	14.540		
1,900.00	1,855.49	1,905.39	1,891.97	9.70	8.99	174.46	-95.66	-33.10	262.24	244.26	17.97	14.590		
2,000.00	1,951.70	2,004.47	1,990.06	10.22	9.43	174.47	-109.47	-35.50	275.75	256.90	18.85	14.629		
2,100.00	2,047.90	2,103.56	2,088.14	10.73	9.87	174.48	-123.28	-37.90	289.26	269.53	19.73	14.660		
2,200.00	2,144.11	2,202.64	2,186.23	11.26	10.31	174.49	-137.09	-40.30	302.78	282.16	20.62	14.684		
2,300.00	2,240.31	2,301.72	2,284.31	11.78	10.76	174.50	-150.90	-42.70	316.29	294.78	21.51	14.703		
2,400.00	2,336.52	2,400.81	2,382.40	12.31	11.21	174.51	-164.72	-45.09	329.80	307.39	22.41	14.718		
2,500.00	2,432.72	2,500.11	2,480.49	12.84	11.66	174.51	-178.53	-47.49	343.32	320.00	23.31	14.728		
2,600.00	2,528.93	2,598.97	2,578.57	13.37	12.11	174.52	-192.34	-49.89	356.83	332.61	24.21	14.736		
2,700.00	2,625.13	2,701.95	2,676.66	13.91	12.58	174.52	-206.15	-52.29	370.34	345.20	25.14	14.732		
2,800.00	2,721.34	2,802.86	2,774.74	14.44	13.04	174.53	-219.96	-54.69	383.85	357.80	26.06	14.731		
2,900.00	2,817.54	2,903.78	2,872.83	14.98	13.50	174.53	-233.78	-57.08	397.37	370.39	26.98	14.729		
3,000.00	2,913.75	2,995.30	2,970.92	15.52	13.92	174.54	-247.59	-59.48	410.88	383.02	27.86	14.747		
3,100.00	3,009.95	3,094.39	3,069.00	16.06	14.38	174.54	-261.40	-61.88	424.39	395.62	28.78	14.747		
3,200.00	3,106.16	3,206.53	3,167.09	16.60	14.90	174.54	-275.21	-64.28	437.91	408.15	29.76	14.717		
3,300.00	3,202.37	3,307.45	3,265.17	17.14	15.36	174.55	-289.02	-66.67	451.42	420.74	30.69	14.711		
3,400.00	3,298.57	3,408.37	3,363.26	17.68	15.83	174.55	-302.83	-69.07	464.93	433.32	31.62	14.706		
3,500.00	3,394.78	3,509.28	3,461.35	18.22	16.30	174.56	-316.65	-71.47	478.45	445.90	32.55	14.700		
3,600.00	3,490.98	3,589.80	3,559.43	18.76	16.67	174.56	-330.46	-73.87	491.96	458.57	33.39	14.733		
3,700.00	3,587.19	3,688.88	3,657.52	19.31	17.14	174.56	-344.27	-76.27	505.47	471.16	34.32	14.729		
3,800.00	3,683.39	3,787.96	3,755.60	19.85	17.60	174.56	-358.08	-78.66	518.99	483.74	35.24	14.725		
3,900.00	3,779.60	3,887.05	3,853.69	20.39	18.06	174.57	-371.89	-81.06	532.50	496.33	36.17	14.721		
4,000.00	3,875.80	3,986.13	3,951.78	20.94	18.52	174.57	-385.71	-83.46	546.01	508.91	37.10	14.716		
4,100.00	3,972.01	4,085.21	4,049.86	21.48	18.98	174.57	-399.52	-85.86	559.53	521.49	38.03	14.711		
4,200.00	4,068.21	4,184.30	4,147.95	22.03	19.45	174.57	-413.33	-88.26	573.04	534.08	38.96	14.707		
4,300.00	4,164.42	4,283.38	4,246.04	22.57	19.91	174.58	-427.14	-90.65	586.55	546.66	39.90	14.702		
4,400.00	4,260.62	4,382.46	4,344.12	23.12	20.37	174.58	-440.95	-93.05	600.07	559.24	40.83	14.697		
4,500.00	4,356.83	4,481.54	4,442.21	23.67	20.84	174.58	-454.76	-95.45	613.58	571.82	41.76	14.692		
4,600.00	4,453.03	4,580.63	4,540.29	24.21	21.30	174.58	-468.58	-97.85	627.09	584.40	42.70	14.687		
4,700.00	4,549.24	4,679.71	4,638.38	24.76	21.77	174.58	-482.39	-100.25	640.61	596.98	43.63	14.682		
4,800.00	4,645.44	4,778.79	4,736.47	25.31	22.23	174.58	-496.20	-102.64	654.12	609.55	44.57	14.678		
4,900.00	4,741.65	4,877.87	4,834.55	25.86	22.70	174.59	-510.01	-105.04	667.63	622.13	45.50	14.673		
5,000.00	4,837.85	4,976.96	4,932.64	26.40	23.16	174.59	-523.82	-107.44	681.15	634.71	46.44	14.668		
5,100.00	4,934.06	5,076.04	5,030.72	26.95	23.63	174.59	-537.63	-109.84	694.66	647.29	47.37	14.663		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,175.12	5,128.81	27.50	24.09	174.59	-551.45	-112.23	708.17	659.86	48.31	14.659		
5,300.00	5,126.47	5,274.21	5,226.90	28.05	24.56	174.59	-565.26	-114.63	721.69	672.44	49.25	14.654		
5,400.00	5,222.67	5,373.29	5,324.98	28.60	25.03	174.59	-579.07	-117.03	735.20	685.01	50.19	14.649		
5,500.00	5,318.88	5,472.37	5,423.07	29.15	25.49	174.59	-592.88	-119.43	748.71	697.59	51.12	14.645		
5,600.00	5,415.08	5,571.45	5,521.15	29.70	25.96	174.60	-606.69	-121.83	762.23	710.16	52.06	14.641		
5,700.00	5,511.29	5,670.54	5,619.24	30.25	26.42	174.60	-620.51	-124.22	775.74	722.74	53.00	14.636		
5,800.00	5,607.49	5,769.62	5,717.33	30.79	26.89	174.60	-634.32	-126.62	789.25	735.31	53.94	14.632		
5,900.00	5,703.70	5,868.70	5,815.41	31.34	27.36	174.60	-648.13	-129.02	802.77	747.89	54.88	14.628		
6,000.00	5,799.90	5,967.79	5,913.50	31.89	27.83	174.60	-661.94	-131.42	816.28	760.46	55.82	14.624		
6,100.00	5,896.11	6,066.87	6,011.58	32.44	28.29	174.60	-675.75	-133.82	829.79	773.03	56.76	14.620		
6,200.00	5,992.32	6,165.95	6,109.67	32.99	28.76	174.60	-689.56	-136.21	843.31	785.61	57.70	14.616		
6,300.00	6,088.52	6,265.03	6,207.76	33.54	29.23	174.60	-703.38	-138.61	856.82	798.18	58.64	14.612		
6,400.00	6,184.73	6,364.12	6,305.84	34.09	29.69	174.60	-717.19	-141.01	870.33	810.75	59.58	14.608		
6,500.00	6,280.93	6,463.20	6,403.93	34.64	30.16	174.61	-731.00	-143.41	883.85	823.32	60.52	14.604		
6,600.00	6,377.14	6,561.98	6,501.61	35.19	30.63	174.47	-744.77	-147.89	897.37	835.90	61.46	14.600		
6,700.00	6,473.34	6,658.11	6,595.14	35.74	31.07	173.52	-758.07	-165.16	911.09	848.70	62.39	14.604		
6,800.00	6,569.55	6,747.87	6,679.22	36.29	31.46	171.86	-770.14	-193.95	925.71	862.45	63.25	14.635		
6,900.00	6,665.75	6,828.82	6,750.93	36.84	31.79	164.90	-780.54	-229.93	942.33	878.32	64.01	14.721		
7,000.00	6,761.11	6,904.29	6,813.20	37.39	32.08	135.10	-789.65	-271.49	960.83	896.19	64.63	14.865		
7,100.00	6,853.41	6,977.21	6,868.33	37.89	32.34	116.05	-797.81	-318.46	979.99	914.87	65.12	15.050		
7,200.00	6,940.36	7,050.00	6,917.69	38.34	32.60	104.02	-805.21	-371.39	998.93	933.44	65.49	15.252		
7,300.00	7,019.83	7,117.64	6,957.92	38.74	32.84	95.98	-811.34	-425.38	1,016.83	951.10	65.73	15.470		
7,400.00	7,089.85	7,185.95	6,992.55	39.10	33.12	90.26	-816.71	-483.97	1,033.00	967.01	65.99	15.654		
7,500.00	7,148.71	7,250.00	7,019.20	39.42	33.44	86.18	-820.96	-542.03	1,046.83	980.56	66.27	15.796		
7,600.00	7,194.95	7,320.18	7,041.60	39.71	33.92	83.24	-824.69	-608.39	1,057.82	990.92	66.90	15.812		
7,700.00	7,227.43	7,386.52	7,056.01	40.01	34.48	81.34	-827.28	-673.07	1,065.63	997.89	67.75	15.730		
7,800.00	7,245.37	7,450.00	7,063.49	40.37	35.12	80.33	-828.87	-736.06	1,070.01	1,001.12	68.89	15.532		
7,900.00	7,248.84	7,529.79	7,064.87	40.87	36.05	80.11	-829.76	-815.81	1,070.87	1,000.14	70.73	15.141		
8,000.00	7,248.24	7,629.79	7,064.47	41.62	37.37	80.12	-830.57	-915.80	1,070.61	997.33	73.28	14.610		
8,100.00	7,247.65	7,729.78	7,064.08	42.66	38.87	80.13	-831.38	-1,015.80	1,070.35	994.18	76.17	14.052		
8,200.00	7,247.05	7,829.78	7,063.69	43.96	40.52	80.13	-832.19	-1,115.79	1,070.09	990.73	79.36	13.485		
8,300.00	7,246.46	7,929.78	7,063.29	45.46	42.31	80.14	-833.01	-1,215.79	1,069.83	987.03	82.81	12.920		
8,400.00	7,245.86	8,029.78	7,062.90	47.13	44.20	80.15	-833.82	-1,315.78	1,069.57	983.09	86.49	12.367		
8,500.00	7,245.27	8,129.78	7,062.51	48.93	46.20	80.16	-834.63	-1,415.78	1,069.31	978.94	90.37	11.833		
8,600.00	7,244.67	8,229.78	7,062.11	50.84	48.29	80.17	-835.44	-1,515.77	1,069.05	974.62	94.43	11.321		
8,700.00	7,244.07	8,329.78	7,061.72	52.85	50.45	80.18	-836.25	-1,615.77	1,068.79	970.14	98.65	10.834		
8,800.00	7,243.48	8,429.78	7,061.33	54.94	52.68	80.19	-837.06	-1,715.77	1,068.53	965.53	103.00	10.374		
8,900.00	7,242.88	8,529.78	7,060.93	57.10	54.96	80.19	-837.88	-1,815.76	1,068.28	960.79	107.48	9.939		
9,000.00	7,242.29	8,629.78	7,060.54	59.32	57.30	80.20	-838.69	-1,915.76	1,068.02	955.95	112.06	9.531		
9,100.00	7,241.69	8,729.78	7,060.15	61.60	59.69	80.21	-839.50	-2,015.75	1,067.76	951.02	116.74	9.147		
9,200.00	7,241.09	8,829.78	7,059.76	63.92	62.11	80.22	-840.31	-2,115.75	1,067.50	946.00	121.50	8.786		
9,300.00	7,240.50	8,929.78	7,059.36	66.29	64.57	80.23	-841.12	-2,215.74	1,067.24	940.91	126.33	8.448		
9,400.00	7,239.90	9,029.78	7,058.97	68.70	67.06	80.24	-841.93	-2,315.74	1,066.98	935.75	131.23	8.131		
9,500.00	7,239.31	9,129.78	7,058.58	71.14	69.58	80.25	-842.75	-2,415.73	1,066.72	930.54	136.18	7.833		
9,600.00	7,238.71	9,229.78	7,058.18	73.61	72.13	80.25	-843.56	-2,515.73	1,066.46	925.27	141.19	7.553		
9,700.00	7,238.11	9,329.78	7,057.79	76.11	74.70	80.26	-844.37	-2,615.72	1,066.20	919.95	146.25	7.290		
9,800.00	7,237.52	9,429.78	7,057.40	78.64	77.29	80.27	-845.18	-2,715.72	1,065.94	914.60	151.35	7.043		
9,900.00	7,236.92	9,529.78	7,057.00	81.19	79.89	80.28	-845.99	-2,815.72	1,065.68	909.20	156.48	6.810		
10,000.00	7,236.33	9,629.78	7,056.61	83.75	82.52	80.29	-846.81	-2,915.71	1,065.43	903.77	161.65	6.591		
10,100.00	7,235.73	9,729.78	7,056.22	86.34	85.15	80.30	-847.62	-3,015.71	1,065.17	898.31	166.85	6.384		
10,200.00	7,235.14	9,829.78	7,055.82	88.94	87.81	80.31	-848.43	-3,115.70	1,064.91	892.82	172.09	6.188		
10,300.00	7,234.54	9,929.77	7,055.43	91.56	90.47	80.32	-849.24	-3,215.70	1,064.65	887.31	177.34	6.003		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	10,029.77	7,055.04	94.19	93.15	80.32	-850.05	-3,315.69	1,064.39	881.77	182.62	5.828		
10,500.00	7,233.35	10,129.77	7,054.64	96.84	95.84	80.33	-850.86	-3,415.69	1,064.13	876.21	187.93	5.663		
10,600.00	7,232.75	10,229.77	7,054.25	99.50	98.53	80.34	-851.68	-3,515.68	1,063.87	870.62	193.25	5.505		
10,700.00	7,232.16	10,329.77	7,053.86	102.17	101.24	80.35	-852.49	-3,615.68	1,063.61	865.02	198.59	5.356		
10,800.00	7,231.56	10,429.77	7,053.46	104.85	103.95	80.36	-853.30	-3,715.68	1,063.36	859.41	203.95	5.214		
10,900.00	7,230.96	10,529.77	7,053.07	107.53	106.67	80.37	-854.11	-3,815.67	1,063.10	853.78	209.32	5.079		
11,000.00	7,230.37	10,629.77	7,052.68	110.23	109.40	80.38	-854.92	-3,915.67	1,062.84	848.13	214.71	4.950		
11,100.00	7,229.77	10,729.77	7,052.29	112.93	112.14	80.39	-855.73	-4,015.66	1,062.58	842.47	220.11	4.827		
11,200.00	7,229.18	10,829.77	7,051.89	115.65	114.88	80.39	-856.55	-4,115.66	1,062.32	836.79	225.53	4.710		
11,300.00	7,228.58	10,929.77	7,051.50	118.37	117.62	80.40	-857.36	-4,215.65	1,062.06	831.11	230.95	4.599		
11,400.00	7,227.99	11,029.77	7,051.11	121.09	120.37	80.41	-858.17	-4,315.65	1,061.80	825.41	236.39	4.492		
11,500.00	7,227.39	11,129.77	7,050.71	123.82	123.13	80.42	-858.98	-4,415.64	1,061.55	819.71	241.84	4.389		
11,600.00	7,226.79	11,229.77	7,050.32	126.56	125.89	80.43	-859.79	-4,515.64	1,061.29	813.99	247.30	4.292		
11,700.00	7,226.20	11,329.77	7,049.93	129.30	128.66	80.44	-860.60	-4,615.63	1,061.03	808.27	252.76	4.198		
11,800.00	7,225.60	11,429.77	7,049.53	132.05	131.43	80.45	-861.42	-4,715.63	1,060.77	802.53	258.24	4.108		
11,900.00	7,225.01	11,529.77	7,049.14	134.80	134.20	80.46	-862.23	-4,815.63	1,060.51	796.79	263.72	4.021		
12,000.00	7,224.41	11,629.77	7,048.75	137.56	136.98	80.46	-863.04	-4,915.62	1,060.25	791.04	269.21	3.938		
12,100.00	7,223.81	11,729.77	7,048.35	140.32	139.76	80.47	-863.85	-5,015.62	1,060.00	785.29	274.71	3.859		
12,200.00	7,223.22	11,829.77	7,047.96	143.08	142.54	80.48	-864.66	-5,115.61	1,059.74	779.53	280.21	3.782		
12,300.00	7,222.62	11,929.77	7,047.57	145.85	145.32	80.49	-865.47	-5,215.61	1,059.48	773.76	285.72	3.708		
12,400.00	7,222.03	12,029.77	7,047.17	148.62	148.11	80.50	-866.29	-5,315.60	1,059.22	767.98	291.24	3.637		
12,500.00	7,221.43	12,129.76	7,046.78	151.40	150.90	80.51	-867.10	-5,415.60	1,058.96	762.20	296.76	3.568		
12,600.00	7,220.83	12,229.76	7,046.39	154.18	153.70	80.52	-867.91	-5,515.59	1,058.70	756.42	302.28	3.502		
12,700.00	7,220.24	12,329.76	7,045.99	156.96	156.49	80.53	-868.72	-5,615.59	1,058.45	750.63	307.82	3.439		
12,800.00	7,219.64	12,429.76	7,045.60	159.74	159.29	80.53	-869.53	-5,715.58	1,058.19	744.84	313.35	3.377		
12,900.00	7,219.05	12,529.76	7,045.21	162.53	162.09	80.54	-870.35	-5,815.58	1,057.93	739.04	318.89	3.318		
13,000.00	7,218.45	12,629.76	7,044.82	165.32	164.89	80.55	-871.16	-5,915.58	1,057.67	733.23	324.44	3.260		
13,100.00	7,217.86	12,729.76	7,044.42	168.11	167.70	80.56	-871.97	-6,015.57	1,057.41	727.43	329.99	3.204		
13,200.00	7,217.26	12,829.76	7,044.03	170.90	170.50	80.57	-872.78	-6,115.57	1,057.15	721.61	335.54	3.151		
13,300.00	7,216.66	12,929.76	7,043.64	173.70	173.31	80.58	-873.59	-6,215.56	1,056.90	715.80	341.10	3.099		
13,400.00	7,216.07	13,029.76	7,043.24	176.49	176.12	80.59	-874.40	-6,315.56	1,056.64	709.98	346.66	3.048		
13,500.00	7,215.47	13,129.76	7,042.85	179.29	178.93	80.60	-875.22	-6,415.55	1,056.38	704.16	352.22	2.999		
13,600.00	7,214.88	13,229.76	7,042.46	182.09	181.74	80.60	-876.03	-6,515.55	1,056.12	698.33	357.79	2.952		
13,700.00	7,214.28	13,329.76	7,042.06	184.90	184.56	80.61	-876.84	-6,615.54	1,055.86	692.51	363.36	2.906		
13,800.00	7,213.68	13,429.76	7,041.67	187.70	187.37	80.62	-877.65	-6,715.54	1,055.61	686.67	368.93	2.861		
13,900.00	7,213.09	13,529.76	7,041.28	190.51	190.19	80.63	-878.46	-6,815.53	1,055.35	680.84	374.51	2.818		
14,000.00	7,212.49	13,629.76	7,040.88	193.32	193.01	80.64	-879.27	-6,915.53	1,055.09	675.00	380.09	2.776		
14,100.00	7,211.90	13,729.76	7,040.49	196.13	195.82	80.65	-880.09	-7,015.53	1,054.83	669.16	385.67	2.735		
14,200.00	7,211.30	13,829.76	7,040.10	198.94	198.64	80.66	-880.90	-7,115.52	1,054.58	663.32	391.25	2.695		
14,300.00	7,210.71	13,929.76	7,039.70	201.75	201.47	80.67	-881.71	-7,215.52	1,054.32	657.48	396.84	2.657		
14,400.00	7,210.11	14,029.76	7,039.31	204.56	204.29	80.68	-882.52	-7,315.51	1,054.06	651.63	402.43	2.619		
14,500.00	7,209.51	14,129.76	7,038.92	207.38	207.11	80.68	-883.33	-7,415.51	1,053.80	645.78	408.02	2.583		
14,600.00	7,208.92	14,229.75	7,038.52	210.19	209.93	80.69	-884.14	-7,515.50	1,053.54	639.93	413.61	2.547		
14,700.00	7,208.32	14,329.75	7,038.13	213.01	212.76	80.70	-884.96	-7,615.50	1,053.29	634.08	419.21	2.513		
14,800.00	7,207.73	14,429.75	7,037.74	215.83	215.58	80.71	-885.77	-7,715.49	1,053.03	628.22	424.81	2.479		
14,900.00	7,207.13	14,529.75	7,037.35	218.65	218.41	80.72	-886.58	-7,815.49	1,052.77	622.37	430.41	2.446		
15,000.00	7,206.53	14,629.75	7,036.95	221.47	221.24	80.73	-887.39	-7,915.48	1,052.51	616.51	436.01	2.414		
15,100.00	7,205.94	14,729.75	7,036.56	224.29	224.07	80.74	-888.20	-8,015.48	1,052.26	610.65	441.61	2.383		
15,200.00	7,205.34	14,829.75	7,036.17	227.11	226.90	80.75	-889.01	-8,115.48	1,052.00	604.78	447.22	2.352		
15,246.43	7,205.07	14,876.18	7,035.98	228.42	228.21	80.75	-889.39	-8,161.90	1,051.88	602.06	449.82	2.338 SF		
15,258.04	7,205.00	14,871.88	7,036.00	228.75	228.09	80.75	-889.36	-8,157.60	1,051.97	602.16	449.81	2.339		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.53	179.98	1.67	179.99					
100.00	100.00	101.00	100.00	3.28	3.28	0.53	179.98	1.67	179.99	173.42	6.57	27.397		
200.00	200.00	201.00	200.00	3.34	3.34	0.53	179.98	1.67	179.99	173.32	6.67	26.965 CC, ES		
300.00	299.98	300.98	299.98	3.44	3.45	175.82	179.98	1.67	181.73	174.84	6.89	26.390		
400.00	399.84	400.84	399.84	3.59	3.60	175.92	179.98	1.67	186.95	179.75	7.20	25.976		
500.00	499.45	500.45	499.45	3.79	3.81	176.09	179.98	1.67	195.65	188.05	7.60	25.744		
600.00	598.70	601.21	600.21	4.03	4.05	176.31	179.91	1.65	207.73	199.65	8.08	25.708		
700.00	697.47	708.17	707.13	4.31	4.31	176.42	177.19	1.02	220.82	212.19	8.63	25.588		
800.00	795.62	815.68	814.41	4.64	4.62	176.37	170.55	-0.54	233.74	224.48	9.26	25.254		
900.00	893.06	921.58	919.78	5.00	4.95	176.20	160.27	-2.94	246.56	236.63	9.93	24.831		
1,000.00	989.65	1,020.41	1,018.00	5.40	5.27	176.04	149.60	-5.43	261.75	251.13	10.62	24.653		
1,100.00	1,085.85	1,119.02	1,116.00	5.82	5.61	175.95	138.95	-7.92	278.39	267.06	11.33	24.575		
1,200.00	1,182.06	1,217.62	1,214.00	6.27	5.97	175.86	128.31	-10.41	295.03	282.96	12.07	24.441		
1,300.00	1,278.26	1,316.23	1,312.00	6.73	6.34	175.78	117.66	-12.89	311.67	298.83	12.84	24.275		
1,400.00	1,374.47	1,414.83	1,409.99	7.20	6.72	175.71	107.02	-15.38	328.31	314.69	13.63	24.090		
1,500.00	1,470.67	1,513.44	1,507.99	7.69	7.11	175.65	96.37	-17.87	344.96	330.52	14.44	23.896		
1,600.00	1,566.88	1,612.04	1,605.99	8.18	7.51	175.59	85.73	-20.36	361.60	346.34	15.26	23.700		
1,700.00	1,663.08	1,710.65	1,703.98	8.68	7.91	175.54	75.08	-22.84	378.24	362.15	16.09	23.506		
1,800.00	1,759.29	1,809.25	1,801.98	9.19	8.32	175.49	64.44	-25.33	394.88	377.95	16.94	23.316		
1,900.00	1,855.49	1,907.86	1,899.98	9.70	8.74	175.45	53.79	-27.82	411.53	393.74	17.79	23.132		
2,000.00	1,951.70	2,006.46	1,997.97	10.22	9.16	175.41	43.15	-30.31	428.17	409.52	18.65	22.955		
2,100.00	2,047.90	2,105.06	2,095.97	10.73	9.58	175.37	32.50	-32.79	444.81	425.29	19.52	22.786		
2,200.00	2,144.11	2,203.67	2,193.97	11.26	10.00	175.34	21.86	-35.28	461.46	441.06	20.40	22.625		
2,300.00	2,240.31	2,302.27	2,291.97	11.78	10.43	175.31	11.21	-37.77	478.10	456.83	21.28	22.471		
2,400.00	2,336.52	2,400.88	2,389.96	12.31	10.86	175.28	0.57	-40.26	494.75	472.59	22.16	22.325		
2,500.00	2,432.72	2,500.52	2,487.96	12.84	11.30	175.25	-10.08	-42.74	511.39	488.34	23.05	22.182		
2,600.00	2,528.93	2,601.91	2,585.96	13.37	11.74	175.22	-20.72	-45.23	528.04	504.08	23.96	22.040		
2,700.00	2,625.13	2,696.69	2,683.95	13.91	12.16	175.20	-31.37	-47.72	544.68	519.84	24.84	21.930		
2,800.00	2,721.34	2,804.70	2,781.95	14.44	12.64	175.18	-42.01	-50.21	561.32	535.55	25.78	21.776		
2,900.00	2,817.54	2,906.10	2,879.95	14.98	13.09	175.15	-52.66	-52.69	577.97	551.28	26.69	21.655		
3,000.00	2,913.75	3,007.49	2,977.94	15.52	13.54	175.13	-63.30	-55.18	594.61	567.01	27.61	21.539		
3,100.00	3,009.95	3,108.89	3,075.94	16.06	13.99	175.11	-73.95	-57.67	611.26	582.73	28.52	21.430		
3,200.00	3,106.16	3,189.72	3,173.94	16.60	14.36	175.10	-84.59	-60.16	627.90	598.55	29.35	21.391		
3,300.00	3,202.37	3,288.32	3,271.93	17.14	14.80	175.08	-95.24	-62.64	644.55	614.29	30.26	21.298		
3,400.00	3,298.57	3,386.93	3,369.93	17.68	15.24	175.06	-105.88	-65.13	661.19	630.02	31.17	21.210		
3,500.00	3,394.78	3,485.53	3,467.93	18.22	15.68	175.05	-116.53	-67.62	677.84	645.75	32.09	21.125		
3,600.00	3,490.98	3,584.14	3,565.93	18.76	16.13	175.03	-127.17	-70.11	694.48	661.48	33.00	21.045		
3,700.00	3,587.19	3,682.74	3,663.92	19.31	16.57	175.02	-137.82	-72.59	711.13	677.21	33.92	20.968		
3,800.00	3,683.39	3,781.35	3,761.92	19.85	17.02	175.00	-148.46	-75.08	727.77	692.94	34.83	20.894		
3,900.00	3,779.60	3,879.95	3,859.92	20.39	17.47	174.99	-159.11	-77.57	744.42	708.67	35.75	20.824		
4,000.00	3,875.80	3,978.56	3,957.91	20.94	17.91	174.98	-169.75	-80.06	761.06	724.40	36.67	20.756		
4,100.00	3,972.01	4,077.16	4,055.91	21.48	18.36	174.96	-180.40	-82.54	777.71	740.12	37.59	20.691		
4,200.00	4,068.21	4,175.77	4,153.91	22.03	18.81	174.95	-191.04	-85.03	794.35	755.85	38.51	20.629		
4,300.00	4,164.42	4,274.37	4,251.90	22.57	19.25	174.94	-201.69	-87.52	811.00	771.57	39.43	20.570		
4,400.00	4,260.62	4,372.98	4,349.90	23.12	19.70	174.93	-212.33	-90.01	827.65	787.30	40.35	20.513		
4,500.00	4,356.83	4,471.58	4,447.90	23.67	20.15	174.92	-222.98	-92.49	844.29	803.02	41.27	20.458		
4,600.00	4,453.03	4,570.19	4,545.90	24.21	20.60	174.91	-233.62	-94.98	860.94	818.74	42.19	20.405		
4,700.00	4,549.24	4,668.79	4,643.89	24.76	21.05	174.90	-244.27	-97.47	877.58	834.47	43.12	20.354		
4,800.00	4,645.44	4,767.39	4,741.89	25.31	21.50	174.89	-254.91	-99.96	894.23	850.19	44.04	20.305		
4,900.00	4,741.65	4,866.00	4,839.89	25.86	21.95	174.88	-265.56	-102.44	910.87	865.91	44.96	20.258		
5,000.00	4,837.85	4,964.60	4,937.88	26.40	22.40	174.88	-276.20	-104.93	927.52	881.63	45.89	20.212		
5,100.00	4,934.06	5,063.21	5,035.88	26.95	22.85	174.87	-286.85	-107.42	944.16	897.35	46.82	20.168		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,200.00	5,030.26	5,161.81	5,133.88	27.50	23.30	174.86	-297.49	-109.91	960.81	913.07	47.74	20.125		
5,300.00	5,126.47	5,260.42	5,231.87	28.05	23.75	174.85	-308.14	-112.39	977.45	928.79	48.67	20.084		
5,400.00	5,222.67	5,359.02	5,329.87	28.60	24.20	174.85	-318.78	-114.88	994.10	944.51	49.59	20.045		
5,500.00	5,318.88	5,457.63	5,427.87	29.15	24.65	174.84	-329.43	-117.37	1,010.75	960.22	50.52	20.006		
5,600.00	5,415.08	5,556.23	5,525.86	29.70	25.10	174.83	-340.07	-119.86	1,027.39	975.94	51.45	19.969		
5,700.00	5,511.29	5,654.84	5,623.86	30.25	25.56	174.83	-350.72	-122.34	1,044.04	991.66	52.38	19.933		
5,800.00	5,607.49	5,753.44	5,721.86	30.79	26.01	174.82	-361.37	-124.83	1,060.68	1,007.38	53.30	19.899		
5,900.00	5,703.70	5,852.05	5,819.86	31.34	26.46	174.81	-372.01	-127.32	1,077.33	1,023.10	54.23	19.865		
6,000.00	5,799.90	5,950.65	5,917.85	31.89	26.91	174.81	-382.66	-129.81	1,093.97	1,038.81	55.16	19.832		
6,100.00	5,896.11	6,049.26	6,015.85	32.44	27.36	174.80	-393.30	-132.29	1,110.62	1,054.53	56.09	19.801		
6,200.00	5,992.32	6,147.86	6,113.85	32.99	27.81	174.79	-403.95	-134.78	1,127.27	1,070.25	57.02	19.770		
6,300.00	6,088.52	6,246.47	6,211.84	33.54	28.27	174.79	-414.59	-137.27	1,143.91	1,085.96	57.95	19.740		
6,400.00	6,184.73	6,345.07	6,309.84	34.09	28.72	174.78	-425.24	-139.76	1,160.56	1,101.68	58.88	19.711		
6,500.00	6,280.93	6,443.68	6,407.84	34.64	29.17	174.78	-435.88	-142.24	1,177.20	1,117.39	59.81	19.683		
6,600.00	6,377.14	6,542.28	6,505.83	35.19	29.62	174.77	-446.53	-144.73	1,193.85	1,133.11	60.74	19.655		
6,700.00	6,473.34	6,640.39	6,602.87	35.74	30.07	174.46	-457.12	-153.59	1,210.51	1,148.84	61.67	19.629		
6,800.00	6,569.55	6,734.38	6,693.51	36.29	30.49	173.51	-467.13	-175.98	1,227.43	1,164.87	62.56	19.620		
6,900.00	6,665.75	6,820.86	6,773.18	36.84	30.85	167.21	-476.03	-208.24	1,245.30	1,181.92	63.38	19.648		
7,000.00	6,761.11	6,901.98	6,843.32	37.39	31.18	137.96	-483.97	-248.12	1,264.13	1,200.01	64.12	19.715		
7,100.00	6,853.41	6,980.34	6,905.75	37.89	31.47	119.39	-491.12	-294.85	1,283.11	1,218.33	64.79	19.806		
7,200.00	6,940.36	7,056.56	6,960.55	38.34	31.75	107.81	-497.50	-347.37	1,301.55	1,236.17	65.38	19.907		
7,300.00	7,019.83	7,131.11	7,007.73	38.74	32.04	100.08	-503.08	-404.76	1,318.78	1,252.83	65.95	19.997		
7,400.00	7,089.85	7,204.37	7,047.29	39.10	32.38	94.64	-507.88	-466.19	1,334.21	1,267.67	66.55	20.050		
7,500.00	7,148.71	7,276.67	7,079.20	39.42	32.82	90.74	-511.87	-530.90	1,347.35	1,280.09	67.26	20.032		
7,600.00	7,194.95	7,350.00	7,103.90	39.71	33.38	87.99	-515.12	-599.83	1,357.79	1,289.60	68.19	19.912		
7,700.00	7,227.43	7,419.30	7,119.85	40.01	34.03	86.19	-517.40	-667.20	1,365.18	1,295.85	69.33	19.690		
7,800.00	7,245.37	7,490.04	7,128.53	40.37	34.79	85.23	-518.92	-737.35	1,369.33	1,298.53	70.80	19.342		
7,900.00	7,248.84	7,570.79	7,129.85	40.87	35.76	85.02	-519.73	-818.06	1,370.16	1,297.42	72.73	18.838		
8,000.00	7,248.24	7,670.79	7,129.41	41.62	37.13	85.02	-520.51	-918.06	1,369.95	1,294.61	75.34	18.183		
8,100.00	7,247.65	7,770.79	7,128.98	42.66	38.66	85.03	-521.29	-1,018.05	1,369.75	1,291.47	78.27	17.499		
8,200.00	7,247.05	7,870.79	7,128.54	43.96	40.33	85.04	-522.06	-1,118.05	1,369.54	1,288.04	81.50	16.805		
8,300.00	7,246.46	7,970.79	7,128.11	45.46	42.13	85.04	-522.84	-1,218.04	1,369.33	1,284.35	84.98	16.113		
8,400.00	7,245.86	8,070.79	7,127.68	47.13	44.05	85.05	-523.62	-1,318.04	1,369.12	1,280.43	88.69	15.436		
8,500.00	7,245.27	8,170.79	7,127.24	48.93	46.07	85.05	-524.39	-1,418.04	1,368.92	1,276.31	92.61	14.782		
8,600.00	7,244.67	8,270.79	7,126.81	50.84	48.17	85.06	-525.17	-1,518.03	1,368.71	1,272.01	96.70	14.154		
8,700.00	7,244.07	8,370.79	7,126.37	52.85	50.34	85.07	-525.95	-1,618.03	1,368.50	1,267.55	100.95	13.556		
8,800.00	7,243.48	8,470.79	7,125.94	54.94	52.58	85.07	-526.73	-1,718.02	1,368.30	1,262.96	105.34	12.990		
8,900.00	7,242.88	8,570.79	7,125.51	57.10	54.88	85.08	-527.50	-1,818.02	1,368.09	1,258.25	109.85	12.455		
9,000.00	7,242.29	8,670.79	7,125.07	59.32	57.23	85.08	-528.28	-1,918.01	1,367.88	1,253.42	114.46	11.951		
9,100.00	7,241.69	8,770.79	7,124.64	61.60	59.62	85.09	-529.06	-2,018.01	1,367.68	1,248.51	119.17	11.477		
9,200.00	7,241.09	8,870.79	7,124.21	63.92	62.06	85.10	-529.84	-2,118.01	1,367.47	1,243.51	123.96	11.032		
9,300.00	7,240.50	8,970.79	7,123.77	66.29	64.52	85.10	-530.61	-2,218.00	1,367.26	1,238.44	128.82	10.613		
9,400.00	7,239.90	9,070.79	7,123.34	68.70	67.02	85.11	-531.39	-2,318.00	1,367.06	1,233.30	133.76	10.221		
9,500.00	7,239.31	9,170.79	7,122.90	71.14	69.55	85.12	-532.17	-2,417.99	1,366.85	1,228.10	138.75	9.851		
9,600.00	7,238.71	9,270.79	7,122.47	73.61	72.10	85.12	-532.95	-2,517.99	1,366.64	1,222.85	143.79	9.504		
9,700.00	7,238.11	9,370.79	7,122.04	76.11	74.68	85.13	-533.72	-2,617.98	1,366.44	1,217.56	148.88	9.178		
9,800.00	7,237.52	9,470.79	7,121.60	78.64	77.27	85.13	-534.50	-2,717.98	1,366.23	1,212.22	154.01	8.871		
9,900.00	7,236.92	9,570.79	7,121.17	81.19	79.88	85.14	-535.28	-2,817.98	1,366.02	1,206.84	159.19	8.581		
10,000.00	7,236.33	9,670.79	7,120.73	83.75	82.51	85.15	-536.06	-2,917.97	1,365.82	1,201.42	164.39	8.308		
10,100.00	7,235.73	9,770.78	7,120.30	86.34	85.15	85.15	-536.83	-3,017.97	1,365.61	1,195.98	169.63	8.050		
10,200.00	7,235.14	9,870.78	7,119.87	88.94	87.81	85.16	-537.61	-3,117.96	1,365.40	1,190.50	174.90	7.807		
10,300.00	7,234.54	9,970.78	7,119.43	91.56	90.48	85.16	-538.39	-3,217.96	1,365.20	1,185.00	180.20	7.576		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,400.00	7,233.94	10,070.78	7,119.00	94.19	93.16	85.17	-539.16	-3,317.95	1,364.99	1,179.47	185.52	7.358		
10,500.00	7,233.35	10,170.78	7,118.56	96.84	95.85	85.18	-539.94	-3,417.95	1,364.78	1,173.93	190.86	7.151		
10,600.00	7,232.75	10,270.78	7,118.13	99.50	98.55	85.18	-540.72	-3,517.95	1,364.58	1,168.36	196.22	6.954		
10,700.00	7,232.16	10,370.78	7,117.70	102.17	101.26	85.19	-541.50	-3,617.94	1,364.37	1,162.77	201.60	6.768		
10,800.00	7,231.56	10,470.78	7,117.26	104.85	103.98	85.19	-542.27	-3,717.94	1,364.17	1,157.16	207.00	6.590		
10,900.00	7,230.96	10,570.78	7,116.83	107.53	106.70	85.20	-543.05	-3,817.93	1,363.96	1,151.54	212.41	6.421		
11,000.00	7,230.37	10,670.78	7,116.39	110.23	109.43	85.21	-543.83	-3,917.93	1,363.75	1,145.91	217.84	6.260		
11,100.00	7,229.77	10,770.78	7,115.96	112.93	112.17	85.21	-544.61	-4,017.92	1,363.55	1,140.26	223.29	6.107		
11,200.00	7,229.18	10,870.78	7,115.53	115.65	114.91	85.22	-545.38	-4,117.92	1,363.34	1,134.60	228.74	5.960		
11,300.00	7,228.58	10,970.78	7,115.09	118.37	117.66	85.22	-546.16	-4,217.92	1,363.13	1,128.92	234.21	5.820		
11,400.00	7,227.99	11,070.78	7,114.66	121.09	120.42	85.23	-546.94	-4,317.91	1,362.93	1,123.24	239.69	5.686		
11,500.00	7,227.39	11,170.78	7,114.23	123.82	123.17	85.24	-547.72	-4,417.91	1,362.72	1,117.54	245.18	5.558		
11,600.00	7,226.79	11,270.78	7,113.79	126.56	125.94	85.24	-548.49	-4,517.90	1,362.51	1,111.84	250.67	5.435		
11,700.00	7,226.20	11,370.78	7,113.36	129.30	128.70	85.25	-549.27	-4,617.90	1,362.31	1,106.13	256.18	5.318		
11,800.00	7,225.60	11,470.78	7,112.92	132.05	131.48	85.26	-550.05	-4,717.89	1,362.10	1,100.40	261.70	5.205		
11,900.00	7,225.01	11,570.78	7,112.49	134.80	134.25	85.26	-550.83	-4,817.89	1,361.89	1,094.67	267.22	5.097		
12,000.00	7,224.41	11,670.78	7,112.06	137.56	137.03	85.27	-551.60	-4,917.89	1,361.69	1,088.94	272.75	4.992		
12,100.00	7,223.81	11,770.78	7,111.62	140.32	139.81	85.27	-552.38	-5,017.88	1,361.48	1,083.19	278.29	4.892		
12,200.00	7,223.22	11,870.78	7,111.19	143.08	142.59	85.28	-553.16	-5,117.88	1,361.28	1,077.44	283.84	4.796		
12,300.00	7,222.62	11,970.78	7,110.75	145.85	145.38	85.29	-553.93	-5,217.87	1,361.07	1,071.68	289.39	4.703		
12,400.00	7,222.03	12,070.78	7,110.32	148.62	148.17	85.29	-554.71	-5,317.87	1,360.86	1,065.92	294.94	4.614		
12,500.00	7,221.43	12,170.78	7,109.89	151.40	150.96	85.30	-555.49	-5,417.86	1,360.66	1,060.15	300.51	4.528		
12,600.00	7,220.83	12,270.78	7,109.45	154.18	153.76	85.30	-556.27	-5,517.86	1,360.45	1,054.38	306.08	4.445		
12,700.00	7,220.24	12,370.78	7,109.02	156.96	156.56	85.31	-557.04	-5,617.86	1,360.24	1,048.60	311.65	4.365		
12,800.00	7,219.64	12,470.78	7,108.58	159.74	159.36	85.32	-557.82	-5,717.85	1,360.04	1,042.81	317.23	4.287		
12,900.00	7,219.05	12,570.78	7,108.15	162.53	162.16	85.32	-558.60	-5,817.85	1,359.83	1,037.02	322.81	4.212		
13,000.00	7,218.45	12,670.78	7,107.72	165.32	164.96	85.33	-559.38	-5,917.84	1,359.63	1,031.23	328.40	4.140		
13,100.00	7,217.86	12,770.78	7,107.28	168.11	167.77	85.34	-560.15	-6,017.84	1,359.42	1,025.43	333.99	4.070		
13,200.00	7,217.26	12,870.78	7,106.85	170.90	170.57	85.34	-560.93	-6,117.83	1,359.21	1,019.63	339.58	4.003		
13,300.00	7,216.66	12,970.77	7,106.41	173.70	173.38	85.35	-561.71	-6,217.83	1,359.01	1,013.83	345.18	3.937		
13,400.00	7,216.07	13,070.77	7,105.98	176.49	176.19	85.35	-562.49	-6,317.83	1,358.80	1,008.02	350.78	3.874		
13,500.00	7,215.47	13,170.77	7,105.55	179.29	179.00	85.36	-563.26	-6,417.82	1,358.60	1,002.21	356.39	3.812		
13,600.00	7,214.88	13,270.77	7,105.11	182.09	181.82	85.37	-564.04	-6,517.82	1,358.39	996.39	362.00	3.753		
13,700.00	7,214.28	13,370.77	7,104.68	184.90	184.63	85.37	-564.82	-6,617.81	1,358.18	990.58	367.61	3.695		
13,800.00	7,213.68	13,470.77	7,104.25	187.70	187.45	85.38	-565.60	-6,717.81	1,357.98	984.76	373.22	3.639		
13,900.00	7,213.09	13,570.77	7,103.81	190.51	190.27	85.38	-566.37	-6,817.80	1,357.77	978.93	378.84	3.584		
14,000.00	7,212.49	13,670.77	7,103.38	193.32	193.08	85.39	-567.15	-6,917.80	1,357.57	973.11	384.46	3.531		
14,100.00	7,211.90	13,770.77	7,102.94	196.13	195.90	85.40	-567.93	-7,017.80	1,357.36	967.28	390.08	3.480		
14,200.00	7,211.30	13,870.77	7,102.51	198.94	198.72	85.40	-568.70	-7,117.79	1,357.15	961.45	395.71	3.430		
14,300.00	7,210.71	13,970.77	7,102.08	201.75	201.55	85.41	-569.48	-7,217.79	1,356.95	955.62	401.33	3.381		
14,400.00	7,210.11	14,070.77	7,101.64	204.56	204.37	85.42	-570.26	-7,317.78	1,356.74	949.78	406.96	3.334		
14,500.00	7,209.51	14,170.77	7,101.21	207.38	207.19	85.42	-571.04	-7,417.78	1,356.54	943.94	412.59	3.288		
14,600.00	7,208.92	14,270.77	7,100.77	210.19	210.02	85.43	-571.81	-7,517.77	1,356.33	938.10	418.23	3.243		
14,700.00	7,208.32	14,370.77	7,100.34	213.01	212.84	85.43	-572.59	-7,617.77	1,356.12	932.26	423.86	3.199		
14,800.00	7,207.73	14,470.77	7,099.91	215.83	215.67	85.44	-573.37	-7,717.77	1,355.92	926.42	429.50	3.157		
14,900.00	7,207.13	14,570.77	7,099.47	218.65	218.50	85.45	-574.15	-7,817.76	1,355.71	920.57	435.14	3.116		
15,000.00	7,206.53	14,670.77	7,099.04	221.47	221.32	85.45	-574.92	-7,917.76	1,355.51	914.72	440.78	3.075		
15,100.00	7,205.94	14,770.77	7,098.60	224.29	224.15	85.46	-575.70	-8,017.75	1,355.30	908.88	446.43	3.036		
15,200.00	7,205.34	14,870.77	7,098.17	227.11	226.98	85.46	-576.48	-8,117.75	1,355.10	903.03	452.07	2.998		
15,250.15	7,205.04	14,920.92	7,097.95	228.53	228.40	85.47	-576.87	-8,167.90	1,354.99	900.09	454.90	2.979 SF		
15,258.04	7,205.00	14,909.96	7,098.00	228.75	228.09	85.47	-576.78	-8,156.94	1,355.11	900.47	454.64	2.981		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	0.00	0.00	3.28	3.28	180.00	-20.02	0.00	20.02					
100.00	100.00	100.00	100.00	3.28	3.28	180.00	-20.02	0.00	20.02	13.45	6.57	3.048		
200.00	200.00	200.00	200.00	3.34	3.34	180.00	-20.02	0.00	20.02	13.35	6.67	3.000		
300.00	299.98	299.31	299.29	3.44	3.44	-4.79	-21.74	-0.13	20.01	13.12	6.89	2.905		
400.00	399.84	398.62	398.46	3.59	3.59	-4.89	-26.88	-0.53	19.98	12.76	7.21	2.770		
500.00	499.45	497.93	497.39	3.79	3.79	-5.06	-35.45	-1.18	19.92	12.28	7.64	2.608		
600.00	598.70	597.24	595.97	4.03	4.03	-5.31	-47.44	-2.10	19.84	11.69	8.15	2.435		
700.00	697.47	696.56	694.07	4.31	4.30	-5.62	-62.82	-3.28	19.74	11.01	8.73	2.261		
800.00	795.62	795.88	791.59	4.64	4.62	-6.01	-81.59	-4.72	19.63	10.25	9.37	2.094		
900.00	893.06	895.20	888.40	5.00	4.98	-6.47	-103.71	-6.42	19.49	9.42	10.06	1.936		
987.75	977.89	982.36	972.67	5.35	5.32	-6.90	-125.88	-8.12	19.46	8.75	10.71	1.817		
1,000.00	989.65	994.53	984.39	5.40	5.37	-7.01	-129.18	-8.38	19.34	8.54	10.80	1.791 CC		
1,100.00	1,085.85	1,094.32	1,079.39	5.82	5.80	-6.90	-157.93	-10.58	21.18	9.61	11.56	1.831		
1,200.00	1,182.06	1,206.24	1,174.50	6.27	6.32	-6.36	-188.52	-12.93	24.75	12.36	12.39	1.998		
1,300.00	1,278.26	1,306.31	1,269.61	6.73	6.79	-5.95	-219.12	-15.28	28.32	15.12	13.20	2.146		
1,400.00	1,374.47	1,406.37	1,364.72	7.20	7.29	-5.64	-249.71	-17.62	31.89	17.86	14.03	2.273		
1,500.00	1,470.67	1,506.43	1,459.83	7.69	7.79	-5.39	-280.31	-19.97	35.46	20.57	14.89	2.382		
1,600.00	1,566.88	1,606.50	1,554.93	8.18	8.31	-5.18	-310.90	-22.32	39.03	23.27	15.76	2.476		
1,700.00	1,663.08	1,706.56	1,650.04	8.68	8.83	-5.01	-341.50	-24.67	42.61	25.95	16.66	2.558		
1,800.00	1,759.29	1,806.63	1,745.15	9.19	9.36	-4.87	-372.09	-27.01	46.18	28.62	17.56	2.630		
1,900.00	1,855.49	1,906.69	1,840.26	9.70	9.90	-4.74	-402.69	-29.36	49.76	31.28	18.48	2.693		
2,000.00	1,951.70	2,006.75	1,935.37	10.22	10.44	-4.64	-433.28	-31.71	53.33	33.93	19.40	2.749		
2,100.00	2,047.90	2,106.82	2,030.48	10.73	10.98	-4.54	-463.88	-34.06	56.91	36.57	20.34	2.798		
2,200.00	2,144.11	2,206.88	2,125.59	11.26	11.53	-4.46	-494.47	-36.40	60.48	39.20	21.28	2.843		
2,300.00	2,240.31	2,306.94	2,220.69	11.78	12.08	-4.39	-525.07	-38.75	64.06	41.83	22.22	2.882		
2,400.00	2,336.52	2,407.01	2,315.80	12.31	12.63	-4.32	-555.66	-41.10	67.63	44.45	23.18	2.918		
2,500.00	2,432.72	2,507.07	2,410.91	12.84	13.19	-4.26	-586.26	-43.45	71.21	47.07	24.13	2.951		
2,600.00	2,528.93	2,607.14	2,506.02	13.37	13.74	-4.21	-616.85	-45.79	74.78	49.69	25.10	2.980		
2,700.00	2,625.13	2,707.20	2,601.13	13.91	14.30	-4.16	-647.45	-48.14	78.36	52.30	26.06	3.007		
2,800.00	2,721.34	2,807.26	2,696.24	14.44	14.86	-4.12	-678.04	-50.49	81.93	54.90	27.03	3.031		
2,900.00	2,817.54	2,907.33	2,791.35	14.98	15.42	-4.08	-708.64	-52.84	85.51	57.50	28.00	3.054		
3,000.00	2,913.75	3,007.39	2,886.45	15.52	15.99	-4.04	-739.23	-55.19	89.08	60.10	28.98	3.074		
3,100.00	3,009.95	3,107.46	2,981.56	16.06	16.55	-4.00	-769.83	-57.53	92.66	62.70	29.95	3.093		
3,200.00	3,106.16	3,192.48	3,076.67	16.60	17.03	-3.97	-800.42	-59.88	96.23	65.37	30.86	3.118		
3,300.00	3,202.37	3,307.58	3,171.78	17.14	17.68	-3.94	-831.02	-62.23	99.81	67.89	31.92	3.127		
3,400.00	3,298.57	3,407.65	3,266.89	17.68	18.25	-3.91	-861.61	-64.58	103.38	70.48	32.90	3.142		
3,500.00	3,394.78	3,492.29	3,362.00	18.22	18.73	-3.89	-892.21	-66.92	106.96	73.15	33.81	3.164		
3,600.00	3,490.98	3,607.78	3,457.11	18.76	19.39	-3.87	-922.81	-69.27	110.53	75.66	34.87	3.170		
3,700.00	3,587.19	3,707.84	3,552.21	19.31	19.96	-3.84	-953.40	-71.62	114.11	78.25	35.86	3.182		
3,800.00	3,683.39	3,792.10	3,647.32	19.85	20.44	-3.82	-984.00	-73.97	117.69	80.91	36.77	3.201		
3,900.00	3,779.60	3,907.97	3,742.43	20.39	21.10	-3.80	-1,014.59	-76.31	121.26	83.42	37.84	3.205		
4,000.00	3,875.80	4,008.03	3,837.54	20.94	21.67	-3.78	-1,045.19	-78.66	124.84	86.00	38.83	3.215		
4,100.00	3,972.01	4,091.90	3,932.65	21.48	22.14	-3.77	-1,075.78	-81.01	128.41	88.67	39.74	3.231		
4,200.00	4,068.21	4,208.16	4,027.76	22.03	22.81	-3.75	-1,106.38	-83.36	131.99	91.17	40.82	3.233		
4,300.00	4,164.42	4,291.78	4,122.87	22.57	23.29	-3.73	-1,136.97	-85.70	135.56	93.83	41.73	3.248		
4,400.00	4,260.62	4,408.29	4,217.97	23.12	23.95	-3.72	-1,167.57	-88.05	139.14	96.33	42.81	3.250		
4,500.00	4,356.83	4,491.65	4,313.08	23.67	24.43	-3.70	-1,198.16	-90.40	142.71	98.99	43.72	3.264		
4,600.00	4,453.03	4,608.42	4,408.19	24.21	25.10	-3.69	-1,228.76	-92.75	146.29	101.49	44.80	3.265		
4,700.00	4,549.24	4,708.48	4,503.30	24.76	25.67	-3.68	-1,259.35	-95.09	149.87	104.06	45.80	3.272		
4,800.00	4,645.44	4,808.54	4,598.41	25.31	26.25	-3.66	-1,289.95	-97.44	153.44	106.64	46.80	3.279		
4,900.00	4,741.65	4,908.61	4,693.52	25.86	26.82	-3.65	-1,320.54	-99.79	157.02	109.22	47.80	3.285		
5,000.00	4,837.85	5,008.67	4,788.62	26.40	27.39	-3.64	-1,351.14	-102.14	160.59	111.79	48.80	3.291		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,108.74	4,883.73	26.95	27.97	-3.63	-1,381.73	-104.48	164.17	114.37	49.80	3.297		
5,200.00	5,030.26	5,208.80	4,978.84	27.50	28.54	-3.62	-1,412.33	-106.83	167.74	116.94	50.80	3.302		
5,300.00	5,126.47	5,308.86	5,073.95	28.05	29.12	-3.61	-1,442.92	-109.18	171.32	119.52	51.80	3.307		
5,400.00	5,222.67	5,391.07	5,169.06	28.60	29.59	-3.60	-1,473.52	-111.53	174.89	122.18	52.71	3.318		
5,500.00	5,318.88	5,508.99	5,264.17	29.15	30.27	-3.59	-1,504.11	-113.87	178.47	124.67	53.80	3.317		
5,600.00	5,415.08	5,609.06	5,359.28	29.70	30.84	-3.58	-1,534.71	-116.22	182.05	127.24	54.81	3.322		
5,700.00	5,511.29	5,709.12	5,454.38	30.25	31.42	-3.57	-1,565.30	-118.57	185.62	129.81	55.81	3.326		
5,800.00	5,607.49	5,790.82	5,549.49	30.79	31.89	-3.57	-1,595.90	-120.92	189.20	132.48	56.72	3.336		
5,900.00	5,703.70	5,890.75	5,644.60	31.34	32.46	-3.56	-1,626.50	-123.26	192.77	135.05	57.72	3.340		
6,000.00	5,799.90	6,009.31	5,739.71	31.89	33.14	-3.55	-1,657.09	-125.61	196.35	137.53	58.82	3.338		
6,100.00	5,896.11	6,109.38	5,834.82	32.44	33.72	-3.54	-1,687.69	-127.96	199.92	140.10	59.82	3.342		
6,200.00	5,992.32	6,209.44	5,929.93	32.99	34.30	-3.54	-1,718.28	-130.31	203.50	142.67	60.83	3.346		
6,300.00	6,088.52	6,290.50	6,025.04	33.54	34.76	-3.53	-1,748.88	-132.65	207.08	145.34	61.74	3.354		
6,400.00	6,184.73	6,409.57	6,120.14	34.09	35.45	-3.52	-1,779.47	-135.00	210.65	147.81	62.84	3.352		
6,500.00	6,280.93	6,509.63	6,215.25	34.64	36.02	-3.52	-1,810.07	-137.35	214.23	150.38	63.84	3.356		
6,600.00	6,377.14	6,590.31	6,310.36	35.19	36.49	-3.51	-1,840.66	-139.70	217.80	153.05	64.75	3.364		
6,700.00	6,473.34	6,690.24	6,405.47	35.74	37.06	-3.51	-1,871.26	-142.05	221.38	155.62	65.75	3.367		
6,800.00	6,569.55	6,790.03	6,500.43	36.29	37.64	-3.44	-1,901.80	-144.61	224.96	158.20	66.75	3.370		
6,900.00	6,665.75	6,887.84	6,592.69	36.84	38.19	-5.55	-1,931.56	-156.93	229.03	161.35	67.68	3.384		
7,000.00	6,761.11	6,983.03	6,679.69	37.39	38.69	-27.73	-1,959.73	-183.03	234.13	165.63	68.50	3.418		
7,100.00	6,853.41	7,076.25	6,760.34	37.89	39.13	-39.77	-1,985.96	-221.52	239.87	170.72	69.14	3.469		
7,200.00	6,940.36	7,167.76	6,833.46	38.34	39.53	-45.51	-2,009.85	-270.94	245.89	176.34	69.54	3.536		
7,300.00	7,019.83	7,257.80	6,898.08	38.74	39.87	-48.16	-2,031.08	-329.83	251.82	182.11	69.71	3.612		
7,400.00	7,089.85	7,346.63	6,953.43	39.10	40.17	-49.31	-2,049.39	-396.76	257.34	187.60	69.74	3.690		
7,500.00	7,148.71	7,434.49	6,998.91	39.42	40.44	-49.74	-2,064.58	-470.29	262.14	192.35	69.79	3.756		
7,600.00	7,194.95	7,521.59	7,034.06	39.71	40.69	-49.86	-2,076.49	-549.02	265.99	195.92	70.07	3.796		
7,700.00	7,227.43	7,608.16	7,058.53	40.01	40.94	-49.87	-2,084.99	-631.55	268.69	197.93	70.76	3.797		
7,800.00	7,245.37	7,694.42	7,072.08	40.37	41.23	-49.89	-2,090.00	-716.53	270.14	198.12	72.01	3.751		
7,900.00	7,248.84	7,784.03	7,074.92	40.87	41.61	-49.95	-2,091.61	-806.02	270.32	196.43	73.89	3.659		
8,000.00	7,248.24	7,884.03	7,074.59	41.62	42.22	-50.01	-2,092.27	-906.02	270.21	194.11	76.10	3.551		
8,100.00	7,247.65	7,984.03	7,074.27	42.66	43.11	-50.06	-2,092.94	-1,006.01	270.10	191.58	78.52	3.440		
8,200.00	7,247.05	8,084.03	7,073.94	43.96	44.27	-50.12	-2,093.61	-1,106.01	269.99	188.87	81.12	3.328		
8,300.00	7,246.46	8,184.03	7,073.62	45.46	45.67	-50.18	-2,094.28	-1,206.01	269.88	185.99	83.89	3.217		
8,400.00	7,245.86	8,284.02	7,073.29	47.13	47.27	-50.23	-2,094.94	-1,306.00	269.77	182.95	86.82	3.107		
8,500.00	7,245.27	8,384.02	7,072.97	48.93	49.02	-50.29	-2,095.61	-1,406.00	269.66	179.78	89.89	3.000		
8,600.00	7,244.67	8,484.02	7,072.64	50.84	50.89	-50.34	-2,096.28	-1,506.00	269.56	176.47	93.09	2.896		
8,700.00	7,244.07	8,584.02	7,072.32	52.85	52.87	-50.40	-2,096.95	-1,605.99	269.45	173.05	96.40	2.795		
8,800.00	7,243.48	8,684.02	7,071.99	54.94	54.94	-50.45	-2,097.61	-1,705.99	269.34	169.52	99.82	2.698		
8,900.00	7,242.88	8,784.02	7,071.67	57.10	57.08	-50.51	-2,098.28	-1,805.99	269.23	165.90	103.33	2.605		
9,000.00	7,242.29	8,884.02	7,071.34	59.32	59.29	-50.57	-2,098.95	-1,905.99	269.12	162.19	106.93	2.517		
9,100.00	7,241.69	8,984.02	7,071.02	61.60	61.55	-50.62	-2,099.62	-2,005.98	269.02	158.40	110.62	2.432		
9,200.00	7,241.09	9,084.02	7,070.69	63.92	63.87	-50.68	-2,100.28	-2,105.98	268.91	154.54	114.37	2.351		
9,300.00	7,240.50	9,184.02	7,070.37	66.29	66.23	-50.73	-2,100.95	-2,205.98	268.80	150.61	118.19	2.274		
9,400.00	7,239.90	9,284.02	7,070.04	68.70	68.63	-50.79	-2,101.62	-2,305.97	268.70	146.63	122.07	2.201		
9,500.00	7,239.31	9,384.02	7,069.72	71.14	71.06	-50.85	-2,102.29	-2,405.97	268.59	142.58	126.01	2.132		
9,600.00	7,238.71	9,484.02	7,069.39	73.61	73.53	-50.90	-2,102.95	-2,505.97	268.48	138.49	129.99	2.065		
9,700.00	7,238.11	9,584.02	7,069.07	76.11	76.02	-50.96	-2,103.62	-2,605.96	268.38	134.35	134.03	2.002		
9,800.00	7,237.52	9,684.02	7,068.74	78.64	78.54	-51.01	-2,104.29	-2,705.96	268.27	130.17	138.11	1.943		
9,900.00	7,236.92	9,784.02	7,068.42	81.19	81.09	-51.07	-2,104.96	-2,805.96	268.17	125.94	142.22	1.886		
10,000.00	7,236.33	9,884.02	7,068.09	83.75	83.65	-51.13	-2,105.62	-2,905.95	268.06	121.68	146.38	1.831		
10,100.00	7,235.73	9,984.02	7,067.77	86.34	86.23	-51.18	-2,106.29	-3,005.95	267.96	117.38	150.57	1.780		
10,200.00	7,235.14	10,084.02	7,067.44	88.94	88.83	-51.24	-2,106.96	-3,105.95	267.85	113.05	154.80	1.730		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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+HFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	7,234.54	10,184.02	7,067.12	91.56	91.45	-51.30	-2,107.63	-3,205.94	267.75	108.69	159.05	1.683		
10,400.00	7,233.94	10,284.02	7,066.79	94.19	94.08	-51.35	-2,108.29	-3,305.94	267.64	104.31	163.34	1.639		
10,500.00	7,233.35	10,384.02	7,066.47	96.84	96.72	-51.41	-2,108.96	-3,405.94	267.54	99.89	167.65	1.596		
10,600.00	7,232.75	10,484.02	7,066.14	99.50	99.37	-51.47	-2,109.63	-3,505.93	267.44	95.45	171.99	1.555		
10,700.00	7,232.16	10,584.02	7,065.82	102.17	102.04	-51.52	-2,110.30	-3,605.93	267.33	90.98	176.35	1.516		
10,800.00	7,231.56	10,684.02	7,065.49	104.85	104.72	-51.58	-2,110.96	-3,705.93	267.23	86.50	180.74	1.479	Level 3	
10,900.00	7,230.96	10,784.01	7,065.17	107.53	107.40	-51.64	-2,111.63	-3,805.93	267.13	81.99	185.14	1.443	Level 3	
11,000.00	7,230.37	10,884.01	7,064.84	110.23	110.10	-51.69	-2,112.30	-3,905.92	267.03	77.46	189.57	1.409	Level 3	
11,100.00	7,229.77	10,984.01	7,064.52	112.93	112.80	-51.75	-2,112.97	-4,005.92	266.92	72.91	194.02	1.376	Level 3	
11,200.00	7,229.18	11,084.01	7,064.19	115.65	115.51	-51.81	-2,113.63	-4,105.92	266.82	68.34	198.48	1.344	Level 3	
11,300.00	7,228.58	11,184.01	7,063.87	118.37	118.23	-51.86	-2,114.30	-4,205.91	266.72	63.75	202.97	1.314	Level 3	
11,400.00	7,227.99	11,284.01	7,063.55	121.09	120.95	-51.92	-2,114.97	-4,305.91	266.62	59.15	207.47	1.285	Level 3	
11,500.00	7,227.39	11,384.01	7,063.22	123.82	123.68	-51.98	-2,115.64	-4,405.91	266.52	54.53	211.98	1.257	Level 3	
11,600.00	7,226.79	11,484.01	7,062.90	126.56	126.42	-52.03	-2,116.30	-4,505.90	266.42	49.90	216.52	1.230	Level 2	
11,700.00	7,226.20	11,584.01	7,062.57	129.30	129.16	-52.09	-2,116.97	-4,605.90	266.32	45.25	221.07	1.205	Level 2	
11,800.00	7,225.60	11,684.01	7,062.25	132.05	131.91	-52.15	-2,117.64	-4,705.90	266.22	40.59	225.63	1.180	Level 2	
11,900.00	7,225.01	11,784.01	7,061.92	134.80	134.66	-52.20	-2,118.31	-4,805.89	266.12	35.91	230.21	1.156	Level 2	
12,000.00	7,224.41	11,884.01	7,061.60	137.56	137.41	-52.26	-2,118.97	-4,905.89	266.02	31.22	234.80	1.133	Level 2	
12,100.00	7,223.81	11,984.01	7,061.27	140.32	140.17	-52.32	-2,119.64	-5,005.89	265.92	26.51	239.40	1.111	Level 2	
12,200.00	7,223.22	12,084.01	7,060.95	143.08	142.94	-52.38	-2,120.31	-5,105.88	265.82	21.80	244.02	1.089	Level 2	
12,300.00	7,222.62	12,184.01	7,060.62	145.85	145.70	-52.43	-2,120.98	-5,205.88	265.72	17.07	248.65	1.069	Level 2	
12,400.00	7,222.03	12,284.01	7,060.30	148.62	148.47	-52.49	-2,121.64	-5,305.88	265.62	12.33	253.29	1.049	Level 2	
12,500.00	7,221.43	12,384.01	7,059.97	151.40	151.25	-52.55	-2,122.31	-5,405.87	265.52	7.58	257.95	1.029	Level 2	
12,600.00	7,220.83	12,484.01	7,059.65	154.18	154.02	-52.61	-2,122.98	-5,505.87	265.42	2.81	262.61	1.011	Level 2	
12,700.00	7,220.24	12,584.01	7,059.32	156.96	156.80	-52.66	-2,123.65	-5,605.87	265.33	-1.96	267.29	0.993	Level 1	
12,800.00	7,219.64	12,684.01	7,059.00	159.74	159.59	-52.72	-2,124.31	-5,705.87	265.23	-6.75	271.98	0.975	Level 1	
12,900.00	7,219.05	12,784.01	7,058.67	162.53	162.37	-52.78	-2,124.98	-5,805.86	265.13	-11.54	276.67	0.958	Level 1	
13,000.00	7,218.45	12,884.01	7,058.35	165.32	165.16	-52.84	-2,125.65	-5,905.86	265.03	-16.35	281.38	0.942	Level 1	
13,100.00	7,217.86	12,984.01	7,058.02	168.11	167.95	-52.89	-2,126.32	-6,005.86	264.94	-21.17	286.10	0.926	Level 1	
13,200.00	7,217.26	13,084.01	7,057.70	170.90	170.74	-52.95	-2,126.98	-6,105.85	264.84	-25.99	290.83	0.911	Level 1	
13,300.00	7,216.66	13,184.01	7,057.37	173.70	173.54	-53.01	-2,127.65	-6,205.85	264.74	-30.83	295.57	0.896	Level 1	
13,400.00	7,216.07	13,284.00	7,057.05	176.49	176.34	-53.07	-2,128.32	-6,305.85	264.65	-35.67	300.32	0.881	Level 1	
13,500.00	7,215.47	13,384.00	7,056.72	179.29	179.13	-53.12	-2,128.99	-6,405.84	264.55	-40.53	305.08	0.867	Level 1	
13,600.00	7,214.88	13,484.00	7,056.40	182.09	181.93	-53.18	-2,129.65	-6,505.84	264.46	-45.39	309.85	0.854	Level 1	
13,700.00	7,214.28	13,584.00	7,056.07	184.90	184.74	-53.24	-2,130.32	-6,605.84	264.36	-50.26	314.62	0.840	Level 1	
13,800.00	7,213.68	13,684.00	7,055.75	187.70	187.54	-53.30	-2,130.99	-6,705.83	264.27	-55.14	319.41	0.827	Level 1	
13,900.00	7,213.09	13,784.00	7,055.42	190.51	190.35	-53.36	-2,131.66	-6,805.83	264.17	-60.03	324.20	0.815	Level 1	
14,000.00	7,212.49	13,884.00	7,055.10	193.32	193.15	-53.41	-2,132.32	-6,905.83	264.08	-64.93	329.01	0.803	Level 1	
14,100.00	7,211.90	13,984.00	7,054.77	196.13	195.96	-53.47	-2,132.99	-7,005.82	263.98	-69.84	333.82	0.791	Level 1	
14,200.00	7,211.30	14,084.00	7,054.45	198.94	198.77	-53.53	-2,133.66	-7,105.82	263.89	-74.75	338.64	0.779	Level 1	
14,300.00	7,210.71	14,184.00	7,054.12	201.75	201.58	-53.59	-2,134.33	-7,205.82	263.80	-79.67	343.47	0.768	Level 1	
14,400.00	7,210.11	14,284.00	7,053.80	204.56	204.40	-53.65	-2,134.99	-7,305.81	263.70	-84.61	348.31	0.757	Level 1	
14,500.00	7,209.51	14,384.00	7,053.47	207.38	207.21	-53.70	-2,135.66	-7,405.81	263.61	-89.54	353.15	0.746	Level 1	
14,600.00	7,208.92	14,484.00	7,053.15	210.19	210.03	-53.76	-2,136.33	-7,505.81	263.52	-94.49	358.01	0.736	Level 1	
14,700.00	7,208.32	14,584.00	7,052.82	213.01	212.84	-53.82	-2,137.00	-7,605.81	263.42	-99.44	362.87	0.726	Level 1	
14,800.00	7,207.73	14,684.00	7,052.50	215.83	215.66	-53.88	-2,137.66	-7,705.80	263.33	-104.41	367.74	0.716	Level 1	
14,900.00	7,207.13	14,784.00	7,052.17	218.65	218.48	-53.94	-2,138.33	-7,805.80	263.24	-109.38	372.62	0.706	Level 1	
15,000.00	7,206.53	14,884.00	7,051.85	221.47	221.30	-54.00	-2,139.00	-7,905.80	263.15	-114.35	377.50	0.697	Level 1	
15,100.00	7,205.94	14,984.00	7,051.52	224.29	224.12	-54.05	-2,139.67	-8,005.79	263.06	-119.34	382.39	0.688	Level 1	
15,200.00	7,205.34	15,084.00	7,051.20	227.11	226.94	-54.11	-2,140.33	-8,105.79	262.96	-124.33	387.29	0.679	Level 1	
15,258.04	7,205.00	15,142.04	7,051.01	228.75	228.58	-54.15	-2,140.72	-8,163.83	262.91	-127.23	390.14	0.674	Level 1, 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
0.00	0.00	1.00	0.00	3.28	3.28	-179.60	-40.07	-0.28	40.07					
100.00	100.00	101.00	100.00	3.28	3.28	-179.60	-40.07	-0.28	40.07	33.50	6.57	6.100		
200.00	200.00	199.00	200.00	3.34	3.34	-179.60	-40.07	-0.28	40.07	33.40	6.67	6.005		
300.00	299.98	297.64	298.62	3.44	3.44	-4.40	-41.73	-0.39	40.02	33.13	6.89	5.811		
400.00	399.84	396.26	397.11	3.59	3.59	-4.51	-46.78	-0.74	39.92	32.71	7.21	5.538		
500.00	499.45	494.90	495.37	3.79	3.78	-4.69	-55.20	-1.32	39.77	32.14	7.63	5.212		
600.00	598.70	593.53	593.30	4.03	4.02	-4.96	-67.00	-2.14	39.58	31.44	8.14	4.864		
700.00	697.47	692.18	690.76	4.31	4.29	-5.29	-82.15	-3.19	39.35	30.63	8.72	4.514		
800.00	795.62	790.83	787.65	4.64	4.61	-5.71	-100.64	-4.47	39.08	29.72	9.36	4.177		
900.00	893.06	889.49	883.86	5.00	4.96	-6.21	-122.45	-5.98	38.77	28.73	10.04	3.861		
1,000.00	989.65	988.17	979.26	5.40	5.35	-6.79	-147.56	-7.71	38.43	27.66	10.77	3.568		
1,002.39	991.94	990.53	981.53	5.41	5.36	-6.80	-148.20	-7.76	38.43	27.64	10.79	3.562 CC		
1,100.00	1,085.85	1,086.82	1,073.72	5.82	5.77	-7.08	-175.92	-9.67	40.06	28.53	11.53	3.473		
1,200.00	1,182.06	1,185.55	1,167.24	6.27	6.22	-6.87	-207.47	-11.86	45.04	32.73	12.32	3.657		
1,300.00	1,278.26	1,285.36	1,261.44	6.73	6.71	-6.57	-240.40	-14.14	51.12	38.00	13.12	3.896		
1,400.00	1,374.47	1,385.18	1,355.64	7.20	7.21	-6.33	-273.33	-16.41	57.19	43.24	13.95	4.098		
1,500.00	1,470.67	1,484.99	1,449.84	7.69	7.72	-6.14	-306.26	-18.69	63.27	48.46	14.81	4.272		
1,600.00	1,566.88	1,584.81	1,544.04	8.18	8.25	-5.98	-339.20	-20.97	69.35	53.66	15.69	4.420		
1,700.00	1,663.08	1,684.62	1,638.24	8.68	8.78	-5.85	-372.13	-23.25	75.43	58.84	16.58	4.549		
1,800.00	1,759.29	1,784.44	1,732.43	9.19	9.33	-5.74	-405.06	-25.53	81.50	64.02	17.49	4.660		
1,900.00	1,855.49	1,884.25	1,826.63	9.70	9.88	-5.64	-437.99	-27.80	87.58	69.18	18.41	4.758		
2,000.00	1,951.70	1,984.07	1,920.83	10.22	10.43	-5.56	-470.92	-30.08	93.66	74.32	19.34	4.844		
2,100.00	2,047.90	2,083.88	2,015.03	10.73	10.99	-5.48	-503.86	-32.36	99.74	79.46	20.28	4.919		
2,200.00	2,144.11	2,183.70	2,109.23	11.26	11.55	-5.42	-536.79	-34.64	105.82	84.60	21.22	4.986		
2,300.00	2,240.31	2,283.51	2,203.43	11.78	12.12	-5.36	-569.72	-36.92	111.90	89.72	22.17	5.046		
2,400.00	2,336.52	2,383.33	2,297.62	12.31	12.69	-5.30	-602.65	-39.19	117.98	94.84	23.13	5.100		
2,500.00	2,432.72	2,483.14	2,391.82	12.84	13.26	-5.26	-635.58	-41.47	124.06	99.96	24.10	5.148		
2,600.00	2,528.93	2,582.96	2,486.02	13.37	13.83	-5.21	-668.52	-43.75	130.14	105.07	25.07	5.192		
2,700.00	2,625.13	2,682.77	2,580.22	13.91	14.41	-5.18	-701.45	-46.03	136.22	110.18	26.04	5.231		
2,800.00	2,721.34	2,782.59	2,674.42	14.44	14.98	-5.14	-734.38	-48.31	142.29	115.28	27.02	5.267		
2,900.00	2,817.54	2,882.40	2,768.62	14.98	15.56	-5.11	-767.31	-50.58	148.37	120.38	27.99	5.300		
3,000.00	2,913.75	2,982.22	2,862.81	15.52	16.14	-5.08	-800.25	-52.86	154.45	125.48	28.98	5.330		
3,100.00	3,009.95	3,082.03	2,957.01	16.06	16.72	-5.05	-833.18	-55.14	160.53	130.57	29.96	5.358		
3,200.00	3,106.16	3,181.85	3,051.21	16.60	17.31	-5.02	-866.11	-57.42	166.61	135.66	30.95	5.383		
3,300.00	3,202.37	3,281.66	3,145.41	17.14	17.89	-5.00	-899.04	-59.70	172.69	140.75	31.94	5.407		
3,400.00	3,298.57	3,381.48	3,239.61	17.68	18.47	-4.98	-931.97	-61.97	178.77	145.84	32.93	5.429		
3,500.00	3,394.78	3,481.29	3,333.80	18.22	19.06	-4.96	-964.91	-64.25	184.85	150.93	33.92	5.449		
3,600.00	3,490.98	3,581.11	3,428.00	18.76	19.64	-4.94	-997.84	-66.53	190.93	156.01	34.92	5.468		
3,700.00	3,587.19	3,680.92	3,522.20	19.31	20.23	-4.92	-1,030.77	-68.81	197.01	161.10	35.92	5.485		
3,800.00	3,683.39	3,780.74	3,616.40	19.85	20.82	-4.90	-1,063.70	-71.09	203.09	166.18	36.91	5.502		
3,900.00	3,779.60	3,880.55	3,710.60	20.39	21.40	-4.88	-1,096.64	-73.36	209.17	171.26	37.91	5.517		
4,000.00	3,875.80	3,980.37	3,804.80	20.94	21.99	-4.87	-1,129.57	-75.64	215.25	176.34	38.91	5.531		
4,100.00	3,972.01	4,080.18	3,898.99	21.48	22.58	-4.85	-1,162.50	-77.92	221.33	181.42	39.92	5.545		
4,200.00	4,068.21	4,180.00	3,993.19	22.03	23.17	-4.84	-1,195.43	-80.20	227.41	186.49	40.92	5.558		
4,300.00	4,164.42	4,279.81	4,087.39	22.57	23.76	-4.83	-1,228.36	-82.48	233.49	191.57	41.92	5.570		
4,400.00	4,260.62	4,379.63	4,181.59	23.12	24.35	-4.81	-1,261.30	-84.75	239.57	196.64	42.93	5.581		
4,500.00	4,356.83	4,479.44	4,275.79	23.67	24.94	-4.80	-1,294.23	-87.03	245.65	201.72	43.93	5.592		
4,600.00	4,453.03	4,579.26	4,369.99	24.21	25.53	-4.79	-1,327.16	-89.31	251.73	206.79	44.94	5.602		
4,700.00	4,549.24	4,679.07	4,464.18	24.76	26.12	-4.78	-1,360.09	-91.59	257.81	211.87	45.94	5.611		
4,800.00	4,645.44	4,778.89	4,558.38	25.31	26.71	-4.77	-1,393.02	-93.87	263.89	216.94	46.95	5.621		
4,900.00	4,741.65	4,878.70	4,652.58	25.86	27.30	-4.76	-1,425.96	-96.14	269.97	222.01	47.96	5.629		
5,000.00	4,837.85	4,978.52	4,746.78	26.40	27.89	-4.75	-1,458.89	-98.42	276.05	227.08	48.97	5.637		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,078.33	4,840.98	26.95	28.48	-4.74	-1,491.82	-100.70	282.13	232.15	49.98	5.645		
5,200.00	5,030.26	5,178.15	4,935.18	27.50	29.08	-4.73	-1,524.75	-102.98	288.21	237.22	50.99	5.653		
5,300.00	5,126.47	5,277.96	5,029.37	28.05	29.67	-4.73	-1,557.69	-105.26	294.29	242.29	52.00	5.660		
5,400.00	5,222.67	5,377.78	5,123.57	28.60	30.26	-4.72	-1,590.62	-107.53	300.37	247.36	53.01	5.667		
5,500.00	5,318.88	5,477.59	5,217.77	29.15	30.85	-4.71	-1,623.55	-109.81	306.45	252.43	54.02	5.673		
5,600.00	5,415.08	5,577.41	5,311.97	29.70	31.44	-4.70	-1,656.48	-112.09	312.53	257.50	55.03	5.679		
5,700.00	5,511.29	5,677.22	5,406.17	30.25	32.04	-4.70	-1,689.41	-114.37	318.61	262.57	56.04	5.685		
5,800.00	5,607.49	5,777.04	5,500.37	30.79	32.63	-4.69	-1,722.35	-116.65	324.69	267.64	57.05	5.691		
5,900.00	5,703.70	5,876.85	5,594.56	31.34	33.22	-4.68	-1,755.28	-118.92	330.77	272.70	58.07	5.697		
6,000.00	5,799.90	5,976.67	5,688.76	31.89	33.82	-4.68	-1,788.21	-121.20	336.85	277.77	59.08	5.702		
6,100.00	5,896.11	6,076.48	5,782.96	32.44	34.41	-4.67	-1,821.14	-123.48	342.93	282.84	60.09	5.707		
6,200.00	5,992.32	6,176.30	5,877.16	32.99	35.00	-4.67	-1,854.07	-125.76	349.01	287.91	61.10	5.712		
6,300.00	6,088.52	6,276.11	5,971.36	33.54	35.60	-4.66	-1,887.01	-128.04	355.09	292.97	62.12	5.716		
6,400.00	6,184.73	6,375.93	6,065.56	34.09	36.19	-4.65	-1,919.94	-130.31	361.17	298.04	63.13	5.721		
6,500.00	6,280.93	6,475.74	6,159.75	34.64	36.78	-4.65	-1,952.87	-132.59	367.25	303.10	64.15	5.725		
6,600.00	6,377.14	6,575.56	6,253.95	35.19	37.38	-4.64	-1,985.80	-134.87	373.33	308.17	65.16	5.729		
6,700.00	6,473.34	6,675.37	6,348.15	35.74	37.97	-4.64	-2,018.74	-137.15	379.41	313.23	66.18	5.733		
6,800.00	6,569.55	6,775.19	6,442.35	36.29	38.57	-4.63	-2,051.67	-139.43	385.49	318.30	67.19	5.737		
6,900.00	6,665.75	6,875.00	6,536.55	36.84	39.16	-9.22	-2,084.60	-141.70	391.57	323.36	68.21	5.741		
7,000.00	6,761.11	6,974.82	6,630.47	37.39	39.75	-35.64	-2,117.47	-148.47	397.61	328.36	69.25	5.742		
7,100.00	6,853.41	7,075.54	6,723.09	37.89	40.31	-51.62	-2,150.01	-170.50	403.56	333.26	70.31	5.740		
7,200.00	6,940.36	7,177.25	6,812.08	38.34	40.83	-60.84	-2,181.41	-208.17	409.26	337.91	71.35	5.736		
7,300.00	7,019.83	7,279.96	6,895.00	38.74	41.28	-66.50	-2,210.82	-260.94	414.56	342.17	72.39	5.727		
7,400.00	7,089.85	7,383.62	6,969.45	39.10	41.69	-70.16	-2,237.37	-327.83	419.31	345.87	73.44	5.710		
7,500.00	7,148.71	7,488.15	7,033.12	39.42	42.04	-72.61	-2,260.26	-407.37	423.36	348.79	74.57	5.678		
7,600.00	7,194.95	7,593.46	7,083.95	39.71	42.35	-74.26	-2,278.75	-497.58	426.61	350.75	75.86	5.624		
7,700.00	7,227.43	7,699.38	7,120.20	40.01	42.63	-75.31	-2,292.22	-596.05	428.94	351.54	77.39	5.542		
7,800.00	7,245.37	7,805.74	7,140.60	40.37	42.93	-75.88	-2,300.19	-700.01	430.28	351.06	79.21	5.432		
7,900.00	7,248.84	7,910.75	7,144.86	40.87	43.29	-76.03	-2,302.53	-804.81	430.61	349.28	81.33	5.294		
8,000.00	7,248.24	8,010.75	7,144.29	41.62	43.79	-76.03	-2,303.14	-904.81	430.63	346.87	83.76	5.141		
8,100.00	7,247.65	8,110.75	7,143.72	42.66	44.51	-76.04	-2,303.76	-1,004.81	430.65	344.17	86.49	4.980		
8,200.00	7,247.05	8,210.75	7,143.15	43.96	45.51	-76.04	-2,304.37	-1,104.80	430.68	341.21	89.47	4.814		
8,300.00	7,246.46	8,310.75	7,142.59	45.46	46.78	-76.04	-2,304.98	-1,204.80	430.70	338.00	92.69	4.646		
8,400.00	7,245.86	8,410.75	7,142.02	47.13	48.26	-76.05	-2,305.60	-1,304.80	430.72	334.59	96.13	4.481		
8,500.00	7,245.27	8,510.75	7,141.45	48.93	49.93	-76.05	-2,306.21	-1,404.79	430.74	330.98	99.76	4.318		
8,600.00	7,244.67	8,610.75	7,140.88	50.84	51.74	-76.06	-2,306.82	-1,504.79	430.76	327.20	103.56	4.159		
8,700.00	7,244.07	8,710.75	7,140.31	52.85	53.66	-76.06	-2,307.44	-1,604.79	430.78	323.27	107.52	4.007		
8,800.00	7,243.48	8,810.75	7,139.74	54.94	55.68	-76.07	-2,308.05	-1,704.78	430.81	319.19	111.61	3.860		
8,900.00	7,242.88	8,910.75	7,139.18	57.10	57.78	-76.07	-2,308.66	-1,804.78	430.83	315.00	115.83	3.720		
9,000.00	7,242.29	9,010.75	7,138.61	59.32	59.95	-76.08	-2,309.27	-1,904.78	430.85	310.70	120.15	3.586		
9,100.00	7,241.69	9,110.75	7,138.04	61.60	62.18	-76.08	-2,309.89	-2,004.77	430.87	306.29	124.58	3.459		
9,200.00	7,241.09	9,210.75	7,137.47	63.92	64.47	-76.08	-2,310.50	-2,104.77	430.89	301.80	129.09	3.338		
9,300.00	7,240.50	9,310.75	7,136.90	66.29	66.80	-76.09	-2,311.11	-2,204.76	430.91	297.23	133.68	3.223		
9,400.00	7,239.90	9,410.75	7,136.33	68.70	69.18	-76.09	-2,311.73	-2,304.76	430.94	292.59	138.35	3.115		
9,500.00	7,239.31	9,510.75	7,135.76	71.14	71.59	-76.10	-2,312.34	-2,404.76	430.96	287.88	143.08	3.012		
9,600.00	7,238.71	9,610.75	7,135.20	73.61	74.04	-76.10	-2,312.95	-2,504.75	430.98	283.11	147.87	2.915		
9,700.00	7,238.11	9,710.75	7,134.63	76.11	76.51	-76.11	-2,313.56	-2,604.75	431.00	278.30	152.71	2.822		
9,800.00	7,237.52	9,810.75	7,134.06	78.64	79.01	-76.11	-2,314.18	-2,704.75	431.02	273.43	157.59	2.735		
9,900.00	7,236.92	9,910.75	7,133.49	81.19	81.54	-76.12	-2,314.79	-2,804.74	431.04	268.52	162.53	2.652		
10,000.00	7,236.33	10,010.75	7,132.92	83.75	84.09	-76.12	-2,315.40	-2,904.74	431.07	263.57	167.50	2.574		
10,100.00	7,235.73	10,110.75	7,132.35	86.34	86.65	-76.12	-2,316.02	-3,004.74	431.09	258.58	172.51	2.499		
10,200.00	7,235.14	10,210.75	7,131.79	88.94	89.24	-76.13	-2,316.63	-3,104.73	431.11	253.56	177.55	2.428		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	10,310.75	7,131.22	91.56	91.84	-76.13	-2,317.24	-3,204.73	431.13	248.51	182.62	2.361		
10,400.00	7,233.94	10,410.75	7,130.65	94.19	94.46	-76.14	-2,317.86	-3,304.73	431.15	243.43	187.72	2.297		
10,500.00	7,233.35	10,510.75	7,130.08	96.84	97.09	-76.14	-2,318.47	-3,404.72	431.18	238.32	192.85	2.236		
10,600.00	7,232.75	10,610.75	7,129.51	99.50	99.74	-76.15	-2,319.08	-3,504.72	431.20	233.19	198.00	2.178		
10,700.00	7,232.16	10,710.75	7,128.94	102.17	102.39	-76.15	-2,319.69	-3,604.72	431.22	228.04	203.18	2.122		
10,800.00	7,231.56	10,810.75	7,128.37	104.85	105.06	-76.16	-2,320.31	-3,704.71	431.24	222.87	208.37	2.070		
10,900.00	7,230.96	10,910.75	7,127.81	107.53	107.73	-76.16	-2,320.92	-3,804.71	431.26	217.68	213.58	2.019		
11,000.00	7,230.37	11,010.75	7,127.24	110.23	110.42	-76.16	-2,321.53	-3,904.71	431.28	212.47	218.81	1.971		
11,100.00	7,229.77	11,110.75	7,126.67	112.93	113.12	-76.17	-2,322.15	-4,004.70	431.31	207.24	224.06	1.925		
11,200.00	7,229.18	11,210.75	7,126.10	115.65	115.82	-76.17	-2,322.76	-4,104.70	431.33	202.00	229.32	1.881		
11,300.00	7,228.58	11,310.75	7,125.53	118.37	118.53	-76.18	-2,323.37	-4,204.69	431.35	196.75	234.60	1.839		
11,400.00	7,227.99	11,410.75	7,124.96	121.09	121.24	-76.18	-2,323.99	-4,304.69	431.37	191.48	239.89	1.798		
11,500.00	7,227.39	11,510.75	7,124.40	123.82	123.97	-76.19	-2,324.60	-4,404.69	431.39	186.20	245.19	1.759		
11,600.00	7,226.79	11,610.75	7,123.83	126.56	126.70	-76.19	-2,325.21	-4,504.68	431.42	180.91	250.51	1.722		
11,700.00	7,226.20	11,710.75	7,123.26	129.30	129.43	-76.20	-2,325.82	-4,604.68	431.44	175.60	255.83	1.686		
11,800.00	7,225.60	11,810.75	7,122.69	132.05	132.17	-76.20	-2,326.44	-4,704.68	431.46	170.29	261.17	1.652		
11,900.00	7,225.01	11,910.75	7,122.12	134.80	134.92	-76.20	-2,327.05	-4,804.67	431.48	164.96	266.52	1.619		
12,000.00	7,224.41	12,010.75	7,121.55	137.56	137.67	-76.21	-2,327.66	-4,904.67	431.50	159.63	271.87	1.587		
12,100.00	7,223.81	12,110.75	7,120.98	140.32	140.42	-76.21	-2,328.28	-5,004.67	431.52	154.29	277.24	1.557		
12,200.00	7,223.22	12,210.75	7,120.42	143.08	143.18	-76.22	-2,328.89	-5,104.66	431.55	148.94	282.61	1.527		
12,300.00	7,222.62	12,310.75	7,119.85	145.85	145.94	-76.22	-2,329.50	-5,204.66	431.57	143.58	287.99	1.499 Level 3		
12,400.00	7,222.03	12,410.75	7,119.28	148.62	148.71	-76.23	-2,330.12	-5,304.66	431.59	138.21	293.38	1.471 Level 3		
12,500.00	7,221.43	12,510.75	7,118.71	151.40	151.48	-76.23	-2,330.73	-5,404.65	431.61	132.84	298.77	1.445 Level 3		
12,600.00	7,220.83	12,610.75	7,118.14	154.18	154.25	-76.24	-2,331.34	-5,504.65	431.63	127.46	304.17	1.419 Level 3		
12,700.00	7,220.24	12,710.75	7,117.57	156.96	157.02	-76.24	-2,331.95	-5,604.65	431.66	122.08	309.58	1.394 Level 3		
12,800.00	7,219.64	12,810.75	7,117.01	159.74	159.80	-76.25	-2,332.57	-5,704.64	431.68	116.69	314.99	1.370 Level 3		
12,900.00	7,219.05	12,910.75	7,116.44	162.53	162.58	-76.25	-2,333.18	-5,804.64	431.70	111.29	320.41	1.347 Level 3		
13,000.00	7,218.45	13,010.75	7,115.87	165.32	165.37	-76.25	-2,333.79	-5,904.64	431.72	105.89	325.83	1.325 Level 3		
13,100.00	7,217.86	13,110.75	7,115.30	168.11	168.16	-76.26	-2,334.41	-6,004.63	431.74	100.48	331.26	1.303 Level 3		
13,200.00	7,217.26	13,210.75	7,114.73	170.90	170.94	-76.26	-2,335.02	-6,104.63	431.76	95.07	336.70	1.282 Level 3		
13,300.00	7,216.66	13,310.75	7,114.16	173.70	173.74	-76.27	-2,335.63	-6,204.62	431.79	89.65	342.13	1.262 Level 3		
13,400.00	7,216.07	13,410.75	7,113.60	176.49	176.53	-76.27	-2,336.24	-6,304.62	431.81	84.23	347.58	1.242 Level 2		
13,500.00	7,215.47	13,510.75	7,113.03	179.29	179.33	-76.28	-2,336.86	-6,404.62	431.83	78.81	353.02	1.223 Level 2		
13,600.00	7,214.88	13,610.75	7,112.46	182.09	182.12	-76.28	-2,337.47	-6,504.61	431.85	73.38	358.48	1.205 Level 2		
13,700.00	7,214.28	13,710.75	7,111.89	184.90	184.92	-76.29	-2,338.08	-6,604.61	431.87	67.94	363.93	1.187 Level 2		
13,800.00	7,213.68	13,810.75	7,111.32	187.70	187.72	-76.29	-2,338.70	-6,704.61	431.90	62.51	369.39	1.169 Level 2		
13,900.00	7,213.09	13,910.75	7,110.75	190.51	190.53	-76.29	-2,339.31	-6,804.60	431.92	57.06	374.85	1.152 Level 2		
14,000.00	7,212.49	14,010.75	7,110.18	193.32	193.33	-76.30	-2,339.92	-6,904.60	431.94	51.62	380.32	1.136 Level 2		
14,100.00	7,211.90	14,110.75	7,109.62	196.13	196.14	-76.30	-2,340.54	-7,004.60	431.96	46.17	385.79	1.120 Level 2		
14,200.00	7,211.30	14,210.75	7,109.05	198.94	198.94	-76.31	-2,341.15	-7,104.59	431.98	40.72	391.26	1.104 Level 2		
14,300.00	7,210.71	14,310.75	7,108.48	201.75	201.75	-76.31	-2,341.76	-7,204.59	432.00	35.27	396.74	1.089 Level 2		
14,400.00	7,210.11	14,410.75	7,107.91	204.56	204.56	-76.32	-2,342.37	-7,304.59	432.03	29.81	402.21	1.074 Level 2		
14,500.00	7,209.51	14,510.75	7,107.34	207.38	207.38	-76.32	-2,342.99	-7,404.58	432.05	24.35	407.70	1.060 Level 2		
14,600.00	7,208.92	14,610.75	7,106.77	210.19	210.19	-76.33	-2,343.60	-7,504.58	432.07	18.89	413.18	1.046 Level 2		
14,700.00	7,208.32	14,710.75	7,106.21	213.01	213.00	-76.33	-2,344.21	-7,604.58	432.09	13.43	418.67	1.032 Level 2		
14,800.00	7,207.73	14,810.75	7,105.64	215.83	215.82	-76.33	-2,344.83	-7,704.57	432.11	7.96	424.16	1.019 Level 2		
14,900.00	7,207.13	14,910.75	7,105.07	218.65	218.64	-76.34	-2,345.44	-7,804.57	432.14	2.49	429.65	1.006 Level 2		
15,000.00	7,206.53	15,010.75	7,104.50	221.47	221.45	-76.34	-2,346.05	-7,904.57	432.16	-2.98	435.14	0.993 Level 1		
15,100.00	7,205.94	15,110.75	7,103.93	224.29	224.27	-76.35	-2,346.67	-8,004.56	432.18	-8.46	440.64	0.981 Level 1		
15,200.00	7,205.34	15,210.75	7,103.36	227.11	227.09	-76.35	-2,347.28	-8,104.56	432.20	-13.93	446.14	0.969 Level 1		
15,258.04	7,205.00	15,268.79	7,103.03	228.75	228.73	-76.35	-2,347.63	-8,162.60	432.21	-17.11	449.33	0.962 Level 1, 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	-179.52	-100.17	-0.83	100.18					
100.00	100.00	101.00	100.00	3.28	3.28	-179.52	-100.17	-0.83	100.18	93.61	6.57	15.248		
200.00	200.00	199.00	200.00	3.34	3.34	-179.52	-100.17	-0.83	100.18	93.50	6.67	15.011		
300.00	299.98	295.66	296.64	3.44	3.43	-101.77	-101.77	-0.92	100.09	93.20	6.88	14.540		
400.00	399.84	392.29	393.15	3.59	3.58	-4.39	-106.61	-1.19	99.88	92.69	7.20	13.873		
500.00	499.45	488.93	489.44	3.79	3.77	-4.54	-114.71	-1.63	99.57	91.96	7.62	13.075		
600.00	598.70	585.58	585.42	4.03	4.00	-4.75	-126.04	-2.25	99.15	91.04	8.12	12.218		
700.00	697.47	682.25	680.97	4.31	4.26	-5.01	-140.60	-3.05	98.62	89.94	8.69	11.355		
800.00	795.62	778.93	776.00	4.64	4.57	-5.34	-158.38	-4.02	97.99	88.67	9.32	10.519		
900.00	893.06	875.64	870.39	5.00	4.91	-5.73	-179.36	-5.17	97.25	87.26	9.99	9.736		
1,000.00	989.65	972.37	964.05	5.40	5.28	-6.19	-203.51	-6.49	96.42	85.71	10.71	9.002		
1,017.83	1,006.80	989.62	980.66	5.47	5.35	-6.27	-208.15	-6.75	96.37	85.53	10.84	8.888 CC, ES		
1,100.00	1,085.85	1,069.10	1,056.83	5.82	5.69	-6.58	-230.80	-7.99	97.51	86.04	11.46	8.506		
1,200.00	1,182.06	1,165.66	1,148.48	6.27	6.13	-6.79	-261.15	-9.65	101.95	89.71	12.24	8.330		
1,300.00	1,278.26	1,261.82	1,238.68	6.73	6.60	-6.82	-294.42	-11.47	109.74	96.71	13.03	8.422		
1,400.00	1,374.47	1,357.38	1,327.15	7.20	7.10	-6.70	-330.46	-13.44	120.85	107.02	13.83	8.737		
1,500.00	1,470.67	1,454.30	1,415.78	7.69	7.63	-6.50	-369.62	-15.59	134.85	120.19	14.66	9.198		
1,600.00	1,566.88	1,553.26	1,506.10	8.18	8.19	-6.31	-409.99	-17.80	149.27	133.74	15.53	9.610		
1,700.00	1,663.08	1,652.21	1,596.42	8.68	8.77	-6.16	-450.36	-20.01	163.70	147.27	16.43	9.965		
1,800.00	1,759.29	1,751.16	1,686.73	9.19	9.36	-6.03	-490.73	-22.22	178.13	160.79	17.34	10.272		
1,900.00	1,855.49	1,850.12	1,777.05	9.70	9.95	-5.93	-531.10	-24.43	192.55	174.29	18.27	10.541		
2,000.00	1,951.70	1,949.07	1,867.37	10.22	10.56	-5.83	-571.47	-26.64	206.98	187.77	19.21	10.776		
2,100.00	2,047.90	2,048.02	1,957.69	10.73	11.17	-5.75	-611.83	-28.85	221.41	201.25	20.16	10.983		
2,200.00	2,144.11	2,146.98	2,048.00	11.26	11.78	-5.68	-652.20	-31.06	235.84	214.72	21.12	11.166		
2,300.00	2,240.31	2,245.93	2,138.32	11.78	12.40	-5.62	-692.57	-33.27	250.27	228.18	22.09	11.329		
2,400.00	2,336.52	2,344.88	2,228.64	12.31	13.03	-5.56	-732.94	-35.48	264.70	241.63	23.07	11.475		
2,500.00	2,432.72	2,443.84	2,318.96	12.84	13.65	-5.51	-773.31	-37.69	279.13	255.08	24.05	11.606		
2,600.00	2,528.93	2,542.79	2,409.27	13.37	14.29	-5.47	-813.68	-39.90	293.55	268.52	25.04	11.724		
2,700.00	2,625.13	2,641.74	2,499.59	13.91	14.92	-5.43	-854.04	-42.11	307.98	281.95	26.03	11.831		
2,800.00	2,721.34	2,740.70	2,589.91	14.44	15.55	-5.39	-894.41	-44.32	322.41	295.38	27.03	11.928		
2,900.00	2,817.54	2,839.65	2,680.23	14.98	16.19	-5.35	-934.78	-46.53	336.84	308.81	28.03	12.016		
3,000.00	2,913.75	2,938.60	2,770.55	15.52	16.83	-5.32	-975.15	-48.74	351.27	322.23	29.04	12.097		
3,100.00	3,009.95	3,037.56	2,860.86	16.06	17.47	-5.29	-1,015.52	-50.95	365.70	335.66	30.05	12.171		
3,200.00	3,106.16	3,136.51	2,951.18	16.60	18.11	-5.27	-1,055.89	-53.16	380.13	349.07	31.06	12.239		
3,300.00	3,202.37	3,235.46	3,041.50	17.14	18.75	-5.24	-1,096.25	-55.37	394.56	362.49	32.07	12.301		
3,400.00	3,298.57	3,334.42	3,131.82	17.68	19.40	-5.22	-1,136.62	-57.58	409.00	375.90	33.09	12.359		
3,500.00	3,394.78	3,433.37	3,222.13	18.22	20.04	-5.20	-1,176.99	-59.79	423.43	389.31	34.11	12.413		
3,600.00	3,490.98	3,532.32	3,312.45	18.76	20.69	-5.18	-1,217.36	-62.00	437.86	402.72	35.13	12.463		
3,700.00	3,587.19	3,631.28	3,402.77	19.31	21.34	-5.16	-1,257.73	-64.21	452.29	416.13	36.16	12.510		
3,800.00	3,683.39	3,730.23	3,493.09	19.85	21.98	-5.14	-1,298.10	-66.42	466.72	429.54	37.18	12.553		
3,900.00	3,779.60	3,829.18	3,583.40	20.39	22.63	-5.12	-1,338.46	-68.63	481.15	442.94	38.21	12.594		
4,000.00	3,875.80	3,928.14	3,673.72	20.94	23.28	-5.11	-1,378.83	-70.84	495.58	456.34	39.23	12.631		
4,100.00	3,972.01	4,027.09	3,764.04	21.48	23.93	-5.09	-1,419.20	-73.05	510.01	469.75	40.26	12.667		
4,200.00	4,068.21	4,126.04	3,854.36	22.03	24.58	-5.08	-1,459.57	-75.26	524.44	483.15	41.29	12.701		
4,300.00	4,164.42	4,224.99	3,944.67	22.57	25.23	-5.07	-1,499.94	-77.47	538.87	496.55	42.32	12.732		
4,400.00	4,260.62	4,323.95	4,034.99	23.12	25.88	-5.06	-1,540.31	-79.68	553.30	509.95	43.36	12.762		
4,500.00	4,356.83	4,422.90	4,125.31	23.67	26.54	-5.04	-1,580.67	-81.89	567.73	523.34	44.39	12.790		
4,600.00	4,453.03	4,521.85	4,215.63	24.21	27.19	-5.03	-1,621.04	-84.10	582.16	536.74	45.42	12.816		
4,700.00	4,549.24	4,620.81	4,305.94	24.76	27.84	-5.02	-1,661.41	-86.31	596.59	550.14	46.46	12.842		
4,800.00	4,645.44	4,719.76	4,396.26	25.31	28.49	-5.01	-1,701.78	-88.52	611.02	563.53	47.49	12.865		
4,900.00	4,741.65	4,818.71	4,486.58	25.86	29.14	-5.00	-1,742.15	-90.74	625.46	576.92	48.53	12.888		
5,000.00	4,837.85	4,917.67	4,576.90	26.40	29.80	-4.99	-1,782.52	-92.95	639.89	590.32	49.57	12.909		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	5,016.62	4,667.21	26.95	30.45	-4.98	-1,822.88	-95.16	654.32	603.71	50.61	12.930		
5,200.00	5,030.26	5,115.57	4,757.53	27.50	31.11	-4.98	-1,863.25	-97.37	668.75	617.10	51.64	12.949		
5,300.00	5,126.47	5,214.53	4,847.85	28.05	31.76	-4.97	-1,903.62	-99.58	683.18	630.50	52.68	12.968		
5,400.00	5,222.67	5,313.48	4,938.17	28.60	32.41	-4.96	-1,943.99	-101.79	697.61	643.89	53.72	12.986		
5,500.00	5,318.88	5,412.43	5,028.48	29.15	33.07	-4.95	-1,984.36	-104.00	712.04	657.28	54.76	13.002		
5,600.00	5,415.08	5,511.39	5,118.80	29.70	33.72	-4.94	-2,024.73	-106.21	726.47	670.67	55.80	13.019		
5,700.00	5,511.29	5,610.34	5,209.12	30.25	34.38	-4.94	-2,065.09	-108.42	740.90	684.06	56.84	13.034		
5,800.00	5,607.49	5,709.29	5,299.44	30.79	35.03	-4.93	-2,105.46	-110.63	755.33	697.45	57.89	13.049		
5,900.00	5,703.70	5,808.25	5,389.75	31.34	35.69	-4.92	-2,145.83	-112.84	769.76	710.84	58.93	13.063		
6,000.00	5,799.90	5,907.20	5,480.07	31.89	36.34	-4.92	-2,186.20	-115.05	784.20	724.23	59.97	13.077		
6,100.00	5,896.11	6,006.15	5,570.39	32.44	37.00	-4.91	-2,226.57	-117.26	798.63	737.61	61.01	13.090		
6,200.00	5,992.32	6,105.11	5,660.71	32.99	37.66	-4.91	-2,266.94	-119.47	813.06	751.00	62.05	13.102		
6,300.00	6,088.52	6,204.06	5,751.02	33.54	38.31	-4.90	-2,307.30	-121.68	827.49	764.39	63.10	13.114		
6,400.00	6,184.73	6,303.01	5,841.34	34.09	38.97	-4.90	-2,347.67	-123.89	841.92	777.78	64.14	13.126		
6,500.00	6,280.93	6,401.97	5,931.66	34.64	39.62	-4.89	-2,388.04	-126.10	856.35	791.16	65.19	13.137		
6,600.00	6,377.14	6,500.92	6,021.98	35.19	40.28	-4.89	-2,428.41	-128.31	870.78	804.55	66.23	13.148		
6,700.00	6,473.34	6,599.87	6,112.29	35.74	40.94	-4.88	-2,468.78	-130.52	885.21	817.94	67.27	13.158		
6,800.00	6,569.55	6,698.83	6,202.61	36.29	41.59	-4.88	-2,509.15	-132.73	899.64	831.32	68.32	13.168		
6,900.00	6,665.75	6,797.78	6,292.93	36.84	42.25	-9.34	-2,549.51	-134.94	914.07	844.71	69.36	13.178		
7,000.00	6,761.11	6,896.13	6,382.69	37.39	42.90	-34.80	-2,589.64	-137.14	928.45	858.03	70.43	13.183		
7,100.00	6,853.41	7,008.29	6,469.93	37.89	43.65	-50.63	-2,628.63	-139.27	942.96	871.36	71.60	13.170		
7,200.00	6,940.36	7,082.17	6,552.50	38.34	44.14	-60.34	-2,665.53	-141.29	958.41	885.79	72.61	13.199		
7,300.00	7,019.83	7,179.11	6,640.78	38.74	44.77	-67.06	-2,705.02	-147.11	975.72	901.78	73.94	13.196		
7,400.00	7,089.85	7,291.63	6,740.88	39.10	45.47	-72.09	-2,749.94	-171.40	994.13	918.65	75.48	13.170		
7,500.00	7,148.71	7,419.71	6,847.93	39.42	46.17	-76.08	-2,798.19	-221.99	1,012.68	935.68	77.00	13.152		
7,600.00	7,194.95	7,567.85	6,957.20	39.71	46.83	-79.40	-2,847.72	-308.33	1,030.04	951.80	78.24	13.165		
7,700.00	7,227.43	7,739.69	7,057.05	40.01	47.42	-82.08	-2,893.42	-439.82	1,044.42	965.28	79.14	13.198		
7,800.00	7,245.37	7,934.46	7,126.74	40.37	47.92	-83.85	-2,926.03	-617.92	1,053.68	973.50	80.18	13.142		
7,900.00	7,248.84	8,119.51	7,144.89	40.87	48.32	-84.35	-2,935.66	-801.22	1,056.14	973.96	82.17	12.853		
8,000.00	7,248.24	8,219.51	7,144.35	41.62	48.60	-84.35	-2,936.25	-901.22	1,056.13	971.59	84.55	12.491		
8,100.00	7,247.65	8,319.51	7,143.81	42.66	48.98	-84.36	-2,936.84	-1,001.22	1,056.13	968.90	87.23	12.107		
8,200.00	7,247.05	8,419.51	7,143.27	43.96	49.53	-84.36	-2,937.43	-1,101.21	1,056.13	965.94	90.19	11.709		
8,300.00	7,246.46	8,519.51	7,142.72	45.46	50.29	-84.36	-2,938.01	-1,201.21	1,056.13	962.72	93.41	11.306		
8,400.00	7,245.86	8,619.51	7,142.18	47.13	51.30	-84.37	-2,938.60	-1,301.21	1,056.13	959.28	96.85	10.904		
8,500.00	7,245.27	8,719.51	7,141.64	48.93	52.57	-84.37	-2,939.19	-1,401.21	1,056.13	955.63	100.50	10.509		
8,600.00	7,244.67	8,819.51	7,141.10	50.84	54.06	-84.37	-2,939.78	-1,501.20	1,056.13	951.79	104.33	10.123		
8,700.00	7,244.07	8,919.51	7,140.56	52.85	55.75	-84.38	-2,940.36	-1,601.20	1,056.13	947.80	108.33	9.749		
8,800.00	7,243.48	9,019.51	7,140.02	54.94	57.57	-84.38	-2,940.95	-1,701.20	1,056.12	943.66	112.47	9.391		
8,900.00	7,242.88	9,119.51	7,139.48	57.10	59.52	-84.38	-2,941.54	-1,801.19	1,056.12	939.38	116.74	9.047		
9,000.00	7,242.29	9,219.51	7,138.94	59.32	61.56	-84.38	-2,942.13	-1,901.19	1,056.12	935.00	121.13	8.719		
9,100.00	7,241.69	9,319.51	7,138.40	61.60	63.69	-84.39	-2,942.72	-2,001.19	1,056.12	930.50	125.62	8.407		
9,200.00	7,241.09	9,419.51	7,137.86	63.92	65.88	-84.39	-2,943.30	-2,101.18	1,056.12	925.91	130.20	8.111		
9,300.00	7,240.50	9,519.51	7,137.31	66.29	68.13	-84.39	-2,943.89	-2,201.18	1,056.12	921.24	134.87	7.830		
9,400.00	7,239.90	9,619.51	7,136.77	68.70	70.43	-84.40	-2,944.48	-2,301.18	1,056.12	916.50	139.62	7.564		
9,500.00	7,239.31	9,719.51	7,136.23	71.14	72.77	-84.40	-2,945.07	-2,401.17	1,056.12	911.68	144.44	7.312		
9,600.00	7,238.71	9,819.51	7,135.69	73.61	75.16	-84.40	-2,945.66	-2,501.17	1,056.11	906.80	149.31	7.073		
9,700.00	7,238.11	9,919.51	7,135.15	76.11	77.58	-84.40	-2,946.24	-2,601.17	1,056.11	901.87	154.24	6.847		
9,800.00	7,237.52	10,019.51	7,134.61	78.64	80.03	-84.41	-2,946.83	-2,701.16	1,056.11	896.89	159.23	6.633		
9,900.00	7,236.92	10,119.51	7,134.07	81.19	82.51	-84.41	-2,947.42	-2,801.16	1,056.11	891.86	164.26	6.430		
10,000.00	7,236.33	10,219.51	7,133.53	83.75	85.01	-84.41	-2,948.01	-2,901.16	1,056.11	886.78	169.33	6.237		
10,100.00	7,235.73	10,319.51	7,132.99	86.34	87.54	-84.42	-2,948.60	-3,001.15	1,056.11	881.67	174.44	6.054		
10,200.00	7,235.14	10,419.51	7,132.44	88.94	90.08	-84.42	-2,949.18	-3,101.15	1,056.11	876.53	179.58	5.881		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	10,519.51	7,131.90	91.56	92.65	-84.42	-2,949.77	-3,201.15	1,056.11	871.35	184.76	5.716		
10,400.00	7,233.94	10,619.51	7,131.36	94.19	95.24	-84.43	-2,950.36	-3,301.14	1,056.10	866.14	189.96	5.560		
10,500.00	7,233.35	10,719.51	7,130.82	96.84	97.84	-84.43	-2,950.95	-3,401.14	1,056.10	860.91	195.19	5.411		
10,600.00	7,232.75	10,819.51	7,130.28	99.50	100.45	-84.43	-2,951.54	-3,501.14	1,056.10	855.65	200.45	5.269		
10,700.00	7,232.16	10,919.51	7,129.74	102.17	103.08	-84.43	-2,952.12	-3,601.13	1,056.10	850.37	205.73	5.133		
10,800.00	7,231.56	11,019.51	7,129.20	104.85	105.72	-84.44	-2,952.71	-3,701.13	1,056.10	845.06	211.04	5.004		
10,900.00	7,230.96	11,119.51	7,128.66	107.53	108.37	-84.44	-2,953.30	-3,801.13	1,056.10	839.74	216.36	4.881		
11,000.00	7,230.37	11,219.51	7,128.12	110.23	111.03	-84.44	-2,953.89	-3,901.13	1,056.10	834.40	221.70	4.764		
11,100.00	7,229.77	11,319.51	7,127.57	112.93	113.71	-84.45	-2,954.48	-4,001.12	1,056.10	829.04	227.06	4.651		
11,200.00	7,229.18	11,419.51	7,127.03	115.65	116.39	-84.45	-2,955.06	-4,101.12	1,056.10	823.66	232.43	4.544		
11,300.00	7,228.58	11,519.51	7,126.49	118.37	119.08	-84.45	-2,955.65	-4,201.12	1,056.09	818.27	237.82	4.441		
11,400.00	7,227.99	11,619.51	7,125.95	121.09	121.77	-84.46	-2,956.24	-4,301.11	1,056.09	812.87	243.22	4.342		
11,500.00	7,227.39	11,719.51	7,125.41	123.82	124.48	-84.46	-2,956.83	-4,401.11	1,056.09	807.45	248.64	4.247		
11,600.00	7,226.79	11,819.51	7,124.87	126.56	127.19	-84.46	-2,957.41	-4,501.11	1,056.09	802.02	254.07	4.157		
11,700.00	7,226.20	11,919.51	7,124.33	129.30	129.91	-84.46	-2,958.00	-4,601.10	1,056.09	796.58	259.51	4.070		
11,800.00	7,225.60	12,019.51	7,123.79	132.05	132.63	-84.47	-2,958.59	-4,701.10	1,056.09	791.13	264.96	3.986		
11,900.00	7,225.01	12,119.51	7,123.25	134.80	135.36	-84.47	-2,959.18	-4,801.10	1,056.09	785.67	270.42	3.905		
12,000.00	7,224.41	12,219.51	7,122.70	137.56	138.10	-84.47	-2,959.77	-4,901.09	1,056.09	780.20	275.89	3.828		
12,100.00	7,223.81	12,319.51	7,122.16	140.32	140.84	-84.48	-2,960.35	-5,001.09	1,056.08	774.72	281.37	3.753		
12,200.00	7,223.22	12,419.51	7,121.62	143.08	143.58	-84.48	-2,960.94	-5,101.09	1,056.08	769.23	286.85	3.682		
12,300.00	7,222.62	12,519.51	7,121.08	145.85	146.33	-84.48	-2,961.53	-5,201.08	1,056.08	763.74	292.35	3.612		
12,400.00	7,222.03	12,619.51	7,120.54	148.62	149.09	-84.49	-2,962.12	-5,301.08	1,056.08	758.23	297.85	3.546		
12,500.00	7,221.43	12,719.51	7,120.00	151.40	151.84	-84.49	-2,962.71	-5,401.08	1,056.08	752.72	303.36	3.481		
12,600.00	7,220.83	12,819.51	7,119.46	154.18	154.60	-84.49	-2,963.29	-5,501.07	1,056.08	747.20	308.87	3.419		
12,700.00	7,220.24	12,919.51	7,118.92	156.96	157.37	-84.49	-2,963.88	-5,601.07	1,056.08	741.68	314.40	3.359		
12,800.00	7,219.64	13,019.51	7,118.38	159.74	160.14	-84.50	-2,964.47	-5,701.07	1,056.08	736.15	319.93	3.301		
12,900.00	7,219.05	13,119.51	7,117.83	162.53	162.91	-84.50	-2,965.06	-5,801.06	1,056.08	730.62	325.46	3.245		
13,000.00	7,218.45	13,219.51	7,117.29	165.32	165.68	-84.50	-2,965.65	-5,901.06	1,056.07	725.08	331.00	3.191		
13,100.00	7,217.86	13,319.51	7,116.75	168.11	168.46	-84.51	-2,966.23	-6,001.06	1,056.07	719.53	336.54	3.138		
13,200.00	7,217.26	13,419.51	7,116.21	170.90	171.24	-84.51	-2,966.82	-6,101.05	1,056.07	713.98	342.09	3.087		
13,300.00	7,216.66	13,519.51	7,115.67	173.70	174.02	-84.51	-2,967.41	-6,201.05	1,056.07	708.42	347.65	3.038		
13,400.00	7,216.07	13,619.51	7,115.13	176.49	176.81	-84.52	-2,968.00	-6,301.05	1,056.07	702.86	353.21	2.990		
13,500.00	7,215.47	13,719.51	7,114.59	179.29	179.59	-84.52	-2,968.59	-6,401.05	1,056.07	697.30	358.77	2.944		
13,600.00	7,214.88	13,819.51	7,114.05	182.09	182.38	-84.52	-2,969.17	-6,501.04	1,056.07	691.73	364.34	2.899		
13,700.00	7,214.28	13,919.51	7,113.51	184.90	185.17	-84.52	-2,969.76	-6,601.04	1,056.07	686.16	369.91	2.855		
13,800.00	7,213.68	14,019.51	7,112.97	187.70	187.97	-84.53	-2,970.35	-6,701.04	1,056.07	680.58	375.48	2.813		
13,900.00	7,213.09	14,119.51	7,112.42	190.51	190.76	-84.53	-2,970.94	-6,801.03	1,056.06	675.00	381.06	2.771		
14,000.00	7,212.49	14,219.51	7,111.88	193.32	193.56	-84.53	-2,971.53	-6,901.03	1,056.06	669.42	386.64	2.731		
14,100.00	7,211.90	14,319.51	7,111.34	196.13	196.36	-84.54	-2,972.11	-7,001.03	1,056.06	663.83	392.23	2.692		
14,200.00	7,211.30	14,419.51	7,110.80	198.94	199.16	-84.54	-2,972.70	-7,101.02	1,056.06	658.24	397.82	2.655		
14,300.00	7,210.71	14,519.51	7,110.26	201.75	201.96	-84.54	-2,973.29	-7,201.02	1,056.06	652.65	403.41	2.618		
14,400.00	7,210.11	14,619.51	7,109.72	204.56	204.77	-84.55	-2,973.88	-7,301.02	1,056.06	647.06	409.00	2.582		
14,500.00	7,209.51	14,719.51	7,109.18	207.38	207.57	-84.55	-2,974.46	-7,401.01	1,056.06	641.46	414.60	2.547		
14,600.00	7,208.92	14,819.51	7,108.64	210.19	210.38	-84.55	-2,975.05	-7,501.01	1,056.06	635.86	420.20	2.513		
14,700.00	7,208.32	14,919.51	7,108.10	213.01	213.19	-84.55	-2,975.64	-7,601.01	1,056.06	630.25	425.80	2.480		
14,800.00	7,207.73	15,019.51	7,107.55	215.83	216.00	-84.56	-2,976.23	-7,701.00	1,056.06	624.65	431.41	2.448		
14,900.00	7,207.13	15,119.51	7,107.01	218.65	218.81	-84.56	-2,976.82	-7,801.00	1,056.05	619.04	437.01	2.417		
15,000.00	7,206.53	15,219.51	7,106.47	221.47	221.62	-84.56	-2,977.40	-7,901.00	1,056.05	613.43	442.62	2.386		
15,100.00	7,205.94	15,319.51	7,105.93	224.29	224.44	-84.57	-2,977.99	-8,000.99	1,056.05	607.82	448.24	2.356		
15,200.00	7,205.34	15,419.51	7,105.39	227.11	227.25	-84.57	-2,978.58	-8,100.99	1,056.05	602.20	453.85	2.327		
15,258.04	7,205.00	15,477.56	7,105.08	228.75	228.88	-84.57	-2,978.92	-8,159.03	1,056.05	598.94	457.11	2.310 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	2.00	0.00	3.28	0.00	0.49	359.94	3.06	359.95					
100.00	100.00	102.00	100.00	3.28	0.18	0.49	359.94	3.06	359.95	356.48	3.47	103.763		
200.00	200.00	202.00	200.00	3.34	0.62	0.49	359.94	3.06	359.95	355.99	3.96	90.895 CC, ES		
300.00	299.98	301.98	299.98	3.44	1.06	175.75	359.94	3.06	361.69	357.19	4.50	80.344		
400.00	399.84	401.84	399.84	3.59	1.50	175.80	359.94	3.06	366.91	361.82	5.09	72.054		
500.00	499.45	501.45	499.45	3.79	1.94	175.89	359.94	3.06	375.60	369.87	5.73	65.556		
600.00	598.70	598.79	586.77	4.03	2.32	175.95	361.30	2.87	389.30	382.93	6.37	61.134		
700.00	697.47	674.88	672.77	4.31	2.70	175.98	365.22	2.34	409.39	402.34	7.05	58.105		
800.00	795.62	759.07	756.72	4.64	3.08	175.96	371.54	1.48	435.72	427.97	7.74	56.270		
900.00	893.06	840.91	838.11	5.00	3.44	175.92	380.01	0.33	468.11	459.66	8.45	55.411		
1,000.00	989.65	920.01	916.50	5.40	3.79	175.85	390.39	-1.08	506.35	497.19	9.16	55.292		
1,100.00	1,085.85	996.77	992.28	5.82	4.14	175.82	402.51	-2.73	548.40	538.56	9.83	55.772		
1,200.00	1,182.06	1,079.63	1,073.76	6.27	4.51	175.75	417.47	-4.77	592.49	581.95	10.53	56.257		
1,300.00	1,278.26	1,169.25	1,161.84	6.73	4.91	175.69	433.88	-7.00	636.84	625.56	11.28	56.468		
1,400.00	1,374.47	1,258.88	1,249.92	7.20	5.31	175.63	450.29	-9.23	681.19	669.15	12.04	56.583		
1,500.00	1,470.67	1,348.50	1,338.00	7.69	5.72	175.58	466.70	-11.46	725.54	712.73	12.81	56.628		
1,600.00	1,566.88	1,438.13	1,426.08	8.18	6.14	175.54	483.11	-13.70	769.89	756.30	13.60	56.622		
1,700.00	1,663.08	1,527.75	1,514.16	8.68	6.56	175.50	499.53	-15.93	814.25	799.86	14.39	56.579		
1,800.00	1,759.29	1,617.38	1,602.24	9.19	6.98	175.46	515.94	-18.16	858.60	843.41	15.19	56.512		
1,900.00	1,855.49	1,707.00	1,690.32	9.70	7.40	175.43	532.35	-20.40	902.95	886.95	16.00	56.427		
2,000.00	1,951.70	1,803.37	1,778.40	10.22	7.85	175.40	548.76	-22.63	947.31	930.46	16.85	56.227		
2,100.00	2,047.90	1,886.25	1,866.49	10.73	8.24	175.38	565.18	-24.86	991.66	974.02	17.64	56.226		
2,200.00	2,144.11	1,975.88	1,954.57	11.26	8.66	175.35	581.59	-27.09	1,036.01	1,017.55	18.46	56.118		
2,300.00	2,240.31	2,065.50	2,042.65	11.78	9.08	175.33	598.00	-29.33	1,080.37	1,061.08	19.29	56.007		
2,400.00	2,336.52	2,155.13	2,130.73	12.31	9.51	175.31	614.41	-31.56	1,124.72	1,104.60	20.12	55.896		
2,500.00	2,432.72	2,244.75	2,218.81	12.84	9.93	175.29	630.83	-33.79	1,169.08	1,148.12	20.96	55.786		
2,600.00	2,528.93	2,334.38	2,306.89	13.37	10.35	175.28	647.24	-36.02	1,213.43	1,191.64	21.79	55.677		
2,700.00	2,625.13	2,424.00	2,394.97	13.91	10.78	175.26	663.65	-38.26	1,257.79	1,235.15	22.63	55.571		
2,800.00	2,721.34	2,513.63	2,483.05	14.44	11.20	175.25	680.06	-40.49	1,302.14	1,278.66	23.48	55.467		
2,900.00	2,817.54	2,603.25	2,571.13	14.98	11.63	175.23	696.47	-42.72	1,346.49	1,322.17	24.32	55.366		
3,000.00	2,913.75	2,707.13	2,659.21	15.52	12.12	175.22	712.89	-44.96	1,390.85	1,365.62	25.23	55.122		
3,100.00	3,009.95	2,782.50	2,747.29	16.06	12.48	175.21	729.30	-47.19	1,435.20	1,409.19	26.01	55.172		
3,200.00	3,106.16	2,872.12	2,835.37	16.60	12.90	175.20	745.71	-49.42	1,479.56	1,452.70	26.86	55.080		
3,300.00	3,202.37	2,961.75	2,923.46	17.14	13.33	175.19	762.12	-51.65	1,523.91	1,496.20	27.71	54.990		
3,400.00	3,298.57	3,051.37	3,011.54	17.68	13.76	175.18	778.54	-53.89	1,568.27	1,539.70	28.56	54.904		
3,500.00	3,394.78	3,141.00	3,099.62	18.22	14.18	175.17	794.95	-56.12	1,612.62	1,583.21	29.42	54.821		
3,600.00	3,490.98	3,230.62	3,187.70	18.76	14.61	175.16	811.36	-58.35	1,656.98	1,626.71	30.27	54.740		
3,700.00	3,587.19	3,320.25	3,275.78	19.31	15.03	175.15	827.77	-60.59	1,701.33	1,670.21	31.12	54.662		
3,800.00	3,683.39	3,409.87	3,363.86	19.85	15.46	175.14	844.18	-62.82	1,745.69	1,713.71	31.98	54.587		
3,900.00	3,779.60	3,499.50	3,451.94	20.39	15.89	175.13	860.60	-65.05	1,790.04	1,757.21	32.84	54.515		
4,000.00	3,875.80	3,589.12	3,540.02	20.94	16.31	175.12	877.01	-67.28	1,834.40	1,800.71	33.69	54.445		
4,100.00	3,972.01	3,678.75	3,628.10	21.48	16.74	175.12	893.42	-69.52	1,878.75	1,844.20	34.55	54.377		
4,200.00	4,068.21	3,768.37	3,716.18	22.03	17.17	175.11	909.83	-71.75	1,923.11	1,887.70	35.41	54.312		
4,300.00	4,164.42	3,858.00	3,804.26	22.57	17.59	175.10	926.25	-73.98	1,967.46	1,931.20	36.27	54.248		
4,400.00	4,260.62	3,947.62	3,892.35	23.12	18.02	175.10	942.66	-76.21	2,011.82	1,974.69	37.13	54.187		
4,500.00	4,356.83	4,037.25	3,980.43	23.67	18.45	175.09	959.07	-78.45	2,056.17	2,018.19	37.99	54.128		
4,600.00	4,453.03	4,126.87	4,068.51	24.21	18.87	175.09	975.48	-80.68	2,100.53	2,061.68	38.85	54.070		
4,700.00	4,549.24	4,216.49	4,156.59	24.76	19.30	175.08	991.90	-82.91	2,144.88	2,105.17	39.71	54.015		
4,800.00	4,645.44	4,306.12	4,244.67	25.31	19.73	175.08	1,008.31	-85.15	2,189.24	2,148.67	40.57	53.961		
4,900.00	4,741.65	4,404.26	4,332.75	25.86	20.20	175.07	1,024.72	-87.38	2,233.59	2,192.12	41.47	53.857		
5,000.00	4,837.85	4,485.37	4,420.83	26.40	20.58	175.07	1,041.13	-89.61	2,277.95	2,235.65	42.30	53.858		
5,100.00	4,934.06	4,574.99	4,508.91	26.95	21.01	175.06	1,057.54	-91.84	2,322.30	2,279.15	43.16	53.809		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,664.62	4,596.99	27.50	21.44	175.06	1,073.96	-94.08	2,366.66	2,322.64	44.02	53.761		
5,300.00	5,126.47	4,754.24	4,685.07	28.05	21.86	175.05	1,090.37	-96.31	2,411.02	2,366.13	44.89	53.715		
5,400.00	5,222.67	4,843.87	4,773.15	28.60	22.29	175.05	1,106.78	-98.54	2,455.37	2,409.62	45.75	53.670		
5,500.00	5,318.88	4,933.49	4,861.23	29.15	22.72	175.04	1,123.19	-100.77	2,499.73	2,453.11	46.61	53.626		
5,600.00	5,415.08	5,023.12	4,949.32	29.70	23.15	175.04	1,139.61	-103.01	2,544.08	2,496.60	47.48	53.584		
5,700.00	5,511.29	5,112.74	5,037.40	30.25	23.57	175.04	1,156.02	-105.24	2,588.44	2,540.09	48.34	53.542		
5,800.00	5,607.49	5,202.37	5,125.48	30.79	24.00	175.03	1,172.43	-107.47	2,632.79	2,583.58	49.21	53.502		
5,900.00	5,703.70	5,308.01	5,213.56	31.34	24.51	175.03	1,188.84	-109.71	2,677.15	2,627.00	50.15	53.383		
6,000.00	5,799.90	5,381.62	5,301.64	31.89	24.86	175.03	1,205.25	-111.94	2,721.50	2,670.56	50.94	53.424		
6,100.00	5,896.11	5,471.24	5,389.72	32.44	25.28	175.02	1,221.67	-114.17	2,765.86	2,714.05	51.81	53.387		
6,200.00	5,992.32	5,560.87	5,477.80	32.99	25.71	175.02	1,238.08	-116.40	2,810.21	2,757.54	52.67	53.350		
6,300.00	6,088.52	5,650.49	5,565.88	33.54	26.14	175.02	1,254.49	-118.64	2,854.57	2,801.03	53.54	53.315		
6,400.00	6,184.73	5,740.11	5,653.96	34.09	26.57	175.01	1,270.90	-120.87	2,898.92	2,844.51	54.41	53.280		
6,500.00	6,280.93	5,829.74	5,742.04	34.64	27.00	175.01	1,287.32	-123.10	2,943.28	2,888.00	55.28	53.246		
6,600.00	6,377.14	5,919.36	5,830.12	35.19	27.42	175.01	1,303.73	-125.33	2,987.63	2,931.49	56.14	53.213		
6,700.00	6,473.34	6,008.99	5,918.21	35.74	27.85	175.01	1,320.14	-127.57	3,031.99	2,974.98	57.01	53.180		
6,800.00	6,569.55	6,101.39	6,006.29	36.29	28.29	175.00	1,336.55	-129.80	3,076.34	3,018.45	57.89	53.137		
6,900.00	6,665.75	6,188.24	6,094.37	36.84	28.71	169.70	1,352.97	-132.03	3,120.70	3,061.95	58.75	53.118		
7,000.00	6,761.11	6,277.32	6,181.91	37.39	29.13	139.33	1,369.28	-134.25	3,164.79	3,105.18	59.61	53.089		
7,100.00	6,853.41	6,363.91	6,267.01	37.89	29.54	119.91	1,385.13	-136.41	3,207.81	3,147.36	60.44	53.073		
7,200.00	6,940.36	6,445.86	6,347.55	38.34	29.94	107.68	1,400.14	-138.45	3,249.02	3,187.80	61.22	53.075		
7,300.00	7,019.83	6,521.16	6,421.56	38.74	30.29	99.44	1,413.93	-140.33	3,287.92	3,225.99	61.93	53.087		
7,400.00	7,089.85	6,587.97	6,487.21	39.10	30.61	93.54	1,426.16	-141.99	3,324.17	3,261.56	62.61	53.090		
7,500.00	7,148.71	6,644.62	6,542.89	39.42	30.88	89.11	1,436.54	-143.40	3,357.52	3,294.23	63.29	53.052		
7,600.00	7,194.95	6,689.73	6,587.22	39.71	31.10	85.69	1,444.80	-144.53	3,387.79	3,323.80	63.99	52.943		
7,700.00	7,227.43	6,722.19	6,619.12	40.01	31.25	83.00	1,450.74	-145.33	3,414.79	3,350.04	64.75	52.736		
7,800.00	7,245.37	6,741.20	6,637.80	40.37	31.35	80.87	1,454.22	-145.81	3,438.32	3,372.73	65.59	52.423		
7,900.00	7,248.84	6,748.43	6,637.80	40.87	31.48	80.18	1,458.98	-146.14	3,444.15	3,367.44	66.00	52.400		
8,000.00	7,248.24	6,748.42	6,637.80	41.62	31.86	80.19	1,457.32	-146.12	3,443.07	3,363.72	66.35	52.389		
8,100.00	7,247.65	6,748.42	6,637.80	42.66	32.40	80.19	1,455.66	-146.10	3,442.00	3,359.68	66.31	52.381		
8,200.00	7,247.05	6,748.41	6,637.80	43.96	33.08	80.19	1,454.00	-146.08	3,440.92	3,355.37	66.55	52.379		
8,300.00	7,246.46	6,748.41	6,637.80	45.46	34.87	80.20	1,452.35	-146.06	3,439.85	3,350.81	66.04	52.361		
8,400.00	7,245.86	6,748.40	6,637.80	47.13	36.77	80.20	1,450.69	-146.04	3,438.78	3,346.02	65.75	52.350		
8,500.00	7,245.27	6,748.39	6,637.80	48.93	38.77	80.20	1,449.03	-146.01	3,437.70	3,341.04	65.66	52.346		
8,600.00	7,244.67	6,748.39	6,637.80	50.84	40.84	80.20	1,447.37	-146.00	3,436.63	3,335.89	65.66	52.346		
8,700.00	7,244.07	6,748.38	6,637.80	52.85	42.99	80.21	1,445.71	-146.00	3,435.55	3,330.59	65.66	52.346		
8,800.00	7,243.48	6,748.38	6,637.80	54.94	45.21	80.21	1,444.05	-146.00	3,434.48	3,325.15	65.66	52.346		
8,900.00	7,242.88	6,748.37	6,637.80	57.10	47.48	80.21	1,442.40	-146.00	3,433.40	3,319.59	65.66	52.346		
9,000.00	7,242.29	6,748.37	6,637.80	59.32	49.80	80.22	1,440.74	-146.00	3,432.33	3,313.92	65.66	52.346		
9,100.00	7,241.69	6,748.36	6,637.80	61.60	52.16	80.22	1,439.08	-146.00	3,431.26	3,308.16	65.66	52.346		
9,200.00	7,241.09	6,748.35	6,637.80	63.92	54.57	80.22	1,437.42	-146.00	3,430.18	3,302.32	65.66	52.346		
9,300.00	7,240.50	6,748.35	6,637.80	66.29	57.01	80.23	1,435.76	-146.00	3,429.11	3,296.40	65.66	52.346		
9,400.00	7,239.90	6,748.34	6,637.80	68.70	59.48	80.23	1,434.10	-146.00	3,428.03	3,290.42	65.66	52.346		
9,500.00	7,239.31	6,748.34	6,637.80	71.14	61.98	80.23	1,432.44	-146.00	3,426.96	3,284.37	65.66	52.346		
9,600.00	7,238.71	6,748.33	6,637.80	73.61	64.51	80.23	1,430.79	-146.00	3,425.89	3,278.28	65.66	52.346		
9,700.00	7,238.11	6,748.32	6,637.80	76.11	67.05	80.24	1,429.13	-146.00	3,424.81	3,272.13	65.66	52.346		
9,800.00	7,237.52	6,748.32	6,637.80	78.64	69.62	80.24	1,427.47	-146.00	3,423.74	3,265.94	65.66	52.346		
9,900.00	7,236.92	6,748.31	6,637.80	81.19	72.21	80.24	1,425.81	-146.00	3,422.66	3,259.71	65.66	52.346		
10,000.00	7,236.33	6,748.31	6,637.80	83.75	74.82	80.25	1,424.15	-146.00	3,421.59	3,253.44	65.66	52.346		
10,100.00	7,235.73	6,748.30	6,637.80	86.34	77.44	80.25	1,422.49	-146.00	3,420.51	3,247.14	65.66	52.346		
10,200.00	7,235.14	6,748.29	6,637.80	88.94	80.08	80.25	1,420.83	-146.00	3,419.44	3,240.81	65.66	52.346		
10,300.00	7,234.54	6,748.29	6,637.80	91.56	82.72	80.26	1,419.18	-146.00	3,418.37	3,234.46	65.66	52.346		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	10,318.28	7,249.17	94.19	95.38	90.26	1,517.52	-3,364.62	3,417.29	3,228.08	189.22	18.060		
10,500.00	7,233.35	10,418.28	7,248.75	96.84	98.06	90.26	1,515.86	-3,464.60	3,416.22	3,221.67	194.55	17.560		
10,600.00	7,232.75	10,518.27	7,248.33	99.50	100.74	90.26	1,514.20	-3,564.58	3,415.14	3,215.25	199.90	17.084		
10,700.00	7,232.16	10,618.26	7,247.91	102.17	103.43	90.27	1,512.54	-3,664.56	3,414.07	3,208.80	205.27	16.632		
10,800.00	7,231.56	10,718.26	7,247.49	104.85	106.13	90.27	1,510.88	-3,764.54	3,413.00	3,202.34	210.66	16.202		
10,900.00	7,230.96	10,818.25	7,247.07	107.53	108.83	90.27	1,509.22	-3,864.52	3,411.92	3,195.86	216.06	15.791		
11,000.00	7,230.37	10,918.25	7,246.64	110.23	111.55	90.28	1,507.57	-3,964.50	3,410.85	3,189.36	221.49	15.400		
11,100.00	7,229.77	11,018.24	7,246.22	112.93	114.27	90.28	1,505.91	-4,064.48	3,409.77	3,182.85	226.92	15.026		
11,200.00	7,229.18	11,118.23	7,245.80	115.65	117.00	90.28	1,504.25	-4,164.46	3,408.70	3,176.33	232.37	14.669		
11,300.00	7,228.58	11,218.23	7,245.38	118.37	119.73	90.29	1,502.59	-4,264.44	3,407.63	3,169.79	237.83	14.328		
11,400.00	7,227.99	11,318.22	7,244.96	121.09	122.47	90.29	1,500.93	-4,364.42	3,406.55	3,163.25	243.31	14.001		
11,500.00	7,227.39	11,418.22	7,244.54	123.82	125.22	90.29	1,499.27	-4,464.40	3,405.48	3,156.69	248.79	13.688		
11,600.00	7,226.79	11,518.21	7,244.12	126.56	127.97	90.30	1,497.61	-4,564.38	3,404.40	3,150.12	254.28	13.388		
11,700.00	7,226.20	11,618.21	7,243.70	129.30	130.72	90.30	1,495.96	-4,664.36	3,403.33	3,143.54	259.79	13.101		
11,800.00	7,225.60	11,718.20	7,243.28	132.05	133.48	90.30	1,494.30	-4,764.34	3,402.26	3,136.96	265.30	12.824		
11,900.00	7,225.01	11,818.19	7,242.86	134.80	136.24	90.30	1,492.64	-4,864.32	3,401.18	3,130.36	270.82	12.559		
12,000.00	7,224.41	11,918.19	7,242.44	137.56	139.01	90.31	1,490.98	-4,964.29	3,400.11	3,123.76	276.35	12.304		
12,100.00	7,223.81	12,018.18	7,242.02	140.32	141.78	90.31	1,489.32	-5,064.27	3,399.03	3,117.15	281.88	12.058		
12,200.00	7,223.22	12,118.18	7,241.60	143.08	144.55	90.31	1,487.66	-5,164.25	3,397.96	3,110.53	287.43	11.822		
12,300.00	7,222.62	12,218.17	7,241.18	145.85	147.32	90.32	1,486.00	-5,264.23	3,396.89	3,103.91	292.98	11.594		
12,400.00	7,222.03	12,318.16	7,240.76	148.62	150.10	90.32	1,484.35	-5,364.21	3,395.81	3,097.28	298.53	11.375		
12,500.00	7,221.43	12,418.16	7,240.34	151.40	152.89	90.32	1,482.69	-5,464.19	3,394.74	3,090.65	304.09	11.164		
12,600.00	7,220.83	12,518.15	7,239.92	154.18	155.67	90.33	1,481.03	-5,564.17	3,393.66	3,084.01	309.66	10.959		
12,700.00	7,220.24	12,618.15	7,239.50	156.96	158.46	90.33	1,479.37	-5,664.15	3,392.59	3,077.36	315.23	10.762		
12,800.00	7,219.64	12,718.14	7,239.08	159.74	161.25	90.33	1,477.71	-5,764.13	3,391.52	3,070.71	320.81	10.572		
12,900.00	7,219.05	12,818.13	7,238.66	162.53	164.04	90.34	1,476.05	-5,864.11	3,390.44	3,064.05	326.39	10.388		
13,000.00	7,218.45	12,918.13	7,238.24	165.32	166.83	90.34	1,474.39	-5,964.09	3,389.37	3,057.39	331.98	10.210		
13,100.00	7,217.86	13,018.12	7,237.82	168.11	169.63	90.34	1,472.74	-6,064.07	3,388.30	3,050.73	337.57	10.037		
13,200.00	7,217.26	13,118.12	7,237.40	170.90	172.42	90.34	1,471.08	-6,164.05	3,387.22	3,044.06	343.16	9.871		
13,300.00	7,216.66	13,218.11	7,236.98	173.70	175.22	90.35	1,469.42	-6,264.03	3,386.15	3,037.39	348.76	9.709		
13,400.00	7,216.07	13,318.10	7,236.56	176.49	178.03	90.35	1,467.76	-6,364.01	3,385.07	3,030.71	354.36	9.553		
13,500.00	7,215.47	13,418.10	7,236.14	179.29	180.83	90.35	1,466.10	-6,463.99	3,384.00	3,024.03	359.97	9.401		
13,600.00	7,214.88	13,518.09	7,235.72	182.09	183.63	90.36	1,464.44	-6,563.97	3,382.93	3,017.35	365.58	9.254		
13,700.00	7,214.28	13,618.09	7,235.30	184.90	186.44	90.36	1,462.79	-6,663.95	3,381.85	3,010.66	371.19	9.111		
13,800.00	7,213.68	13,718.08	7,234.88	187.70	189.25	90.36	1,461.13	-6,763.92	3,380.78	3,003.97	376.81	8.972		
13,900.00	7,213.09	13,818.07	7,234.46	190.51	192.06	90.37	1,459.47	-6,863.90	3,379.70	2,997.28	382.42	8.838		
14,000.00	7,212.49	13,918.07	7,234.04	193.32	194.87	90.37	1,457.81	-6,963.88	3,378.63	2,990.59	388.04	8.707		
14,100.00	7,211.90	14,018.06	7,233.62	196.13	197.68	90.37	1,456.15	-7,063.86	3,377.56	2,983.89	393.67	8.580		
14,200.00	7,211.30	14,118.06	7,233.20	198.94	200.49	90.38	1,454.49	-7,163.84	3,376.48	2,977.19	399.29	8.456		
14,300.00	7,210.71	14,218.05	7,232.78	201.75	203.30	90.38	1,452.83	-7,263.82	3,375.41	2,970.49	404.92	8.336		
14,400.00	7,210.11	14,318.05	7,232.35	204.56	206.12	90.38	1,451.18	-7,363.80	3,374.34	2,963.78	410.55	8.219		
14,500.00	7,209.51	14,418.04	7,231.93	207.38	208.94	90.38	1,449.52	-7,463.78	3,373.26	2,957.08	416.19	8.105		
14,600.00	7,208.92	14,518.03	7,231.51	210.19	211.75	90.39	1,447.86	-7,563.76	3,372.19	2,950.37	421.82	7.994		
14,700.00	7,208.32	14,618.03	7,231.09	213.01	214.57	90.39	1,446.20	-7,663.74	3,371.12	2,943.66	427.46	7.886		
14,800.00	7,207.73	14,718.02	7,230.67	215.83	217.39	90.39	1,444.54	-7,763.72	3,370.04	2,936.94	433.10	7.781		
14,900.00	7,207.13	14,818.02	7,230.25	218.65	220.21	90.40	1,442.88	-7,863.70	3,368.97	2,930.23	438.74	7.679		
15,000.00	7,206.53	14,918.01	7,229.83	221.47	223.03	90.40	1,441.22	-7,963.68	3,367.89	2,923.51	444.38	7.579		
15,100.00	7,205.94	15,018.00	7,229.41	224.29	225.85	90.40	1,439.57	-8,063.66	3,366.82	2,916.79	450.03	7.481		
15,200.00	7,205.34	15,118.21	7,229.00	227.11	228.63	90.41	1,437.94	-8,163.65	3,365.75	2,910.12	455.62	7.387		
15,234.35	7,205.14	15,116.21	7,229.00	228.08	228.63	90.41	1,437.94	-8,161.85	3,365.57	2,908.99	456.58	7.371		
15,258.04	7,205.00	15,116.21	7,229.00	228.75	228.63	90.41	1,437.94	-8,161.85	3,365.66	2,908.44	457.21	7.361 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.50	319.87	2.78	319.88					
100.00	100.00	101.00	100.00	3.28	3.28	0.50	319.87	2.78	319.88	313.31	6.57	48.691		
200.00	200.00	201.00	200.00	3.34	3.34	0.50	319.87	2.78	319.88	313.21	6.67	47.923 CC, ES		
300.00	299.98	300.98	299.98	3.44	3.45	175.76	319.87	2.78	321.62	314.73	6.89	46.705		
400.00	399.84	400.84	399.84	3.59	3.60	175.82	319.87	2.78	326.84	319.64	7.20	45.413		
500.00	499.45	500.45	499.45	3.79	3.81	175.92	319.87	2.78	335.53	327.93	7.60	44.152		
600.00	598.70	599.70	598.70	4.03	4.05	176.05	319.87	2.78	347.69	339.61	8.08	43.031		
700.00	697.47	698.47	697.47	4.31	4.28	176.12	321.17	2.47	364.76	356.15	8.60	42.404		
800.00	795.62	796.62	795.62	4.64	4.54	176.11	325.00	1.55	388.12	378.95	9.17	42.322		
900.00	893.06	894.06	893.06	5.00	4.80	176.03	331.16	0.08	417.61	407.84	9.77	42.747		
1,000.00	989.65	990.65	989.65	5.40	5.08	175.89	339.51	-1.92	453.03	442.64	10.39	43.585		
1,100.00	1,085.85	1,086.85	1,085.85	5.82	5.39	175.78	349.96	-4.43	490.91	479.86	11.05	44.424		
1,200.00	1,182.06	1,183.06	1,182.06	6.27	5.72	175.69	360.41	-6.93	528.79	517.06	11.73	45.068		
1,300.00	1,278.26	1,279.26	1,278.26	6.73	6.06	175.61	370.87	-9.43	566.67	554.23	12.44	45.542		
1,400.00	1,374.47	1,375.47	1,374.47	7.20	6.41	175.54	381.32	-11.94	604.56	591.38	13.17	45.892		
1,500.00	1,470.67	1,471.67	1,470.67	7.69	6.77	175.48	391.77	-14.44	642.44	628.52	13.92	46.147		
1,600.00	1,566.88	1,567.88	1,566.88	8.18	7.17	175.42	402.22	-16.94	680.32	665.60	14.72	46.223		
1,700.00	1,663.08	1,664.08	1,663.08	8.68	7.50	175.38	412.67	-19.45	718.21	702.75	15.46	46.456		
1,800.00	1,759.29	1,760.29	1,759.29	9.19	7.88	175.33	423.12	-21.95	756.09	739.84	16.25	46.538		
1,900.00	1,855.49	1,856.49	1,855.49	9.70	8.26	175.29	433.57	-24.45	793.98	776.93	17.04	46.588		
2,000.00	1,951.70	1,952.70	1,951.70	10.22	8.64	175.26	444.02	-26.96	831.86	814.01	17.85	46.612		
2,100.00	2,047.90	2,048.90	2,047.90	10.73	9.03	175.22	454.48	-29.46	869.75	851.09	18.66	46.617		
2,200.00	2,144.11	2,145.11	2,144.11	11.26	9.42	175.19	464.93	-31.97	907.63	888.16	19.47	46.606		
2,300.00	2,240.31	2,241.31	2,240.31	11.78	9.81	175.17	475.38	-34.47	945.52	925.22	20.30	46.584		
2,400.00	2,336.52	2,337.52	2,336.52	12.31	10.20	175.14	485.83	-36.97	983.40	962.28	21.12	46.553		
2,500.00	2,432.72	2,433.72	2,432.72	12.84	10.60	175.12	496.28	-39.48	1,021.29	999.33	21.96	46.515		
2,600.00	2,528.93	2,529.93	2,528.93	13.37	11.00	175.09	506.73	-41.98	1,059.18	1,036.38	22.79	46.472		
2,700.00	2,625.13	2,626.13	2,625.13	13.91	11.39	175.07	517.18	-44.48	1,097.06	1,073.43	23.63	46.426		
2,800.00	2,721.34	2,722.34	2,721.34	14.44	11.80	175.05	527.63	-46.99	1,134.95	1,110.48	24.47	46.377		
2,900.00	2,817.54	2,818.54	2,817.54	14.98	12.20	175.04	538.08	-49.49	1,172.84	1,147.52	25.32	46.327		
3,000.00	2,913.75	2,914.75	2,913.75	15.52	12.68	175.02	548.54	-51.99	1,210.72	1,184.48	26.24	46.143		
3,100.00	3,009.95	3,010.95	3,009.95	16.06	13.00	175.00	558.99	-54.50	1,248.61	1,221.60	27.01	46.223		
3,200.00	3,106.16	3,107.16	3,106.16	16.60	13.41	174.99	569.44	-57.00	1,286.50	1,258.63	27.86	46.170		
3,300.00	3,202.37	3,203.37	3,202.37	17.14	13.81	174.97	579.89	-59.50	1,324.38	1,295.67	28.72	46.118		
3,400.00	3,298.57	3,299.57	3,298.57	17.68	14.22	174.96	590.34	-62.01	1,362.27	1,332.70	29.57	46.066		
3,500.00	3,394.78	3,395.78	3,394.78	18.22	14.63	174.95	600.79	-64.51	1,400.16	1,369.73	30.43	46.015		
3,600.00	3,490.98	3,491.98	3,490.98	18.76	15.04	174.94	611.24	-67.01	1,438.04	1,406.76	31.29	45.964		
3,700.00	3,587.19	3,588.19	3,587.19	19.31	15.44	174.93	621.69	-69.52	1,475.93	1,443.79	32.15	45.914		
3,800.00	3,683.39	3,684.39	3,683.39	19.85	15.85	174.92	632.15	-72.02	1,513.82	1,480.81	33.01	45.865		
3,900.00	3,779.60	3,780.60	3,779.60	20.39	16.26	174.91	642.60	-74.52	1,551.71	1,517.84	33.87	45.817		
4,000.00	3,875.80	3,876.80	3,875.80	20.94	16.67	174.90	653.05	-77.03	1,589.59	1,554.86	34.73	45.770		
4,100.00	3,972.01	3,973.01	3,972.01	21.48	17.08	174.89	663.50	-79.53	1,627.48	1,591.89	35.59	45.724		
4,200.00	4,068.21	4,069.21	4,068.21	22.03	17.49	174.88	673.95	-82.03	1,665.37	1,628.91	36.46	45.679		
4,300.00	4,164.42	4,165.42	4,164.42	22.57	17.95	174.87	684.40	-84.54	1,703.26	1,665.88	37.37	45.575		
4,400.00	4,260.62	4,261.62	4,260.62	23.12	18.32	174.86	694.85	-87.04	1,741.14	1,702.95	38.19	45.593		
4,500.00	4,356.83	4,357.83	4,356.83	23.67	18.73	174.85	705.30	-89.54	1,779.03	1,739.98	39.06	45.551		
4,600.00	4,453.03	4,454.03	4,453.03	24.21	19.14	174.85	715.76	-92.05	1,816.92	1,776.99	39.92	45.510		
4,700.00	4,549.24	4,550.24	4,549.24	24.76	19.55	174.84	726.21	-94.55	1,854.81	1,814.01	40.79	45.470		
4,800.00	4,645.44	4,646.44	4,645.44	25.31	19.97	174.83	736.66	-97.05	1,892.69	1,851.03	41.66	45.431		
4,900.00	4,741.65	4,742.65	4,741.65	25.86	20.38	174.83	747.11	-99.56	1,930.58	1,888.05	42.53	45.393		
5,000.00	4,837.85	4,838.85	4,837.85	26.40	20.79	174.82	757.56	-102.06	1,968.47	1,925.07	43.40	45.356		
5,100.00	4,934.06	4,935.06	4,934.06	26.95	21.21	174.81	768.01	-104.56	2,006.36	1,962.09	44.27	45.320		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,827.34	4,799.24	27.50	21.62	174.81	778.46	-107.07	2,044.24	1,999.10	45.14	45.285		
5,300.00	5,126.47	4,919.88	4,891.16	28.05	22.03	174.80	788.91	-109.57	2,082.13	2,036.12	46.01	45.250		
5,400.00	5,222.67	5,012.43	4,983.08	28.60	22.45	174.80	799.37	-112.07	2,120.02	2,073.13	46.89	45.217		
5,500.00	5,318.88	5,104.97	5,075.00	29.15	22.86	174.79	809.82	-114.58	2,157.91	2,110.15	47.76	45.184		
5,600.00	5,415.08	5,202.48	5,166.91	29.70	23.30	174.79	820.27	-117.08	2,195.80	2,147.14	48.65	45.131		
5,700.00	5,511.29	5,309.94	5,258.83	30.25	23.78	174.78	830.72	-119.58	2,233.68	2,184.09	49.59	45.040		
5,800.00	5,607.49	5,382.61	5,350.75	30.79	24.11	174.78	841.17	-122.09	2,271.57	2,221.19	50.38	45.090		
5,900.00	5,703.70	5,475.15	5,442.67	31.34	24.52	174.77	851.62	-124.59	2,309.46	2,258.21	51.25	45.060		
6,000.00	5,799.90	5,567.69	5,534.59	31.89	24.94	174.77	862.07	-127.10	2,347.35	2,295.22	52.13	45.031		
6,100.00	5,896.11	5,660.24	5,626.51	32.44	25.35	174.76	872.52	-129.60	2,385.23	2,332.23	53.00	45.002		
6,200.00	5,992.32	5,752.78	5,718.43	32.99	25.77	174.76	882.98	-132.10	2,423.12	2,369.24	53.88	44.974		
6,300.00	6,088.52	5,845.33	5,810.34	33.54	26.18	174.76	893.43	-134.61	2,461.01	2,406.26	54.75	44.947		
6,400.00	6,184.73	5,937.87	5,902.26	34.09	26.60	174.75	903.88	-137.11	2,498.90	2,443.27	55.63	44.920		
6,500.00	6,280.93	6,030.42	5,994.18	34.64	27.01	174.75	914.33	-139.61	2,536.79	2,480.28	56.51	44.894		
6,600.00	6,377.14	6,122.96	6,086.10	35.19	27.43	174.74	924.78	-142.12	2,574.67	2,517.29	57.38	44.868		
6,700.00	6,473.34	6,215.51	6,178.02	35.74	27.85	174.74	935.23	-144.62	2,612.56	2,554.30	58.26	44.843		
6,800.00	6,569.55	6,308.05	6,269.94	36.29	28.26	174.74	945.68	-147.12	2,650.45	2,591.31	59.14	44.819		
6,900.00	6,665.75	6,401.11	6,362.34	36.84	28.68	169.53	956.18	-150.28	2,688.33	2,628.31	60.02	44.791		
7,000.00	6,761.11	6,495.38	6,454.94	37.39	29.10	139.71	966.63	-163.96	2,725.89	2,664.98	60.91	44.750		
7,100.00	6,853.41	6,590.15	6,544.99	37.89	29.52	120.60	976.70	-191.43	2,762.26	2,700.46	61.79	44.701		
7,200.00	6,940.36	6,685.99	6,630.93	38.34	29.94	108.50	986.20	-232.56	2,796.53	2,733.87	62.66	44.627		
7,300.00	7,019.83	6,783.34	6,710.95	38.74	30.38	100.32	994.93	-287.12	2,827.87	2,764.32	63.55	44.496		
7,400.00	7,089.85	6,882.48	6,783.01	39.10	30.88	94.50	1,002.66	-354.64	2,855.51	2,790.99	64.52	44.258		
7,500.00	7,148.71	6,983.52	6,844.83	39.42	31.49	90.31	1,009.14	-434.15	2,878.76	2,813.11	65.65	43.850		
7,600.00	7,194.95	7,086.32	6,894.13	39.71	32.28	87.35	1,014.12	-524.10	2,897.05	2,830.01	67.04	43.215		
7,700.00	7,227.43	7,190.52	6,928.78	40.01	33.25	85.40	1,017.38	-622.20	2,909.91	2,841.15	68.75	42.323		
7,800.00	7,245.37	7,295.57	6,947.16	40.37	34.41	84.35	1,018.74	-725.49	2,917.02	2,846.21	70.81	41.195		
7,900.00	7,248.84	7,401.34	6,948.88	40.87	35.72	84.12	1,018.33	-828.49	2,918.43	2,845.25	73.18	39.882		
8,000.00	7,248.24	7,501.34	6,949.58	41.62	37.14	84.13	1,017.59	-928.49	2,918.25	2,842.43	75.82	38.489		
8,100.00	7,247.65	7,601.34	6,949.28	42.66	38.72	84.13	1,016.85	-1,028.48	2,918.06	2,839.28	78.79	37.038		
8,200.00	7,247.05	7,701.34	6,948.98	43.96	40.44	84.14	1,016.11	-1,128.48	2,917.88	2,835.84	82.04	35.566		
8,300.00	7,246.46	7,801.34	6,948.69	45.46	42.28	84.14	1,015.38	-1,228.48	2,917.69	2,832.14	85.55	34.105		
8,400.00	7,245.86	7,901.34	6,948.39	47.13	44.23	84.15	1,014.64	-1,328.47	2,917.51	2,828.23	89.28	32.677		
8,500.00	7,245.27	8,001.34	6,948.09	48.93	46.27	84.15	1,013.90	-1,428.47	2,917.33	2,824.11	93.22	31.296		
8,600.00	7,244.67	8,101.34	6,947.79	50.84	48.39	84.16	1,013.16	-1,528.47	2,917.14	2,819.82	97.32	29.974		
8,700.00	7,244.07	8,201.34	6,947.49	52.85	50.59	84.16	1,012.43	-1,628.46	2,916.96	2,815.38	101.58	28.715		
8,800.00	7,243.48	8,301.34	6,947.19	54.94	52.85	84.17	1,011.69	-1,728.46	2,916.78	2,810.80	105.98	27.523		
8,900.00	7,242.88	8,401.35	6,946.90	57.10	55.17	84.18	1,010.95	-1,828.46	2,916.59	2,806.10	110.49	26.397		
9,000.00	7,242.29	8,501.35	6,946.60	59.32	57.54	84.18	1,010.21	-1,928.45	2,916.41	2,801.30	115.11	25.336		
9,100.00	7,241.69	8,601.35	6,946.30	61.60	59.94	84.19	1,009.47	-2,028.45	2,916.23	2,796.41	119.82	24.339		
9,200.00	7,241.09	8,701.35	6,946.00	63.92	62.39	84.19	1,008.74	-2,128.44	2,916.04	2,791.43	124.61	23.401		
9,300.00	7,240.50	8,801.35	6,945.70	66.29	64.87	84.20	1,008.00	-2,228.44	2,915.86	2,786.38	129.48	22.520		
9,400.00	7,239.90	8,901.35	6,945.40	68.70	67.38	84.20	1,007.26	-2,328.44	2,915.68	2,781.27	134.41	21.693		
9,500.00	7,239.31	9,001.35	6,945.10	71.14	69.92	84.21	1,006.52	-2,428.43	2,915.49	2,776.10	139.40	20.915		
9,600.00	7,238.71	9,101.35	6,944.81	73.61	72.48	84.21	1,005.79	-2,528.43	2,915.31	2,770.87	144.44	20.184		
9,700.00	7,238.11	9,201.35	6,944.51	76.11	75.06	84.22	1,005.05	-2,628.43	2,915.13	2,765.60	149.53	19.496		
9,800.00	7,237.52	9,301.35	6,944.21	78.64	77.66	84.23	1,004.31	-2,728.42	2,914.94	2,760.29	154.66	18.848		
9,900.00	7,236.92	9,401.35	6,943.91	81.19	80.28	84.23	1,003.57	-2,828.42	2,914.76	2,754.94	159.83	18.237		
10,000.00	7,236.33	9,501.35	6,943.61	83.75	82.92	84.24	1,002.83	-2,928.41	2,914.58	2,749.55	165.03	17.661		
10,100.00	7,235.73	9,601.35	6,943.31	86.34	85.56	84.24	1,002.10	-3,028.41	2,914.40	2,744.13	170.26	17.117		
10,200.00	7,235.14	9,701.35	6,943.02	88.94	88.23	84.25	1,001.36	-3,128.41	2,914.21	2,738.68	175.53	16.602		
10,300.00	7,234.54	9,801.35	6,942.72	91.56	90.90	84.25	1,000.62	-3,228.40	2,914.03	2,733.21	180.82	16.116		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,400.00	7,233.94	9,901.35	6,942.42	94.19	93.59	84.26	999.88	-3,328.40	2,913.85	2,727.71	186.13	15.655		
10,500.00	7,233.35	10,001.35	6,942.12	96.84	96.28	84.26	999.15	-3,428.40	2,913.66	2,722.19	191.47	15.217		
10,600.00	7,232.75	10,101.35	6,941.82	99.50	98.98	84.27	998.41	-3,528.39	2,913.48	2,716.65	196.83	14.802		
10,700.00	7,232.16	10,201.36	6,941.52	102.17	101.70	84.28	997.67	-3,628.39	2,913.30	2,711.10	202.20	14.408		
10,800.00	7,231.56	10,301.36	6,941.23	104.85	104.42	84.28	996.93	-3,728.38	2,913.11	2,705.52	207.59	14.033		
10,900.00	7,230.96	10,401.36	6,940.93	107.53	107.15	84.29	996.19	-3,828.38	2,912.93	2,699.93	213.00	13.676		
11,000.00	7,230.37	10,501.36	6,940.63	110.23	109.88	84.29	995.46	-3,928.38	2,912.75	2,694.33	218.42	13.335		
11,100.00	7,229.77	10,601.36	6,940.33	112.93	112.62	84.30	994.72	-4,028.37	2,912.57	2,688.71	223.86	13.011		
11,200.00	7,229.18	10,701.36	6,940.03	115.65	115.37	84.30	993.98	-4,128.37	2,912.38	2,683.08	229.31	12.701		
11,300.00	7,228.58	10,801.36	6,939.73	118.37	118.12	84.31	993.24	-4,228.37	2,912.20	2,677.43	234.77	12.405		
11,400.00	7,227.99	10,901.36	6,939.44	121.09	120.87	84.31	992.51	-4,328.36	2,912.02	2,671.78	240.24	12.121		
11,500.00	7,227.39	11,001.36	6,939.14	123.82	123.64	84.32	991.77	-4,428.36	2,911.84	2,666.11	245.72	11.850		
11,600.00	7,226.79	11,101.36	6,938.84	126.56	126.40	84.32	991.03	-4,528.35	2,911.65	2,660.44	251.21	11.590		
11,700.00	7,226.20	11,201.36	6,938.54	129.30	129.17	84.33	990.29	-4,628.35	2,911.47	2,654.75	256.72	11.341		
11,800.00	7,225.60	11,301.36	6,938.24	132.05	131.94	84.34	989.55	-4,728.35	2,911.29	2,649.06	262.22	11.102		
11,900.00	7,225.01	11,401.36	6,937.94	134.80	134.72	84.34	988.82	-4,828.34	2,911.10	2,643.36	267.74	10.873		
12,000.00	7,224.41	11,501.36	6,937.65	137.56	137.50	84.35	988.08	-4,928.34	2,910.92	2,637.66	273.27	10.652		
12,100.00	7,223.81	11,601.36	6,937.35	140.32	140.28	84.35	987.34	-5,028.34	2,910.74	2,631.94	278.80	10.440		
12,200.00	7,223.22	11,701.36	6,937.05	143.08	143.07	84.36	986.60	-5,128.33	2,910.56	2,626.22	284.34	10.236		
12,300.00	7,222.62	11,801.36	6,936.75	145.85	145.86	84.36	985.87	-5,228.33	2,910.37	2,620.49	289.88	10.040		
12,400.00	7,222.03	11,901.36	6,936.45	148.62	148.65	84.37	985.13	-5,328.32	2,910.19	2,614.76	295.43	9.851		
12,500.00	7,221.43	12,001.37	6,936.15	151.40	151.44	84.37	984.39	-5,428.32	2,910.01	2,609.02	300.99	9.668		
12,600.00	7,220.83	12,101.37	6,935.86	154.18	154.24	84.38	983.65	-5,528.32	2,909.83	2,603.28	306.55	9.492		
12,700.00	7,220.24	12,201.37	6,935.56	156.96	157.04	84.39	982.91	-5,628.31	2,909.64	2,597.53	312.11	9.322		
12,800.00	7,219.64	12,301.37	6,935.26	159.74	159.84	84.39	982.18	-5,728.31	2,909.46	2,591.78	317.68	9.158		
12,900.00	7,219.05	12,398.63	6,934.96	162.53	162.57	84.40	981.44	-5,828.31	2,909.28	2,586.10	323.18	9.002		
13,000.00	7,218.45	12,501.37	6,934.66	165.32	165.45	84.40	980.70	-5,928.30	2,909.10	2,580.26	328.84	8.847		
13,100.00	7,217.86	12,601.37	6,934.36	168.11	168.25	84.41	979.96	-6,028.30	2,908.92	2,574.49	334.42	8.698		
13,200.00	7,217.26	12,701.37	6,934.07	170.90	171.06	84.41	979.23	-6,128.29	2,908.73	2,568.72	340.01	8.555		
13,300.00	7,216.66	12,801.37	6,933.77	173.70	173.87	84.42	978.49	-6,228.29	2,908.55	2,562.95	345.60	8.416		
13,400.00	7,216.07	12,901.37	6,933.47	176.49	176.68	84.42	977.75	-6,328.29	2,908.37	2,557.17	351.20	8.281		
13,500.00	7,215.47	13,001.37	6,933.17	179.29	179.50	84.43	977.01	-6,428.28	2,908.19	2,551.39	356.80	8.151		
13,600.00	7,214.88	13,101.37	6,932.87	182.09	182.31	84.44	976.27	-6,528.28	2,908.00	2,545.61	362.40	8.024		
13,700.00	7,214.28	13,201.37	6,932.57	184.90	185.13	84.44	975.54	-6,628.28	2,907.82	2,539.82	368.00	7.902		
13,800.00	7,213.68	13,301.37	6,932.27	187.70	187.94	84.45	974.80	-6,728.27	2,907.64	2,534.03	373.61	7.783		
13,900.00	7,213.09	13,401.37	6,931.98	190.51	190.76	84.45	974.06	-6,828.27	2,907.46	2,528.24	379.22	7.667		
14,000.00	7,212.49	13,501.37	6,931.68	193.32	193.58	84.46	973.32	-6,928.27	2,907.28	2,522.45	384.83	7.555		
14,100.00	7,211.90	13,601.37	6,931.38	196.13	196.40	84.46	972.59	-7,028.26	2,907.09	2,516.65	390.45	7.446		
14,200.00	7,211.30	13,701.38	6,931.08	198.94	199.22	84.47	971.85	-7,128.26	2,906.91	2,510.85	396.06	7.339		
14,300.00	7,210.71	13,801.38	6,930.78	201.75	202.05	84.47	971.11	-7,228.25	2,906.73	2,505.05	401.68	7.236		
14,400.00	7,210.11	13,901.38	6,930.48	204.56	204.87	84.48	970.37	-7,328.25	2,906.55	2,499.24	407.31	7.136		
14,500.00	7,209.51	14,001.38	6,930.19	207.38	207.70	84.49	969.63	-7,428.25	2,906.37	2,493.44	412.93	7.038		
14,600.00	7,208.92	14,101.38	6,929.89	210.19	210.52	84.49	968.90	-7,528.24	2,906.19	2,487.63	418.56	6.943		
14,700.00	7,208.32	14,201.38	6,929.59	213.01	213.35	84.50	968.16	-7,628.24	2,906.00	2,481.82	424.19	6.851		
14,800.00	7,207.73	14,301.38	6,929.29	215.83	216.17	84.50	967.42	-7,728.24	2,905.82	2,476.00	429.82	6.761		
14,900.00	7,207.13	14,401.38	6,928.99	218.65	219.00	84.51	966.68	-7,828.23	2,905.64	2,470.19	435.45	6.673		
15,000.00	7,206.53	14,501.38	6,928.69	221.47	221.83	84.51	965.95	-7,928.23	2,905.46	2,464.37	441.08	6.587		
15,100.00	7,205.94	14,601.38	6,928.40	224.29	224.66	84.52	965.21	-8,028.22	2,905.28	2,458.56	446.72	6.504		
15,200.00	7,205.34	14,701.38	6,928.10	227.11	227.49	84.52	964.47	-8,128.22	2,905.09	2,452.74	452.36	6.422		
15,238.46	7,205.11	14,732.12	6,928.00	228.20	228.36	84.53	964.22	-8,161.72	2,905.03	2,450.73	454.30	6.394		
15,258.04	7,205.00	14,732.12	6,928.00	228.75	228.36	84.53	964.22	-8,161.72	2,905.09	2,450.28	454.81	6.387 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.47	339.91	2.78	339.92					
100.00	100.00	101.00	100.00	3.28	3.28	0.47	339.91	2.78	339.92	333.35	6.57	51.742		
200.00	200.00	201.00	200.00	3.34	3.34	0.47	339.91	2.78	339.92	333.25	6.67	50.926 CC, ES		
300.00	299.98	300.98	299.98	3.44	3.45	175.73	339.91	2.78	341.66	334.78	6.89	49.615		
400.00	399.84	400.84	399.84	3.59	3.60	175.79	339.91	2.78	346.88	339.69	7.20	48.198		
500.00	499.45	500.45	499.45	3.79	3.81	175.88	339.91	2.78	355.58	347.98	7.60	46.789		
600.00	598.70	599.70	598.70	4.03	4.05	176.00	339.91	2.78	367.73	359.65	8.08	45.511		
700.00	697.47	698.47	697.47	4.31	4.28	176.09	341.22	2.57	384.81	376.21	8.60	44.745		
800.00	795.62	796.62	795.62	4.64	4.53	176.12	345.04	1.96	408.21	399.04	9.17	44.531		
900.00	893.06	894.06	893.06	5.00	4.80	176.10	351.19	0.96	437.76	428.00	9.76	44.838		
1,000.00	989.65	990.65	989.65	5.40	5.06	176.05	359.43	-0.36	473.27	462.88	10.38	45.580		
1,100.00	1,085.85	1,086.85	1,085.85	5.82	5.34	176.01	369.59	-2.00	512.67	501.69	10.98	46.671		
1,200.00	1,182.06	1,183.06	1,182.06	6.27	5.65	175.93	382.23	-4.04	554.37	542.74	11.63	47.659		
1,300.00	1,278.26	1,279.26	1,278.26	6.73	5.96	175.84	396.71	-6.37	596.58	584.28	12.30	48.516		
1,400.00	1,374.47	1,375.47	1,374.47	7.20	6.30	175.77	411.19	-8.70	638.78	625.78	13.01	49.110		
1,500.00	1,470.67	1,471.67	1,470.67	7.69	6.65	175.70	425.67	-11.03	680.99	667.26	13.74	49.579		
1,600.00	1,566.88	1,567.88	1,566.88	8.18	7.01	175.64	440.15	-13.36	723.20	708.72	14.48	49.945		
1,700.00	1,663.08	1,664.08	1,663.08	8.68	7.38	175.59	454.63	-15.70	765.41	750.17	15.24	50.231		
1,800.00	1,759.29	1,760.29	1,759.29	9.19	7.75	175.55	469.11	-18.03	807.62	791.61	16.01	50.451		
1,900.00	1,855.49	1,856.49	1,855.49	9.70	8.13	175.51	483.59	-20.36	849.83	833.05	16.79	50.621		
2,000.00	1,951.70	1,952.70	1,951.70	10.22	8.51	175.47	498.06	-22.69	892.04	874.47	17.58	50.751		
2,100.00	2,047.90	2,048.90	2,047.90	10.73	8.90	175.43	512.54	-25.02	934.26	915.88	18.37	50.848		
2,200.00	2,144.11	2,145.11	2,144.11	11.26	9.29	175.40	527.02	-27.36	976.47	957.29	19.18	50.918		
2,300.00	2,240.31	2,241.31	2,240.31	11.78	9.68	175.37	541.50	-29.69	1,018.68	998.69	19.99	50.969		
2,400.00	2,336.52	2,337.52	2,336.52	12.31	10.08	175.35	555.98	-32.02	1,060.89	1,040.09	20.80	51.002		
2,500.00	2,432.72	2,433.72	2,432.72	12.84	10.48	175.32	570.46	-34.35	1,103.10	1,081.48	21.62	51.022		
2,600.00	2,528.93	2,529.93	2,528.93	13.37	10.88	175.30	584.94	-36.68	1,145.32	1,122.87	22.44	51.031		
2,700.00	2,625.13	2,626.13	2,625.13	13.91	11.28	175.28	599.42	-39.02	1,187.53	1,164.26	23.27	51.032		
2,800.00	2,721.34	2,722.34	2,721.34	14.44	11.68	175.26	613.90	-41.35	1,229.74	1,205.64	24.10	51.025		
2,900.00	2,817.54	2,818.54	2,817.54	14.98	12.09	175.24	628.37	-43.68	1,271.95	1,247.02	24.93	51.013		
3,000.00	2,913.75	2,914.75	2,913.75	15.52	12.49	175.23	642.85	-46.01	1,314.17	1,288.40	25.77	50.996		
3,100.00	3,009.95	3,010.95	3,009.95	16.06	12.90	175.21	657.33	-48.35	1,356.38	1,329.77	26.61	50.975		
3,200.00	3,106.16	3,107.16	3,106.16	16.60	13.31	175.20	671.81	-50.68	1,398.59	1,371.14	27.45	50.952		
3,300.00	3,202.37	3,203.37	3,202.37	17.14	13.72	175.18	686.29	-53.01	1,440.81	1,412.51	28.29	50.926		
3,400.00	3,298.57	3,299.57	3,298.57	17.68	14.21	175.17	700.77	-55.34	1,483.02	1,453.81	29.21	50.768		
3,500.00	3,394.78	3,395.78	3,394.78	18.22	14.54	175.16	715.25	-57.67	1,525.23	1,495.25	29.98	50.870		
3,600.00	3,490.98	3,491.98	3,490.98	18.76	14.95	175.14	729.73	-60.01	1,567.45	1,536.62	30.83	50.840		
3,700.00	3,587.19	3,588.19	3,587.19	19.31	15.37	175.13	744.21	-62.34	1,609.66	1,577.98	31.68	50.810		
3,800.00	3,683.39	3,684.39	3,683.39	19.85	15.78	175.12	758.68	-64.67	1,651.87	1,619.34	32.53	50.779		
3,900.00	3,779.60	3,780.60	3,779.60	20.39	16.19	175.11	773.16	-67.00	1,694.09	1,660.70	33.38	50.748		
4,000.00	3,875.80	3,876.80	3,875.80	20.94	16.61	175.10	787.64	-69.33	1,736.30	1,702.06	34.24	50.716		
4,100.00	3,972.01	3,973.01	3,972.01	21.48	17.02	175.09	802.12	-71.67	1,778.51	1,743.42	35.09	50.685		
4,200.00	4,068.21	4,069.21	4,068.21	22.03	17.44	175.08	816.60	-74.00	1,820.73	1,784.78	35.94	50.653		
4,300.00	4,164.42	4,165.42	4,164.42	22.57	17.85	175.08	831.08	-76.33	1,862.94	1,826.14	36.80	50.622		
4,400.00	4,260.62	4,261.62	4,260.62	23.12	18.29	175.07	845.56	-78.66	1,905.15	1,867.48	37.68	50.568		
4,500.00	4,356.83	4,357.83	4,356.83	23.67	18.68	175.06	860.04	-80.99	1,947.37	1,908.85	38.52	50.561		
4,600.00	4,453.03	4,454.03	4,453.03	24.21	19.10	175.05	874.51	-83.33	1,989.58	1,950.21	39.37	50.530		
4,700.00	4,549.24	4,550.24	4,549.24	24.76	19.52	175.05	888.99	-85.66	2,031.80	1,991.56	40.23	50.500		
4,800.00	4,645.44	4,646.44	4,645.44	25.31	19.94	175.04	903.47	-87.99	2,074.01	2,032.92	41.09	50.471		
4,900.00	4,741.65	4,742.65	4,741.65	25.86	20.35	175.03	917.95	-90.32	2,116.22	2,074.27	41.95	50.441		
5,000.00	4,837.85	4,838.85	4,837.85	26.40	20.77	175.03	932.43	-92.65	2,158.44	2,115.62	42.82	50.413		
5,100.00	4,934.06	4,935.06	4,934.06	26.95	21.19	175.02	946.91	-94.99	2,200.65	2,156.97	43.68	50.384		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,723.32	4,672.10	27.50	21.61	175.02	961.39	-97.32	2,242.86	2,198.33	44.54	50.356		
5,300.00	5,126.47	4,813.98	4,761.55	28.05	22.03	175.01	975.87	-99.65	2,285.08	2,239.68	45.40	50.329		
5,400.00	5,222.67	4,904.63	4,851.01	28.60	22.45	175.00	990.35	-101.98	2,327.29	2,281.03	46.27	50.302		
5,500.00	5,318.88	5,004.72	4,940.47	29.15	22.91	175.00	1,004.82	-104.32	2,369.51	2,322.33	47.17	50.230		
5,600.00	5,415.08	5,085.94	5,029.93	29.70	23.28	174.99	1,019.30	-106.65	2,411.72	2,363.73	48.00	50.249		
5,700.00	5,511.29	5,176.59	5,119.39	30.25	23.70	174.99	1,033.78	-108.98	2,453.93	2,405.07	48.86	50.224		
5,800.00	5,607.49	5,267.24	5,208.85	30.79	24.12	174.99	1,048.26	-111.31	2,496.15	2,446.42	49.73	50.198		
5,900.00	5,703.70	5,357.89	5,298.31	31.34	24.54	174.98	1,062.74	-113.64	2,538.36	2,487.77	50.59	50.174		
6,000.00	5,799.90	5,448.55	5,387.77	31.89	24.96	174.98	1,077.22	-115.98	2,580.58	2,529.12	51.46	50.149		
6,100.00	5,896.11	5,539.20	5,477.23	32.44	25.38	174.97	1,091.70	-118.31	2,622.79	2,570.47	52.32	50.125		
6,200.00	5,992.32	5,629.85	5,566.68	32.99	25.80	174.97	1,106.18	-120.64	2,665.00	2,611.81	53.19	50.102		
6,300.00	6,088.52	5,720.51	5,656.14	33.54	26.22	174.96	1,120.66	-122.97	2,707.22	2,653.16	54.06	50.078		
6,400.00	6,184.73	5,811.16	5,745.60	34.09	26.64	174.96	1,135.13	-125.30	2,749.43	2,694.50	54.93	50.056		
6,500.00	6,280.93	5,901.81	5,835.06	34.64	27.06	174.96	1,149.61	-127.64	2,791.65	2,735.85	55.80	50.033		
6,600.00	6,377.14	6,007.54	5,924.52	35.19	27.56	174.95	1,164.09	-129.97	2,833.86	2,777.13	56.73	49.950		
6,700.00	6,473.34	6,083.12	6,013.98	35.74	27.91	174.95	1,178.57	-132.30	2,876.07	2,818.54	57.53	49.989		
6,800.00	6,569.55	6,173.77	6,103.44	36.29	28.33	174.95	1,193.05	-134.63	2,918.29	2,859.89	58.40	49.968		
6,900.00	6,665.75	6,264.42	6,192.89	36.84	28.75	169.68	1,207.53	-136.96	2,960.50	2,901.23	59.27	49.947		
7,000.00	6,761.11	6,354.54	6,281.82	37.39	29.17	139.58	1,221.92	-139.28	3,002.46	2,942.32	60.14	49.927		
7,100.00	6,853.41	6,442.13	6,368.26	37.89	29.57	120.42	1,235.91	-141.54	3,043.39	2,982.42	60.97	49.919		
7,200.00	6,940.36	6,525.05	6,450.09	38.34	29.96	108.44	1,249.16	-143.67	3,082.64	3,020.90	61.74	49.927		
7,300.00	7,019.83	6,601.81	6,525.84	38.74	30.32	100.44	1,261.42	-145.65	3,119.79	3,057.32	62.47	49.941		
7,400.00	7,089.85	6,731.10	6,652.26	39.10	30.91	95.42	1,281.42	-162.31	3,153.87	3,090.15	63.72	49.496		
7,500.00	7,148.71	6,896.61	6,804.96	39.42	31.64	92.25	1,304.30	-220.59	3,183.29	3,117.96	65.33	48.729		
7,600.00	7,194.95	7,000.00	6,957.54	39.71	35.17	90.28	1,325.20	-336.26	3,206.32	3,136.27	70.05	45.773		
7,700.00	7,227.43	7,390.01	7,110.04	40.01	34.43	89.24	1,341.39	-590.80	3,220.72	3,150.17	70.56	45.647		
7,800.00	7,245.37	7,621.53	7,139.87	40.37	36.96	88.15	1,338.49	-819.20	3,225.08	3,150.96	74.12	43.514		
7,900.00	7,248.84	7,721.36	7,139.43	40.87	38.30	88.06	1,335.04	-918.97	3,223.48	3,146.96	76.52	42.124		
8,000.00	7,248.24	7,821.32	7,139.00	41.62	39.79	88.07	1,331.58	-1,018.87	3,220.60	3,141.33	79.27	40.626		
8,100.00	7,247.65	7,921.28	7,138.57	42.66	41.43	88.07	1,328.12	-1,118.77	3,217.72	3,135.40	82.33	39.085		
8,200.00	7,247.05	8,021.24	7,138.13	43.96	43.19	88.07	1,324.66	-1,218.67	3,214.84	3,129.19	85.65	37.535		
8,300.00	7,246.46	8,121.20	7,137.70	45.46	45.06	88.07	1,321.20	-1,318.56	3,211.96	3,122.75	89.21	36.003		
8,400.00	7,245.86	8,221.15	7,137.27	47.13	47.04	88.07	1,317.74	-1,418.46	3,209.08	3,116.09	92.99	34.510		
8,500.00	7,245.27	8,321.11	7,136.83	48.93	49.09	88.07	1,314.28	-1,518.36	3,206.20	3,109.24	96.96	33.069		
8,600.00	7,244.67	8,421.07	7,136.40	50.84	51.23	88.07	1,310.83	-1,618.26	3,203.32	3,102.23	101.09	31.689		
8,700.00	7,244.07	8,521.03	7,135.97	52.85	53.43	88.07	1,307.37	-1,718.15	3,200.44	3,095.07	105.37	30.374		
8,800.00	7,243.48	8,620.99	7,135.53	54.94	55.69	88.07	1,303.91	-1,818.05	3,197.56	3,087.78	109.77	29.128		
8,900.00	7,242.88	8,720.95	7,135.10	57.10	58.00	88.08	1,300.45	-1,917.95	3,194.68	3,080.38	114.30	27.951		
9,000.00	7,242.29	8,820.91	7,134.67	59.32	60.35	88.08	1,296.99	-2,017.85	3,191.80	3,072.87	118.92	26.839		
9,100.00	7,241.69	8,920.86	7,134.23	61.60	62.75	88.08	1,293.53	-2,117.75	3,188.92	3,065.28	123.64	25.793		
9,200.00	7,241.09	9,020.82	7,133.80	63.92	65.18	88.08	1,290.07	-2,217.64	3,186.03	3,057.60	128.43	24.807		
9,300.00	7,240.50	9,120.78	7,133.36	66.29	67.65	88.08	1,286.61	-2,317.54	3,183.15	3,049.86	133.30	23.880		
9,400.00	7,239.90	9,220.74	7,132.93	68.70	70.15	88.08	1,283.15	-2,417.44	3,180.27	3,042.04	138.23	23.007		
9,500.00	7,239.31	9,320.70	7,132.50	71.14	72.67	88.08	1,279.70	-2,517.34	3,177.39	3,034.18	143.22	22.186		
9,600.00	7,238.71	9,420.66	7,132.06	73.61	75.21	88.08	1,276.24	-2,617.23	3,174.51	3,026.26	148.26	21.412		
9,700.00	7,238.11	9,520.62	7,131.63	76.11	77.78	88.09	1,272.78	-2,717.13	3,171.63	3,018.29	153.34	20.683		
9,800.00	7,237.52	9,620.57	7,131.20	78.64	80.36	88.09	1,269.32	-2,817.03	3,168.75	3,010.28	158.47	19.996		
9,900.00	7,236.92	9,720.53	7,130.76	81.19	82.96	88.09	1,265.86	-2,916.93	3,165.87	3,002.23	163.64	19.347		
10,000.00	7,236.33	9,820.49	7,130.33	83.75	85.58	88.09	1,262.40	-3,016.82	3,162.99	2,994.15	168.84	18.734		
10,100.00	7,235.73	9,920.45	7,129.90	86.34	88.21	88.09	1,258.94	-3,116.72	3,160.11	2,986.04	174.07	18.154		
10,200.00	7,235.14	10,020.41	7,129.46	88.94	90.85	88.09	1,255.48	-3,216.62	3,157.23	2,977.90	179.33	17.605		
10,300.00	7,234.54	10,120.37	7,129.03	91.56	93.51	88.09	1,252.02	-3,316.52	3,154.35	2,969.73	184.62	17.086		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	10,220.32	7,128.60	94.19	96.18	88.09	1,248.56	-3,416.42	3,151.47	2,961.54	189.93	16.593		
10,500.00	7,233.35	10,320.28	7,128.16	96.84	98.86	88.09	1,245.11	-3,516.31	3,148.59	2,953.32	195.26	16.125		
10,600.00	7,232.75	10,420.24	7,127.73	99.50	101.54	88.10	1,241.65	-3,616.21	3,145.71	2,945.09	200.62	15.680		
10,700.00	7,232.16	10,520.20	7,127.29	102.17	104.24	88.10	1,238.19	-3,716.11	3,142.82	2,936.83	205.99	15.257		
10,800.00	7,231.56	10,620.16	7,126.86	104.85	106.94	88.10	1,234.73	-3,816.01	3,139.94	2,928.56	211.38	14.854		
10,900.00	7,230.96	10,720.12	7,126.43	107.53	109.65	88.10	1,231.27	-3,915.90	3,137.06	2,920.28	216.79	14.471		
11,000.00	7,230.37	10,820.08	7,125.99	110.23	112.37	88.10	1,227.81	-4,015.80	3,134.18	2,911.97	222.21	14.105		
11,100.00	7,229.77	10,920.03	7,125.56	112.93	115.09	88.10	1,224.35	-4,115.70	3,131.30	2,903.66	227.64	13.755		
11,200.00	7,229.18	11,019.99	7,125.13	115.65	117.82	88.10	1,220.89	-4,215.60	3,128.42	2,895.33	233.09	13.421		
11,300.00	7,228.58	11,119.95	7,124.69	118.37	120.56	88.10	1,217.43	-4,315.49	3,125.54	2,886.99	238.55	13.102		
11,400.00	7,227.99	11,219.91	7,124.26	121.09	123.30	88.11	1,213.98	-4,415.39	3,122.66	2,878.64	244.02	12.797		
11,500.00	7,227.39	11,319.87	7,123.83	123.82	126.04	88.11	1,210.52	-4,515.29	3,119.78	2,870.28	249.50	12.504		
11,600.00	7,226.79	11,419.83	7,123.39	126.56	128.79	88.11	1,207.06	-4,615.19	3,116.90	2,861.91	254.99	12.223		
11,700.00	7,226.20	11,519.78	7,122.96	129.30	131.54	88.11	1,203.60	-4,715.08	3,114.02	2,853.52	260.49	11.954		
11,800.00	7,225.60	11,619.74	7,122.52	132.05	134.30	88.11	1,200.14	-4,814.98	3,111.14	2,845.13	266.00	11.696		
11,900.00	7,225.01	11,719.70	7,122.09	134.80	137.06	88.11	1,196.68	-4,914.88	3,108.26	2,836.74	271.52	11.448		
12,000.00	7,224.41	11,819.66	7,121.66	137.56	139.83	88.11	1,193.22	-5,014.78	3,105.38	2,828.33	277.04	11.209		
12,100.00	7,223.81	11,919.62	7,121.22	140.32	142.59	88.11	1,189.76	-5,114.68	3,102.50	2,819.92	282.57	10.979		
12,200.00	7,223.22	12,019.58	7,120.79	143.08	145.36	88.12	1,186.30	-5,214.57	3,099.62	2,811.50	288.11	10.758		
12,300.00	7,222.62	12,119.54	7,120.36	145.85	148.14	88.12	1,182.85	-5,314.47	3,096.73	2,803.08	293.66	10.545		
12,400.00	7,222.03	12,219.49	7,119.92	148.62	150.91	88.12	1,179.39	-5,414.37	3,093.85	2,794.65	299.21	10.340		
12,500.00	7,221.43	12,319.45	7,119.49	151.40	153.69	88.12	1,175.93	-5,514.27	3,090.97	2,786.21	304.76	10.142		
12,600.00	7,220.83	12,419.41	7,119.06	154.18	156.47	88.12	1,172.47	-5,614.16	3,088.09	2,777.77	310.33	9.951		
12,700.00	7,220.24	12,519.37	7,118.62	156.96	159.26	88.12	1,169.01	-5,714.06	3,085.21	2,769.32	315.89	9.767		
12,800.00	7,219.64	12,619.33	7,118.19	159.74	162.04	88.12	1,165.55	-5,813.96	3,082.33	2,760.87	321.46	9.588		
12,900.00	7,219.05	12,719.29	7,117.76	162.53	164.83	88.12	1,162.09	-5,913.86	3,079.45	2,752.41	327.04	9.416		
13,000.00	7,218.45	12,819.25	7,117.32	165.32	167.62	88.13	1,158.63	-6,013.75	3,076.57	2,743.95	332.62	9.250		
13,100.00	7,217.86	12,919.20	7,116.89	168.11	170.41	88.13	1,155.17	-6,113.65	3,073.69	2,735.49	338.20	9.088		
13,200.00	7,217.26	13,019.16	7,116.45	170.90	173.21	88.13	1,151.71	-6,213.55	3,070.81	2,727.02	343.79	8.932		
13,300.00	7,216.66	13,119.12	7,116.02	173.70	176.00	88.13	1,148.26	-6,313.45	3,067.93	2,718.55	349.38	8.781		
13,400.00	7,216.07	13,219.08	7,115.59	176.49	178.80	88.13	1,144.80	-6,413.35	3,065.05	2,710.07	354.98	8.634		
13,500.00	7,215.47	13,319.04	7,115.15	179.29	181.60	88.13	1,141.34	-6,513.24	3,062.17	2,701.59	360.58	8.492		
13,600.00	7,214.88	13,419.00	7,114.72	182.09	184.40	88.13	1,137.88	-6,613.14	3,059.29	2,693.11	366.18	8.355		
13,700.00	7,214.28	13,518.95	7,114.29	184.90	187.20	88.13	1,134.42	-6,713.04	3,056.41	2,684.62	371.78	8.221		
13,800.00	7,213.68	13,618.91	7,113.85	187.70	190.00	88.14	1,130.96	-6,812.94	3,053.53	2,676.13	377.39	8.091		
13,900.00	7,213.09	13,718.87	7,113.42	190.51	192.81	88.14	1,127.50	-6,912.83	3,050.64	2,667.64	383.00	7.965		
14,000.00	7,212.49	13,818.83	7,112.99	193.32	195.61	88.14	1,124.04	-7,012.73	3,047.76	2,659.15	388.62	7.843		
14,100.00	7,211.90	13,918.79	7,112.55	196.13	198.42	88.14	1,120.58	-7,112.63	3,044.88	2,650.65	394.23	7.724		
14,200.00	7,211.30	14,018.75	7,112.12	198.94	201.23	88.14	1,117.13	-7,212.53	3,042.00	2,642.15	399.85	7.608		
14,300.00	7,210.71	14,118.71	7,111.68	201.75	204.04	88.14	1,113.67	-7,312.42	3,039.12	2,633.65	405.47	7.495		
14,400.00	7,210.11	14,218.66	7,111.25	204.56	206.85	88.14	1,110.21	-7,412.32	3,036.24	2,625.15	411.10	7.386		
14,500.00	7,209.51	14,318.62	7,110.82	207.38	209.66	88.14	1,106.75	-7,512.22	3,033.36	2,616.64	416.72	7.279		
14,600.00	7,208.92	14,418.58	7,110.38	210.19	212.47	88.15	1,103.29	-7,612.12	3,030.48	2,608.13	422.35	7.175		
14,700.00	7,208.32	14,518.54	7,109.95	213.01	215.28	88.15	1,099.83	-7,712.02	3,027.60	2,599.62	427.98	7.074		
14,800.00	7,207.73	14,618.50	7,109.52	215.83	218.10	88.15	1,096.37	-7,811.91	3,024.72	2,591.11	433.61	6.976		
14,900.00	7,207.13	14,718.46	7,109.08	218.65	220.91	88.15	1,092.91	-7,911.81	3,021.84	2,582.60	439.24	6.880		
15,000.00	7,206.53	14,818.41	7,108.65	221.47	223.73	88.15	1,089.45	-8,011.71	3,018.96	2,574.08	444.88	6.786		
15,100.00	7,205.94	14,918.37	7,108.22	224.29	226.54	88.15	1,086.00	-8,111.61	3,016.08	2,565.56	450.52	6.695		
15,200.00	7,205.34	14,969.16	7,108.00	227.11	227.97	88.15	1,084.24	-8,162.36	3,013.60	2,558.82	454.77	6.627		
15,237.65	7,205.12	14,969.16	7,108.00	228.17	227.97	88.15	1,084.24	-8,162.36	3,013.36	2,557.60	455.76	6.612		
15,258.04	7,205.00	14,969.16	7,108.00	228.75	227.97	88.15	1,084.24	-8,162.36	3,013.43	2,557.16	456.27	6.605 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.51	219.69	1.95	219.70					
100.00	100.00	101.00	100.00	3.28	3.28	0.51	219.69	1.95	219.70	213.13	6.57	33.442		
200.00	200.00	201.00	200.00	3.34	3.34	0.51	219.69	1.95	219.70	213.03	6.67	32.915 CC, ES		
300.00	299.98	300.98	299.98	3.44	3.45	175.78	219.69	1.95	221.44	214.56	6.89	32.157		
400.00	399.84	400.89	399.89	3.59	3.60	175.87	219.69	1.95	226.66	219.46	7.20	31.493		
500.00	499.45	507.41	506.39	3.79	3.81	175.73	218.11	0.70	233.86	226.25	7.61	30.738		
600.00	598.70	607.48	606.38	4.03	4.04	175.35	214.96	-1.78	242.87	234.79	8.08	30.071		
700.00	697.47	706.69	705.50	4.31	4.30	175.06	211.83	-4.24	255.33	246.72	8.61	29.647		
800.00	795.62	805.41	804.14	4.64	4.58	174.85	208.72	-6.69	271.24	262.04	9.21	29.465		
900.00	893.06	903.51	902.17	5.00	4.89	174.72	205.63	-9.12	290.58	280.73	9.85	29.510		
1,000.00	989.65	1,000.89	999.47	5.40	5.21	174.66	202.55	-11.54	313.30	302.77	10.53	29.747		
1,100.00	1,085.85	1,102.06	1,096.43	5.82	5.56	174.67	199.49	-13.95	337.45	326.20	11.25	30.000		
1,200.00	1,182.06	1,205.02	1,193.40	6.27	5.93	174.67	196.43	-16.36	361.59	349.59	12.00	30.132		
1,300.00	1,278.26	1,307.98	1,290.36	6.73	6.31	174.68	193.37	-18.76	385.74	372.96	12.78	30.189		
1,400.00	1,374.47	1,389.06	1,387.32	7.20	6.61	174.68	190.31	-21.17	409.88	396.39	13.49	30.380		
1,500.00	1,470.67	1,486.10	1,484.29	7.69	6.99	174.68	187.25	-23.58	434.02	419.74	14.28	30.389		
1,600.00	1,566.88	1,583.14	1,581.25	8.18	7.37	174.69	184.19	-25.99	458.17	443.08	15.09	30.369		
1,700.00	1,663.08	1,680.18	1,678.21	8.68	7.75	174.69	181.13	-28.40	482.31	466.41	15.90	30.329		
1,800.00	1,759.29	1,777.23	1,775.18	9.19	8.14	174.69	178.07	-30.81	506.46	489.73	16.73	30.275		
1,900.00	1,855.49	1,874.27	1,872.14	9.70	8.54	174.70	175.01	-33.21	530.60	513.04	17.56	30.210		
2,000.00	1,951.70	1,971.31	1,969.10	10.22	8.93	174.70	171.95	-35.62	554.75	536.34	18.41	30.140		
2,100.00	2,047.90	2,068.35	2,066.07	10.73	9.33	174.70	168.89	-38.03	578.89	559.64	19.25	30.065		
2,200.00	2,144.11	2,165.39	2,163.03	11.26	9.73	174.70	165.83	-40.44	603.04	582.93	20.11	29.989		
2,300.00	2,240.31	2,262.43	2,259.99	11.78	10.14	174.70	162.77	-42.85	627.18	606.21	20.97	29.911		
2,400.00	2,336.52	2,359.47	2,356.96	12.31	10.55	174.70	159.71	-45.26	651.33	629.50	21.83	29.834		
2,500.00	2,432.72	2,456.51	2,453.92	12.84	10.95	174.71	156.65	-47.66	675.47	652.77	22.70	29.757		
2,600.00	2,528.93	2,553.56	2,550.88	13.37	11.36	174.71	153.59	-50.07	699.62	676.05	23.57	29.682		
2,700.00	2,625.13	2,650.60	2,647.85	13.91	11.78	174.71	150.53	-52.48	723.76	699.32	24.44	29.608		
2,800.00	2,721.34	2,747.64	2,744.81	14.44	12.19	174.71	147.47	-54.89	747.91	722.58	25.32	29.536		
2,900.00	2,817.54	2,844.68	2,841.77	14.98	12.60	174.71	144.41	-57.30	772.05	745.85	26.20	29.467		
3,000.00	2,913.75	2,941.72	2,938.74	15.52	13.02	174.71	141.35	-59.71	796.20	769.11	27.08	29.399		
3,100.00	3,009.95	3,038.76	3,035.70	16.06	13.43	174.71	138.28	-62.11	820.34	792.37	27.97	29.333		
3,200.00	3,106.16	3,135.80	3,132.66	16.60	13.85	174.71	135.22	-64.52	844.48	815.63	28.85	29.270		
3,300.00	3,202.37	3,232.85	3,229.63	17.14	14.27	174.71	132.16	-66.93	868.63	838.89	29.74	29.209		
3,400.00	3,298.57	3,329.89	3,326.59	17.68	14.68	174.71	129.10	-69.34	892.77	862.15	30.63	29.149		
3,500.00	3,394.78	3,426.93	3,423.55	18.22	15.10	174.72	126.04	-71.75	916.92	885.40	31.52	29.092		
3,600.00	3,490.98	3,523.97	3,520.52	18.76	15.52	174.72	122.98	-74.16	941.06	908.65	32.41	29.037		
3,700.00	3,587.19	3,621.01	3,617.48	19.31	15.94	174.72	119.92	-76.56	965.21	931.91	33.30	28.984		
3,800.00	3,683.39	3,718.05	3,714.44	19.85	16.36	174.72	116.86	-78.97	989.35	955.16	34.20	28.932		
3,900.00	3,779.60	3,815.09	3,811.41	20.39	16.78	174.72	113.80	-81.38	1,013.50	978.41	35.09	28.883		
4,000.00	3,875.80	3,912.14	3,908.37	20.94	17.21	174.72	110.74	-83.79	1,037.64	1,001.66	35.99	28.835		
4,100.00	3,972.01	4,009.18	4,005.33	21.48	17.63	174.72	107.68	-86.20	1,061.79	1,024.91	36.88	28.789		
4,200.00	4,068.21	4,106.22	4,102.29	22.03	18.05	174.72	104.62	-88.61	1,085.93	1,048.15	37.78	28.744		
4,300.00	4,164.42	4,203.26	4,199.26	22.57	18.47	174.72	101.56	-91.01	1,110.08	1,071.40	38.68	28.701		
4,400.00	4,260.62	4,300.30	4,296.22	23.12	18.90	174.72	98.50	-93.42	1,134.22	1,094.65	39.58	28.659		
4,500.00	4,356.83	4,402.66	4,393.18	23.67	19.34	174.72	95.44	-95.83	1,158.37	1,117.87	40.50	28.602		
4,600.00	4,453.03	4,505.62	4,490.15	24.21	19.79	174.72	92.38	-98.24	1,182.51	1,141.09	41.42	28.546		
4,700.00	4,549.24	4,608.57	4,587.11	24.76	20.24	174.72	89.32	-100.65	1,206.66	1,164.30	42.35	28.492		
4,800.00	4,645.44	4,688.47	4,684.07	25.31	20.59	174.72	86.26	-103.06	1,230.80	1,187.62	43.18	28.505		
4,900.00	4,741.65	4,785.51	4,781.04	25.86	21.01	174.72	83.20	-105.47	1,254.95	1,210.87	44.08	28.470		
5,000.00	4,837.85	4,882.55	4,878.00	26.40	21.44	174.72	80.14	-107.87	1,279.09	1,234.11	44.98	28.436		
5,100.00	4,934.06	4,979.59	4,974.96	26.95	21.86	174.72	77.08	-110.28	1,303.23	1,257.35	45.88	28.403		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,076.63	5,071.93	27.50	22.29	174.72	74.01	-112.69	1,327.38	1,280.59	46.79	28.370		
5,300.00	5,126.47	5,173.67	5,168.89	28.05	22.71	174.72	70.95	-115.10	1,351.52	1,303.83	47.69	28.339		
5,400.00	5,222.67	5,270.72	5,265.85	28.60	23.14	174.73	67.89	-117.51	1,375.67	1,327.07	48.60	28.309		
5,500.00	5,318.88	5,367.76	5,362.82	29.15	23.56	174.73	64.83	-119.92	1,399.81	1,350.31	49.50	28.279		
5,600.00	5,415.08	5,464.80	5,459.78	29.70	23.99	174.73	61.77	-122.32	1,423.96	1,373.55	50.40	28.251		
5,700.00	5,511.29	5,561.84	5,556.74	30.25	24.42	174.73	58.71	-124.73	1,448.10	1,396.79	51.31	28.223		
5,800.00	5,607.49	5,658.88	5,653.71	30.79	24.84	174.73	55.65	-127.14	1,472.25	1,420.03	52.21	28.196		
5,900.00	5,703.70	5,755.92	5,750.67	31.34	25.27	174.73	52.59	-129.55	1,496.39	1,443.27	53.12	28.170		
6,000.00	5,799.90	5,852.96	5,847.63	31.89	25.69	174.73	49.53	-131.96	1,520.54	1,466.51	54.03	28.144		
6,100.00	5,896.11	5,950.01	5,944.60	32.44	26.12	174.73	46.47	-134.37	1,544.68	1,489.75	54.93	28.120		
6,200.00	5,992.32	6,047.05	6,041.56	32.99	26.55	174.73	43.41	-136.77	1,568.83	1,512.99	55.84	28.096		
6,300.00	6,088.52	6,144.09	6,138.52	33.54	26.97	174.73	40.35	-139.18	1,592.97	1,536.23	56.75	28.072		
6,400.00	6,184.73	6,241.13	6,235.49	34.09	27.40	174.73	37.29	-141.59	1,617.12	1,559.46	57.65	28.049		
6,500.00	6,280.93	6,338.17	6,332.45	34.64	27.83	174.73	34.23	-144.00	1,641.26	1,582.70	58.56	28.027		
6,600.00	6,377.14	6,435.21	6,429.41	35.19	28.25	174.73	31.17	-146.41	1,665.41	1,605.94	59.47	28.005		
6,700.00	6,473.34	6,531.67	6,525.38	35.74	28.68	174.52	28.10	-154.63	1,689.56	1,629.19	60.37	27.986		
6,800.00	6,569.55	6,624.32	6,615.40	36.29	29.08	173.87	25.14	-176.01	1,713.90	1,652.66	61.24	27.988		
6,900.00	6,665.75	6,709.90	6,694.99	36.84	29.45	167.89	22.45	-207.17	1,738.85	1,676.82	62.03	28.031		
7,000.00	6,761.11	6,790.48	6,765.48	37.39	29.79	138.41	20.00	-246.03	1,764.34	1,701.58	62.77	28.110		
7,100.00	6,853.41	6,868.62	6,828.62	37.89	30.12	119.61	17.74	-291.92	1,789.50	1,726.06	63.45	28.204		
7,200.00	6,940.36	6,944.91	6,884.40	38.34	30.47	107.81	15.67	-343.87	1,813.56	1,749.47	64.09	28.295		
7,300.00	7,019.83	7,019.83	6,932.74	38.74	30.87	99.88	13.80	-401.01	1,835.79	1,771.05	64.74	28.354		
7,400.00	7,089.85	7,093.74	6,973.54	39.10	31.34	94.28	12.14	-462.57	1,855.55	1,790.10	65.45	28.350		
7,500.00	7,148.71	7,166.90	7,006.63	39.42	31.89	90.24	10.70	-527.76	1,872.27	1,805.98	66.29	28.243		
7,600.00	7,194.95	7,239.54	7,031.89	39.71	32.53	87.39	9.49	-595.81	1,885.51	1,818.17	67.33	28.003		
7,700.00	7,227.43	7,311.82	7,049.16	40.01	33.26	85.52	8.52	-665.95	1,894.89	1,826.26	68.63	27.609		
7,800.00	7,245.37	7,383.88	7,058.37	40.37	34.08	84.51	7.79	-737.37	1,900.19	1,829.97	70.22	27.062		
7,900.00	7,248.84	7,465.02	7,059.85	40.87	35.10	84.30	7.25	-818.47	1,901.37	1,829.15	72.22	26.328		
8,000.00	7,248.24	7,565.02	7,059.42	41.62	36.51	84.30	6.65	-918.47	1,901.34	1,826.48	74.86	25.400		
8,100.00	7,247.65	7,665.02	7,058.99	42.66	38.08	84.31	6.05	-1,018.47	1,901.31	1,823.50	77.81	24.435		
8,200.00	7,247.05	7,765.02	7,058.55	43.96	39.79	84.31	5.45	-1,118.47	1,901.28	1,820.22	81.06	23.456		
8,300.00	7,246.46	7,865.02	7,058.12	45.46	41.63	84.31	4.85	-1,218.46	1,901.25	1,816.68	84.56	22.483		
8,400.00	7,245.86	7,965.02	7,057.68	47.13	43.57	84.32	4.26	-1,318.46	1,901.21	1,812.92	88.30	21.532		
8,500.00	7,245.27	8,065.02	7,057.25	48.93	45.62	84.32	3.66	-1,418.46	1,901.18	1,808.95	92.23	20.613		
8,600.00	7,244.67	8,165.02	7,056.82	50.84	47.75	84.33	3.06	-1,518.45	1,901.15	1,804.81	96.34	19.733		
8,700.00	7,244.07	8,265.02	7,056.38	52.85	49.95	84.33	2.46	-1,618.45	1,901.12	1,800.51	100.61	18.897		
8,800.00	7,243.48	8,365.02	7,055.95	54.94	52.22	84.34	1.86	-1,718.45	1,901.09	1,796.08	105.01	18.104		
8,900.00	7,242.88	8,465.02	7,055.51	57.10	54.54	84.34	1.26	-1,818.45	1,901.06	1,791.53	109.53	17.357		
9,000.00	7,242.29	8,565.02	7,055.08	59.32	56.91	84.35	0.66	-1,918.44	1,901.03	1,786.88	114.15	16.653		
9,100.00	7,241.69	8,665.02	7,054.65	61.60	59.32	84.35	0.06	-2,018.44	1,901.00	1,782.13	118.87	15.992		
9,200.00	7,241.09	8,765.02	7,054.21	63.92	61.77	84.36	-0.53	-2,118.44	1,900.97	1,777.30	123.67	15.371		
9,300.00	7,240.50	8,865.02	7,053.78	66.29	64.26	84.36	-1.13	-2,218.43	1,900.94	1,772.39	128.54	14.788		
9,400.00	7,239.90	8,965.02	7,053.34	68.70	66.77	84.37	-1.73	-2,318.43	1,900.91	1,767.42	133.48	14.241		
9,500.00	7,239.31	9,065.02	7,052.91	71.14	69.32	84.37	-2.33	-2,418.43	1,900.88	1,762.39	138.48	13.727		
9,600.00	7,238.71	9,165.02	7,052.48	73.61	71.88	84.38	-2.93	-2,518.43	1,900.84	1,757.31	143.53	13.244		
9,700.00	7,238.11	9,265.02	7,052.04	76.11	74.47	84.38	-3.53	-2,618.42	1,900.81	1,752.19	148.63	12.789		
9,800.00	7,237.52	9,365.02	7,051.61	78.64	77.07	84.39	-4.13	-2,718.42	1,900.78	1,747.02	153.76	12.362		
9,900.00	7,236.92	9,465.02	7,051.17	81.19	79.70	84.39	-4.73	-2,818.42	1,900.75	1,741.81	158.94	11.959		
10,000.00	7,236.33	9,565.02	7,050.74	83.75	82.34	84.40	-5.33	-2,918.41	1,900.72	1,736.57	164.15	11.579		
10,100.00	7,235.73	9,665.02	7,050.31	86.34	84.99	84.40	-5.92	-3,018.41	1,900.69	1,731.30	169.39	11.221		
10,200.00	7,235.14	9,765.02	7,049.87	88.94	87.66	84.41	-6.52	-3,118.41	1,900.66	1,726.00	174.66	10.882		
10,300.00	7,234.54	9,865.02	7,049.44	91.56	90.34	84.41	-7.12	-3,218.41	1,900.63	1,720.67	179.96	10.561		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	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	7,233.94	9,965.02	7,049.00	94.19	93.03	84.42	-7.72	-3,318.40	1,900.60	1,715.32	185.28	10.258		
10,500.00	7,233.35	10,065.02	7,048.57	96.84	95.72	84.42	-8.32	-3,418.40	1,900.57	1,709.95	190.62	9.970		
10,600.00	7,232.75	10,165.02	7,048.14	99.50	98.43	84.43	-8.92	-3,518.40	1,900.54	1,704.55	195.98	9.697		
10,700.00	7,232.16	10,265.02	7,047.70	102.17	101.15	84.43	-9.52	-3,618.39	1,900.51	1,699.14	201.37	9.438		
10,800.00	7,231.56	10,365.02	7,047.27	104.85	103.87	84.44	-10.12	-3,718.39	1,900.48	1,693.71	206.76	9.192		
10,900.00	7,230.96	10,465.02	7,046.83	107.53	106.60	84.44	-10.71	-3,818.39	1,900.45	1,688.27	212.18	8.957		
11,000.00	7,230.37	10,565.02	7,046.40	110.23	109.34	84.44	-11.31	-3,918.39	1,900.42	1,682.81	217.61	8.733		
11,100.00	7,229.77	10,665.02	7,045.97	112.93	112.09	84.45	-11.91	-4,018.38	1,900.38	1,677.34	223.05	8.520		
11,200.00	7,229.18	10,765.02	7,045.53	115.65	114.83	84.45	-12.51	-4,118.38	1,900.35	1,671.85	228.50	8.317		
11,300.00	7,228.58	10,865.02	7,045.10	118.37	117.59	84.46	-13.11	-4,218.38	1,900.32	1,666.36	233.97	8.122		
11,400.00	7,227.99	10,965.02	7,044.66	121.09	120.35	84.46	-13.71	-4,318.37	1,900.29	1,660.85	239.44	7.936		
11,500.00	7,227.39	11,065.02	7,044.23	123.82	123.11	84.47	-14.31	-4,418.37	1,900.26	1,655.33	244.93	7.758		
11,600.00	7,226.79	11,165.02	7,043.80	126.56	125.88	84.47	-14.91	-4,518.37	1,900.23	1,649.81	250.43	7.588		
11,700.00	7,226.20	11,265.02	7,043.36	129.30	128.65	84.48	-15.50	-4,618.37	1,900.20	1,644.27	255.93	7.425		
11,800.00	7,225.60	11,365.02	7,042.93	132.05	131.43	84.48	-16.10	-4,718.36	1,900.17	1,638.73	261.45	7.268		
11,900.00	7,225.01	11,465.02	7,042.49	134.80	134.21	84.49	-16.70	-4,818.36	1,900.14	1,633.17	266.97	7.118		
12,000.00	7,224.41	11,565.02	7,042.06	137.56	136.99	84.49	-17.30	-4,918.36	1,900.11	1,627.61	272.50	6.973		
12,100.00	7,223.81	11,665.02	7,041.63	140.32	139.78	84.50	-17.90	-5,018.35	1,900.08	1,622.05	278.03	6.834		
12,200.00	7,223.22	11,765.02	7,041.19	143.08	142.56	84.50	-18.50	-5,118.35	1,900.05	1,616.48	283.57	6.700		
12,300.00	7,222.62	11,865.01	7,040.76	145.85	145.36	84.51	-19.10	-5,218.35	1,900.02	1,610.90	289.12	6.572		
12,400.00	7,222.03	11,965.01	7,040.32	148.62	148.15	84.51	-19.70	-5,318.35	1,899.99	1,605.31	294.68	6.448		
12,500.00	7,221.43	12,065.01	7,039.89	151.40	150.95	84.52	-20.29	-5,418.34	1,899.96	1,599.72	300.24	6.328		
12,600.00	7,220.83	12,165.01	7,039.46	154.18	153.74	84.52	-20.89	-5,518.34	1,899.93	1,594.13	305.80	6.213		
12,700.00	7,220.24	12,265.01	7,039.02	156.96	156.54	84.53	-21.49	-5,618.34	1,899.90	1,588.53	311.37	6.102		
12,800.00	7,219.64	12,365.01	7,038.59	159.74	159.35	84.53	-22.09	-5,718.33	1,899.87	1,582.92	316.94	5.994		
12,900.00	7,219.05	12,465.01	7,038.15	162.53	162.15	84.54	-22.69	-5,818.33	1,899.84	1,577.31	322.52	5.891		
13,000.00	7,218.45	12,565.01	7,037.72	165.32	164.96	84.54	-23.29	-5,918.33	1,899.81	1,571.70	328.11	5.790		
13,100.00	7,217.86	12,665.01	7,037.29	168.11	167.77	84.55	-23.89	-6,018.33	1,899.78	1,566.08	333.69	5.693		
13,200.00	7,217.26	12,765.01	7,036.85	170.90	170.58	84.55	-24.49	-6,118.32	1,899.75	1,560.46	339.28	5.599		
13,300.00	7,216.66	12,865.01	7,036.42	173.70	173.39	84.56	-25.08	-6,218.32	1,899.72	1,554.84	344.88	5.508		
13,400.00	7,216.07	12,965.01	7,035.98	176.49	176.20	84.56	-25.68	-6,318.32	1,899.69	1,549.21	350.48	5.420		
13,500.00	7,215.47	13,065.01	7,035.55	179.29	179.02	84.57	-26.28	-6,418.31	1,899.65	1,543.58	356.08	5.335		
13,600.00	7,214.88	13,165.01	7,035.12	182.09	181.83	84.57	-26.88	-6,518.31	1,899.62	1,537.94	361.68	5.252		
13,700.00	7,214.28	13,265.01	7,034.68	184.90	184.65	84.57	-27.48	-6,618.31	1,899.59	1,532.31	367.29	5.172		
13,800.00	7,213.68	13,365.01	7,034.25	187.70	187.47	84.58	-28.08	-6,718.31	1,899.56	1,526.66	372.90	5.094		
13,900.00	7,213.09	13,465.01	7,033.81	190.51	190.29	84.58	-28.68	-6,818.30	1,899.53	1,521.02	378.51	5.018		
14,000.00	7,212.49	13,565.01	7,033.38	193.32	193.11	84.59	-29.28	-6,918.30	1,899.50	1,515.38	384.13	4.945		
14,100.00	7,211.90	13,665.01	7,032.95	196.13	195.93	84.59	-29.87	-7,018.30	1,899.47	1,509.73	389.75	4.874		
14,200.00	7,211.30	13,765.01	7,032.51	198.94	198.75	84.60	-30.47	-7,118.29	1,899.44	1,504.08	395.37	4.804		
14,300.00	7,210.71	13,865.01	7,032.08	201.75	201.58	84.60	-31.07	-7,218.29	1,899.41	1,498.42	400.99	4.737		
14,400.00	7,210.11	13,965.01	7,031.64	204.56	204.40	84.61	-31.67	-7,318.29	1,899.38	1,492.77	406.61	4.671		
14,500.00	7,209.51	14,065.01	7,031.21	207.38	207.23	84.61	-32.27	-7,418.29	1,899.35	1,487.11	412.24	4.607		
14,600.00	7,208.92	14,165.01	7,030.78	210.19	210.06	84.62	-32.87	-7,518.28	1,899.32	1,481.45	417.87	4.545		
14,700.00	7,208.32	14,265.01	7,030.34	213.01	212.88	84.62	-33.47	-7,618.28	1,899.29	1,475.79	423.50	4.485		
14,800.00	7,207.73	14,365.01	7,029.91	215.83	215.71	84.63	-34.07	-7,718.28	1,899.26	1,470.13	429.13	4.426		
14,900.00	7,207.13	14,465.01	7,029.47	218.65	218.54	84.63	-34.66	-7,818.27	1,899.23	1,464.46	434.77	4.368		
15,000.00	7,206.53	14,565.01	7,029.04	221.47	221.37	84.64	-35.26	-7,918.27	1,899.20	1,458.80	440.41	4.312		
15,100.00	7,205.94	14,665.01	7,028.61	224.29	224.20	84.64	-35.86	-8,018.27	1,899.17	1,453.13	446.04	4.258		
15,200.00	7,205.34	14,765.01	7,028.17	227.11	227.03	84.65	-36.46	-8,118.27	1,899.14	1,447.46	451.68	4.205		
15,249.90	7,205.05	14,814.91	7,027.96	228.52	228.45	84.65	-36.76	-8,168.17	1,899.13	1,444.63	454.50	4.179 SF		
15,258.04	7,205.00	14,805.04	7,028.00	228.75	228.17	84.65	-36.70	-8,158.29	1,899.21	1,444.86	454.35	4.180		



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	1.00	0.00	3.28	3.28	0.47	239.73	1.95	239.73					
100.00	100.00	101.00	100.00	3.28	3.28	0.47	239.73	1.95	239.73	233.16	6.57	36.491		
200.00	200.00	201.00	200.00	3.34	3.34	0.47	239.73	1.95	239.73	233.06	6.67	35.916 CC, ES		
300.00	299.98	300.98	299.98	3.44	3.45	175.74	239.73	1.95	241.47	234.59	6.89	35.066		
400.00	399.84	400.84	399.84	3.59	3.60	175.82	239.73	1.95	246.69	239.50	7.20	34.277		
500.00	499.45	500.45	499.45	3.79	3.81	175.95	239.73	1.95	255.39	247.79	7.60	33.606		
600.00	598.70	600.22	598.77	4.03	4.04	175.77	239.73	0.35	267.52	259.45	8.07	33.133		
700.00	697.47	701.45	697.50	4.31	4.30	175.48	239.73	-2.12	283.10	274.48	8.62	32.852		
800.00	795.62	803.28	795.64	4.64	4.60	175.26	239.73	-4.57	302.11	292.89	9.22	32.763		
900.00	893.06	905.84	893.06	5.00	4.92	175.11	239.73	-7.01	324.53	314.65	9.88	32.858		
1,000.00	989.65	1,009.22	989.64	5.40	5.26	175.02	239.73	-9.42	350.31	339.73	10.58	33.102		
1,100.00	1,085.85	1,087.01	1,085.84	5.82	5.53	175.00	239.73	-11.83	377.50	366.29	11.21	33.662		
1,200.00	1,182.06	1,183.24	1,182.04	6.27	5.88	174.98	239.73	-14.23	404.69	392.76	11.94	33.902		
1,300.00	1,278.26	1,279.47	1,278.25	6.73	6.23	174.97	239.73	-16.64	431.89	419.20	12.68	34.051		
1,400.00	1,374.47	1,375.71	1,374.45	7.20	6.59	174.96	239.73	-19.04	459.08	445.63	13.45	34.134		
1,500.00	1,470.67	1,471.94	1,470.65	7.69	6.96	174.94	239.73	-21.44	486.27	472.04	14.23	34.169		
1,600.00	1,566.88	1,568.17	1,566.85	8.18	7.33	174.93	239.73	-23.85	513.47	498.44	15.03	34.168		
1,700.00	1,663.08	1,664.40	1,663.05	8.68	7.71	174.92	239.73	-26.25	540.66	524.82	15.84	34.142		
1,800.00	1,759.29	1,760.63	1,759.25	9.19	8.09	174.92	239.73	-28.66	567.85	551.20	16.65	34.098		
1,900.00	1,855.49	1,856.86	1,855.45	9.70	8.48	174.91	239.73	-31.06	595.05	577.57	17.48	34.042		
2,000.00	1,951.70	1,953.10	1,951.66	10.22	8.87	174.90	239.73	-33.47	622.24	603.93	18.31	33.977		
2,100.00	2,047.90	2,049.33	2,047.86	10.73	9.27	174.89	239.73	-35.87	649.43	630.28	19.15	33.906		
2,200.00	2,144.11	2,145.56	2,144.06	11.26	9.66	174.89	239.73	-38.28	676.63	656.63	20.00	33.831		
2,300.00	2,240.31	2,241.79	2,240.26	11.78	10.06	174.88	239.73	-40.68	703.82	682.97	20.85	33.754		
2,400.00	2,336.52	2,338.02	2,336.46	12.31	10.46	174.88	239.73	-43.09	731.01	709.31	21.71	33.677		
2,500.00	2,432.72	2,434.25	2,432.66	12.84	10.86	174.87	239.73	-45.49	758.21	735.64	22.57	33.600		
2,600.00	2,528.93	2,530.49	2,528.87	13.37	11.27	174.87	239.73	-47.89	785.40	761.97	23.43	33.523		
2,700.00	2,625.13	2,626.72	2,625.07	13.91	11.67	174.86	239.73	-50.30	812.59	788.30	24.29	33.448		
2,800.00	2,721.34	2,722.95	2,721.27	14.44	12.08	174.86	239.73	-52.70	839.78	814.62	25.16	33.374		
2,900.00	2,817.54	2,819.18	2,817.47	14.98	12.49	174.86	239.73	-55.11	866.98	840.94	26.03	33.302		
3,000.00	2,913.75	2,915.41	2,913.67	15.52	12.90	174.85	239.73	-57.51	894.17	867.26	26.91	33.232		
3,100.00	3,009.95	3,011.64	3,009.87	16.06	13.31	174.85	239.73	-59.92	921.36	893.58	27.78	33.163		
3,200.00	3,106.16	3,107.87	3,106.08	16.60	13.72	174.85	239.73	-62.32	948.56	919.90	28.66	33.097		
3,300.00	3,202.37	3,204.11	3,202.28	17.14	14.13	174.84	239.73	-64.73	975.75	946.21	29.54	33.033		
3,400.00	3,298.57	3,300.34	3,298.48	17.68	14.54	174.84	239.73	-67.13	1,002.94	972.52	30.42	32.971		
3,500.00	3,394.78	3,403.43	3,394.68	18.22	14.98	174.84	239.73	-69.54	1,030.14	998.81	31.33	32.880		
3,600.00	3,490.98	3,507.20	3,490.88	18.76	15.43	174.84	239.73	-71.94	1,057.33	1,025.08	32.25	32.790		
3,700.00	3,587.19	3,589.03	3,587.08	19.31	15.78	174.83	239.73	-74.34	1,084.52	1,051.46	33.07	32.797		
3,800.00	3,683.39	3,685.26	3,683.29	19.85	16.19	174.83	239.73	-76.75	1,111.72	1,077.76	33.95	32.742		
3,900.00	3,779.60	3,781.50	3,779.49	20.39	16.61	174.83	239.73	-79.15	1,138.91	1,104.07	34.84	32.690		
4,000.00	3,875.80	3,877.73	3,875.69	20.94	17.02	174.83	239.73	-81.56	1,166.10	1,130.38	35.73	32.639		
4,100.00	3,972.01	3,973.96	3,971.89	21.48	17.44	174.83	239.73	-83.96	1,193.30	1,156.68	36.62	32.590		
4,200.00	4,068.21	4,070.19	4,068.09	22.03	17.85	174.82	239.73	-86.37	1,220.49	1,182.98	37.50	32.542		
4,300.00	4,164.42	4,166.42	4,164.29	22.57	18.27	174.82	239.73	-88.77	1,247.68	1,209.29	38.39	32.496		
4,400.00	4,260.62	4,262.65	4,260.49	23.12	18.69	174.82	239.73	-91.18	1,274.88	1,235.59	39.29	32.452		
4,500.00	4,356.83	4,358.89	4,356.70	23.67	19.10	174.82	239.73	-93.58	1,302.07	1,261.89	40.18	32.409		
4,600.00	4,453.03	4,455.12	4,452.90	24.21	19.52	174.82	239.73	-95.99	1,329.26	1,288.19	41.07	32.367		
4,700.00	4,549.24	4,551.35	4,549.10	24.76	19.94	174.82	239.73	-98.39	1,356.46	1,314.49	41.96	32.327		
4,800.00	4,645.44	4,647.58	4,645.30	25.31	20.36	174.82	239.73	-100.79	1,383.65	1,340.79	42.85	32.288		
4,900.00	4,741.65	4,743.81	4,741.50	25.86	20.78	174.81	239.73	-103.20	1,410.84	1,367.09	43.75	32.250		
5,000.00	4,837.85	4,840.04	4,837.70	26.40	21.19	174.81	239.73	-105.60	1,438.04	1,393.39	44.64	32.213		
5,100.00	4,934.06	4,936.28	4,933.91	26.95	21.61	174.81	239.73	-108.01	1,465.23	1,419.69	45.54	32.177		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,032.51	5,030.11	27.50	22.03	174.81	239.73	-110.41	1,492.42	1,445.99	46.43	32.143	
5,300.00	5,126.47	5,128.74	5,126.31	28.05	22.45	174.81	239.73	-112.82	1,519.61	1,472.29	47.33	32.109	
5,400.00	5,222.67	5,224.97	5,222.51	28.60	22.87	174.81	239.73	-115.22	1,546.81	1,498.59	48.22	32.077	
5,500.00	5,318.88	5,321.20	5,318.71	29.15	23.29	174.81	239.73	-117.63	1,574.00	1,524.88	49.12	32.045	
5,600.00	5,415.08	5,417.43	5,414.91	29.70	23.71	174.81	239.73	-120.03	1,601.19	1,551.18	50.02	32.014	
5,700.00	5,511.29	5,513.67	5,511.12	30.25	24.13	174.81	239.73	-122.44	1,628.39	1,577.48	50.91	31.984	
5,800.00	5,607.49	5,609.90	5,607.32	30.79	24.55	174.80	239.73	-124.84	1,655.58	1,603.77	51.81	31.955	
5,900.00	5,703.70	5,706.13	5,703.52	31.34	24.97	174.80	239.73	-127.24	1,682.77	1,630.07	52.71	31.927	
6,000.00	5,799.90	5,802.36	5,799.72	31.89	25.39	174.80	239.73	-129.65	1,709.97	1,656.36	53.60	31.900	
6,100.00	5,896.11	5,901.41	5,895.92	32.44	25.82	174.80	239.73	-132.05	1,737.16	1,682.65	54.52	31.866	
6,200.00	5,992.32	6,005.18	5,992.12	32.99	26.27	174.80	239.73	-134.46	1,764.35	1,708.91	55.45	31.821	
6,300.00	6,088.52	6,108.94	6,088.33	33.54	26.72	174.80	239.73	-136.86	1,791.55	1,735.17	56.38	31.777	
6,400.00	6,184.73	6,187.29	6,184.53	34.09	27.07	174.80	239.73	-139.27	1,818.74	1,761.54	57.20	31.797	
6,500.00	6,280.93	6,283.52	6,280.73	34.64	27.49	174.80	239.73	-141.67	1,845.93	1,787.83	58.10	31.772	
6,600.00	6,377.14	6,379.75	6,376.93	35.19	27.91	174.80	239.73	-144.08	1,873.13	1,814.13	59.00	31.749	
6,700.00	6,473.34	6,475.98	6,473.13	35.74	28.33	174.80	239.73	-146.48	1,900.32	1,840.42	59.90	31.726	
6,800.00	6,569.55	6,574.89	6,571.83	36.29	28.76	174.70	239.66	-152.04	1,927.47	1,866.65	60.82	31.689	
6,900.00	6,665.75	6,672.62	6,667.51	36.84	29.20	169.17	239.33	-171.46	1,954.50	1,892.76	61.74	31.655	
7,000.00	6,761.11	6,766.63	6,755.71	37.39	29.62	139.90	238.74	-203.74	1,981.34	1,918.71	62.63	31.637	
7,100.00	6,853.41	6,858.38	6,836.30	37.89	30.04	121.31	237.93	-247.42	2,007.31	1,943.84	63.47	31.626	
7,200.00	6,940.36	6,948.35	6,908.44	38.34	30.47	109.69	236.91	-301.06	2,031.73	1,967.44	64.29	31.604	
7,300.00	7,019.83	7,036.95	6,971.39	38.74	30.94	101.92	235.73	-363.29	2,053.96	1,988.84	65.12	31.543	
7,400.00	7,089.85	7,124.47	7,024.50	39.10	31.49	96.45	234.40	-432.75	2,073.41	2,007.39	66.02	31.407	
7,500.00	7,148.71	7,211.12	7,067.22	39.42	32.12	92.52	232.94	-508.06	2,089.58	2,022.52	67.06	31.159	
7,600.00	7,194.95	7,297.07	7,099.10	39.71	32.87	89.75	231.40	-587.79	2,102.07	2,033.75	68.32	30.767	
7,700.00	7,227.43	7,382.41	7,119.85	40.01	33.74	87.93	229.79	-670.48	2,110.54	2,040.69	69.85	30.214	
7,800.00	7,245.37	7,467.20	7,129.34	40.37	34.71	86.96	228.15	-754.65	2,114.79	2,043.14	71.66	29.513	
7,900.00	7,248.84	7,561.39	7,129.77	40.87	35.92	86.78	226.31	-848.82	2,114.74	2,040.83	73.90	28.615	
8,000.00	7,248.24	7,661.38	7,129.41	41.62	37.36	86.78	224.35	-948.79	2,113.35	2,036.78	76.58	27.598	
8,100.00	7,247.65	7,761.37	7,129.04	42.66	38.95	86.78	222.40	-1,048.76	2,111.97	2,032.40	79.57	26.543	
8,200.00	7,247.05	7,861.36	7,128.67	43.96	40.69	86.79	220.44	-1,148.73	2,110.59	2,027.74	82.85	25.476	
8,300.00	7,246.46	7,961.35	7,128.31	45.46	42.54	86.79	218.49	-1,248.70	2,109.21	2,022.83	86.38	24.419	
8,400.00	7,245.86	8,061.34	7,127.94	47.13	44.50	86.80	216.53	-1,348.67	2,107.82	2,017.69	90.13	23.387	
8,500.00	7,245.27	8,161.33	7,127.57	48.93	46.55	86.80	214.58	-1,448.64	2,106.44	2,012.36	94.08	22.391	
8,600.00	7,244.67	8,261.32	7,127.21	50.84	48.68	86.81	212.62	-1,548.61	2,105.06	2,006.86	98.20	21.437	
8,700.00	7,244.07	8,361.31	7,126.84	52.85	50.89	86.81	210.67	-1,648.58	2,103.68	2,001.20	102.47	20.529	
8,800.00	7,243.48	8,461.30	7,126.48	54.94	53.15	86.81	208.71	-1,748.55	2,102.29	1,995.41	106.88	19.670	
8,900.00	7,242.88	8,561.29	7,126.11	57.10	55.47	86.82	206.76	-1,848.53	2,100.91	1,989.51	111.40	18.858	
9,000.00	7,242.29	8,661.28	7,125.74	59.32	57.84	86.82	204.80	-1,948.50	2,099.53	1,983.49	116.03	18.094	
9,100.00	7,241.69	8,761.27	7,125.38	61.60	60.25	86.83	202.85	-2,048.47	2,098.15	1,977.39	120.75	17.375	
9,200.00	7,241.09	8,861.26	7,125.01	63.92	62.70	86.83	200.89	-2,148.44	2,096.76	1,971.20	125.56	16.700	
9,300.00	7,240.50	8,961.25	7,124.65	66.29	65.18	86.83	198.93	-2,248.41	2,095.38	1,964.95	130.43	16.065	
9,400.00	7,239.90	9,061.24	7,124.28	68.70	67.69	86.84	196.98	-2,348.38	2,094.00	1,958.62	135.37	15.468	
9,500.00	7,239.31	9,161.23	7,123.91	71.14	70.23	86.84	195.02	-2,448.35	2,092.62	1,952.24	140.37	14.907	
9,600.00	7,238.71	9,261.23	7,123.55	73.61	72.79	86.85	193.07	-2,548.32	2,091.23	1,945.81	145.42	14.380	
9,700.00	7,238.11	9,361.22	7,123.18	76.11	75.37	86.85	191.11	-2,648.29	2,089.85	1,939.33	150.52	13.884	
9,800.00	7,237.52	9,461.21	7,122.81	78.64	77.97	86.86	189.16	-2,748.26	2,088.47	1,932.81	155.66	13.417	
9,900.00	7,236.92	9,561.20	7,122.45	81.19	80.59	86.86	187.20	-2,848.23	2,087.09	1,926.24	160.84	12.976	
10,000.00	7,236.33	9,661.19	7,122.08	83.75	83.22	86.86	185.25	-2,948.20	2,085.70	1,919.65	166.05	12.560	
10,100.00	7,235.73	9,761.18	7,121.72	86.34	85.87	86.87	183.29	-3,048.17	2,084.32	1,913.02	171.30	12.168	
10,200.00	7,235.14	9,861.17	7,121.35	88.94	88.53	86.87	181.34	-3,148.14	2,082.94	1,906.37	176.57	11.796	
10,300.00	7,234.54	9,961.16	7,120.98	91.56	91.20	86.88	179.38	-3,248.11	2,081.56	1,899.68	181.87	11.445	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	10,061.15	7,120.62	94.19	93.88	86.88	177.43	-3,348.08	2,080.17	1,892.98	187.20	11.112	
10,500.00	7,233.35	10,161.14	7,120.25	96.84	96.57	86.89	175.47	-3,448.05	2,078.79	1,886.25	192.54	10.797	
10,600.00	7,232.75	10,261.13	7,119.89	99.50	99.27	86.89	173.51	-3,548.02	2,077.41	1,879.50	197.91	10.497	
10,700.00	7,232.16	10,361.12	7,119.52	102.17	101.98	86.89	171.56	-3,648.00	2,076.03	1,872.74	203.29	10.212	
10,800.00	7,231.56	10,461.11	7,119.15	104.85	104.70	86.90	169.60	-3,747.97	2,074.65	1,865.95	208.69	9.941	
10,900.00	7,230.96	10,561.10	7,118.79	107.53	107.42	86.90	167.65	-3,847.94	2,073.26	1,859.15	214.11	9.683	
11,000.00	7,230.37	10,661.09	7,118.42	110.23	110.15	86.91	165.69	-3,947.91	2,071.88	1,852.34	219.54	9.437	
11,100.00	7,229.77	10,761.08	7,118.05	112.93	112.89	86.91	163.74	-4,047.88	2,070.50	1,845.51	224.99	9.203	
11,200.00	7,229.18	10,861.07	7,117.69	115.65	115.63	86.92	161.78	-4,147.85	2,069.12	1,838.67	230.45	8.979	
11,300.00	7,228.58	10,961.06	7,117.32	118.37	118.38	86.92	159.83	-4,247.82	2,067.73	1,831.82	235.92	8.765	
11,400.00	7,227.99	11,061.05	7,116.96	121.09	121.13	86.92	157.87	-4,347.79	2,066.35	1,824.95	241.40	8.560	
11,500.00	7,227.39	11,161.04	7,116.59	123.82	123.89	86.93	155.92	-4,447.76	2,064.97	1,818.08	246.89	8.364	
11,600.00	7,226.79	11,261.03	7,116.22	126.56	126.65	86.93	153.96	-4,547.73	2,063.59	1,811.20	252.39	8.176	
11,700.00	7,226.20	11,361.02	7,115.86	129.30	129.42	86.94	152.01	-4,647.70	2,062.21	1,804.30	257.90	7.996	
11,800.00	7,225.60	11,461.01	7,115.49	132.05	132.19	86.94	150.05	-4,747.67	2,060.82	1,797.40	263.42	7.823	
11,900.00	7,225.01	11,561.00	7,115.13	134.80	134.96	86.95	148.09	-4,847.64	2,059.44	1,790.49	268.95	7.657	
12,000.00	7,224.41	11,660.99	7,114.76	137.56	137.74	86.95	146.14	-4,947.61	2,058.06	1,783.58	274.48	7.498	
12,100.00	7,223.81	11,760.98	7,114.39	140.32	140.52	86.95	144.18	-5,047.58	2,056.68	1,776.65	280.02	7.345	
12,200.00	7,223.22	11,860.97	7,114.03	143.08	143.30	86.96	142.23	-5,147.55	2,055.29	1,769.72	285.57	7.197	
12,300.00	7,222.62	11,960.96	7,113.66	145.85	146.08	86.96	140.27	-5,247.52	2,053.91	1,762.79	291.12	7.055	
12,400.00	7,222.03	12,060.95	7,113.30	148.62	148.87	86.97	138.32	-5,347.49	2,052.53	1,755.85	296.68	6.918	
12,500.00	7,221.43	12,160.94	7,112.93	151.40	151.66	86.97	136.36	-5,447.46	2,051.15	1,748.90	302.25	6.786	
12,600.00	7,220.83	12,260.94	7,112.56	154.18	154.45	86.98	134.41	-5,547.44	2,049.77	1,741.95	307.82	6.659	
12,700.00	7,220.24	12,360.93	7,112.20	156.96	157.25	86.98	132.45	-5,647.41	2,048.38	1,734.99	313.40	6.536	
12,800.00	7,219.64	12,460.92	7,111.83	159.74	160.05	86.99	130.50	-5,747.38	2,047.00	1,728.03	318.98	6.417	
12,900.00	7,219.05	12,560.91	7,111.46	162.53	162.85	86.99	128.54	-5,847.35	2,045.62	1,721.06	324.56	6.303	
13,000.00	7,218.45	12,660.90	7,111.10	165.32	165.65	86.99	126.59	-5,947.32	2,044.24	1,714.09	330.15	6.192	
13,100.00	7,217.86	12,760.89	7,110.73	168.11	168.45	87.00	124.63	-6,047.29	2,042.86	1,707.11	335.74	6.085	
13,200.00	7,217.26	12,860.88	7,110.37	170.90	171.25	87.00	122.68	-6,147.26	2,041.47	1,700.14	341.34	5.981	
13,300.00	7,216.66	12,960.87	7,110.00	173.70	174.06	87.01	120.72	-6,247.23	2,040.09	1,693.15	346.94	5.880	
13,400.00	7,216.07	13,060.86	7,109.63	176.49	176.87	87.01	118.76	-6,347.20	2,038.71	1,686.17	352.54	5.783	
13,500.00	7,215.47	13,160.85	7,109.27	179.29	179.67	87.02	116.81	-6,447.17	2,037.33	1,679.18	358.15	5.688	
13,600.00	7,214.88	13,260.84	7,108.90	182.09	182.48	87.02	114.85	-6,547.14	2,035.95	1,672.19	363.76	5.597	
13,700.00	7,214.28	13,360.83	7,108.54	184.90	185.30	87.03	112.90	-6,647.11	2,034.56	1,665.19	369.37	5.508	
13,800.00	7,213.68	13,460.82	7,108.17	187.70	188.11	87.03	110.94	-6,747.08	2,033.18	1,658.19	374.99	5.422	
13,900.00	7,213.09	13,560.81	7,107.80	190.51	190.92	87.03	108.99	-6,847.05	2,031.80	1,651.19	380.61	5.338	
14,000.00	7,212.49	13,660.80	7,107.44	193.32	193.74	87.04	107.03	-6,947.02	2,030.42	1,644.19	386.23	5.257	
14,100.00	7,211.90	13,760.79	7,107.07	196.13	196.55	87.04	105.08	-7,046.99	2,029.04	1,637.18	391.86	5.178	
14,200.00	7,211.30	13,860.78	7,106.70	198.94	199.37	87.05	103.12	-7,146.96	2,027.65	1,630.17	397.48	5.101	
14,300.00	7,210.71	13,960.77	7,106.34	201.75	202.19	87.05	101.17	-7,246.93	2,026.27	1,623.16	403.11	5.027	
14,400.00	7,210.11	14,060.76	7,105.97	204.56	205.01	87.06	99.21	-7,346.90	2,024.89	1,616.15	408.74	4.954	
14,500.00	7,209.51	14,160.75	7,105.61	207.38	207.83	87.06	97.26	-7,446.88	2,023.51	1,609.13	414.38	4.883	
14,600.00	7,208.92	14,260.74	7,105.24	210.19	210.65	87.07	95.30	-7,546.85	2,022.13	1,602.11	420.01	4.814	
14,700.00	7,208.32	14,360.73	7,104.87	213.01	213.47	87.07	93.34	-7,646.82	2,020.75	1,595.10	425.65	4.747	
14,800.00	7,207.73	14,460.72	7,104.51	215.83	216.30	87.07	91.39	-7,746.79	2,019.36	1,588.07	431.29	4.682	
14,900.00	7,207.13	14,560.71	7,104.14	218.65	219.12	87.08	89.43	-7,846.76	2,017.98	1,581.05	436.93	4.619	
15,000.00	7,206.53	14,660.70	7,103.78	221.47	221.94	87.08	87.48	-7,946.73	2,016.60	1,574.03	442.57	4.557	
15,100.00	7,205.94	14,760.69	7,103.41	224.29	224.77	87.09	85.52	-8,046.70	2,015.22	1,567.00	448.22	4.496	
15,200.00	7,205.34	14,860.68	7,103.04	227.11	227.59	87.09	83.57	-8,146.67	2,013.84	1,559.97	453.86	4.437	
15,239.55	7,205.11	14,872.41	7,103.00	228.23	227.93	87.09	83.34	-8,158.39	2,013.48	1,558.27	455.22	4.423	
15,258.04	7,205.00	14,872.41	7,103.00	228.75	227.93	87.09	83.34	-8,158.39	2,013.57	1,557.94	455.63	4.419 SF	



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	60.00	3.28	3.28	-114.17	-4,035.94	-8,992.92	9,857.24					
100.00	100.00	40.00	100.00	3.28	3.35	-114.17	-4,035.94	-8,992.92	9,857.05	9,850.42	6.64	1,484.896		
200.00	200.00	140.00	200.00	3.34	4.54	-114.17	-4,035.94	-8,992.92	9,857.05	9,849.17	7.88	1,251.046		
300.00	299.98	239.98	299.98	3.44	7.40	61.10	-4,035.94	-8,992.92	9,856.21	9,845.37	10.84	909.377		
400.00	399.84	339.84	399.84	3.59	10.64	61.17	-4,035.94	-8,992.92	9,853.68	9,839.45	14.23	692.662		
500.00	499.45	439.45	499.45	3.79	13.99	61.29	-4,035.94	-8,992.92	9,849.47	9,831.70	17.77	554.171		
600.00	598.70	538.70	598.70	4.03	17.37	61.45	-4,035.94	-8,992.92	9,843.60	9,822.20	21.40	459.914		
700.00	697.47	637.47	697.47	4.31	20.77	61.67	-4,035.94	-8,992.92	9,836.08	9,811.00	25.08	392.153		
800.00	795.62	735.62	795.62	4.64	24.16	61.92	-4,035.94	-8,992.92	9,826.93	9,798.14	28.79	341.305		
900.00	893.06	833.06	893.06	5.00	27.53	62.23	-4,035.94	-8,992.92	9,816.18	9,783.66	32.52	301.842		
1,000.00	989.65	929.65	989.65	5.40	30.88	62.56	-4,035.94	-8,992.92	9,803.87	9,767.61	36.26	270.376		
1,100.00	1,085.85	1,025.85	1,085.85	5.82	34.22	62.70	-4,035.94	-8,992.92	9,790.94	9,750.92	40.01	244.694		
1,200.00	1,182.06	1,122.06	1,182.06	6.27	37.57	62.84	-4,035.94	-8,992.92	9,778.06	9,734.28	43.79	223.303		
1,300.00	1,278.26	1,218.26	1,278.26	6.73	40.92	62.97	-4,035.94	-8,992.92	9,765.25	9,717.67	47.58	205.230		
1,400.00	1,374.47	1,314.47	1,374.47	7.20	44.26	63.11	-4,035.94	-8,992.92	9,752.50	9,701.11	51.39	189.773		
1,500.00	1,470.67	1,410.67	1,470.67	7.69	47.61	63.25	-4,035.94	-8,992.92	9,739.81	9,684.60	55.21	176.412		
1,600.00	1,566.88	1,506.88	1,566.88	8.18	50.97	63.39	-4,035.94	-8,992.92	9,727.17	9,668.13	59.04	164.753		
1,700.00	1,663.08	1,603.08	1,663.08	8.68	54.32	63.53	-4,035.94	-8,992.92	9,714.60	9,651.72	62.88	154.496		
1,800.00	1,759.29	1,700.71	1,759.29	9.19	57.72	63.67	-4,035.94	-8,992.92	9,702.09	9,635.31	66.77	145.296		
1,900.00	1,855.49	1,804.51	1,855.49	9.70	61.34	63.81	-4,035.94	-8,992.92	9,689.64	9,618.75	70.89	136.684		
2,000.00	1,951.70	1,908.30	1,951.70	10.22	64.96	63.95	-4,035.94	-8,992.92	9,677.25	9,602.23	75.01	129.009		
2,100.00	2,047.90	1,987.90	2,047.90	10.73	67.73	64.09	-4,035.94	-8,992.92	9,664.92	9,586.62	78.29	123.443		
2,200.00	2,144.11	2,084.11	2,144.11	11.26	71.09	64.23	-4,035.94	-8,992.92	9,652.65	9,570.49	82.16	117.487		
2,300.00	2,240.31	2,180.31	2,240.31	11.78	74.44	64.37	-4,035.94	-8,992.92	9,640.44	9,554.41	86.03	112.062		
2,400.00	2,336.52	2,276.52	2,336.52	12.31	77.80	64.52	-4,035.94	-8,992.92	9,628.30	9,538.40	89.90	107.101		
2,500.00	2,432.72	2,372.72	2,432.72	12.84	81.15	64.66	-4,035.94	-8,992.92	9,616.22	9,522.44	93.77	102.547		
2,600.00	2,528.93	2,468.93	2,528.93	13.37	84.51	64.80	-4,035.94	-8,992.92	9,604.20	9,506.55	97.65	98.353		
2,700.00	2,625.13	2,565.13	2,625.13	13.91	87.86	64.94	-4,035.94	-8,992.92	9,592.24	9,490.71	101.53	94.478		
2,800.00	2,721.34	2,661.34	2,721.34	14.44	91.22	65.09	-4,035.94	-8,992.92	9,580.34	9,474.93	105.41	90.887		
2,900.00	2,817.54	2,757.54	2,817.54	14.98	94.58	65.23	-4,035.94	-8,992.92	9,568.51	9,459.22	109.29	87.551		
3,000.00	2,913.75	2,853.75	2,913.75	15.52	97.93	65.37	-4,035.94	-8,992.92	9,556.74	9,443.57	113.17	84.442		
3,100.00	3,009.95	2,949.95	3,009.95	16.06	101.29	65.52	-4,035.94	-8,992.92	9,545.04	9,427.98	117.06	81.539		
3,200.00	3,106.16	3,046.16	3,106.16	16.60	104.65	65.66	-4,035.94	-8,992.92	9,533.40	9,412.45	120.95	78.823		
3,300.00	3,202.37	3,142.37	3,202.37	17.14	108.00	65.81	-4,035.94	-8,992.92	9,521.82	9,396.98	124.83	76.275		
3,400.00	3,298.57	3,238.57	3,298.57	17.68	111.36	65.95	-4,035.94	-8,992.92	9,510.31	9,381.58	128.72	73.881		
3,500.00	3,394.78	3,334.78	3,394.78	18.22	114.72	66.10	-4,035.94	-8,992.92	9,498.86	9,366.24	132.61	71.628		
3,600.00	3,490.98	3,430.98	3,490.98	18.76	118.08	66.24	-4,035.94	-8,992.92	9,487.47	9,350.97	136.51	69.503		
3,700.00	3,587.19	3,527.19	3,587.19	19.31	121.43	66.39	-4,035.94	-8,992.92	9,476.15	9,335.76	140.40	67.495		
3,800.00	3,683.39	3,623.39	3,683.39	19.85	124.79	66.54	-4,035.94	-8,992.92	9,464.90	9,320.61	144.29	65.596		
3,900.00	3,779.60	3,719.60	3,779.60	20.39	128.15	66.68	-4,035.94	-8,992.92	9,453.71	9,305.53	148.18	63.797		
4,000.00	3,875.80	3,815.80	3,875.80	20.94	131.51	66.83	-4,035.94	-8,992.92	9,442.59	9,290.51	152.08	62.090		
4,100.00	3,972.01	3,912.01	3,972.01	21.48	134.86	66.98	-4,035.94	-8,992.92	9,431.53	9,275.56	155.97	60.468		
4,200.00	4,068.21	4,008.21	4,068.21	22.03	138.22	67.13	-4,035.94	-8,992.92	9,420.54	9,260.67	159.87	58.926		
4,300.00	4,164.42	4,104.42	4,164.42	22.57	141.58	67.27	-4,035.94	-8,992.92	9,409.61	9,245.85	163.77	57.457		
4,400.00	4,260.62	4,200.62	4,260.62	23.12	144.94	67.42	-4,035.94	-8,992.92	9,398.76	9,231.09	167.67	56.057		
4,500.00	4,356.83	4,303.17	4,356.83	23.67	148.31	67.57	-4,035.94	-8,992.92	9,387.96	9,216.18	171.78	54.650		
4,600.00	4,453.03	4,406.97	4,453.03	24.21	151.64	67.72	-4,035.94	-8,992.92	9,377.24	9,201.29	175.95	53.295		
4,700.00	4,549.24	4,489.24	4,549.24	24.76	155.01	67.87	-4,035.94	-8,992.92	9,366.58	9,187.22	179.36	52.222		
4,800.00	4,645.44	4,585.44	4,645.44	25.31	158.37	68.02	-4,035.94	-8,992.92	9,355.99	9,172.73	183.26	51.053		
4,900.00	4,741.65	4,681.65	4,741.65	25.86	161.72	68.17	-4,035.94	-8,992.92	9,345.47	9,158.31	187.16	49.933		
5,000.00	4,837.85	4,777.85	4,837.85	26.40	165.08	68.32	-4,035.94	-8,992.92	9,335.01	9,143.95	191.06	48.858		
5,100.00	4,934.06	4,874.06	4,934.06	26.95	168.44	68.47	-4,035.94	-8,992.92	9,324.63	9,129.66	194.96	47.827		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,970.26	5,030.26	27.50	171.80	68.62	-4,035.94	-8,992.92	9,314.31	9,115.44	198.87	46.837		
5,300.00	5,126.47	5,066.47	5,126.47	28.05	175.16	68.77	-4,035.94	-8,992.92	9,304.06	9,101.29	202.77	45.885		
5,400.00	5,222.67	5,162.67	5,222.67	28.60	178.51	68.93	-4,035.94	-8,992.92	9,293.88	9,087.21	206.67	44.970		
5,500.00	5,318.88	5,258.88	5,318.88	29.15	181.87	69.08	-4,035.94	-8,992.92	9,283.77	9,073.19	210.57	44.088		
5,600.00	5,415.08	5,355.08	5,415.08	29.70	185.23	69.23	-4,035.94	-8,992.92	9,273.73	9,059.25	214.48	43.239		
5,700.00	5,511.29	5,451.29	5,511.29	30.25	188.59	69.38	-4,035.94	-8,992.92	9,263.75	9,045.37	218.38	42.420		
5,800.00	5,607.49	5,547.49	5,607.49	30.79	191.95	69.54	-4,035.94	-8,992.92	9,253.85	9,031.56	222.29	41.630		
5,900.00	5,703.70	5,643.70	5,703.70	31.34	195.30	69.69	-4,035.94	-8,992.92	9,244.02	9,017.83	226.19	40.868		
6,000.00	5,799.90	5,739.90	5,799.90	31.89	198.66	69.84	-4,035.94	-8,992.92	9,234.25	9,004.16	230.10	40.132		
6,100.00	5,896.11	5,836.11	5,896.11	32.44	202.02	70.00	-4,035.94	-8,992.92	9,224.56	8,990.56	234.00	39.421		
6,200.00	5,992.32	5,932.32	5,992.32	32.99	205.38	70.15	-4,035.94	-8,992.92	9,214.94	8,977.03	237.91	38.733		
6,300.00	6,088.52	6,028.52	6,088.52	33.54	208.74	70.30	-4,035.94	-8,992.92	9,205.39	8,963.57	241.81	38.068		
6,400.00	6,184.73	6,124.73	6,184.73	34.09	212.09	70.46	-4,035.94	-8,992.92	9,195.91	8,950.19	245.72	37.424		
6,500.00	6,280.93	6,220.93	6,280.93	34.64	215.45	70.61	-4,035.94	-8,992.92	9,186.50	8,936.87	249.63	36.801		
6,600.00	6,377.14	6,317.14	6,377.14	35.19	218.81	70.77	-4,035.94	-8,992.92	9,177.16	8,923.63	253.53	36.197		
6,700.00	6,473.34	6,413.34	6,473.34	35.74	222.17	70.92	-4,035.94	-8,992.92	9,167.90	8,910.45	257.44	35.611		
6,800.00	6,569.55	6,509.55	6,569.55	36.29	225.53	71.08	-4,035.94	-8,992.92	9,158.70	8,897.35	261.35	35.044		
6,900.00	6,665.75	6,605.75	6,665.75	36.84	228.89	66.56	-4,035.94	-8,992.92	9,149.41	8,884.16	265.26	34.492		
7,000.00	6,761.11	6,701.11	6,761.11	37.39	232.21	40.13	-4,035.94	-8,992.92	9,130.59	8,861.47	269.12	33.928		
7,100.00	6,853.41	6,806.59	6,853.41	37.89	235.90	23.81	-4,035.94	-8,992.92	9,097.14	8,823.86	273.28	33.289		
7,200.00	6,940.36	6,880.36	6,940.36	38.34	238.47	13.71	-4,035.94	-8,992.92	9,049.86	8,773.59	276.27	32.757		
7,300.00	7,019.83	6,959.83	7,019.83	38.74	241.24	6.45	-4,035.94	-8,992.92	8,989.90	8,710.49	279.40	32.175		
7,400.00	7,089.85	7,029.85	7,089.85	39.10	243.69	0.04	-4,035.94	-8,992.92	8,918.70	8,636.57	282.13	31.612		
7,500.00	7,148.71	7,088.71	7,148.71	39.42	245.74	-7.10	-4,035.94	-8,992.92	8,838.03	8,553.64	284.40	31.076		
7,600.00	7,194.95	7,134.95	7,194.95	39.71	247.36	-17.11	-4,035.94	-8,992.92	8,749.88	8,463.73	286.15	30.578		
7,700.00	7,227.43	7,167.43	7,227.43	40.01	248.49	-34.23	-4,035.94	-8,992.92	8,656.42	8,369.08	287.34	30.126		
7,800.00	7,245.37	7,185.37	7,245.37	40.37	249.12	-64.58	-4,035.94	-8,992.92	8,559.99	8,272.03	287.96	29.726		
7,900.00	7,248.84	7,188.84	7,248.84	40.87	249.24	-91.33	-4,035.94	-8,992.92	8,462.95	8,174.91	288.04	29.382		
8,000.00	7,248.24	7,188.24	7,248.24	41.62	249.22	-91.31	-4,035.94	-8,992.92	8,366.12	8,078.15	287.97	29.052		
8,100.00	7,247.65	7,187.65	7,247.65	42.66	249.20	-91.30	-4,035.94	-8,992.92	8,269.38	7,981.46	287.92	28.721		
8,200.00	7,247.05	7,187.05	7,247.05	43.96	249.18	-91.28	-4,035.94	-8,992.92	8,172.71	7,884.82	287.88	28.389		
8,300.00	7,246.46	7,186.46	7,246.46	45.46	249.16	-91.27	-4,035.94	-8,992.92	8,076.12	7,788.25	287.87	28.055		
8,400.00	7,245.86	7,185.86	7,245.86	47.13	249.13	-91.25	-4,035.94	-8,992.92	7,979.61	7,691.74	287.87	27.720		
8,500.00	7,245.27	7,185.27	7,245.27	48.93	249.11	-91.23	-4,035.94	-8,992.92	7,883.20	7,595.31	287.89	27.383		
8,600.00	7,244.67	7,184.67	7,244.67	50.84	249.09	-91.22	-4,035.94	-8,992.92	7,786.87	7,498.93	287.93	27.044		
8,700.00	7,244.07	7,184.07	7,244.07	52.85	249.07	-91.20	-4,035.94	-8,992.92	7,690.64	7,402.64	288.00	26.704		
8,800.00	7,243.48	7,183.48	7,243.48	54.94	249.05	-91.18	-4,035.94	-8,992.92	7,594.50	7,306.41	288.09	26.361		
8,900.00	7,242.88	7,182.88	7,242.88	57.10	249.03	-91.17	-4,035.94	-8,992.92	7,498.47	7,210.26	288.21	26.017		
9,000.00	7,242.29	7,182.29	7,242.29	59.32	249.01	-91.15	-4,035.94	-8,992.92	7,402.54	7,114.18	288.35	25.672		
9,100.00	7,241.69	7,181.69	7,241.69	61.60	248.99	-91.14	-4,035.94	-8,992.92	7,306.71	7,018.19	288.53	25.324		
9,200.00	7,241.09	7,181.09	7,241.09	63.92	248.97	-91.12	-4,035.94	-8,992.92	7,211.01	6,922.28	288.73	24.975		
9,300.00	7,240.50	7,180.50	7,240.50	66.29	248.95	-91.10	-4,035.94	-8,992.92	7,115.42	6,826.45	288.97	24.624		
9,400.00	7,239.90	7,179.90	7,239.90	68.70	248.93	-91.09	-4,035.94	-8,992.92	7,019.95	6,730.71	289.24	24.270		
9,500.00	7,239.31	7,179.31	7,239.31	71.14	248.91	-91.07	-4,035.94	-8,992.92	6,924.61	6,635.07	289.55	23.915		
9,600.00	7,238.71	7,178.71	7,238.71	73.61	248.89	-91.05	-4,035.94	-8,992.92	6,829.41	6,539.51	289.89	23.558		
9,700.00	7,238.11	7,178.11	7,238.11	76.11	248.86	-91.04	-4,035.94	-8,992.92	6,734.34	6,444.06	290.28	23.200		
9,800.00	7,237.52	7,177.52	7,237.52	78.64	248.84	-91.02	-4,035.94	-8,992.92	6,639.42	6,348.71	290.71	22.839		
9,900.00	7,236.92	7,176.92	7,236.92	81.19	248.82	-91.01	-4,035.94	-8,992.92	6,544.65	6,253.47	291.18	22.476		
10,000.00	7,236.33	7,176.33	7,236.33	83.75	248.80	-90.99	-4,035.94	-8,992.92	6,450.03	6,158.34	291.70	22.112		
10,100.00	7,235.73	7,175.73	7,235.73	86.34	248.78	-90.97	-4,035.94	-8,992.92	6,355.59	6,063.32	292.26	21.746		
10,200.00	7,235.14	7,175.14	7,235.14	88.94	248.76	-90.96	-4,035.94	-8,992.92	6,261.31	5,968.43	292.88	21.378		
10,300.00	7,234.54	7,174.54	7,234.54	91.56	248.74	-90.94	-4,035.94	-8,992.92	6,167.22	5,873.66	293.55	21.009		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,173.94	7,233.94	94.19	248.72	-90.92	-4,035.94	-8,992.92	6,073.31	5,779.03	294.28	20.638		
10,500.00	7,233.35	7,173.35	7,233.35	96.84	248.70	-90.91	-4,035.94	-8,992.92	5,979.60	5,684.54	295.06	20.266		
10,600.00	7,232.75	7,172.75	7,232.75	99.50	248.68	-90.89	-4,035.94	-8,992.92	5,886.10	5,590.19	295.91	19.892		
10,700.00	7,232.16	7,172.16	7,232.16	102.17	248.66	-90.88	-4,035.94	-8,992.92	5,792.81	5,496.00	296.81	19.517		
10,800.00	7,231.56	7,171.56	7,231.56	104.85	248.64	-90.86	-4,035.94	-8,992.92	5,699.76	5,401.98	297.78	19.141		
10,900.00	7,230.96	7,170.96	7,230.96	107.53	248.61	-90.84	-4,035.94	-8,992.92	5,606.94	5,308.12	298.82	18.764		
11,000.00	7,230.37	7,170.37	7,230.37	110.23	248.59	-90.83	-4,035.94	-8,992.92	5,514.37	5,214.45	299.92	18.386		
11,100.00	7,229.77	7,169.77	7,229.77	112.93	248.57	-90.81	-4,035.94	-8,992.92	5,422.07	5,120.97	301.10	18.007		
11,200.00	7,229.18	7,169.18	7,229.18	115.65	248.55	-90.79	-4,035.94	-8,992.92	5,330.04	5,027.69	302.35	17.628		
11,300.00	7,228.58	7,168.58	7,228.58	118.37	248.53	-90.78	-4,035.94	-8,992.92	5,238.31	4,934.62	303.69	17.249		
11,400.00	7,227.99	7,167.99	7,227.99	121.09	248.51	-90.76	-4,035.94	-8,992.92	5,146.88	4,841.79	305.10	16.870		
11,500.00	7,227.39	7,167.39	7,227.39	123.82	248.49	-90.75	-4,035.94	-8,992.92	5,055.78	4,749.19	306.60	16.490		
11,600.00	7,226.79	7,166.79	7,226.79	126.56	248.47	-90.73	-4,035.94	-8,992.92	4,965.03	4,656.85	308.18	16.111		
11,700.00	7,226.20	7,166.20	7,226.20	129.30	248.45	-90.71	-4,035.94	-8,992.92	4,874.63	4,564.78	309.85	15.732		
11,800.00	7,225.60	7,165.60	7,225.60	132.05	248.43	-90.70	-4,035.94	-8,992.92	4,784.61	4,472.99	311.62	15.354		
11,900.00	7,225.01	7,165.01	7,225.01	134.80	248.41	-90.68	-4,035.94	-8,992.92	4,695.00	4,381.52	313.48	14.977		
12,000.00	7,224.41	7,164.41	7,224.41	137.56	248.39	-90.67	-4,035.94	-8,992.92	4,605.82	4,290.37	315.45	14.601		
12,100.00	7,223.81	7,163.81	7,223.81	140.32	248.37	-90.65	-4,035.94	-8,992.92	4,517.09	4,199.57	317.52	14.226		
12,200.00	7,223.22	7,163.22	7,223.22	143.08	248.34	-90.63	-4,035.94	-8,992.92	4,428.84	4,109.14	319.70	13.853		
12,300.00	7,222.62	7,162.62	7,222.62	145.85	248.32	-90.62	-4,035.94	-8,992.92	4,341.10	4,019.10	322.00	13.482		
12,400.00	7,222.03	7,162.03	7,222.03	148.62	248.30	-90.60	-4,035.94	-8,992.92	4,253.90	3,929.49	324.41	13.113		
12,500.00	7,221.43	7,161.43	7,221.43	151.40	248.28	-90.58	-4,035.94	-8,992.92	4,167.28	3,840.34	326.94	12.746		
12,600.00	7,220.83	7,160.83	7,220.83	154.18	248.26	-90.57	-4,035.94	-8,992.92	4,081.26	3,751.66	329.60	12.382		
12,700.00	7,220.24	7,160.24	7,220.24	156.96	248.24	-90.55	-4,035.94	-8,992.92	3,995.90	3,663.50	332.40	12.021		
12,800.00	7,219.64	7,159.64	7,219.64	159.74	248.22	-90.54	-4,035.94	-8,992.92	3,911.23	3,575.90	335.33	11.664		
12,900.00	7,219.05	7,159.05	7,219.05	162.53	248.20	-90.52	-4,035.94	-8,992.92	3,827.31	3,488.90	338.41	11.310		
13,000.00	7,218.45	7,158.45	7,218.45	165.32	248.18	-90.50	-4,035.94	-8,992.92	3,744.17	3,402.54	341.63	10.960		
13,100.00	7,217.86	7,157.86	7,217.86	168.11	248.16	-90.49	-4,035.94	-8,992.92	3,661.87	3,316.87	345.01	10.614		
13,200.00	7,217.26	7,157.26	7,217.26	170.90	248.14	-90.47	-4,035.94	-8,992.92	3,580.48	3,231.94	348.54	10.273		
13,300.00	7,216.66	7,156.66	7,216.66	173.70	248.12	-90.45	-4,035.94	-8,992.92	3,500.05	3,147.81	352.24	9.936		
13,400.00	7,216.07	7,156.07	7,216.07	176.49	248.10	-90.44	-4,035.94	-8,992.92	3,420.65	3,064.54	356.11	9.605		
13,500.00	7,215.47	7,155.47	7,215.47	179.29	248.07	-90.42	-4,035.94	-8,992.92	3,342.36	2,982.20	360.16	9.280		
13,600.00	7,214.88	7,154.88	7,214.88	182.09	248.05	-90.41	-4,035.94	-8,992.92	3,265.25	2,900.87	364.39	8.961		
13,700.00	7,214.28	7,154.28	7,214.28	184.90	248.03	-90.39	-4,035.94	-8,992.92	3,189.42	2,820.62	368.79	8.648		
13,800.00	7,213.68	7,153.68	7,213.68	187.70	248.01	-90.37	-4,035.94	-8,992.92	3,114.95	2,741.56	373.39	8.342		
13,900.00	7,213.09	7,153.09	7,213.09	190.51	247.99	-90.36	-4,035.94	-8,992.92	3,041.94	2,663.77	378.17	8.044		
14,000.00	7,212.49	7,152.49	7,212.49	193.32	247.97	-90.34	-4,035.94	-8,992.92	2,970.51	2,587.36	383.15	7.753		
14,100.00	7,211.90	7,151.90	7,211.90	196.13	247.95	-90.32	-4,035.94	-8,992.92	2,900.77	2,512.45	388.31	7.470		
14,200.00	7,211.30	7,151.30	7,211.30	198.94	247.93	-90.31	-4,035.94	-8,992.92	2,832.83	2,439.17	393.66	7.196		
14,300.00	7,210.71	7,150.71	7,210.71	201.75	247.91	-90.29	-4,035.94	-8,992.92	2,766.85	2,367.66	399.19	6.931		
14,400.00	7,210.11	7,150.11	7,210.11	204.56	247.89	-90.28	-4,035.94	-8,992.92	2,702.96	2,298.06	404.90	6.676		
14,500.00	7,209.51	7,149.51	7,209.51	207.38	247.87	-90.26	-4,035.94	-8,992.92	2,641.30	2,230.54	410.76	6.430		
14,600.00	7,208.92	7,148.92	7,208.92	210.19	247.85	-90.24	-4,035.94	-8,992.92	2,582.05	2,165.27	416.78	6.195		
14,700.00	7,208.32	7,148.32	7,208.32	213.01	247.82	-90.23	-4,035.94	-8,992.92	2,525.37	2,102.45	422.92	5.971		
14,800.00	7,207.73	7,147.73	7,207.73	215.83	247.80	-90.21	-4,035.94	-8,992.92	2,471.44	2,042.27	429.16	5.759		
14,900.00	7,207.13	7,147.13	7,207.13	218.65	247.78	-90.19	-4,035.94	-8,992.92	2,420.43	1,984.95	435.48	5.558		
15,000.00	7,206.53	7,146.53	7,206.53	221.47	247.76	-90.18	-4,035.94	-8,992.92	2,372.55	1,930.71	441.84	5.370		
15,100.00	7,205.94	7,145.94	7,205.94	224.29	247.74	-90.16	-4,035.94	-8,992.92	2,327.98	1,879.79	448.20	5.194		
15,200.00	7,205.34	7,145.34	7,205.34	227.11	247.72	-90.15	-4,035.94	-8,992.92	2,286.92	1,832.42	454.50	5.032		
15,258.04	7,205.00	7,145.00	7,205.00	228.75	247.71	-90.14	-4,035.94	-8,992.92	2,264.77	1,806.65	458.12	4.944	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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	681.60	714.36	3.28	4.36	-106.87	-2,709.98	-8,933.81	9,363.08					
100.00	100.00	724.00	756.32	3.28	4.49	-106.91	-2,714.14	-8,929.33	9,355.76	9,348.02	7.75	1,207.521		
200.00	200.00	724.00	756.32	3.34	4.49	-106.91	-2,714.14	-8,929.33	9,349.28	9,341.49	7.79	1,200.377		
300.00	299.98	724.00	756.32	3.44	4.49	68.45	-2,714.14	-8,929.33	9,343.22	9,335.34	7.88	1,185.321		
400.00	399.84	768.50	800.30	3.59	4.64	68.55	-2,719.47	-8,925.11	9,336.24	9,328.07	8.17	1,142.573		
500.00	499.45	818.00	849.05	3.79	4.81	68.66	-2,727.15	-8,921.37	9,329.64	9,321.10	8.53	1,093.239		
600.00	598.70	818.00	849.05	4.03	4.81	68.80	-2,727.15	-8,921.37	9,321.95	9,313.18	8.77	1,062.721		
700.00	697.47	818.00	849.05	4.31	4.81	68.95	-2,727.15	-8,921.37	9,314.08	9,305.03	9.05	1,028.923		
800.00	795.62	818.00	849.05	4.64	4.81	69.10	-2,727.15	-8,921.37	9,306.02	9,296.65	9.37	992.929		
900.00	893.06	818.00	849.05	5.00	4.81	69.25	-2,727.15	-8,921.37	9,297.79	9,288.06	9.73	955.633		
1,000.00	989.65	858.57	888.90	5.40	4.95	69.41	-2,734.40	-8,919.16	9,288.82	9,278.55	10.27	904.604		
1,100.00	1,085.85	912.00	941.33	5.82	5.15	69.44	-2,744.58	-8,917.66	9,280.99	9,270.10	10.89	852.553		
1,200.00	1,182.06	912.00	941.33	6.27	5.15	69.44	-2,744.58	-8,917.66	9,273.21	9,261.89	11.32	818.875		
1,300.00	1,278.26	912.00	941.33	6.73	5.15	69.44	-2,744.58	-8,917.66	9,266.51	9,254.73	11.78	786.683		
1,400.00	1,374.47	912.00	941.33	7.20	5.15	69.44	-2,744.58	-8,917.66	9,260.88	9,248.64	12.25	756.146		
1,500.00	1,470.67	912.00	941.33	7.69	5.15	69.44	-2,744.58	-8,917.66	9,256.33	9,243.61	12.73	727.330		
1,600.00	1,566.88	912.00	941.33	8.18	5.15	69.44	-2,744.58	-8,917.66	9,252.86	9,239.65	13.21	700.228		
1,700.00	1,663.08	961.60	989.97	8.68	5.33	69.46	-2,754.29	-8,917.84	9,249.55	9,235.65	13.90	665.519		
1,800.00	1,759.29	1,006.00	1,033.51	9.19	5.50	69.48	-2,762.83	-8,919.44	9,247.97	9,233.39	14.57	634.655		
1,900.00	1,855.49	1,006.00	1,033.51	9.70	5.50	69.48	-2,762.83	-8,919.44	9,246.72	9,231.65	15.08	613.381		
1,964.92	1,917.95	1,006.00	1,033.51	10.03	5.50	69.48	-2,762.83	-8,919.44	9,246.49	9,231.09	15.40	600.276		
2,000.00	1,951.70	1,006.00	1,033.51	10.22	5.50	69.48	-2,762.83	-8,919.44	9,246.56	9,230.98	15.58	593.421		
2,100.00	2,047.90	1,006.00	1,033.51	10.73	5.50	69.48	-2,762.83	-8,919.44	9,247.48	9,231.39	16.09	574.694		
2,200.00	2,144.11	1,006.00	1,033.51	11.26	5.50	69.48	-2,762.83	-8,919.44	9,249.48	9,232.88	16.60	557.119		
2,300.00	2,240.31	1,060.37	1,086.83	11.78	5.70	69.51	-2,772.83	-8,923.04	9,251.71	9,234.39	17.33	533.934		
2,400.00	2,336.52	1,101.00	1,126.68	12.31	5.85	69.54	-2,779.80	-8,926.81	9,255.33	9,237.33	18.00	514.102		
2,500.00	2,432.72	1,101.00	1,126.68	12.84	5.85	69.54	-2,779.80	-8,926.81	9,259.55	9,241.03	18.52	500.079		
2,600.00	2,528.93	1,101.00	1,126.68	13.37	5.85	69.54	-2,779.80	-8,926.81	9,264.85	9,245.82	19.03	486.874		
2,700.00	2,625.13	1,101.00	1,126.68	13.91	5.85	69.54	-2,779.80	-8,926.81	9,271.22	9,251.68	19.54	474.433		
2,800.00	2,721.34	1,152.88	1,177.41	14.44	6.05	69.58	-2,788.90	-8,932.72	9,277.89	9,257.62	20.27	457.780		
2,900.00	2,817.54	1,197.00	1,220.30	14.98	6.23	69.61	-2,797.42	-8,938.55	9,285.95	9,264.98	20.96	442.957		
3,000.00	2,913.75	1,197.00	1,220.30	15.52	6.23	69.61	-2,797.42	-8,938.55	9,294.51	9,273.03	21.47	432.849		
3,100.00	3,009.95	1,197.00	1,220.30	16.06	6.23	69.61	-2,797.42	-8,938.55	9,304.14	9,282.16	21.98	423.294		
3,200.00	3,106.16	1,197.00	1,220.30	16.60	6.23	69.61	-2,797.42	-8,938.55	9,314.83	9,292.35	22.49	414.257		
3,300.00	3,202.37	1,250.20	1,271.71	17.14	6.46	69.64	-2,808.54	-8,946.52	9,325.85	9,302.62	23.23	401.437		
3,400.00	3,298.57	1,292.00	1,311.86	17.68	6.64	69.66	-2,817.88	-8,953.44	9,338.11	9,314.18	23.93	390.271		
3,500.00	3,394.78	1,292.00	1,311.86	18.22	6.64	69.66	-2,817.88	-8,953.44	9,350.97	9,326.54	24.43	382.827		
3,600.00	3,490.98	1,292.00	1,311.86	18.76	6.64	69.66	-2,817.88	-8,953.44	9,364.88	9,339.95	24.92	375.770		
3,700.00	3,587.19	1,331.84	1,349.91	19.31	6.84	69.68	-2,827.26	-8,960.58	9,379.42	9,353.81	25.61	366.253		
3,800.00	3,683.39	1,387.00	1,402.23	19.85	7.12	69.70	-2,841.05	-8,971.33	9,395.20	9,368.82	26.39	356.057		
3,900.00	3,779.60	1,387.00	1,402.23	20.39	7.12	69.70	-2,841.05	-8,971.33	9,411.24	9,384.36	26.87	350.195		
4,000.00	3,875.80	1,412.16	1,425.98	20.94	7.26	69.71	-2,847.59	-8,976.45	9,428.27	9,400.77	27.50	342.853		
4,100.00	3,972.01	1,481.00	1,490.84	21.48	7.66	69.73	-2,865.98	-8,990.37	9,445.67	9,417.31	28.36	333.068		
4,200.00	4,068.21	1,529.18	1,538.06	22.03	7.96	69.74	-2,879.43	-9,000.15	9,463.51	9,434.38	29.13	324.871		
4,300.00	4,164.42	4,300.00	1,627.06	22.57	30.21	69.75	-2,908.70	-9,019.92	9,481.82	9,427.62	54.20	174.957		
4,400.00	4,260.62	1,737.13	1,729.42	23.12	9.43	69.75	-2,943.92	-9,041.19	9,499.70	9,468.28	31.42	302.345		
4,500.00	4,356.83	2,453.38	2,374.49	23.67	15.86	69.26	-3,237.06	-9,138.98	9,516.99	9,479.14	37.85	251.417		
4,600.00	4,453.03	2,513.00	2,428.24	24.21	16.42	69.21	-3,262.10	-9,145.16	9,529.16	9,490.28	38.88	245.094		
4,700.00	4,549.24	2,513.00	2,428.24	24.76	16.42	69.21	-3,262.10	-9,145.16	9,541.77	9,502.39	39.37	242.342		
4,800.00	4,645.44	2,556.72	2,467.64	25.31	16.84	69.18	-3,280.34	-9,150.19	9,555.17	9,514.91	40.25	237.384		
4,900.00	4,741.65	2,608.00	2,513.91	25.86	17.33	69.14	-3,301.53	-9,156.52	9,569.19	9,527.99	41.20	232.279		
5,000.00	4,837.85	2,643.61	2,546.02	26.40	17.67	69.12	-3,316.22	-9,161.14	9,583.77	9,541.77	42.00	228.183		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	4,934.06	2,703.00	2,599.44	26.95	18.24	69.07	-3,340.93	-9,169.07	9,598.90	9,555.88	43.02	223.146		
5,200.00	5,030.26	2,703.00	2,599.44	27.50	18.24	69.07	-3,340.93	-9,169.07	9,614.68	9,571.19	43.49	221.073		
5,300.00	5,126.47	2,753.60	2,644.71	28.05	18.75	69.04	-3,362.40	-9,176.19	9,631.01	9,586.58	44.43	216.750		
5,400.00	5,222.67	2,798.00	2,684.12	28.60	19.20	69.00	-3,381.73	-9,182.80	9,648.20	9,602.88	45.32	212.909		
5,500.00	5,318.88	2,822.71	2,705.95	29.15	19.46	68.98	-3,392.70	-9,186.57	9,665.98	9,619.97	46.02	210.044		
5,600.00	5,415.08	3,119.06	2,968.97	29.70	22.49	68.73	-3,522.47	-9,228.50	9,682.03	9,632.70	49.33	196.276		
5,700.00	5,511.29	3,374.60	3,197.01	30.25	25.09	68.53	-3,632.61	-9,262.52	9,698.43	9,646.20	52.23	185.683		
5,800.00	5,607.49	3,483.87	3,294.62	30.79	26.20	68.44	-3,679.99	-9,275.43	9,712.83	9,659.07	53.75	180.690		
5,900.00	5,703.70	3,550.00	3,353.63	31.34	26.88	68.38	-3,708.77	-9,283.36	9,727.46	9,672.60	54.86	177.300		
6,000.00	5,799.90	3,782.13	3,562.20	31.89	29.21	68.21	-3,806.55	-9,311.78	9,742.33	9,684.80	57.53	169.340		
6,100.00	5,896.11	3,831.00	3,606.48	32.44	29.69	68.18	-3,826.33	-9,317.78	9,756.13	9,697.67	58.46	166.895		
6,200.00	5,992.32	3,863.16	3,635.56	32.99	30.01	68.16	-3,839.45	-9,321.88	9,770.49	9,711.26	59.23	164.962		
6,300.00	6,088.52	3,925.00	3,691.33	33.54	30.62	68.12	-3,864.93	-9,329.93	9,785.36	9,725.08	60.28	162.344		
6,400.00	6,184.73	3,925.00	3,691.33	34.09	30.62	68.12	-3,864.93	-9,329.93	9,800.87	9,740.13	60.74	161.363		
6,500.00	6,280.93	3,965.16	3,727.26	34.64	31.04	68.09	-3,882.02	-9,335.36	9,817.00	9,755.41	61.59	159.390		
6,600.00	6,377.14	4,020.00	3,775.58	35.19	31.62	68.04	-3,906.72	-9,343.24	9,834.25	9,771.67	62.59	157.134		
6,700.00	6,473.34	4,020.00	3,775.58	35.74	31.62	68.04	-3,906.72	-9,343.24	9,851.79	9,788.76	63.03	156.300		
6,800.00	6,569.55	6,857.29	6,445.32	36.29	52.09	68.28	-4,661.92	-9,543.48	9,863.05	9,780.59	82.45	119.622		
6,900.00	6,665.75	6,914.33	6,502.34	36.84	52.25	63.67	-4,662.97	-9,544.02	9,853.96	9,770.73	83.23	118.396		
7,000.00	6,761.11	6,971.04	6,559.04	37.39	52.40	37.11	-4,664.16	-9,544.75	9,835.83	9,751.86	83.98	117.124		
7,100.00	6,853.41	7,037.00	6,624.97	37.89	52.59	20.60	-4,665.73	-9,545.84	9,803.63	9,718.94	84.69	115.764		
7,200.00	6,940.36	7,112.02	6,699.95	38.34	52.80	10.25	-4,667.52	-9,547.24	9,757.92	9,672.57	85.35	114.333		
7,300.00	7,019.83	7,198.66	6,786.56	38.74	53.05	2.65	-4,669.31	-9,548.90	9,699.57	9,613.61	85.96	112.841		
7,400.00	7,089.85	7,275.32	6,863.20	39.10	53.27	-4.24	-4,670.64	-9,550.40	9,630.01	9,543.55	86.46	111.381		
7,500.00	7,148.71	7,340.17	6,928.03	39.42	53.46	-11.99	-4,671.58	-9,551.69	9,550.98	9,464.13	86.84	109.979		
7,600.00	7,194.95	7,381.23	6,969.07	39.71	53.57	-22.54	-4,672.10	-9,552.55	9,464.47	9,377.40	87.07	108.699		
7,700.00	7,227.43	7,412.94	7,000.77	40.01	53.66	-39.09	-4,672.47	-9,553.23	9,372.64	9,285.45	87.19	107.496		
7,800.00	7,245.37	7,431.44	7,019.26	40.37	53.71	-64.70	-4,672.67	-9,553.64	9,277.77	9,190.57	87.20	106.392		
7,900.00	7,248.84	7,436.69	7,024.52	40.87	53.72	-86.40	-4,672.72	-9,553.76	9,182.18	9,095.05	87.13	105.383		
8,000.00	7,248.24	7,438.21	7,026.03	41.62	53.73	-86.43	-4,672.73	-9,553.79	9,086.79	8,999.74	87.05	104.382		
8,100.00	7,247.65	7,439.74	7,027.56	42.66	53.73	-86.47	-4,672.75	-9,553.83	8,991.50	8,904.51	87.00	103.355		
8,200.00	7,247.05	7,441.27	7,029.09	43.96	53.73	-86.50	-4,672.77	-9,553.86	8,896.32	8,809.36	86.96	102.302		
8,300.00	7,246.46	7,442.80	7,030.63	45.46	53.74	-86.53	-4,672.78	-9,553.90	8,801.24	8,714.29	86.95	101.221		
8,400.00	7,245.86	7,444.34	7,032.17	47.13	53.74	-86.56	-4,672.80	-9,553.93	8,706.28	8,619.31	86.97	100.112		
8,500.00	7,245.27	7,445.89	7,033.71	48.93	53.75	-86.59	-4,672.81	-9,553.97	8,611.42	8,524.42	87.01	98.974		
8,600.00	7,244.67	7,447.45	7,035.27	50.84	53.75	-86.63	-4,672.83	-9,554.00	8,516.69	8,429.61	87.08	97.807		
8,700.00	7,244.07	7,449.00	7,036.83	52.85	53.76	-86.66	-4,672.84	-9,554.04	8,422.07	8,334.89	87.18	96.610		
8,800.00	7,243.48	7,450.57	7,038.39	54.94	53.76	-86.69	-4,672.86	-9,554.07	8,327.58	8,240.27	87.31	95.383		
8,900.00	7,242.88	7,452.14	7,039.96	57.10	53.76	-86.72	-4,672.87	-9,554.11	8,233.22	8,145.75	87.47	94.126		
9,000.00	7,242.29	7,453.72	7,041.54	59.32	53.77	-86.76	-4,672.89	-9,554.14	8,139.00	8,051.33	87.67	92.838		
9,100.00	7,241.69	7,455.30	7,043.12	61.60	53.77	-86.79	-4,672.90	-9,554.18	8,044.91	7,957.01	87.90	91.520		
9,200.00	7,241.09	7,456.89	7,044.71	63.92	53.78	-86.82	-4,672.92	-9,554.22	7,950.97	7,862.79	88.18	90.172		
9,300.00	7,240.50	7,458.49	7,046.30	66.29	53.78	-86.86	-4,672.93	-9,554.25	7,857.18	7,768.69	88.49	88.794		
9,400.00	7,239.90	7,460.09	7,047.90	68.70	53.79	-86.89	-4,672.95	-9,554.29	7,763.54	7,674.70	88.84	87.387		
9,500.00	7,239.31	7,461.69	7,049.51	71.14	53.79	-86.92	-4,672.96	-9,554.33	7,670.06	7,580.82	89.24	85.953		
9,600.00	7,238.71	7,463.31	7,051.12	73.61	53.79	-86.96	-4,672.98	-9,554.36	7,576.75	7,487.07	89.68	84.491		
9,700.00	7,238.11	7,464.93	7,052.74	76.11	53.80	-86.99	-4,673.00	-9,554.40	7,483.61	7,393.45	90.16	83.004		
9,800.00	7,237.52	7,466.55	7,054.37	78.64	53.80	-87.02	-4,673.01	-9,554.44	7,390.65	7,299.96	90.69	81.492		
9,900.00	7,236.92	7,468.18	7,056.00	81.19	53.81	-87.06	-4,673.03	-9,554.47	7,297.87	7,206.60	91.27	79.957		
10,000.00	7,236.33	7,469.82	7,057.64	83.75	53.81	-87.09	-4,673.04	-9,554.51	7,205.29	7,113.39	91.90	78.401		
10,100.00	7,235.73	7,471.47	7,059.28	86.34	53.82	-87.13	-4,673.06	-9,554.55	7,112.91	7,020.32	92.59	76.825		
10,200.00	7,235.14	7,473.12	7,060.93	88.94	53.82	-87.16	-4,673.07	-9,554.59	7,020.74	6,927.42	93.32	75.232		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWDD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,300.00	7,234.54	7,474.78	7,062.59	91.56	53.83	-87.20	-4,673.09	-9,554.63	6,928.78	6,834.67	94.11	73.624		
10,400.00	7,233.94	7,476.44	7,064.25	94.19	53.83	-87.23	-4,673.10	-9,554.66	6,837.05	6,742.10	94.95	72.003		
10,500.00	7,233.35	7,478.11	7,065.92	96.84	53.84	-87.27	-4,673.12	-9,554.70	6,745.55	6,649.70	95.86	70.371		
10,600.00	7,232.75	7,479.79	7,067.60	99.50	53.84	-87.30	-4,673.13	-9,554.74	6,654.30	6,557.48	96.82	68.730		
10,700.00	7,232.16	7,481.47	7,069.28	102.17	53.84	-87.34	-4,673.14	-9,554.78	6,563.30	6,465.47	97.84	67.084		
10,800.00	7,231.56	7,483.16	7,070.97	104.85	53.85	-87.37	-4,673.16	-9,554.82	6,472.57	6,373.65	98.92	65.433		
10,900.00	7,230.96	7,484.86	7,072.67	107.53	53.85	-87.41	-4,673.17	-9,554.86	6,382.12	6,282.05	100.06	63.781		
11,000.00	7,230.37	7,486.56	7,074.37	110.23	53.86	-87.44	-4,673.19	-9,554.90	6,291.95	6,190.68	101.27	62.130		
11,100.00	7,229.77	7,488.27	7,076.08	112.93	53.86	-87.48	-4,673.20	-9,554.94	6,202.08	6,099.54	102.54	60.482		
11,200.00	7,229.18	7,489.99	7,077.79	115.65	53.87	-87.51	-4,673.22	-9,554.98	6,112.53	6,008.65	103.88	58.840		
11,300.00	7,228.58	7,491.71	7,079.52	118.37	53.87	-87.55	-4,673.23	-9,555.02	6,023.31	5,918.01	105.29	57.205		
11,400.00	7,227.99	7,493.44	7,081.25	121.09	53.88	-87.59	-4,673.25	-9,555.06	5,934.43	5,827.65	106.77	55.580		
11,500.00	7,227.39	7,495.18	7,082.98	123.82	53.88	-87.62	-4,673.26	-9,555.10	5,845.90	5,737.58	108.32	53.968		
11,600.00	7,226.79	7,496.92	7,084.73	126.56	53.89	-87.66	-4,673.28	-9,555.14	5,757.76	5,647.81	109.95	52.369		
11,700.00	7,226.20	7,498.67	7,086.48	129.30	53.89	-87.70	-4,673.29	-9,555.19	5,670.00	5,558.36	111.65	50.786		
11,800.00	7,225.60	7,500.43	7,088.23	132.05	53.90	-87.73	-4,673.31	-9,555.23	5,582.66	5,469.24	113.42	49.221		
11,900.00	7,225.01	7,502.19	7,090.00	134.80	53.90	-87.77	-4,673.32	-9,555.27	5,495.75	5,380.48	115.28	47.675		
12,000.00	7,224.41	7,503.96	7,091.77	137.56	53.91	-87.81	-4,673.33	-9,555.31	5,409.29	5,292.08	117.21	46.150		
12,100.00	7,223.81	7,505.74	7,093.55	140.32	53.91	-87.84	-4,673.35	-9,555.35	5,323.30	5,204.08	119.23	44.648		
12,200.00	7,223.22	7,507.53	7,095.33	143.08	53.92	-87.88	-4,673.36	-9,555.40	5,237.82	5,116.48	121.33	43.170		
12,300.00	7,222.62	7,509.32	7,097.13	145.85	53.92	-87.92	-4,673.38	-9,555.44	5,152.85	5,029.33	123.52	41.716		
12,400.00	7,222.03	7,511.12	7,098.93	148.62	53.93	-87.96	-4,673.39	-9,555.48	5,068.43	4,942.63	125.80	40.290		
12,500.00	7,221.43	7,512.93	7,100.73	151.40	53.93	-87.99	-4,673.40	-9,555.52	4,984.58	4,856.41	128.17	38.890		
12,600.00	7,220.83	7,514.75	7,102.55	154.18	53.94	-88.03	-4,673.42	-9,555.57	4,901.35	4,770.71	130.63	37.519		
12,700.00	7,220.24	7,516.57	7,104.37	156.96	53.94	-88.07	-4,673.43	-9,555.61	4,818.75	4,685.55	133.20	36.178		
12,800.00	7,219.64	7,518.40	7,106.20	159.74	53.95	-88.11	-4,673.45	-9,555.66	4,736.81	4,600.96	135.86	34.867		
12,900.00	7,219.05	7,520.24	7,108.04	162.53	53.95	-88.15	-4,673.46	-9,555.70	4,655.59	4,516.97	138.62	33.586		
13,000.00	7,218.45	7,522.08	7,109.88	165.32	53.96	-88.19	-4,673.47	-9,555.74	4,575.11	4,433.62	141.48	32.337		
13,100.00	7,217.86	7,523.93	7,111.73	168.11	53.96	-88.22	-4,673.49	-9,555.79	4,495.41	4,350.95	144.45	31.120		
13,200.00	7,217.26	7,525.79	7,113.59	170.90	53.97	-88.26	-4,673.50	-9,555.83	4,416.53	4,269.00	147.53	29.936		
13,300.00	7,216.66	7,527.66	7,115.46	173.70	53.97	-88.30	-4,673.52	-9,555.88	4,338.53	4,187.80	150.73	28.784		
13,400.00	7,216.07	7,529.54	7,117.33	176.49	53.98	-88.34	-4,673.53	-9,555.92	4,261.44	4,107.41	154.03	27.666		
13,500.00	7,215.47	7,531.42	7,119.21	179.29	53.98	-88.38	-4,673.54	-9,555.97	4,185.32	4,027.87	157.45	26.582		
13,600.00	7,214.88	7,533.31	7,121.11	182.09	53.99	-88.42	-4,673.56	-9,556.02	4,110.23	3,949.24	160.99	25.531		
13,700.00	7,214.28	7,535.21	7,123.00	184.90	53.99	-88.46	-4,673.57	-9,556.06	4,036.21	3,871.56	164.65	24.514		
13,800.00	7,213.68	7,537.12	7,124.91	187.70	54.00	-88.50	-4,673.58	-9,556.11	3,963.34	3,794.91	168.43	23.531		
13,900.00	7,213.09	7,539.03	7,126.82	190.51	54.00	-88.54	-4,673.60	-9,556.16	3,891.67	3,719.33	172.33	22.582		
14,000.00	7,212.49	7,540.95	7,128.74	193.32	54.01	-88.58	-4,673.61	-9,556.20	3,821.27	3,644.91	176.36	21.668		
14,100.00	7,211.90	7,542.88	7,130.67	196.13	54.01	-88.62	-4,673.62	-9,556.25	3,752.21	3,571.71	180.51	20.787		
14,200.00	7,211.30	7,544.82	7,132.61	198.94	54.02	-88.66	-4,673.64	-9,556.30	3,684.58	3,499.80	184.78	19.941		
14,300.00	7,210.71	7,546.77	7,134.56	201.75	54.02	-88.70	-4,673.65	-9,556.35	3,618.44	3,429.27	189.17	19.128		
14,400.00	7,210.11	7,548.72	7,136.51	204.56	54.03	-88.74	-4,673.66	-9,556.39	3,553.88	3,360.20	193.69	18.349		
14,500.00	7,209.51	7,550.69	7,138.48	207.38	54.03	-88.78	-4,673.67	-9,556.44	3,491.00	3,292.68	198.32	17.603		
14,600.00	7,208.92	7,552.66	7,140.45	210.19	54.04	-88.82	-4,673.69	-9,556.49	3,429.87	3,226.81	203.06	16.891		
14,700.00	7,208.32	7,554.64	7,142.43	213.01	54.04	-88.87	-4,673.70	-9,556.54	3,370.61	3,162.69	207.92	16.211		
14,800.00	7,207.73	7,556.63	7,144.41	215.83	54.05	-88.91	-4,673.71	-9,556.59	3,313.30	3,100.42	212.88	15.564		
14,900.00	7,207.13	7,558.62	7,146.41	218.65	54.06	-88.95	-4,673.73	-9,556.64	3,258.05	3,040.12	217.93	14.950		
15,000.00	7,206.53	7,560.63	7,148.41	221.47	54.06	-88.99	-4,673.74	-9,556.69	3,204.97	2,981.90	223.07	14.367		
15,100.00	7,205.94	7,562.64	7,150.43	224.29	54.07	-89.03	-4,673.75	-9,556.74	3,154.17	2,925.88	228.29	13.817		
15,200.00	7,205.34	7,564.66	7,152.45	227.11	54.07	-89.08	-4,673.76	-9,556.79	3,105.76	2,872.19	233.57	13.297		
15,258.04	7,205.00	7,565.84	7,153.62	228.75	54.08	-89.10	-4,673.77	-9,556.82	3,078.79	2,842.14	236.66	13.010 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	63.00	3.28	3.28	-128.88	-3,963.14	-4,914.70	6,313.85					
100.00	100.00	47.51	110.51	3.28	3.28	-128.88	-3,962.99	-4,914.77	6,313.51	6,306.94	6.57	961.482		
200.00	200.00	177.04	240.03	3.34	3.33	-128.86	-3,961.21	-4,915.54	6,313.11	6,306.44	6.67	947.156		
300.00	299.98	274.35	337.32	3.44	3.43	46.44	-3,959.33	-4,916.23	6,311.25	6,304.38	6.86	919.351		
400.00	399.84	372.19	435.14	3.59	3.57	46.55	-3,957.76	-4,916.79	6,307.08	6,299.92	7.16	881.063		
500.00	499.45	475.46	538.40	3.79	3.76	46.71	-3,956.31	-4,917.19	6,300.50	6,292.95	7.55	834.257		
600.00	598.70	592.30	655.23	4.03	4.03	46.95	-3,954.73	-4,917.34	6,291.40	6,283.34	8.06	780.372		
700.00	697.47	681.63	744.55	4.31	4.26	47.23	-3,953.59	-4,917.29	6,279.84	6,271.26	8.58	732.325		
800.00	795.62	780.70	843.61	4.64	4.54	47.57	-3,952.55	-4,917.19	6,266.05	6,256.88	9.17	683.128		
900.00	893.06	868.79	931.70	5.00	4.81	47.95	-3,951.63	-4,917.12	6,250.00	6,240.21	9.79	638.511		
1,000.00	989.65	958.43	1,021.34	5.40	5.10	48.37	-3,950.77	-4,917.17	6,231.87	6,221.41	10.46	596.044		
1,100.00	1,085.85	1,059.73	1,122.63	5.82	5.44	48.57	-3,949.79	-4,917.26	6,212.87	6,201.68	11.19	555.234		
1,200.00	1,182.06	1,153.26	1,216.16	6.27	5.76	48.76	-3,948.83	-4,917.27	6,193.84	6,181.91	11.93	519.245		
1,300.00	1,278.26	1,237.12	1,300.01	6.73	6.06	48.93	-3,948.00	-4,917.43	6,175.03	6,162.37	12.66	487.837		
1,400.00	1,374.47	1,320.94	1,383.83	7.20	6.37	49.10	-3,947.39	-4,917.64	6,156.49	6,143.09	13.41	459.225		
1,500.00	1,470.67	1,409.64	1,472.53	7.69	6.69	49.27	-3,947.00	-4,917.85	6,138.19	6,124.00	14.19	432.623		
1,600.00	1,566.88	1,515.32	1,578.21	8.18	7.09	49.49	-3,946.52	-4,918.04	6,119.90	6,104.86	15.05	406.721		
1,700.00	1,663.08	1,608.47	1,671.35	8.68	7.45	49.67	-3,946.22	-4,918.09	6,101.66	6,085.79	15.87	384.406		
1,800.00	1,759.29	1,710.68	1,773.57	9.19	7.85	49.88	-3,945.88	-4,918.11	6,083.46	6,066.71	16.74	363.330		
1,900.00	1,855.49	1,800.06	1,862.94	9.70	8.20	50.06	-3,945.61	-4,918.12	6,065.34	6,047.77	17.58	345.099		
2,000.00	1,951.70	1,873.98	1,936.87	10.22	8.49	50.21	-3,945.53	-4,918.23	6,047.52	6,029.16	18.36	329.448		
2,100.00	2,047.90	1,955.57	2,018.46	10.73	8.81	50.38	-3,945.61	-4,918.57	6,030.08	6,010.91	19.17	314.522		
2,200.00	2,144.11	2,044.73	2,107.61	11.26	9.16	50.56	-3,945.76	-4,919.08	6,012.88	5,992.86	20.02	300.308		
2,300.00	2,240.31	2,138.65	2,201.53	11.78	9.54	50.75	-3,946.04	-4,919.62	5,995.82	5,974.92	20.90	286.932		
2,400.00	2,336.52	2,231.28	2,294.16	12.31	9.91	50.95	-3,946.22	-4,920.24	5,978.86	5,957.09	21.77	274.629		
2,500.00	2,432.72	2,321.41	2,384.29	12.84	10.27	51.13	-3,946.40	-4,920.97	5,962.08	5,939.44	22.64	263.340		
2,600.00	2,528.93	2,418.55	2,481.42	13.37	10.67	51.34	-3,946.55	-4,921.81	5,945.40	5,921.86	23.54	252.557		
2,700.00	2,625.13	2,508.77	2,571.64	13.91	11.03	51.53	-3,946.74	-4,922.61	5,928.85	5,904.43	24.42	242.799		
2,800.00	2,721.34	2,597.34	2,660.20	14.44	11.40	51.72	-3,946.86	-4,923.57	5,912.48	5,887.19	25.29	233.751		
2,900.00	2,817.54	2,679.14	2,742.00	14.98	11.73	51.90	-3,946.94	-4,924.66	5,896.38	5,870.23	26.15	225.514		
3,000.00	2,913.75	2,765.85	2,828.69	15.52	12.09	52.09	-3,947.17	-4,925.94	5,880.56	5,853.54	27.02	217.634		
3,100.00	3,009.95	2,855.48	2,918.31	16.06	12.46	52.28	-3,947.56	-4,927.31	5,864.95	5,837.04	27.91	210.150		
3,200.00	3,106.16	2,945.14	3,007.97	16.60	12.83	52.48	-3,948.16	-4,928.66	5,849.53	5,820.73	28.80	203.115		
3,300.00	3,202.37	3,041.68	3,104.49	17.14	13.23	52.69	-3,948.80	-4,930.22	5,834.28	5,804.56	29.72	196.317		
3,400.00	3,298.57	3,138.00	3,201.17	17.68	13.63	52.90	-3,949.49	-4,931.82	5,818.64	5,786.93	31.72	183.451		
3,500.00	3,394.78	3,234.19	3,297.77	18.22	14.03	53.11	-3,949.76	-4,932.53	5,802.49	5,770.70	31.78	182.558		
3,600.00	3,490.98	3,330.38	3,393.95	18.76	14.43	53.32	-3,949.85	-4,933.23	5,786.37	5,753.59	32.77	176.550		
3,700.00	3,587.19	3,426.57	3,490.12	19.31	14.83	53.53	-3,949.95	-4,933.66	5,770.24	5,736.57	33.67	171.364		
3,800.00	3,683.39	3,522.76	3,586.30	19.85	15.23	53.74	-3,950.14	-4,934.16	5,754.41	5,719.88	34.52	166.683		
3,900.00	3,779.60	3,618.95	3,682.49	20.39	15.63	53.95	-3,950.30	-4,935.01	5,739.01	5,703.63	35.38	162.229		
4,000.00	3,875.80	3,715.14	3,778.68	20.94	16.03	54.16	-3,950.48	-4,936.21	5,724.02	5,687.77	36.24	157.928		
4,100.00	3,972.01	3,811.33	3,876.11	21.48	16.43	54.37	-3,950.77	-4,937.67	5,709.31	5,672.17	37.14	153.712		
4,200.00	4,068.21	3,907.52	3,961.84	22.03	16.83	54.58	-3,951.32	-4,939.17	5,694.83	5,656.78	38.05	149.657		
4,300.00	4,164.42	3,997.71	4,053.47	22.57	17.23	54.79	-3,951.98	-4,940.40	5,680.74	5,641.86	38.88	146.117		
4,400.00	4,260.62	4,093.90	4,145.10	23.12	17.63	54.99	-3,952.96	-4,941.94	5,667.20	5,627.48	39.72	142.676		
4,500.00	4,356.83	4,189.09	4,236.73	23.67	18.03	55.20	-3,954.35	-4,943.64	5,654.13	5,613.55	40.57	139.361		
4,600.00	4,453.03	4,284.28	4,328.36	24.21	18.43	55.41	-3,955.98	-4,945.45	5,641.56	5,600.15	41.41	136.229		
4,700.00	4,549.24	4,379.47	4,419.99	24.76	18.83	55.62	-3,958.89	-4,948.76	5,629.11	5,586.63	42.48	132.517		
4,800.00	4,645.44	4,474.66	4,511.60	25.31	19.23	55.83	-3,960.68	-4,951.36	5,616.33	5,572.88	43.46	129.238		
4,900.00	4,741.65	4,569.85	4,603.21	25.86	19.63	56.04	-3,962.09	-4,954.27	5,603.48	5,559.00	44.48	125.986		
5,000.00	4,837.85	4,665.04	4,694.82	26.40	20.03	56.25	-3,963.40	-4,956.94	5,589.99	5,544.39	45.60	122.581		
5,100.00	4,934.06	4,760.23	4,786.41	26.95	20.43	56.46	-3,964.19	-4,958.57	5,575.96	5,529.29	46.67	119.468		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,200.00	5,030.26	4,900.00	4,962.41	27.50	21.03	56.92	-3,964.76	-4,959.47	5,561.82	5,514.23	47.59	116.860		
5,300.00	5,126.47	5,003.08	5,065.49	28.05	21.47	57.16	-3,965.21	-4,960.59	5,547.75	5,499.18	48.57	114.230		
5,400.00	5,222.67	5,113.15	5,175.55	28.60	21.93	57.43	-3,965.33	-4,961.75	5,533.59	5,484.03	49.57	111.642		
5,500.00	5,318.88	5,204.22	5,266.61	29.15	22.32	57.66	-3,965.07	-4,962.85	5,519.49	5,468.99	50.50	109.307		
5,600.00	5,415.08	5,309.42	5,371.80	29.70	22.77	57.93	-3,964.50	-4,964.19	5,505.42	5,453.94	51.48	106.947		
5,700.00	5,511.29	5,384.35	5,446.73	30.25	23.09	58.12	-3,964.25	-4,965.19	5,491.59	5,439.24	52.35	104.903		
5,800.00	5,607.49	5,515.19	5,577.56	30.79	23.64	58.45	-3,963.81	-4,966.80	5,477.81	5,424.38	53.43	102.526		
5,900.00	5,703.70	5,582.58	5,644.94	31.34	23.93	58.62	-3,963.72	-4,967.54	5,464.06	5,409.79	54.27	100.675		
6,000.00	5,799.90	5,661.66	5,724.01	31.89	24.26	58.82	-3,963.95	-4,968.53	5,450.75	5,395.59	55.16	98.811		
6,100.00	5,896.11	5,751.26	5,813.60	32.44	24.64	59.04	-3,964.23	-4,969.90	5,437.79	5,381.70	56.09	96.942		
6,200.00	5,992.32	5,837.42	5,899.75	32.99	25.01	59.26	-3,964.63	-4,971.19	5,424.99	5,367.98	57.01	95.158		
6,300.00	6,088.52	5,914.79	5,977.11	33.54	25.34	59.46	-3,964.84	-4,972.74	5,412.62	5,354.73	57.90	93.490		
6,400.00	6,184.73	6,010.75	6,073.04	34.09	25.75	59.71	-3,964.91	-4,974.94	5,400.53	5,341.68	58.85	91.766		
6,500.00	6,280.93	6,117.40	6,179.67	34.64	26.20	59.99	-3,965.11	-4,977.11	5,388.37	5,328.52	59.85	90.034		
6,600.00	6,377.14	6,191.32	6,253.57	35.19	26.51	60.18	-3,965.10	-4,978.83	5,376.50	5,315.78	60.72	88.543		
6,700.00	6,473.34	6,273.62	6,335.84	35.74	26.87	60.40	-3,965.11	-4,981.05	5,365.07	5,303.44	61.63	87.055		
6,800.00	6,569.55	6,369.59	6,431.78	36.29	27.27	60.65	-3,965.53	-4,983.61	5,353.91	5,291.32	62.59	85.543		
6,900.00	6,665.75	6,465.17	6,527.31	36.84	27.68	60.90	-3,965.56	-4,986.31	5,342.66	5,279.11	63.55	84.076		
7,000.00	6,761.95	6,559.58	6,621.69	37.39	28.08	61.15	-3,965.76	-4,989.33	5,332.55	5,268.08	64.48	82.552		
7,100.00	6,858.15	6,653.97	6,716.05	37.94	28.42	61.40	-3,966.30	-4,991.03	5,288.87	5,223.58	65.29	81.004		
7,200.00	6,954.35	6,750.01	6,810.06	38.49	28.82	61.65	-3,966.54	-4,992.99	5,242.66	5,176.69	66.09	79.467		
7,300.00	7,050.55	6,846.21	6,904.07	39.04	29.22	61.90	-3,966.55	-4,995.43	5,185.02	5,118.43	66.80	77.858		
7,400.00	7,146.75	6,942.41	6,998.08	39.59	29.62	62.15	-3,966.40	-4,997.77	5,117.29	5,050.19	67.51	76.261		
7,500.00	7,242.95	7,038.61	7,092.09	40.14	29.96	62.40	-3,966.33	-4,999.91	5,041.08	4,973.58	68.22	74.683		
7,600.00	7,339.15	7,134.81	7,186.09	40.69	30.30	62.65	-3,966.37	-5,001.96	4,958.21	4,890.40	68.93	73.125		
7,700.00	7,435.35	7,231.01	7,280.09	41.24	30.64	62.90	-3,966.43	-5,002.97	4,870.73	4,802.76	69.64	71.667		
7,800.00	7,531.55	7,327.21	7,374.09	41.79	30.98	63.15	-3,966.49	-5,003.75	4,780.83	4,712.77	70.35	70.250		
7,900.00	7,627.75	7,423.41	7,468.09	42.34	31.32	63.40	-3,966.51	-5,004.06	4,690.73	4,622.64	71.06	68.892		
8,000.00	7,723.95	7,519.61	7,563.09	42.89	31.66	63.65	-3,966.53	-5,004.24	4,601.19	4,533.04	71.77	67.516		
8,100.00	7,820.15	7,615.81	7,657.09	43.44	31.99	63.90	-3,966.55	-5,004.42	4,512.10	4,443.83	72.48	66.091		
8,200.00	7,916.35	7,712.01	7,756.09	43.99	32.33	64.15	-3,966.57	-5,004.60	4,423.46	4,355.01	73.19	64.617		
8,300.00	8,012.55	7,808.21	7,852.09	44.54	32.67	64.40	-3,966.59	-5,004.79	4,335.32	4,266.60	73.90	63.091		
8,400.00	8,108.75	7,904.41	7,948.09	45.09	33.01	64.65	-3,966.61	-5,004.98	4,247.70	4,178.64	74.61	61.514		
8,500.00	8,204.95	7,999.61	8,042.09	45.64	33.35	64.90	-3,966.63	-5,005.18	4,160.63	4,091.15	75.32	59.886		
8,600.00	8,301.15	8,095.81	8,136.09	46.19	33.69	65.15	-3,966.66	-5,005.38	4,074.15	4,004.16	76.03	58.208		
8,700.00	8,397.35	8,192.01	8,230.09	46.74	34.03	65.40	-3,966.68	-5,005.58	3,988.30	3,917.69	76.74	56.482		
8,800.00	8,493.55	8,288.21	8,324.09	47.29	34.37	65.65	-3,966.71	-5,005.79	3,903.12	3,831.78	77.45	54.712		
8,900.00	8,589.75	8,384.41	8,418.09	47.84	34.71	65.90	-3,966.74	-5,006.00	3,818.65	3,746.47	78.16	52.903		
9,000.00	8,685.95	8,480.61	8,512.09	48.39	35.05	66.15	-3,966.77	-5,006.21	3,734.94	3,661.79	78.87	51.059		
9,100.00	8,782.15	8,576.81	8,606.09	48.94	35.39	66.40	-3,966.80	-5,006.44	3,652.05	3,577.80	79.58	49.187		
9,200.00	8,878.35	8,673.01	8,700.09	49.49	35.73	66.65	-3,966.83	-5,006.66	3,570.03	3,494.54	80.29	47.295		
9,300.00	8,974.55	8,769.21	8,794.09	50.04	36.07	66.90	-3,966.86	-5,006.89	3,488.94	3,412.07	81.00	45.390		
9,400.00	9,070.75	8,865.41	8,888.09	50.59	36.41	67.15	-3,966.90	-5,007.13	3,408.85	3,330.45	81.71	43.482		
9,500.00	9,166.95	8,961.61	8,982.09	51.14	36.75	67.40	-3,967.00	-5,007.72	3,329.84	3,249.74	82.42	41.573		
9,600.00	9,263.15	9,057.81	9,076.09	51.69	37.09	67.65	-3,967.00	-5,007.72	3,251.96	3,170.02	83.13	39.688		
9,700.00	9,359.35	9,154.01	9,170.09	52.24	37.43	67.90	-3,967.03	-5,007.90	3,175.32	3,091.37	83.84	37.823		
9,800.00	9,455.55	9,250.21	9,266.09	52.79	37.77	68.15	-3,967.08	-5,008.22	3,100.00	3,013.86	84.55	35.987		
9,900.00	9,551.75	9,346.41	9,362.09	53.34	38.11	68.40	-3,967.14	-5,008.55	3,026.11	2,937.60	85.26	34.191		
10,000.00	9,647.95	9,442.61	9,458.09	53.89	38.45	68.65	-3,967.19	-5,008.87	2,953.74	2,862.69	85.97	32.441		
10,100.00	9,744.15	9,538.81	9,554.09	54.44	38.79	68.90	-3,967.25	-5,009.19	2,883.01	2,789.24	86.68	30.746		
10,200.00	9,840.35	9,635.01	9,650.09	54.99	39.13	69.15	-3,967.31	-5,009.51	2,814.05	2,717.38	87.39	29.110		
10,300.00	9,936.55	9,731.21	9,746.09	55.54	39.47	69.40	-3,967.37	-5,009.84	2,746.99	2,647.24	88.10	27.538		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,400.00	7,233.94	7,038.64	7,100.23	94.19	30.13	-86.57	-3,967.44	-5,010.16	2,681.97	2,578.96	103.01	26.036		
10,500.00	7,233.35	7,043.77	7,105.35	96.84	30.15	-86.71	-3,967.50	-5,010.49	2,619.14	2,512.70	106.44	24.606		
10,600.00	7,232.75	7,048.90	7,110.47	99.50	30.17	-86.85	-3,967.57	-5,010.81	2,558.67	2,448.62	110.05	23.251		
10,700.00	7,232.16	7,054.03	7,115.59	102.17	30.19	-86.99	-3,967.63	-5,011.14	2,500.73	2,386.92	113.81	21.973		
10,800.00	7,231.56	7,059.17	7,120.72	104.85	30.21	-87.14	-3,967.70	-5,011.46	2,445.49	2,327.77	117.72	20.774		
10,900.00	7,230.96	7,064.31	7,125.85	107.53	30.24	-87.28	-3,967.77	-5,011.79	2,393.14	2,271.38	121.76	19.654		
11,000.00	7,230.37	7,069.46	7,130.99	110.23	30.26	-87.42	-3,967.84	-5,012.11	2,343.88	2,217.96	125.92	18.614		
11,100.00	7,229.77	7,074.62	7,136.13	112.93	30.28	-87.56	-3,967.92	-5,012.44	2,297.91	2,167.73	130.18	17.652		
11,200.00	7,229.18	7,079.77	7,141.28	115.65	30.30	-87.71	-3,967.99	-5,012.77	2,255.42	2,120.92	134.50	16.769		
11,300.00	7,228.58	7,084.94	7,146.43	118.37	30.32	-87.85	-3,968.07	-5,013.10	2,216.62	2,077.76	138.86	15.963		
11,400.00	7,227.99	7,090.10	7,151.59	121.09	30.35	-87.99	-3,968.15	-5,013.42	2,181.70	2,038.48	143.22	15.233		
11,500.00	7,227.39	7,095.27	7,156.75	123.82	30.37	-88.14	-3,968.23	-5,013.75	2,150.85	2,003.30	147.55	14.577		
11,600.00	7,226.79	7,100.50	7,161.96	126.56	30.39	-88.28	-3,968.31	-5,014.08	2,124.26	1,972.44	151.82	13.992		
11,700.00	7,226.20	7,106.27	7,167.72	129.30	30.42	-88.44	-3,968.40	-5,014.45	2,102.07	1,946.11	155.96	13.478		
11,800.00	7,225.60	7,112.04	7,173.48	132.05	30.44	-88.60	-3,968.49	-5,014.82	2,084.44	1,924.48	159.96	13.031		
11,900.00	7,225.01	7,117.81	7,179.24	134.80	30.46	-88.76	-3,968.58	-5,015.18	2,071.47	1,907.71	163.76	12.650		
12,000.00	7,224.41	7,123.58	7,184.99	137.56	30.49	-88.92	-3,968.67	-5,015.55	2,063.25	1,895.93	167.33	12.331		
12,100.00	7,223.81	7,129.35	7,190.75	140.32	30.51	-89.08	-3,968.76	-5,015.92	2,059.85	1,889.22	170.63	12.072		
12,120.39	7,223.69	7,130.53	7,191.92	140.88	30.52	-89.12	-3,968.78	-5,015.99	2,059.75	1,888.48	171.27	12.026 CC		
12,200.00	7,223.22	7,135.12	7,196.51	143.08	30.54	-89.24	-3,968.86	-5,016.28	2,061.28	1,887.64	173.64	11.871 ES		
12,300.00	7,222.62	7,140.89	7,202.26	145.85	30.56	-89.40	-3,968.95	-5,016.65	2,067.54	1,891.20	176.34	11.725		
12,400.00	7,222.03	7,146.65	7,208.02	148.62	30.59	-89.56	-3,969.04	-5,017.02	2,078.58	1,899.87	178.71	11.631		
12,500.00	7,221.43	7,152.42	7,213.77	151.40	30.61	-89.72	-3,969.13	-5,017.38	2,094.33	1,913.59	180.74	11.588 SF		
12,600.00	7,220.83	7,158.19	7,219.53	154.18	30.64	-89.88	-3,969.22	-5,017.75	2,114.67	1,932.24	182.43	11.591		
12,700.00	7,220.24	7,163.96	7,225.28	156.96	30.66	-90.04	-3,969.31	-5,018.12	2,139.49	1,955.69	183.80	11.640		
12,800.00	7,219.64	7,169.72	7,231.04	159.74	30.69	-90.20	-3,969.40	-5,018.48	2,168.62	1,983.77	184.85	11.732		
12,900.00	7,219.05	7,175.49	7,236.79	162.53	30.71	-90.36	-3,969.49	-5,018.85	2,201.90	2,016.29	185.61	11.863		
13,000.00	7,218.45	7,181.26	7,242.55	165.32	30.74	-90.52	-3,969.58	-5,019.21	2,239.13	2,053.05	186.08	12.033		
13,100.00	7,217.86	7,187.02	7,248.30	168.11	30.76	-90.68	-3,969.67	-5,019.58	2,280.14	2,093.83	186.31	12.239		
13,200.00	7,217.26	7,192.79	7,254.05	170.90	30.79	-90.84	-3,969.76	-5,019.95	2,324.71	2,138.41	186.30	12.478		
13,300.00	7,216.66	7,198.55	7,259.81	173.70	30.81	-91.00	-3,969.86	-5,020.31	2,372.64	2,186.55	186.09	12.750		
13,400.00	7,216.07	7,204.32	7,265.56	176.49	30.84	-91.16	-3,969.95	-5,020.68	2,423.74	2,238.04	185.70	13.052		
13,500.00	7,215.47	7,210.08	7,271.31	179.29	30.86	-91.32	-3,970.04	-5,021.05	2,477.82	2,292.66	185.16	13.382		
13,600.00	7,214.88	7,215.85	7,277.06	182.09	30.89	-91.48	-3,970.13	-5,021.41	2,534.67	2,350.18	184.49	13.739		
13,700.00	7,214.28	7,221.61	7,282.81	184.90	30.91	-91.64	-3,970.22	-5,021.78	2,594.12	2,410.42	183.70	14.121		
13,800.00	7,213.68	7,227.37	7,288.57	187.70	30.94	-91.80	-3,970.31	-5,022.14	2,655.99	2,473.16	182.83	14.527		
13,900.00	7,213.09	7,233.14	7,294.32	190.51	30.96	-91.96	-3,970.40	-5,022.51	2,720.12	2,538.24	181.88	14.955		
14,000.00	7,212.49	7,238.90	7,300.07	193.32	30.99	-92.12	-3,970.49	-5,022.88	2,786.36	2,605.48	180.88	15.405		
14,100.00	7,211.90	7,244.66	7,305.82	196.13	31.01	-92.28	-3,970.58	-5,023.24	2,854.54	2,674.72	179.83	15.874		
14,200.00	7,211.30	7,250.42	7,311.57	198.94	31.04	-92.44	-3,970.67	-5,023.61	2,924.55	2,745.80	178.74	16.362		
14,300.00	7,210.71	7,256.19	7,317.32	201.75	31.06	-92.60	-3,970.76	-5,023.97	2,996.25	2,818.61	177.64	16.867		
14,400.00	7,210.11	7,261.95	7,323.07	204.56	31.09	-92.76	-3,970.85	-5,024.34	3,069.52	2,892.99	176.52	17.389		
14,500.00	7,209.51	7,267.71	7,328.81	207.38	31.11	-92.92	-3,970.95	-5,024.71	3,144.25	2,968.85	175.40	17.926		
14,600.00	7,208.92	7,273.47	7,334.56	210.19	31.14	-93.08	-3,971.04	-5,025.07	3,220.34	3,046.07	174.28	18.478		
14,700.00	7,208.32	7,279.23	7,340.31	213.01	31.16	-93.24	-3,971.13	-5,025.44	3,297.71	3,124.55	173.16	19.044		
14,800.00	7,207.73	7,284.99	7,346.06	215.83	31.18	-93.40	-3,971.22	-5,025.80	3,376.25	3,204.19	172.05	19.624		
14,900.00	7,207.13	7,290.75	7,351.81	218.65	31.21	-93.56	-3,971.31	-5,026.17	3,455.89	3,284.93	170.96	20.215		
15,000.00	7,206.53	7,296.51	7,357.55	221.47	31.23	-93.72	-3,971.40	-5,026.53	3,536.55	3,366.67	169.88	20.818		
15,100.00	7,205.94	7,302.27	7,363.30	224.29	31.26	-93.87	-3,971.49	-5,026.90	3,618.17	3,449.35	168.82	21.432		
15,200.00	7,205.34	7,308.03	7,369.05	227.11	31.28	-94.03	-3,971.58	-5,027.27	3,700.69	3,532.90	167.78	22.056		
15,258.04	7,205.00	7,311.37	7,372.38	228.75	31.30	-94.13	-3,971.63	-5,027.48	3,748.97	3,581.77	167.19	22.423		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	72.00	3.28	3.28	-147.13	-5,093.43	-3,291.64	6,064.91					
100.00	100.00	89.79	136.79	3.28	3.28	-147.13	-5,093.28	-3,291.51	6,064.39	6,057.83	6.57	923.329		
200.00	200.00	191.79	238.79	3.34	3.33	-147.13	-5,092.52	-3,291.32	6,063.67	6,057.00	6.67	909.718		
300.00	299.98	263.31	310.31	3.44	3.39	28.15	-5,092.02	-3,291.54	6,061.71	6,054.87	6.83	887.102		
400.00	399.84	354.11	401.10	3.59	3.51	28.22	-5,091.92	-3,291.66	6,057.07	6,049.97	7.10	852.575		
500.00	499.45	1,494.49	1,527.81	3.79	7.62	29.85	-4,948.57	-3,322.98	6,035.30	6,023.99	11.31	533.465		
600.00	598.70	1,552.33	1,584.14	4.03	7.93	30.26	-4,935.60	-3,325.12	6,008.23	5,996.42	11.81	508.873		
700.00	697.47	1,635.38	1,665.02	4.31	8.38	30.77	-4,917.10	-3,328.58	5,978.70	5,966.23	12.47	479.546		
800.00	795.62	1,700.00	1,727.95	4.64	8.74	31.29	-4,902.73	-3,331.63	5,946.71	5,933.64	13.08	454.804		
900.00	893.06	1,810.81	1,835.90	5.00	9.36	32.00	-4,878.30	-3,337.01	5,912.29	5,898.34	13.95	423.813		
1,000.00	989.65	1,900.91	1,921.81	5.40	9.88	32.68	-4,858.41	-3,341.33	5,874.85	5,860.09	14.76	398.000		
1,100.00	1,085.85	1,986.69	2,007.04	5.82	10.38	32.97	-4,838.67	-3,345.61	5,836.40	5,820.84	15.56	375.196		
1,200.00	1,182.06	2,074.29	2,092.28	6.27	10.89	33.27	-4,818.93	-3,349.89	5,798.09	5,781.71	16.38	353.869		
1,300.00	1,278.26	2,161.88	2,177.51	6.73	11.41	33.57	-4,799.19	-3,354.17	5,759.94	5,742.70	17.24	334.186		
1,400.00	1,374.47	2,254.53	2,262.75	7.20	11.96	33.87	-4,779.45	-3,358.45	5,721.93	5,703.80	18.13	315.563		
1,500.00	1,470.67	2,337.07	2,347.98	7.69	12.46	34.18	-4,759.71	-3,362.73	5,684.08	5,665.09	18.99	299.300		
1,600.00	1,566.88	2,424.67	2,433.22	8.18	12.99	34.49	-4,739.98	-3,367.01	5,646.39	5,626.50	19.89	283.859		
1,700.00	1,663.08	2,512.26	2,518.45	8.68	13.52	34.80	-4,720.24	-3,371.29	5,608.87	5,588.06	20.80	269.598		
1,800.00	1,759.29	2,600.14	2,603.69	9.19	14.05	35.12	-4,700.50	-3,375.57	5,571.50	5,549.77	21.73	256.391		
1,900.00	1,855.49	2,687.46	2,688.93	9.70	14.59	35.45	-4,680.76	-3,379.85	5,534.31	5,511.64	22.66	244.193		
2,000.00	1,951.70	2,775.05	2,774.16	10.22	15.12	35.77	-4,661.02	-3,384.13	5,497.28	5,473.68	23.61	232.859		
2,100.00	2,047.90	2,862.65	2,859.40	10.73	15.66	36.10	-4,641.28	-3,388.41	5,460.43	5,435.87	24.56	222.325		
2,200.00	2,144.11	2,950.24	2,944.63	11.26	16.20	36.44	-4,621.54	-3,392.69	5,423.76	5,398.24	25.52	212.519		
2,300.00	2,240.31	3,037.84	3,029.87	11.78	16.74	36.77	-4,601.80	-3,396.97	5,387.28	5,360.79	26.49	203.373		
2,400.00	2,336.52	3,125.43	3,115.10	12.31	17.29	37.12	-4,582.07	-3,401.25	5,350.98	5,323.51	27.46	194.829		
2,500.00	2,432.72	3,213.03	3,200.34	12.84	17.83	37.46	-4,562.33	-3,405.53	5,314.86	5,286.42	28.45	186.834		
2,600.00	2,528.93	3,300.63	3,285.57	13.37	18.38	37.81	-4,542.59	-3,409.81	5,278.95	5,249.51	29.44	179.341		
2,700.00	2,625.13	3,388.22	3,370.81	13.91	18.92	38.17	-4,522.85	-3,414.09	5,243.23	5,212.80	30.43	172.306		
2,800.00	2,721.34	3,475.82	3,456.04	14.44	19.47	38.52	-4,503.11	-3,418.37	5,207.71	5,176.28	31.43	165.691		
2,900.00	2,817.54	3,563.41	3,541.28	14.98	20.01	38.89	-4,483.37	-3,422.65	5,172.40	5,139.96	32.44	159.464		
3,000.00	2,913.75	3,651.01	3,626.51	15.52	20.56	39.26	-4,463.63	-3,426.93	5,137.30	5,103.85	33.45	153.592		
3,100.00	3,009.95	3,738.60	3,711.75	16.06	21.11	39.63	-4,443.89	-3,431.21	5,102.41	5,067.94	34.46	148.047		
3,200.00	3,106.16	10,702.64	7,244.58	16.60	120.28	-11.09	-3,612.23	23.56	5,056.00	4,969.88	86.12	58.710		
3,300.00	3,202.37	10,698.59	7,244.65	17.14	120.15	-10.95	-3,612.25	19.52	4,961.78	4,875.03	86.75	57.194		
3,400.00	3,298.57	10,694.55	7,244.72	17.68	120.03	-10.81	-3,612.26	15.48	4,867.79	4,780.37	87.42	55.682		
3,500.00	3,394.78	10,690.51	7,244.79	18.22	119.90	-10.67	-3,612.27	11.43	4,774.05	4,685.92	88.12	54.175		
3,600.00	3,490.98	10,686.46	7,244.86	18.76	119.77	-10.54	-3,612.29	7.39	4,680.56	4,591.70	88.86	52.674		
3,700.00	3,587.19	10,682.42	7,244.93	19.31	119.64	-10.40	-3,612.30	3.35	4,587.34	4,497.70	89.63	51.180		
3,800.00	3,683.39	10,678.37	7,245.00	19.85	119.51	-10.26	-3,612.32	-0.70	4,494.40	4,403.96	90.44	49.694		
3,900.00	3,779.60	10,674.33	7,245.08	20.39	119.39	-10.12	-3,612.33	-4.74	4,401.78	4,310.49	91.29	48.217		
4,000.00	3,875.80	10,670.28	7,245.15	20.94	119.26	-9.99	-3,612.34	-8.79	4,309.48	4,217.30	92.18	46.751		
4,100.00	3,972.01	10,666.24	7,245.22	21.48	119.13	-9.85	-3,612.36	-12.83	4,217.52	4,124.42	93.11	45.297		
4,200.00	4,068.21	10,662.19	7,245.29	22.03	119.00	-9.71	-3,612.37	-16.87	4,125.94	4,031.86	94.08	43.855		
4,300.00	4,164.42	10,658.15	7,245.36	22.57	118.87	-9.57	-3,612.38	-20.92	4,034.76	3,939.66	95.10	42.426		
4,400.00	4,260.62	10,654.11	7,245.43	23.12	118.75	-9.44	-3,612.40	-24.96	3,943.99	3,847.83	96.16	41.013		
4,500.00	4,356.83	10,653.98	7,245.50	23.67	118.74	-9.30	-3,612.41	-29.00	3,853.68	3,756.32	97.36	39.581		
4,600.00	4,453.03	10,646.02	7,245.57	24.21	118.49	-9.16	-3,612.42	-33.05	3,763.86	3,665.42	98.44	38.236		
4,700.00	4,549.24	10,641.97	7,245.65	24.76	118.36	-9.02	-3,612.44	-37.09	3,674.55	3,574.90	99.65	36.873		
4,800.00	4,645.44	10,637.93	7,245.72	25.31	118.23	-8.89	-3,612.45	-41.13	3,585.81	3,484.89	100.92	35.531		
4,900.00	4,741.65	10,633.88	7,245.79	25.86	118.11	-8.75	-3,612.46	-45.18	3,497.67	3,395.42	102.25	34.208		
5,000.00	4,837.85	10,629.84	7,245.86	26.40	117.98	-8.61	-3,612.48	-49.22	3,410.18	3,306.55	103.63	32.908		
5,100.00	4,934.06	10,625.80	7,245.93	26.95	117.85	-8.47	-3,612.49	-53.27	3,323.38	3,218.31	105.07	31.630		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,030.26	10,621.75	7,246.00	27.50	117.72	-8.33	-3,612.50	-57.31	3,237.35	3,130.78	106.58	30.376		
5,300.00	5,126.47	10,617.71	7,246.07	28.05	117.59	-8.19	-3,612.52	-61.35	3,152.14	3,043.99	108.14	29.148		
5,400.00	5,222.67	10,613.66	7,246.14	28.60	117.47	-8.06	-3,612.53	-65.40	3,067.81	2,958.03	109.78	27.946		
5,500.00	5,318.88	10,609.62	7,246.21	29.15	117.34	-7.92	-3,612.54	-69.44	2,984.45	2,872.97	111.48	26.772		
5,600.00	5,415.08	10,605.57	7,246.29	29.70	117.21	-7.78	-3,612.56	-73.48	2,902.13	2,788.88	113.24	25.627		
5,700.00	5,511.29	10,601.53	7,246.36	30.25	117.08	-7.64	-3,612.57	-77.53	2,820.95	2,705.87	115.08	24.513		
5,800.00	5,607.49	10,602.51	7,246.43	30.79	117.11	-7.50	-3,612.59	-81.57	2,741.00	2,623.89	117.11	23.405		
5,900.00	5,703.70	10,593.44	7,246.50	31.34	116.83	-7.36	-3,612.60	-85.61	2,662.41	2,543.46	118.95	22.382		
6,000.00	5,799.90	10,589.40	7,246.57	31.89	116.70	-7.23	-3,612.61	-89.66	2,585.29	2,464.31	120.98	21.369		
6,100.00	5,896.11	10,585.35	7,246.64	32.44	116.57	-7.09	-3,612.63	-93.70	2,509.78	2,386.70	123.08	20.392		
6,200.00	5,992.32	10,581.31	7,246.71	32.99	116.44	-6.95	-3,612.64	-97.75	2,436.02	2,310.80	125.22	19.454		
6,300.00	6,088.52	10,577.26	7,246.78	33.54	116.32	-6.81	-3,612.65	-101.79	2,364.19	2,236.78	127.41	18.555		
6,400.00	6,184.73	10,573.22	7,246.85	34.09	116.19	-6.67	-3,612.67	-105.83	2,294.47	2,164.83	129.64	17.699		
6,500.00	6,280.93	10,569.18	7,246.93	34.64	116.06	-6.53	-3,612.68	-109.88	2,227.04	2,095.16	131.88	16.886		
6,600.00	6,377.14	10,565.13	7,247.00	35.19	115.93	-6.39	-3,612.69	-113.92	2,162.13	2,028.00	134.13	16.119		
6,700.00	6,473.34	10,561.09	7,247.07	35.74	115.81	-6.26	-3,612.71	-117.96	2,099.97	1,963.61	136.36	15.400		
6,800.00	6,569.55	10,557.04	7,247.14	36.29	115.68	-6.12	-3,612.72	-122.01	2,040.81	1,902.27	138.54	14.731		
6,900.00	6,665.75	10,552.83	7,247.21	36.84	115.55	-11.49	-3,612.73	-126.22	1,984.92	1,844.28	140.64	14.113		
7,000.00	6,761.11	10,538.66	7,247.46	37.39	115.10	-42.61	-3,612.78	-140.39	1,933.03	1,790.73	142.30	13.584		
7,100.00	6,853.41	10,509.20	7,247.98	37.89	114.17	-62.01	-3,612.88	-169.85	1,886.38	1,743.13	143.25	13.169		
7,200.00	6,940.36	10,465.16	7,248.76	38.34	112.78	-73.54	-3,613.03	-213.87	1,845.85	1,702.40	143.45	12.867		
7,300.00	7,019.83	10,407.65	7,249.77	38.74	110.98	-80.55	-3,613.22	-271.38	1,811.87	1,668.94	142.93	12.676		
7,400.00	7,089.85	10,335.31	7,250.62	39.10	108.71	-84.77	-3,613.46	-343.71	1,784.41	1,642.74	141.67	12.595		
7,500.00	7,148.71	10,256.32	7,250.62	39.42	106.24	-87.35	-3,613.72	-422.70	1,763.15	1,623.07	140.08	12.587 SF		
7,600.00	7,194.95	10,168.79	7,250.62	39.71	103.51	-88.82	-3,614.02	-510.23	1,747.66	1,609.50	138.15	12.650		
7,700.00	7,227.43	10,074.81	7,250.62	40.01	100.60	-89.61	-3,614.33	-604.21	1,737.35	1,601.29	136.07	12.768		
7,800.00	7,245.37	9,976.69	7,250.62	40.37	97.57	-89.97	-3,614.66	-702.33	1,731.73	1,597.77	133.96	12.927 ES		
7,900.00	7,248.84	9,876.83	7,250.62	40.87	94.50	-90.06	-3,614.99	-802.19	1,730.33	1,598.40	131.93	13.116		
8,000.00	7,248.24	9,776.83	7,250.62	41.62	91.45	-90.08	-3,615.33	-902.18	1,730.08	1,600.01	130.07	13.301		
8,100.00	7,247.65	9,676.83	7,250.62	42.66	88.41	-90.10	-3,615.66	-1,002.18	1,729.83	1,601.44	128.39	13.473		
8,200.00	7,247.05	9,576.84	7,250.62	43.96	85.40	-90.12	-3,615.99	-1,102.18	1,729.58	1,602.70	126.88	13.632		
8,300.00	7,246.46	9,476.84	7,250.62	45.46	82.42	-90.14	-3,616.33	-1,202.18	1,729.33	1,603.81	125.52	13.777		
8,400.00	7,245.86	9,376.84	7,250.62	47.13	79.46	-90.16	-3,616.66	-1,302.17	1,729.08	1,604.78	124.30	13.911		
8,500.00	7,245.27	9,276.84	7,250.62	48.93	76.54	-90.18	-3,617.00	-1,402.17	1,728.84	1,605.62	123.21	14.032		
8,600.00	7,244.67	9,176.84	7,250.62	50.84	73.65	-90.20	-3,617.33	-1,502.17	1,728.59	1,606.34	122.24	14.140		
8,700.00	7,244.07	9,076.85	7,250.62	52.85	70.80	-90.22	-3,617.66	-1,602.17	1,728.34	1,606.95	121.39	14.237		
8,800.00	7,243.48	8,976.85	7,250.62	54.94	68.00	-90.24	-3,618.00	-1,702.16	1,728.09	1,607.44	120.66	14.322		
8,900.00	7,242.88	8,876.85	7,250.62	57.10	65.25	-90.26	-3,618.33	-1,802.16	1,727.84	1,607.82	120.03	14.396		
9,000.00	7,242.29	8,776.85	7,250.62	59.32	62.56	-90.28	-3,618.67	-1,902.16	1,727.60	1,608.09	119.50	14.456		
9,100.00	7,241.69	8,676.86	7,250.62	61.60	59.95	-90.30	-3,619.00	-2,002.16	1,727.35	1,608.26	119.09	14.504		
9,200.00	7,241.09	8,576.86	7,250.62	63.92	57.42	-90.32	-3,619.33	-2,102.15	1,727.10	1,608.31	118.79	14.539		
9,300.00	7,240.50	8,476.86	7,250.62	66.29	54.98	-90.34	-3,619.67	-2,202.15	1,726.86	1,608.25	118.61	14.560		
9,400.00	7,239.90	8,376.86	7,250.62	68.70	52.68	-90.36	-3,620.00	-2,302.15	1,726.61	1,608.07	118.55	14.565		
9,500.00	7,239.31	8,276.86	7,250.62	71.14	50.52	-90.38	-3,620.34	-2,402.15	1,726.37	1,607.74	118.62	14.554		
9,600.00	7,238.71	8,176.87	7,250.62	73.61	48.55	-90.40	-3,620.67	-2,502.14	1,726.12	1,607.27	118.85	14.524		
9,700.00	7,238.11	8,076.87	7,250.62	76.11	46.84	-90.42	-3,621.00	-2,602.14	1,725.87	1,606.64	119.23	14.475		
9,800.00	7,237.52	7,976.87	7,250.62	78.64	45.43	-90.44	-3,621.34	-2,702.14	1,725.63	1,605.83	119.80	14.404		
9,900.00	7,236.92	7,876.87	7,250.62	81.19	44.39	-90.46	-3,621.67	-2,802.13	1,725.38	1,604.81	120.57	14.310		
10,000.00	7,236.33	7,776.87	7,250.62	83.75	43.69	-90.48	-3,622.01	-2,902.13	1,725.14	1,603.57	121.57	14.190		
10,050.17	7,236.03	7,730.93	7,250.58	85.05	43.47	-90.48	-3,622.17	-2,948.07	1,725.03	1,602.78	122.25	14.111 CC		
10,100.00	7,235.73	7,700.00	7,249.51	86.34	43.34	-90.45	-3,622.52	-2,978.98	1,725.30	1,602.06	123.23	14.000		
10,200.00	7,235.14	7,637.41	7,242.88	88.94	43.13	-90.25	-3,624.26	-3,041.17	1,727.47	1,602.23	125.24	13.793		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	7,577.01	7,230.87	91.56	42.97	-89.86	-3,627.24	-3,100.26	1,731.91	1,604.60	127.31	13.604		
10,400.00	7,233.94	7,519.36	7,214.37	94.19	42.85	-89.32	-3,631.25	-3,155.34	1,738.80	1,609.36	129.43	13.434		
10,500.00	7,233.35	7,465.14	7,194.49	96.84	42.73	-88.68	-3,636.03	-3,205.53	1,748.36	1,616.78	131.58	13.288		
10,600.00	7,232.75	7,414.77	7,172.34	99.50	42.63	-87.97	-3,641.31	-3,250.45	1,760.84	1,627.11	133.73	13.167		
10,700.00	7,232.16	7,368.41	7,148.96	102.17	42.54	-87.21	-3,646.86	-3,290.08	1,776.47	1,640.69	135.79	13.083		
10,800.00	7,231.56	7,326.04	7,125.19	104.85	42.45	-86.46	-3,652.49	-3,324.69	1,795.47	1,657.72	137.75	13.034		
10,900.00	7,230.96	7,287.49	7,101.65	107.53	42.36	-85.71	-3,658.04	-3,354.70	1,817.99	1,678.39	139.60	13.023		
11,000.00	7,230.37	7,252.01	7,078.46	110.23	42.27	-84.98	-3,663.50	-3,380.98	1,844.14	1,702.86	141.28	13.053		
11,100.00	7,229.77	7,220.83	7,056.92	112.93	42.19	-84.30	-3,668.57	-3,402.96	1,873.96	1,731.16	142.81	13.122		
11,200.00	7,229.18	7,200.00	7,041.96	115.65	42.13	-83.84	-3,672.08	-3,417.02	1,907.52	1,763.35	144.16	13.232		
11,300.00	7,228.58	7,166.08	7,016.67	118.37	42.03	-83.06	-3,678.01	-3,438.82	1,944.63	1,799.32	145.31	13.383		
11,400.00	7,227.99	7,152.01	7,005.86	121.09	41.99	-82.73	-3,680.55	-3,447.45	1,985.40	1,839.10	146.30	13.571		
11,500.00	7,227.39	7,120.94	6,981.32	123.82	41.89	-81.98	-3,686.30	-3,465.63	2,029.50	1,882.39	147.10	13.796		
11,600.00	7,226.79	7,100.00	6,964.32	126.56	41.82	-81.47	-3,690.28	-3,477.18	2,076.97	1,929.22	147.75	14.058		
11,700.00	7,226.20	7,083.43	6,950.60	129.30	41.76	-81.06	-3,693.48	-3,485.90	2,127.60	1,979.35	148.25	14.351		
11,800.00	7,225.60	7,067.04	6,936.82	132.05	41.70	-80.64	-3,696.71	-3,494.18	2,181.24	2,032.63	148.61	14.677		
11,900.00	7,225.01	7,052.01	6,924.01	134.80	41.65	-80.26	-3,699.70	-3,501.43	2,237.71	2,088.86	148.84	15.034		
12,000.00	7,224.41	7,049.69	6,922.02	137.56	41.64	-80.21	-3,700.16	-3,502.53	2,296.95	2,147.98	148.96	15.419		
12,100.00	7,223.81	7,025.35	6,900.88	140.32	41.54	-79.58	-3,705.10	-3,513.54	2,358.48	2,209.49	148.99	15.829		
12,200.00	7,223.22	7,010.76	6,888.02	143.08	41.48	-79.21	-3,708.10	-3,519.74	2,422.46	2,273.52	148.93	16.265		
12,300.00	7,222.62	7,000.00	6,878.45	145.85	41.44	-78.93	-3,710.33	-3,524.12	2,488.61	2,339.81	148.80	16.725		
12,400.00	7,222.03	7,000.00	6,878.45	148.62	41.44	-78.93	-3,710.33	-3,524.12	2,556.83	2,408.25	148.58	17.208		
12,500.00	7,221.43	7,000.00	6,878.45	151.40	41.44	-78.93	-3,710.33	-3,524.12	2,627.09	2,478.78	148.31	17.713		
12,600.00	7,220.83	6,974.12	6,855.14	154.18	41.33	-78.25	-3,715.77	-3,533.97	2,698.69	2,550.65	148.04	18.230		
12,700.00	7,220.24	6,952.01	6,834.94	156.96	41.23	-77.68	-3,720.47	-3,541.60	2,772.31	2,624.60	147.71	18.768		
12,800.00	7,219.64	6,952.01	6,834.94	159.74	41.23	-77.68	-3,720.47	-3,541.60	2,847.16	2,699.83	147.33	19.325		
12,900.00	7,219.05	6,952.01	6,834.94	162.53	41.23	-77.68	-3,720.47	-3,541.60	2,923.52	2,776.60	146.93	19.898		
13,000.00	7,218.45	6,952.01	6,834.94	165.32	41.23	-77.68	-3,720.47	-3,541.60	3,001.27	2,854.78	146.50	20.487		
13,100.00	7,217.86	6,952.01	6,834.94	168.11	41.23	-77.68	-3,720.47	-3,541.60	3,080.31	2,934.26	146.05	21.090		
13,200.00	7,217.26	6,931.63	6,816.09	170.90	41.13	-77.14	-3,724.86	-3,548.00	3,160.19	3,014.55	145.64	21.698		
13,300.00	7,216.66	6,925.93	6,810.78	173.70	41.11	-76.99	-3,726.10	-3,549.68	3,241.29	3,096.10	145.19	22.324		
13,400.00	7,216.07	6,920.54	6,805.75	176.49	41.08	-76.85	-3,727.27	-3,551.22	3,323.37	3,178.63	144.74	22.961		
13,500.00	7,215.47	6,900.00	6,786.47	179.29	40.98	-76.31	-3,731.76	-3,556.69	3,406.57	3,262.25	144.32	23.605		
13,600.00	7,214.88	6,900.00	6,786.47	182.09	40.98	-76.31	-3,731.76	-3,556.69	3,490.31	3,346.46	143.85	24.263		
13,700.00	7,214.28	6,900.00	6,786.47	184.90	40.98	-76.31	-3,731.76	-3,556.69	3,574.89	3,431.50	143.39	24.931		
13,800.00	7,213.68	6,900.00	6,786.47	187.70	40.98	-76.31	-3,731.76	-3,556.69	3,660.25	3,517.31	142.93	25.608		
13,900.00	7,213.09	6,900.00	6,786.47	190.51	40.98	-76.31	-3,731.76	-3,556.69	3,746.33	3,603.85	142.48	26.294		
14,000.00	7,212.49	6,900.00	6,786.47	193.32	40.98	-76.31	-3,731.76	-3,556.69	3,833.08	3,691.05	142.03	26.988		
14,100.00	7,211.90	6,900.00	6,786.47	196.13	40.98	-76.31	-3,731.76	-3,556.69	3,920.47	3,778.88	141.59	27.689		
14,200.00	7,211.30	6,900.00	6,786.47	198.94	40.98	-76.31	-3,731.76	-3,556.69	4,008.45	3,867.30	141.15	28.398		
14,300.00	7,210.71	6,900.00	6,786.47	201.75	40.98	-76.31	-3,731.76	-3,556.69	4,096.98	3,956.25	140.73	29.113		
14,400.00	7,210.11	6,879.39	6,766.96	204.56	40.88	-75.77	-3,736.30	-3,561.54	4,185.67	4,045.30	140.37	29.820		
14,500.00	7,209.51	6,876.23	6,763.96	207.38	40.86	-75.69	-3,736.99	-3,562.22	4,275.08	4,135.12	139.97	30.544		
14,600.00	7,208.92	6,873.21	6,761.08	210.19	40.85	-75.61	-3,737.66	-3,562.87	4,364.94	4,225.36	139.57	31.273		
14,700.00	7,208.32	6,852.01	6,740.83	213.01	40.74	-75.06	-3,742.37	-3,566.97	4,455.49	4,316.26	139.23	32.001		
14,800.00	7,207.73	6,852.01	6,740.83	215.83	40.74	-75.06	-3,742.37	-3,566.97	4,546.08	4,407.23	138.85	32.740		
14,900.00	7,207.13	6,852.01	6,740.83	218.65	40.74	-75.06	-3,742.37	-3,566.97	4,637.06	4,498.58	138.48	33.485		
15,000.00	7,206.53	6,852.01	6,740.83	221.47	40.74	-75.06	-3,742.37	-3,566.97	4,728.40	4,590.28	138.12	34.234		
15,100.00	7,205.94	6,852.01	6,740.83	224.29	40.74	-75.06	-3,742.37	-3,566.97	4,820.08	4,682.31	137.77	34.987		
15,200.00	7,205.34	6,852.01	6,740.83	227.11	40.74	-75.06	-3,742.37	-3,566.97	4,912.09	4,774.66	137.43	35.743		
15,258.04	7,205.00	6,852.01	6,740.83	228.75	40.74	-75.06	-3,742.37	-3,566.97	4,965.64	4,828.41	137.23	36.184		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	72.00	3.28	3.28	-147.02	-5,073.39	-3,291.64	6,048.09					
100.00	100.00	1,184.95	1,216.44	3.28	6.66	-145.99	-4,921.58	-3,321.23	6,041.44	6,031.56	9.88	611.647		
200.00	200.00	1,280.73	1,308.72	3.34	7.21	-145.80	-4,896.62	-3,327.23	6,023.01	6,012.61	10.40	579.269		
300.00	299.98	1,410.94	1,434.22	3.44	8.00	29.90	-4,862.69	-3,334.25	6,002.64	5,991.47	11.17	537.336		
400.00	399.84	1,506.31	1,526.35	3.59	8.58	30.33	-4,838.40	-3,338.55	5,979.46	5,967.65	11.81	506.314		
500.00	499.45	1,590.58	1,607.80	3.79	9.10	30.79	-4,817.04	-3,341.84	5,953.24	5,940.80	12.44	478.746		
600.00	598.70	1,651.14	1,666.46	4.03	9.47	31.24	-4,802.17	-3,344.10	5,924.73	5,911.76	12.97	456.749		
700.00	697.47	1,807.44	1,817.65	4.31	10.44	32.01	-4,763.04	-3,350.50	5,893.36	5,879.28	14.08	418.537		
800.00	795.62	1,897.16	1,904.14	4.64	11.02	32.67	-4,739.56	-3,354.66	5,858.64	5,843.77	14.87	394.007		
900.00	893.06	1,985.31	1,989.12	5.00	11.60	33.40	-4,716.48	-3,358.76	5,821.32	5,805.64	15.68	371.218		
1,000.00	989.65	2,071.78	2,072.48	5.40	12.17	34.16	-4,693.85	-3,362.77	5,781.47	5,764.94	16.52	349.955		
1,100.00	1,085.85	2,157.51	2,155.12	5.82	12.73	34.48	-4,671.41	-3,366.75	5,740.66	5,723.30	17.36	330.687		
1,200.00	1,182.06	2,243.24	2,237.77	6.27	13.30	34.80	-4,648.97	-3,370.73	5,700.03	5,681.81	18.22	312.783		
1,300.00	1,278.26	2,341.04	2,320.42	6.73	13.95	35.13	-4,626.54	-3,374.72	5,659.58	5,640.40	19.18	295.095		
1,400.00	1,374.47	2,414.70	2,403.06	7.20	14.45	35.46	-4,604.10	-3,378.70	5,619.31	5,599.30	20.01	280.790		
1,500.00	1,470.67	2,500.44	2,485.71	7.69	15.02	35.80	-4,581.66	-3,382.68	5,579.22	5,558.29	20.93	266.533		
1,600.00	1,566.88	2,586.17	2,568.36	8.18	15.60	36.14	-4,559.22	-3,386.66	5,539.32	5,517.45	21.87	253.317		
1,700.00	1,663.08	2,671.90	2,651.00	8.68	16.17	36.49	-4,536.78	-3,390.64	5,499.61	5,476.80	22.81	241.056		
1,800.00	1,759.29	2,757.63	2,733.65	9.19	16.75	36.84	-4,514.34	-3,394.62	5,460.10	5,436.33	23.77	229.667		
1,900.00	1,855.49	2,843.36	2,816.30	9.70	17.33	37.20	-4,491.90	-3,398.60	5,420.79	5,396.05	24.74	219.074		
2,000.00	1,951.70	2,940.92	2,898.95	10.22	17.99	37.55	-4,469.46	-3,402.59	5,381.69	5,355.89	25.80	208.632		
2,100.00	2,047.90	3,014.82	2,981.59	10.73	18.49	37.92	-4,447.02	-3,406.57	5,342.79	5,316.08	26.71	200.004		
2,200.00	2,144.11	3,100.56	3,064.24	11.26	19.08	38.29	-4,424.58	-3,410.55	5,304.11	5,276.40	27.71	191.406		
2,300.00	2,240.31	3,186.29	3,146.89	11.78	19.66	38.66	-4,402.14	-3,414.53	5,265.65	5,236.93	28.72	183.360		
2,400.00	2,336.52	3,272.02	3,229.53	12.31	20.24	39.04	-4,379.71	-3,418.51	5,227.41	5,197.68	29.73	175.821		
2,500.00	2,432.72	3,357.75	3,312.18	12.84	20.83	39.42	-4,357.27	-3,422.49	5,189.40	5,158.65	30.75	168.745		
2,600.00	2,528.93	3,443.48	3,394.83	13.37	21.41	39.81	-4,334.83	-3,426.47	5,151.63	5,119.85	31.78	162.095		
2,700.00	2,625.13	3,540.80	3,477.47	13.91	22.08	40.20	-4,312.39	-3,430.45	5,114.10	5,081.21	32.89	155.499		
2,800.00	2,721.34	3,614.94	3,560.12	14.44	22.59	40.60	-4,289.95	-3,434.44	5,076.80	5,042.95	33.86	149.938		
2,900.00	2,817.54	3,700.68	3,642.77	14.98	23.17	41.00	-4,267.51	-3,438.42	5,039.76	5,004.86	34.91	144.371		
3,000.00	2,913.75	10,480.80	7,076.95	15.52	117.76	-8.35	-3,349.31	-65.23	4,959.30	4,877.50	81.81	60.622		
3,100.00	3,009.95	10,478.70	7,076.95	16.06	117.69	-8.27	-3,349.31	-67.33	4,863.85	4,781.47	82.38	59.044		
3,200.00	3,106.16	10,476.61	7,076.95	16.60	117.63	-8.18	-3,349.30	-69.43	4,768.58	4,685.60	82.98	57.468		
3,300.00	3,202.37	10,474.51	7,076.95	17.14	117.56	-8.10	-3,349.30	-71.52	4,673.51	4,589.90	83.61	55.894		
3,400.00	3,298.57	10,472.41	7,076.94	17.68	117.49	-8.02	-3,349.29	-73.62	4,578.65	4,494.36	84.28	54.324		
3,500.00	3,394.78	10,470.31	7,076.94	18.22	117.43	-7.94	-3,349.29	-75.72	4,484.01	4,399.02	84.99	52.758		
3,600.00	3,490.98	10,468.21	7,076.94	18.76	117.36	-7.86	-3,349.28	-77.82	4,389.60	4,303.87	85.74	51.199		
3,700.00	3,587.19	10,466.11	7,076.94	19.31	117.30	-7.77	-3,349.28	-79.92	4,295.45	4,208.93	86.52	49.648		
3,800.00	3,683.39	10,464.02	7,076.94	19.85	117.23	-7.69	-3,349.27	-82.02	4,201.57	4,114.23	87.34	48.105		
3,900.00	3,779.60	10,461.92	7,076.93	20.39	117.16	-7.61	-3,349.26	-84.11	4,107.97	4,019.77	88.21	46.572		
4,000.00	3,875.80	10,459.82	7,076.93	20.94	117.10	-7.53	-3,349.26	-86.21	4,014.69	3,925.57	89.12	45.050		
4,100.00	3,972.01	10,457.72	7,076.93	21.48	117.03	-7.45	-3,349.25	-88.31	3,921.73	3,831.66	90.07	43.540		
4,200.00	4,068.21	10,455.62	7,076.93	22.03	116.97	-7.36	-3,349.25	-90.41	3,829.13	3,738.05	91.08	42.043		
4,300.00	4,164.42	10,453.52	7,076.93	22.57	116.90	-7.28	-3,349.24	-92.51	3,736.90	3,644.77	92.13	40.561		
4,400.00	4,260.62	10,451.42	7,076.92	23.12	116.83	-7.20	-3,349.24	-94.61	3,645.09	3,551.85	93.24	39.095		
4,500.00	4,356.83	10,449.33	7,076.92	23.67	116.77	-7.12	-3,349.23	-96.71	3,553.72	3,459.32	94.40	37.647		
4,600.00	4,453.03	10,447.23	7,076.92	24.21	116.70	-7.04	-3,349.23	-98.80	3,462.82	3,367.20	95.61	36.216		
4,700.00	4,549.24	10,445.13	7,076.92	24.76	116.63	-6.95	-3,349.22	-100.90	3,372.43	3,275.54	96.89	34.806		
4,800.00	4,645.44	10,443.03	7,076.91	25.31	116.57	-6.87	-3,349.22	-103.00	3,282.60	3,184.37	98.23	33.416		
4,900.00	4,741.65	10,440.93	7,076.91	25.86	116.50	-6.79	-3,349.21	-105.10	3,193.38	3,093.74	99.64	32.049		
5,000.00	4,837.85	10,438.83	7,076.91	26.40	116.44	-6.71	-3,349.21	-107.20	3,104.81	3,003.69	101.12	30.705		
5,100.00	4,934.06	10,436.73	7,076.91	26.95	116.37	-6.63	-3,349.20	-109.30	3,016.95	2,914.29	102.67	29.386		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	10,435.41	7,076.91	27.50	116.33	-6.54	-3,349.20	-111.39	2,929.88	2,825.57	104.31	28.089		
5,300.00	5,126.47	10,437.50	7,076.90	28.05	116.39	-6.46	-3,349.19	-113.49	2,843.65	2,737.54	106.11	26.800		
5,400.00	5,222.67	10,439.60	7,076.90	28.60	116.46	-6.38	-3,349.19	-115.59	2,758.34	2,650.35	107.99	25.542		
5,500.00	5,318.88	10,428.34	7,076.90	29.15	116.11	-6.30	-3,349.18	-117.69	2,674.06	2,564.42	109.64	24.390		
5,600.00	5,415.08	10,426.24	7,076.90	29.70	116.04	-6.21	-3,349.18	-119.79	2,590.89	2,479.31	111.58	23.219		
5,700.00	5,511.29	10,424.14	7,076.90	30.25	115.97	-6.13	-3,349.17	-121.89	2,508.95	2,395.33	113.62	22.082		
5,800.00	5,607.49	10,422.05	7,076.89	30.79	115.91	-6.05	-3,349.17	-123.99	2,428.36	2,312.62	115.74	20.982		
5,900.00	5,703.70	10,419.95	7,076.89	31.34	115.84	-5.97	-3,349.16	-126.08	2,349.26	2,231.32	117.94	19.919		
6,000.00	5,799.90	10,417.85	7,076.89	31.89	115.78	-5.89	-3,349.16	-128.18	2,271.81	2,151.58	120.23	18.896		
6,100.00	5,896.11	10,415.75	7,076.89	32.44	115.71	-5.80	-3,349.15	-130.28	2,196.17	2,073.59	122.59	17.915		
6,200.00	5,992.32	10,413.65	7,076.89	32.99	115.64	-5.72	-3,349.15	-132.38	2,122.56	1,997.54	125.01	16.979		
6,300.00	6,088.52	10,411.55	7,076.88	33.54	115.58	-5.64	-3,349.14	-134.48	2,051.17	1,923.68	127.49	16.089		
6,400.00	6,184.73	10,409.45	7,076.88	34.09	115.51	-5.56	-3,349.14	-136.58	1,982.26	1,852.25	130.01	15.247		
6,500.00	6,280.93	10,407.36	7,076.88	34.64	115.45	-5.47	-3,349.13	-138.67	1,916.09	1,783.55	132.54	14.457		
6,600.00	6,377.14	10,405.26	7,076.88	35.19	115.38	-5.39	-3,349.12	-140.77	1,852.95	1,717.90	135.05	13.720		
6,700.00	6,473.34	10,403.16	7,076.88	35.74	115.32	-5.31	-3,349.12	-142.87	1,793.17	1,655.66	137.51	13.040		
6,800.00	6,569.55	10,401.06	7,076.87	36.29	115.25	-5.23	-3,349.11	-144.97	1,737.09	1,597.21	139.87	12.419		
6,900.00	6,665.75	10,401.21	7,076.87	36.84	115.25	-10.56	-3,349.11	-147.24	1,685.08	1,542.93	142.15	11.854		
7,000.00	6,761.11	10,386.55	7,076.86	37.39	114.79	-41.06	-3,349.08	-159.48	1,637.81	1,494.09	143.73	11.395		
7,100.00	6,853.41	10,358.95	7,076.83	37.89	113.93	-59.75	-3,349.01	-187.08	1,596.45	1,451.90	144.56	11.044		
7,200.00	6,940.36	10,316.67	7,076.79	38.34	112.60	-70.50	-3,348.91	-229.36	1,561.73	1,417.21	144.52	10.806		
7,300.00	7,019.83	10,260.76	7,076.73	38.74	110.85	-76.69	-3,348.77	-285.27	1,533.80	1,390.15	143.66	10.677		
7,400.00	7,089.85	10,192.58	7,076.67	39.10	108.72	-80.16	-3,348.60	-353.45	1,512.34	1,370.24	142.11	10.642 SF		
7,500.00	7,148.71	10,113.82	7,076.59	39.42	106.27	-81.96	-3,348.40	-432.21	1,496.61	1,356.55	140.06	10.686		
7,600.00	7,194.95	10,026.42	7,076.50	39.71	103.56	-82.79	-3,348.19	-519.61	1,485.67	1,347.92	137.74	10.786		
7,700.00	7,227.43	9,932.53	7,076.41	40.01	100.67	-83.10	-3,347.96	-613.50	1,478.55	1,343.19	135.37	10.922		
7,800.00	7,245.37	9,835.58	7,076.31	40.37	97.69	-83.21	-3,347.71	-711.57	1,474.50	1,341.36	133.14	11.075		
7,900.00	7,248.84	9,735.42	7,076.21	40.87	94.63	-83.27	-3,347.47	-811.41	1,472.95	1,341.86	131.09	11.236		
8,000.00	7,248.24	9,635.42	7,076.11	41.62	91.60	-83.29	-3,347.22	-911.41	1,472.06	1,342.81	129.25	11.389		
8,100.00	7,247.65	9,535.41	7,076.01	42.66	88.59	-83.30	-3,346.97	-1,011.40	1,471.18	1,343.60	127.58	11.531		
8,200.00	7,247.05	9,435.41	7,075.91	43.96	85.61	-83.32	-3,346.73	-1,111.40	1,470.30	1,344.22	126.08	11.662		
8,300.00	7,246.46	9,335.40	7,075.81	45.46	82.65	-83.33	-3,346.48	-1,211.39	1,469.41	1,344.69	124.72	11.782		
8,400.00	7,245.86	9,235.40	7,075.71	47.13	79.73	-83.35	-3,346.23	-1,311.39	1,468.53	1,345.03	123.50	11.891		
8,500.00	7,245.27	9,135.88	7,075.01	48.93	76.86	-83.34	-3,345.99	-1,410.14	1,467.72	1,345.29	122.43	11.988		
8,600.00	7,244.67	9,035.89	7,074.19	50.84	74.01	-83.33	-3,345.74	-1,510.13	1,466.92	1,345.47	121.45	12.078		
8,700.00	7,244.07	8,935.89	7,073.36	52.85	71.21	-83.32	-3,345.49	-1,610.13	1,466.12	1,345.53	120.59	12.158		
8,800.00	7,243.48	8,835.89	7,072.53	54.94	68.47	-83.30	-3,345.25	-1,710.12	1,465.32	1,345.49	119.83	12.228		
8,900.00	7,242.88	8,735.90	7,071.71	57.10	65.78	-83.29	-3,345.00	-1,810.11	1,464.52	1,345.34	119.18	12.288		
9,000.00	7,242.29	8,635.90	7,070.88	59.32	63.18	-83.28	-3,344.75	-1,910.10	1,463.73	1,345.08	118.64	12.337		
9,100.00	7,241.69	8,535.91	7,070.05	61.60	60.66	-83.26	-3,344.50	-2,010.10	1,462.93	1,344.72	118.21	12.376		
9,200.00	7,241.09	8,435.91	7,069.22	63.92	58.26	-83.25	-3,344.26	-2,110.09	1,462.13	1,344.24	117.89	12.403		
9,300.00	7,240.50	8,335.91	7,068.40	66.29	55.99	-83.24	-3,344.01	-2,210.08	1,461.33	1,343.65	117.68	12.417		
9,400.00	7,239.90	8,235.92	7,067.57	68.70	53.89	-83.23	-3,343.76	-2,310.07	1,460.53	1,342.93	117.61	12.419		
9,500.00	7,239.31	8,135.92	7,066.74	71.14	52.00	-83.21	-3,343.51	-2,410.07	1,459.74	1,342.07	117.66	12.406		
9,600.00	7,238.71	8,035.92	7,065.91	73.61	50.38	-83.20	-3,343.27	-2,510.06	1,458.94	1,341.07	117.87	12.377		
9,700.00	7,238.11	7,935.93	7,065.09	76.11	49.07	-83.19	-3,343.02	-2,610.05	1,458.14	1,339.89	118.25	12.331		
9,800.00	7,237.52	7,835.93	7,064.26	78.64	48.07	-83.17	-3,342.77	-2,710.04	1,457.34	1,338.53	118.81	12.266		
9,900.00	7,236.92	7,735.94	7,063.43	81.19	47.37	-83.16	-3,342.53	-2,810.04	1,456.55	1,336.96	119.58	12.180		
10,000.00	7,236.33	7,635.94	7,062.61	83.75	46.91	-83.15	-3,342.28	-2,910.03	1,455.75	1,335.16	120.59	12.072		
10,056.75	7,235.99	7,591.14	7,062.09	85.22	46.76	-83.14	-3,342.21	-2,954.82	1,455.40	1,333.88	121.53	11.976 CC		
10,100.00	7,235.73	7,567.90	7,061.00	86.34	46.69	-83.10	-3,342.39	-2,978.03	1,455.71	1,333.24	122.47	11.887 ES		
10,200.00	7,235.14	7,514.65	7,055.42	88.94	46.55	-82.90	-3,343.66	-3,030.97	1,458.71	1,334.12	124.60	11.707		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,462.64	7,045.87	91.56	46.43	-82.55	-3,346.01	-3,082.02	1,464.98	1,338.30	126.68	11.564		
10,400.00	7,233.94	7,412.48	7,032.88	94.19	46.32	-82.07	-3,349.30	-3,130.34	1,474.63	1,345.92	128.71	11.457		
10,500.00	7,233.35	7,364.68	7,017.12	96.84	46.22	-81.50	-3,353.36	-3,175.27	1,487.80	1,357.13	130.67	11.386		
10,600.00	7,232.75	7,319.56	6,999.31	99.50	46.12	-80.85	-3,358.00	-3,216.46	1,504.63	1,372.13	132.50	11.356		
10,700.00	7,232.16	7,277.32	6,980.11	102.17	46.03	-80.15	-3,363.03	-3,253.74	1,525.26	1,390.95	134.30	11.357		
10,800.00	7,231.56	7,235.01	6,958.54	104.85	45.94	-79.38	-3,368.71	-3,289.68	1,549.78	1,413.93	135.85	11.408		
10,900.00	7,230.96	7,200.00	6,938.98	107.53	45.85	-78.69	-3,373.89	-3,318.25	1,578.25	1,440.93	137.32	11.493		
11,000.00	7,230.37	7,168.08	6,919.86	110.23	45.77	-78.02	-3,378.96	-3,343.29	1,610.67	1,472.05	138.62	11.619		
11,100.00	7,229.77	7,135.01	6,898.79	112.93	45.68	-77.30	-3,384.55	-3,368.16	1,647.03	1,507.31	139.72	11.788		
11,200.00	7,229.18	7,108.78	6,881.22	115.65	45.60	-76.70	-3,389.23	-3,387.05	1,687.22	1,546.54	140.68	11.993		
11,300.00	7,228.58	7,082.68	6,862.99	118.37	45.52	-76.08	-3,394.09	-3,405.10	1,731.15	1,589.69	141.45	12.238		
11,400.00	7,227.99	7,050.00	6,839.20	121.09	45.42	-75.29	-3,400.44	-3,426.58	1,778.71	1,636.70	142.01	12.525		
11,500.00	7,227.39	7,035.01	6,827.94	123.82	45.36	-74.92	-3,403.45	-3,436.00	1,829.57	1,687.06	142.51	12.838		
11,600.00	7,226.79	7,016.30	6,813.59	126.56	45.30	-74.45	-3,407.29	-3,447.37	1,883.72	1,740.88	142.84	13.188		
11,700.00	7,226.20	7,000.00	6,800.83	129.30	45.24	-74.03	-3,410.71	-3,456.92	1,940.91	1,797.87	143.03	13.570		
11,800.00	7,225.60	6,980.27	6,785.07	132.05	45.16	-73.53	-3,414.93	-3,468.02	2,000.93	1,857.83	143.10	13.982		
11,900.00	7,225.01	6,950.00	6,760.27	134.80	45.05	-72.74	-3,421.58	-3,484.05	2,063.79	1,920.75	143.04	14.428		
12,000.00	7,224.41	6,950.00	6,760.27	137.56	45.05	-72.74	-3,421.58	-3,484.05	2,128.77	1,985.79	142.97	14.890		
12,100.00	7,223.81	6,935.01	6,747.73	140.32	44.98	-72.35	-3,424.95	-3,491.53	2,196.20	2,053.42	142.79	15.381		
12,200.00	7,223.22	6,922.91	6,737.48	143.08	44.93	-72.03	-3,427.70	-3,497.35	2,265.75	2,123.21	142.54	15.895		
12,300.00	7,222.62	6,900.00	6,717.80	145.85	44.83	-71.43	-3,432.99	-3,507.80	2,337.37	2,195.14	142.23	16.433		
12,400.00	7,222.03	6,900.00	6,717.80	148.62	44.83	-71.43	-3,432.99	-3,507.80	2,410.58	2,268.68	141.90	16.988		
12,500.00	7,221.43	6,900.00	6,717.80	151.40	44.83	-71.43	-3,432.99	-3,507.80	2,485.66	2,344.14	141.52	17.564		
12,600.00	7,220.83	6,879.77	6,700.13	154.18	44.74	-70.89	-3,437.75	-3,516.42	2,562.09	2,420.97	141.12	18.155		
12,700.00	7,220.24	6,870.66	6,692.08	156.96	44.70	-70.65	-3,439.91	-3,520.11	2,640.04	2,499.34	140.70	18.764		
12,800.00	7,219.64	6,850.00	6,673.66	159.74	44.60	-70.10	-3,444.87	-3,528.03	2,719.42	2,579.15	140.27	19.387		
12,900.00	7,219.05	6,850.00	6,673.66	162.53	44.60	-70.10	-3,444.87	-3,528.03	2,799.78	2,659.96	139.81	20.025		
13,000.00	7,218.45	6,850.00	6,673.66	165.32	44.60	-70.10	-3,444.87	-3,528.03	2,881.36	2,742.01	139.35	20.678		
13,100.00	7,217.86	6,835.01	6,660.14	168.11	44.53	-69.71	-3,448.51	-3,533.39	2,963.99	2,825.09	138.90	21.339		
13,200.00	7,217.26	6,835.01	6,660.14	170.90	44.53	-69.71	-3,448.51	-3,533.39	3,047.56	2,909.14	138.43	22.016		
13,300.00	7,216.66	6,835.01	6,660.14	173.70	44.53	-69.71	-3,448.51	-3,533.39	3,132.10	2,994.15	137.95	22.704		
13,400.00	7,216.07	6,820.04	6,646.53	176.49	44.45	-69.31	-3,452.18	-3,538.41	3,217.33	3,079.81	137.52	23.396		
13,500.00	7,215.47	6,814.29	6,641.26	179.29	44.42	-69.16	-3,453.60	-3,540.25	3,303.39	3,166.33	137.07	24.101		
13,600.00	7,214.88	6,800.00	6,628.13	182.09	44.35	-68.78	-3,457.15	-3,544.61	3,390.23	3,253.59	136.64	24.811		
13,700.00	7,214.28	6,800.00	6,628.13	184.90	44.35	-68.78	-3,457.15	-3,544.61	3,477.61	3,341.42	136.19	25.535		
13,800.00	7,213.68	6,800.00	6,628.13	187.70	44.35	-68.78	-3,457.15	-3,544.61	3,565.66	3,429.91	135.75	26.266		
13,900.00	7,213.09	6,800.00	6,628.13	190.51	44.35	-68.78	-3,457.15	-3,544.61	3,654.32	3,519.00	135.32	27.005		
14,000.00	7,212.49	6,800.00	6,628.13	193.32	44.35	-68.78	-3,457.15	-3,544.61	3,743.55	3,608.65	134.90	27.751		
14,100.00	7,211.90	6,800.00	6,628.13	196.13	44.35	-68.78	-3,457.15	-3,544.61	3,833.31	3,698.83	134.48	28.504		
14,200.00	7,211.30	6,800.00	6,628.13	198.94	44.35	-68.78	-3,457.15	-3,544.61	3,923.57	3,789.49	134.08	29.263		
14,300.00	7,210.71	6,777.17	6,606.95	201.75	44.23	-68.18	-3,462.86	-3,550.94	4,013.83	3,880.08	133.75	30.009		
14,400.00	7,210.11	6,773.42	6,603.45	204.56	44.21	-68.08	-3,463.81	-3,551.91	4,104.82	3,971.44	133.38	30.775		
14,500.00	7,209.51	6,750.56	6,582.01	207.38	44.08	-67.48	-3,469.59	-3,557.32	4,196.52	4,063.45	133.07	31.536		
14,600.00	7,208.92	6,750.56	6,582.01	210.19	44.08	-67.48	-3,469.59	-3,557.32	4,288.16	4,155.44	132.71	32.311		
14,700.00	7,208.32	6,750.56	6,582.01	213.01	44.08	-67.48	-3,469.59	-3,557.32	4,380.16	4,247.79	132.37	33.091		
14,800.00	7,207.73	6,750.56	6,582.01	215.83	44.08	-67.48	-3,469.59	-3,557.32	4,472.50	4,340.48	132.03	33.876		
14,900.00	7,207.13	6,750.56	6,582.01	218.65	44.08	-67.48	-3,469.59	-3,557.32	4,565.17	4,433.48	131.70	34.664		
15,000.00	7,206.53	6,750.56	6,582.01	221.47	44.08	-67.48	-3,469.59	-3,557.32	4,658.14	4,526.77	131.38	35.456		
15,100.00	7,205.94	6,750.56	6,582.01	224.29	44.08	-67.48	-3,469.59	-3,557.32	4,751.40	4,620.33	131.07	36.251		
15,200.00	7,205.34	6,750.56	6,582.01	227.11	44.08	-67.48	-3,469.59	-3,557.32	4,844.93	4,714.16	130.77	37.050		
15,258.04	7,205.00	6,750.56	6,582.01	228.75	44.08	-67.48	-3,469.59	-3,557.32	4,899.33	4,768.73	130.60	37.515		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	65.00	3.28	3.28	-123.45	-4,190.86	-6,342.96	7,602.68					
100.00	100.00	35.00	100.00	3.28	3.34	-123.45	-4,190.86	-6,342.96	7,602.40	7,595.78	6.62	1,148.203		
200.00	200.00	135.00	200.00	3.34	4.42	-123.45	-4,190.86	-6,342.96	7,602.40	7,594.64	7.76	979.678		
300.00	299.98	234.98	299.98	3.44	7.24	51.82	-4,190.86	-6,342.96	7,601.32	7,590.64	10.68	711.568		
400.00	399.84	334.84	399.84	3.59	10.47	51.90	-4,190.86	-6,342.96	7,598.09	7,584.03	14.06	540.386		
500.00	499.45	434.45	499.45	3.79	13.82	52.04	-4,190.86	-6,342.96	7,592.70	7,575.10	17.60	431.289		
600.00	598.70	533.70	598.70	4.03	17.20	52.23	-4,190.86	-6,342.96	7,585.19	7,563.96	21.23	357.243		
700.00	697.47	632.47	697.47	4.31	20.60	52.48	-4,190.86	-6,342.96	7,575.56	7,550.65	24.91	304.122		
800.00	795.62	730.62	795.62	4.64	23.99	52.78	-4,190.86	-6,342.96	7,563.84	7,535.22	28.62	264.316		
900.00	893.06	828.06	893.06	5.00	27.36	53.13	-4,190.86	-6,342.96	7,550.06	7,517.72	32.34	233.451		
1,000.00	989.65	924.65	989.65	5.40	30.71	53.52	-4,190.86	-6,342.96	7,534.27	7,498.20	36.08	208.849		
1,100.00	1,085.85	1,020.85	1,085.85	5.82	34.05	53.68	-4,190.86	-6,342.96	7,517.68	7,477.86	39.82	188.797		
1,200.00	1,182.06	1,117.06	1,182.06	6.27	37.40	53.85	-4,190.86	-6,342.96	7,501.14	7,457.56	43.58	172.104		
1,300.00	1,278.26	1,213.26	1,278.26	6.73	40.74	54.01	-4,190.86	-6,342.96	7,484.67	7,437.30	47.37	158.009		
1,400.00	1,374.47	1,309.47	1,374.47	7.20	44.09	54.18	-4,190.86	-6,342.96	7,468.26	7,417.10	51.17	145.958		
1,500.00	1,470.67	1,405.67	1,470.67	7.69	47.44	54.34	-4,190.86	-6,342.96	7,451.92	7,396.94	54.98	135.544		
1,600.00	1,566.88	1,501.88	1,566.88	8.18	50.79	54.51	-4,190.86	-6,342.96	7,435.64	7,376.84	58.80	126.460		
1,700.00	1,663.08	1,601.92	1,663.08	8.68	54.28	54.68	-4,190.86	-6,342.96	7,419.42	7,356.66	62.76	118.217		
1,800.00	1,759.29	1,705.71	1,759.29	9.19	57.89	54.85	-4,190.86	-6,342.96	7,403.27	7,336.41	66.86	110.726		
1,900.00	1,855.49	1,809.51	1,855.49	9.70	61.51	55.01	-4,190.86	-6,342.96	7,387.19	7,316.22	70.97	104.092		
2,000.00	1,951.70	1,886.70	1,951.70	10.22	64.20	55.18	-4,190.86	-6,342.96	7,371.17	7,297.02	74.15	99.405		
2,100.00	2,047.90	1,982.90	2,047.90	10.73	67.56	55.35	-4,190.86	-6,342.96	7,355.22	7,277.21	78.00	94.292		
2,200.00	2,144.11	2,079.11	2,144.11	11.26	70.91	55.52	-4,190.86	-6,342.96	7,339.33	7,257.47	81.86	89.657		
2,300.00	2,240.31	2,175.31	2,240.31	11.78	74.27	55.70	-4,190.86	-6,342.96	7,323.52	7,237.80	85.72	85.435		
2,400.00	2,336.52	2,271.52	2,336.52	12.31	77.62	55.87	-4,190.86	-6,342.96	7,307.76	7,218.18	89.58	81.576		
2,500.00	2,432.72	2,367.72	2,432.72	12.84	80.98	56.04	-4,190.86	-6,342.96	7,292.08	7,198.63	93.45	78.034		
2,600.00	2,528.93	2,463.93	2,528.93	13.37	84.33	56.21	-4,190.86	-6,342.96	7,276.47	7,179.15	97.32	74.772		
2,700.00	2,625.13	2,560.13	2,625.13	13.91	87.69	56.39	-4,190.86	-6,342.96	7,260.92	7,159.74	101.19	71.758		
2,800.00	2,721.34	2,656.34	2,721.34	14.44	91.05	56.56	-4,190.86	-6,342.96	7,245.45	7,140.39	105.06	68.966		
2,900.00	2,817.54	2,752.54	2,817.54	14.98	94.40	56.74	-4,190.86	-6,342.96	7,230.04	7,121.11	108.93	66.372		
3,000.00	2,913.75	2,848.75	2,913.75	15.52	97.76	56.92	-4,190.86	-6,342.96	7,214.71	7,101.90	112.81	63.955		
3,100.00	3,009.95	2,944.95	3,009.95	16.06	101.12	57.09	-4,190.86	-6,342.96	7,199.44	7,082.76	116.69	61.699		
3,200.00	3,106.16	3,041.16	3,106.16	16.60	104.47	57.27	-4,190.86	-6,342.96	7,184.25	7,063.68	120.56	59.588		
3,300.00	3,202.37	3,137.37	3,202.37	17.14	107.83	57.45	-4,190.86	-6,342.96	7,169.13	7,044.68	124.45	57.609		
3,400.00	3,298.57	3,233.57	3,298.57	17.68	111.19	57.63	-4,190.86	-6,342.96	7,154.08	7,025.75	128.33	55.749		
3,500.00	3,394.78	3,329.78	3,394.78	18.22	114.54	57.81	-4,190.86	-6,342.96	7,139.10	7,006.89	132.21	53.998		
3,600.00	3,490.98	3,425.98	3,490.98	18.76	117.90	57.99	-4,190.86	-6,342.96	7,124.19	6,988.10	136.09	52.347		
3,700.00	3,587.19	3,522.19	3,587.19	19.31	121.26	58.17	-4,190.86	-6,342.96	7,109.36	6,969.38	139.98	50.789		
3,800.00	3,683.39	3,618.39	3,683.39	19.85	124.62	58.35	-4,190.86	-6,342.96	7,094.61	6,950.74	143.87	49.314		
3,900.00	3,779.60	3,714.60	3,779.60	20.39	127.97	58.54	-4,190.86	-6,342.96	7,079.93	6,932.17	147.75	47.917		
4,000.00	3,875.80	3,810.80	3,875.80	20.94	131.33	58.72	-4,190.86	-6,342.96	7,065.32	6,913.68	151.64	46.592		
4,100.00	3,972.01	3,907.01	3,972.01	21.48	134.69	58.90	-4,190.86	-6,342.96	7,050.79	6,895.25	155.53	45.334		
4,200.00	4,068.21	4,003.21	4,068.21	22.03	138.05	59.09	-4,190.86	-6,342.96	7,036.33	6,876.91	159.42	44.137		
4,300.00	4,164.42	4,100.58	4,164.42	22.57	141.44	59.27	-4,190.86	-6,342.96	7,021.95	6,858.60	163.35	42.986		
4,400.00	4,260.62	4,204.38	4,260.62	23.12	145.07	59.46	-4,190.86	-6,342.96	7,007.65	6,840.14	167.51	41.834		
4,500.00	4,356.83	4,308.17	4,356.83	23.67	148.69	59.65	-4,190.86	-6,342.96	6,993.42	6,821.75	171.67	40.738		
4,600.00	4,453.03	4,388.03	4,453.03	24.21	151.48	59.84	-4,190.86	-6,342.96	6,979.27	6,804.28	174.99	39.884		
4,700.00	4,549.24	4,484.24	4,549.24	24.76	154.83	60.02	-4,190.86	-6,342.96	6,965.20	6,786.32	178.88	38.937		
4,800.00	4,645.44	4,580.44	4,645.44	25.31	158.19	60.21	-4,190.86	-6,342.96	6,951.21	6,768.43	182.78	38.031		
4,900.00	4,741.65	4,676.65	4,741.65	25.86	161.55	60.40	-4,190.86	-6,342.96	6,937.30	6,750.62	186.67	37.163		
5,000.00	4,837.85	4,772.85	4,837.85	26.40	164.91	60.59	-4,190.86	-6,342.96	6,923.46	6,732.89	190.57	36.330		
5,100.00	4,934.06	4,869.06	4,934.06	26.95	168.27	60.79	-4,190.86	-6,342.96	6,909.71	6,715.24	194.47	35.531		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,965.26	5,030.26	27.50	171.62	60.98	-4,190.86	-6,342.96	6,896.04	6,697.67	198.37	34.764		
5,300.00	5,126.47	5,061.47	5,126.47	28.05	174.98	61.17	-4,190.86	-6,342.96	6,882.45	6,680.18	202.26	34.027		
5,400.00	5,222.67	5,157.67	5,222.67	28.60	178.34	61.36	-4,190.86	-6,342.96	6,868.94	6,662.78	206.16	33.318		
5,500.00	5,318.88	5,253.88	5,318.88	29.15	181.70	61.56	-4,190.86	-6,342.96	6,855.51	6,645.45	210.06	32.636		
5,600.00	5,415.08	5,350.08	5,415.08	29.70	185.06	61.75	-4,190.86	-6,342.96	6,842.16	6,628.20	213.96	31.978		
5,700.00	5,511.29	5,446.29	5,511.29	30.25	188.41	61.95	-4,190.86	-6,342.96	6,828.90	6,611.04	217.86	31.345		
5,800.00	5,607.49	5,542.49	5,607.49	30.79	191.77	62.15	-4,190.86	-6,342.96	6,815.72	6,593.96	221.76	30.734		
5,900.00	5,703.70	5,638.70	5,703.70	31.34	195.13	62.34	-4,190.86	-6,342.96	6,802.63	6,576.96	225.67	30.145		
6,000.00	5,799.90	5,734.90	5,799.90	31.89	198.49	62.54	-4,190.86	-6,342.96	6,789.62	6,560.05	229.57	29.576		
6,100.00	5,896.11	5,831.11	5,896.11	32.44	201.85	62.74	-4,190.86	-6,342.96	6,776.69	6,543.22	233.47	29.026		
6,200.00	5,992.32	5,927.32	5,992.32	32.99	205.20	62.94	-4,190.86	-6,342.96	6,763.85	6,526.48	237.37	28.495		
6,300.00	6,088.52	6,023.52	6,088.52	33.54	208.56	63.14	-4,190.86	-6,342.96	6,751.10	6,509.82	241.28	27.981		
6,400.00	6,184.73	6,119.73	6,184.73	34.09	211.92	63.34	-4,190.86	-6,342.96	6,738.43	6,493.25	245.18	27.483		
6,500.00	6,280.93	6,215.93	6,280.93	34.64	215.28	63.54	-4,190.86	-6,342.96	6,725.85	6,476.76	249.09	27.002		
6,600.00	6,377.14	6,312.14	6,377.14	35.19	218.64	63.74	-4,190.86	-6,342.96	6,713.35	6,460.36	252.99	26.536		
6,700.00	6,473.34	6,408.34	6,473.34	35.74	221.99	63.95	-4,190.86	-6,342.96	6,700.95	6,444.05	256.90	26.084		
6,800.00	6,569.55	6,504.55	6,569.55	36.29	225.35	64.15	-4,190.86	-6,342.96	6,688.63	6,427.83	260.81	25.646		
6,900.00	6,665.75	6,600.75	6,665.75	36.84	228.71	59.64	-4,190.86	-6,342.96	6,676.24	6,411.53	264.71	25.221		
7,000.00	6,761.11	6,703.89	6,761.11	37.39	232.31	32.96	-4,190.86	-6,342.96	6,654.73	6,385.89	268.84	24.754		
7,100.00	6,853.41	6,788.41	6,853.41	37.89	235.26	16.17	-4,190.86	-6,342.96	6,619.27	6,347.01	272.26	24.312		
7,200.00	6,940.36	6,875.36	6,940.36	38.34	238.30	5.34	-4,190.86	-6,342.96	6,570.68	6,294.98	275.70	23.833		
7,300.00	7,019.83	6,954.83	7,019.83	38.74	241.07	-3.00	-4,190.86	-6,342.96	6,510.15	6,231.33	278.82	23.349		
7,400.00	7,089.85	7,024.85	7,089.85	39.10	243.51	-10.97	-4,190.86	-6,342.96	6,439.16	6,157.63	281.53	22.872		
7,500.00	7,148.71	7,083.71	7,148.71	39.42	245.57	-20.27	-4,190.86	-6,342.96	6,359.48	6,075.71	283.77	22.410		
7,600.00	7,194.95	7,129.95	7,194.95	39.71	247.18	-32.87	-4,190.86	-6,342.96	6,273.11	5,987.61	285.50	21.972		
7,700.00	7,227.43	7,162.43	7,227.43	40.01	248.32	-50.91	-4,190.86	-6,342.96	6,182.24	5,895.55	286.68	21.565		
7,800.00	7,245.37	7,180.37	7,245.37	40.37	248.94	-74.05	-4,190.86	-6,342.96	6,089.17	5,801.86	287.31	21.194		
7,900.00	7,248.84	7,183.84	7,248.84	40.87	249.06	-90.83	-4,190.86	-6,342.96	5,996.22	5,708.83	287.40	20.864		
8,000.00	7,248.24	7,183.24	7,248.24	41.62	249.04	-90.82	-4,190.86	-6,342.96	5,903.81	5,616.44	287.37	20.544		
8,100.00	7,247.65	7,182.65	7,247.65	42.66	249.02	-90.80	-4,190.86	-6,342.96	5,811.66	5,524.27	287.38	20.223		
8,200.00	7,247.05	7,182.05	7,247.05	43.96	249.00	-90.79	-4,190.86	-6,342.96	5,719.77	5,432.32	287.44	19.899		
8,300.00	7,246.46	7,181.46	7,246.46	45.46	248.98	-90.77	-4,190.86	-6,342.96	5,628.15	5,340.60	287.55	19.573		
8,400.00	7,245.86	7,180.86	7,245.86	47.13	248.96	-90.76	-4,190.86	-6,342.96	5,536.82	5,249.12	287.71	19.245		
8,500.00	7,245.27	7,180.27	7,245.27	48.93	248.94	-90.74	-4,190.86	-6,342.96	5,445.80	5,157.88	287.92	18.914		
8,600.00	7,244.67	7,179.67	7,244.67	50.84	248.92	-90.73	-4,190.86	-6,342.96	5,355.10	5,066.91	288.19	18.582		
8,700.00	7,244.07	7,179.07	7,244.07	52.85	248.90	-90.71	-4,190.86	-6,342.96	5,264.73	4,976.20	288.53	18.247		
8,800.00	7,243.48	7,178.48	7,243.48	54.94	248.88	-90.70	-4,190.86	-6,342.96	5,174.72	4,885.78	288.94	17.909		
8,900.00	7,242.88	7,177.88	7,242.88	57.10	248.86	-90.68	-4,190.86	-6,342.96	5,085.09	4,795.66	289.42	17.570		
9,000.00	7,242.29	7,177.29	7,242.29	59.32	248.84	-90.67	-4,190.86	-6,342.96	4,995.84	4,705.86	289.98	17.228		
9,100.00	7,241.69	7,176.69	7,241.69	61.60	248.81	-90.65	-4,190.86	-6,342.96	4,907.01	4,616.39	290.63	16.884		
9,200.00	7,241.09	7,176.09	7,241.09	63.92	248.79	-90.64	-4,190.86	-6,342.96	4,818.62	4,527.26	291.36	16.538		
9,300.00	7,240.50	7,175.50	7,240.50	66.29	248.77	-90.62	-4,190.86	-6,342.96	4,730.69	4,438.51	292.18	16.191		
9,400.00	7,239.90	7,174.90	7,239.90	68.70	248.75	-90.61	-4,190.86	-6,342.96	4,643.25	4,350.15	293.10	15.842		
9,500.00	7,239.31	7,174.31	7,239.31	71.14	248.73	-90.59	-4,190.86	-6,342.96	4,556.33	4,262.20	294.12	15.491		
9,600.00	7,238.71	7,173.71	7,238.71	73.61	248.71	-90.58	-4,190.86	-6,342.96	4,469.95	4,174.70	295.25	15.140		
9,700.00	7,238.11	7,173.11	7,238.11	76.11	248.69	-90.56	-4,190.86	-6,342.96	4,384.15	4,087.67	296.49	14.787		
9,800.00	7,237.52	7,172.52	7,237.52	78.64	248.67	-90.55	-4,190.86	-6,342.96	4,298.97	4,001.13	297.84	14.434		
9,900.00	7,236.92	7,171.92	7,236.92	81.19	248.65	-90.53	-4,190.86	-6,342.96	4,214.44	3,915.13	299.30	14.081		
10,000.00	7,236.33	7,171.33	7,236.33	83.75	248.63	-90.52	-4,190.86	-6,342.96	4,130.59	3,829.70	300.89	13.728		
10,100.00	7,235.73	7,170.73	7,235.73	86.34	248.61	-90.50	-4,190.86	-6,342.96	4,047.48	3,744.88	302.60	13.375		
10,200.00	7,235.14	7,170.14	7,235.14	88.94	248.59	-90.49	-4,190.86	-6,342.96	3,965.16	3,660.71	304.45	13.024		
10,300.00	7,234.54	7,169.54	7,234.54	91.56	248.57	-90.47	-4,190.86	-6,342.96	3,883.66	3,577.24	306.42	12.674		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	
10,400.00	7,233.94	7,168.94	7,233.94	94.19	248.54	-90.46	-4,190.86	-6,342.96	3,803.04	3,494.51	308.53	12.326	
10,500.00	7,233.35	7,168.35	7,233.35	96.84	248.52	-90.44	-4,190.86	-6,342.96	3,723.37	3,412.58	310.78	11.981	
10,600.00	7,232.75	7,167.75	7,232.75	99.50	248.50	-90.43	-4,190.86	-6,342.96	3,644.69	3,331.52	313.17	11.638	
10,700.00	7,232.16	7,167.16	7,232.16	102.17	248.48	-90.41	-4,190.86	-6,342.96	3,567.09	3,251.37	315.71	11.299	
10,800.00	7,231.56	7,166.56	7,231.56	104.85	248.46	-90.40	-4,190.86	-6,342.96	3,490.62	3,172.22	318.40	10.963	
10,900.00	7,230.96	7,165.96	7,230.96	107.53	248.44	-90.38	-4,190.86	-6,342.96	3,415.37	3,094.13	321.24	10.632	
11,000.00	7,230.37	7,165.37	7,230.37	110.23	248.42	-90.37	-4,190.86	-6,342.96	3,341.42	3,017.19	324.23	10.306	
11,100.00	7,229.77	7,164.77	7,229.77	112.93	248.40	-90.35	-4,190.86	-6,342.96	3,268.85	2,941.48	327.38	9.985	
11,200.00	7,229.18	7,164.18	7,229.18	115.65	248.38	-90.34	-4,190.86	-6,342.96	3,197.77	2,867.09	330.68	9.670	
11,300.00	7,228.58	7,163.58	7,228.58	118.37	248.36	-90.32	-4,190.86	-6,342.96	3,128.27	2,794.13	334.14	9.362	
11,400.00	7,227.99	7,162.99	7,227.99	121.09	248.34	-90.31	-4,190.86	-6,342.96	3,060.45	2,722.70	337.76	9.061	
11,500.00	7,227.39	7,162.39	7,227.39	123.82	248.32	-90.29	-4,190.86	-6,342.96	2,994.44	2,652.92	341.53	8.768	
11,600.00	7,226.79	7,161.79	7,226.79	126.56	248.29	-90.28	-4,190.86	-6,342.96	2,930.36	2,584.91	345.45	8.483	
11,700.00	7,226.20	7,161.20	7,226.20	129.30	248.27	-90.26	-4,190.86	-6,342.96	2,868.33	2,518.82	349.52	8.207	
11,800.00	7,225.60	7,160.60	7,225.60	132.05	248.25	-90.25	-4,190.86	-6,342.96	2,808.50	2,454.77	353.73	7.940	
11,900.00	7,225.01	7,160.01	7,225.01	134.80	248.23	-90.23	-4,190.86	-6,342.96	2,751.00	2,392.93	358.06	7.683	
12,000.00	7,224.41	7,159.41	7,224.41	137.56	248.21	-90.22	-4,190.86	-6,342.96	2,695.98	2,333.46	362.52	7.437	
12,100.00	7,223.81	7,158.81	7,223.81	140.32	248.19	-90.20	-4,190.86	-6,342.96	2,643.60	2,276.52	367.08	7.202	
12,200.00	7,223.22	7,158.22	7,223.22	143.08	248.17	-90.19	-4,190.86	-6,342.96	2,594.02	2,222.29	371.73	6.978	
12,300.00	7,222.62	7,157.62	7,222.62	145.85	248.15	-90.17	-4,190.86	-6,342.96	2,547.40	2,170.96	376.44	6.767	
12,400.00	7,222.03	7,157.03	7,222.03	148.62	248.13	-90.16	-4,190.86	-6,342.96	2,503.91	2,122.71	381.20	6.569	
12,500.00	7,221.43	7,156.43	7,221.43	151.40	248.11	-90.14	-4,190.86	-6,342.96	2,463.71	2,077.74	385.97	6.383	
12,600.00	7,220.83	7,155.83	7,220.83	154.18	248.09	-90.13	-4,190.86	-6,342.96	2,426.97	2,036.24	390.73	6.211	
12,700.00	7,220.24	7,155.24	7,220.24	156.96	248.07	-90.11	-4,190.86	-6,342.96	2,393.85	1,998.41	395.44	6.054	
12,800.00	7,219.64	7,154.64	7,219.64	159.74	248.05	-90.10	-4,190.86	-6,342.96	2,364.49	1,964.42	400.07	5.910	
12,900.00	7,219.05	7,154.05	7,219.05	162.53	248.02	-90.08	-4,190.86	-6,342.96	2,339.04	1,934.47	404.58	5.781	
13,000.00	7,218.45	7,153.45	7,218.45	165.32	248.00	-90.07	-4,190.86	-6,342.96	2,317.64	1,908.70	408.93	5.668	
13,100.00	7,217.86	7,152.86	7,217.86	168.11	247.98	-90.05	-4,190.86	-6,342.96	2,300.38	1,887.28	413.10	5.569	
13,200.00	7,217.26	7,152.26	7,217.26	170.90	247.96	-90.04	-4,190.86	-6,342.96	2,287.37	1,870.34	417.03	5.485	
13,300.00	7,216.66	7,151.66	7,216.66	173.70	247.94	-90.02	-4,190.86	-6,342.96	2,278.68	1,857.97	420.71	5.416	
13,400.00	7,216.07	7,151.07	7,216.07	176.49	247.92	-90.01	-4,190.86	-6,342.96	2,274.35	1,850.26	424.09	5.363	
13,448.46	7,215.78	7,150.78	7,215.78	177.85	247.91	-90.00	-4,190.86	-6,342.96	2,273.83	1,848.21	425.62	5.342 CC	
13,500.00	7,215.47	7,150.47	7,215.47	179.29	247.90	-89.99	-4,190.86	-6,342.96	2,274.42	1,847.25	427.17	5.324 ES	
13,600.00	7,214.88	7,149.88	7,214.88	182.09	247.88	-89.98	-4,190.86	-6,342.96	2,278.88	1,848.97	429.91	5.301	
13,700.00	7,214.28	7,149.28	7,214.28	184.90	247.86	-89.96	-4,190.86	-6,342.96	2,287.70	1,855.40	432.30	5.292 SF	
13,800.00	7,213.68	7,148.68	7,213.68	187.70	247.84	-89.95	-4,190.86	-6,342.96	2,300.85	1,866.50	434.35	5.297	
13,900.00	7,213.09	7,148.09	7,213.09	190.51	247.82	-89.93	-4,190.86	-6,342.96	2,318.23	1,882.19	436.04	5.317	
14,000.00	7,212.49	7,147.49	7,212.49	193.32	247.80	-89.92	-4,190.86	-6,342.96	2,339.77	1,902.38	437.39	5.349	
14,100.00	7,211.90	7,146.90	7,211.90	196.13	247.77	-89.90	-4,190.86	-6,342.96	2,365.33	1,926.93	438.40	5.395	
14,200.00	7,211.30	7,146.30	7,211.30	198.94	247.75	-89.89	-4,190.86	-6,342.96	2,394.81	1,955.71	439.10	5.454	
14,300.00	7,210.71	7,145.71	7,210.71	201.75	247.73	-89.87	-4,190.86	-6,342.96	2,428.05	1,988.56	439.49	5.525	
14,400.00	7,210.11	7,145.11	7,210.11	204.56	247.71	-89.86	-4,190.86	-6,342.96	2,464.90	2,025.30	439.60	5.607	
14,500.00	7,209.51	7,144.51	7,209.51	207.38	247.69	-89.84	-4,190.86	-6,342.96	2,505.20	2,065.74	439.45	5.701	
14,600.00	7,208.92	7,143.92	7,208.92	210.19	247.67	-89.83	-4,190.86	-6,342.96	2,548.79	2,109.71	439.08	5.805	
14,700.00	7,208.32	7,143.32	7,208.32	213.01	247.65	-89.81	-4,190.86	-6,342.96	2,595.50	2,157.00	438.50	5.919	
14,800.00	7,207.73	7,142.73	7,207.73	215.83	247.63	-89.80	-4,190.86	-6,342.96	2,645.17	2,207.44	437.73	6.043	
14,900.00	7,207.13	7,142.13	7,207.13	218.65	247.61	-89.78	-4,190.86	-6,342.96	2,697.63	2,260.82	436.81	6.176	
15,000.00	7,206.53	7,141.53	7,206.53	221.47	247.59	-89.77	-4,190.86	-6,342.96	2,752.73	2,316.98	435.75	6.317	
15,100.00	7,205.94	7,140.94	7,205.94	224.29	247.57	-89.75	-4,190.86	-6,342.96	2,810.30	2,375.73	434.58	6.467	
15,200.00	7,205.34	7,140.34	7,205.34	227.11	247.55	-89.74	-4,190.86	-6,342.96	2,870.21	2,436.90	433.31	6.624	
15,258.04	7,205.00	7,140.00	7,205.00	228.75	247.53	-89.73	-4,190.86	-6,342.96	2,905.99	2,473.46	432.53	6.719	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	18.00	3.28	3.28	-67.69	2,608.17	-6,355.40	6,869.78				
100.00	100.00	82.00	100.00	3.28	3.58	-67.69	2,608.17	-6,355.40	6,869.76	6,862.90	6.86	1,000.926	
200.00	200.00	182.00	200.00	3.34	5.66	-67.69	2,608.17	-6,355.40	6,869.76	6,860.77	8.99	763.877	
300.00	299.98	281.98	299.98	3.44	8.74	107.56	2,608.17	-6,355.40	6,870.29	6,858.11	12.18	564.211	
400.00	399.84	381.84	399.84	3.59	12.04	107.57	2,608.17	-6,355.40	6,871.87	6,856.24	15.63	439.700	
500.00	499.45	481.45	499.45	3.79	15.42	107.59	2,608.17	-6,355.40	6,874.51	6,855.31	19.20	358.015	
600.00	598.70	580.70	598.70	4.03	18.81	107.62	2,608.17	-6,355.40	6,878.22	6,855.38	22.84	301.088	
700.00	697.47	679.47	697.47	4.31	22.22	107.65	2,608.17	-6,355.40	6,883.02	6,856.48	26.53	259.423	
800.00	795.62	777.62	795.62	4.64	25.61	107.69	2,608.17	-6,355.40	6,888.91	6,858.66	30.25	227.742	
900.00	893.06	875.06	893.06	5.00	28.99	107.73	2,608.17	-6,355.40	6,895.91	6,861.93	33.98	202.916	
1,000.00	989.65	971.65	989.65	5.40	32.34	107.78	2,608.17	-6,355.40	6,904.05	6,866.32	37.73	182.986	
1,100.00	1,085.85	1,067.85	1,085.85	5.82	35.68	107.99	2,608.17	-6,355.40	6,912.73	6,871.23	41.49	166.605	
1,200.00	1,182.06	1,164.06	1,182.06	6.27	39.03	108.20	2,608.17	-6,355.40	6,921.50	6,876.22	45.28	152.874	
1,300.00	1,278.26	1,260.26	1,278.26	6.73	42.38	108.40	2,608.17	-6,355.40	6,930.37	6,881.29	49.08	141.213	
1,400.00	1,374.47	1,356.47	1,374.47	7.20	45.73	108.61	2,608.17	-6,355.40	6,939.34	6,886.45	52.89	131.195	
1,500.00	1,470.67	1,452.67	1,470.67	7.69	49.08	108.82	2,608.17	-6,355.40	6,948.40	6,891.68	56.72	122.503	
1,600.00	1,566.88	1,548.88	1,566.88	8.18	52.43	109.02	2,608.17	-6,355.40	6,957.56	6,897.00	60.56	114.893	
1,700.00	1,663.08	1,645.08	1,663.08	8.68	55.78	109.23	2,608.17	-6,355.40	6,966.81	6,902.41	64.40	108.179	
1,800.00	1,759.29	1,741.29	1,759.29	9.19	59.13	109.43	2,608.17	-6,355.40	6,976.16	6,907.91	68.25	102.213	
1,900.00	1,855.49	1,837.49	1,855.49	9.70	62.49	109.64	2,608.17	-6,355.40	6,985.60	6,913.49	72.11	96.878	
2,000.00	1,951.70	1,933.70	1,951.70	10.22	65.84	109.84	2,608.17	-6,355.40	6,995.13	6,919.17	75.97	92.081	
2,100.00	2,047.90	2,029.90	2,047.90	10.73	69.20	110.04	2,608.17	-6,355.40	7,004.76	6,924.93	79.83	87.744	
2,200.00	2,144.11	2,126.11	2,144.11	11.26	72.55	110.24	2,608.17	-6,355.40	7,014.48	6,930.79	83.70	83.806	
2,300.00	2,240.31	2,222.31	2,240.31	11.78	75.91	110.45	2,608.17	-6,355.40	7,024.30	6,936.73	87.57	80.215	
2,400.00	2,336.52	2,318.52	2,336.52	12.31	79.26	110.65	2,608.17	-6,355.40	7,034.20	6,942.76	91.44	76.926	
2,500.00	2,432.72	2,414.72	2,432.72	12.84	82.62	110.85	2,608.17	-6,355.40	7,044.20	6,948.89	95.32	73.904	
2,600.00	2,528.93	2,510.93	2,528.93	13.37	85.97	111.05	2,608.17	-6,355.40	7,054.29	6,955.10	99.19	71.118	
2,700.00	2,625.13	2,607.13	2,625.13	13.91	89.33	111.25	2,608.17	-6,355.40	7,064.47	6,961.40	103.07	68.541	
2,800.00	2,721.34	2,703.34	2,721.34	14.44	92.69	111.45	2,608.17	-6,355.40	7,074.74	6,967.79	106.95	66.151	
2,900.00	2,817.54	2,800.46	2,817.54	14.98	96.07	111.65	2,608.17	-6,355.40	7,085.10	6,974.24	110.86	63.911	
3,000.00	2,913.75	2,904.25	2,913.75	15.52	99.70	111.84	2,608.17	-6,355.40	7,095.55	6,980.55	115.01	61.698	
3,100.00	3,009.95	3,008.05	3,009.95	16.06	103.32	112.04	2,608.17	-6,355.40	7,106.09	6,986.94	119.15	59.639	
3,200.00	3,106.16	3,088.16	3,106.16	16.60	106.11	112.24	2,608.17	-6,355.40	7,116.72	6,994.25	122.47	58.109	
3,300.00	3,202.37	3,184.37	3,202.37	17.14	109.47	112.44	2,608.17	-6,355.40	7,127.44	7,001.08	126.36	56.408	
3,400.00	3,298.57	3,280.57	3,298.57	17.68	112.83	112.63	2,608.17	-6,355.40	7,138.24	7,008.01	130.24	54.809	
3,500.00	3,394.78	3,376.78	3,394.78	18.22	116.18	112.83	2,608.17	-6,355.40	7,149.14	7,015.02	134.12	53.303	
3,600.00	3,490.98	3,472.98	3,490.98	18.76	119.54	113.02	2,608.17	-6,355.40	7,160.12	7,022.11	138.01	51.882	
3,700.00	3,587.19	3,569.19	3,587.19	19.31	122.90	113.22	2,608.17	-6,355.40	7,171.19	7,029.30	141.89	50.540	
3,800.00	3,683.39	3,665.39	3,683.39	19.85	126.26	113.41	2,608.17	-6,355.40	7,182.34	7,036.57	145.78	49.269	
3,900.00	3,779.60	3,761.60	3,779.60	20.39	129.61	113.60	2,608.17	-6,355.40	7,193.58	7,043.92	149.66	48.066	
4,000.00	3,875.80	3,857.80	3,875.80	20.94	132.97	113.80	2,608.17	-6,355.40	7,204.91	7,051.36	153.55	46.923	
4,100.00	3,972.01	3,954.01	3,972.01	21.48	136.33	113.99	2,608.17	-6,355.40	7,216.32	7,058.89	157.43	45.838	
4,200.00	4,068.21	4,050.21	4,068.21	22.03	139.69	114.18	2,608.17	-6,355.40	7,227.82	7,066.50	161.32	44.805	
4,300.00	4,164.42	4,146.42	4,164.42	22.57	143.04	114.37	2,608.17	-6,355.40	7,239.40	7,074.20	165.20	43.821	
4,400.00	4,260.62	4,242.62	4,260.62	23.12	146.40	114.56	2,608.17	-6,355.40	7,251.07	7,081.98	169.09	42.883	
4,500.00	4,356.83	4,338.83	4,356.83	23.67	149.76	114.75	2,608.17	-6,355.40	7,262.82	7,089.84	172.97	41.988	
4,600.00	4,453.03	4,435.03	4,453.03	24.21	153.12	114.94	2,608.17	-6,355.40	7,274.65	7,097.79	176.86	41.132	
4,700.00	4,549.24	4,531.24	4,549.24	24.76	156.47	115.13	2,608.17	-6,355.40	7,286.57	7,105.82	180.74	40.314	
4,800.00	4,645.44	4,627.44	4,645.44	25.31	159.83	115.32	2,608.17	-6,355.40	7,298.56	7,113.93	184.63	39.531	
4,900.00	4,741.65	4,723.65	4,741.65	25.86	163.19	115.50	2,608.17	-6,355.40	7,310.64	7,122.13	188.52	38.780	
5,000.00	4,837.85	4,819.85	4,837.85	26.40	166.55	115.69	2,608.17	-6,355.40	7,322.81	7,130.41	192.40	38.060	
5,100.00	4,934.06	4,916.06	4,934.06	26.95	169.91	115.88	2,608.17	-6,355.40	7,335.05	7,138.77	196.29	37.369	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,012.26	5,030.26	27.50	173.26	116.06	2,608.17	-6,355.40	7,347.38	7,147.21	200.17	36.706		
5,300.00	5,126.47	5,108.47	5,126.47	28.05	176.62	116.25	2,608.17	-6,355.40	7,359.78	7,155.73	204.05	36.068		
5,400.00	5,222.67	5,204.67	5,222.67	28.60	179.98	116.43	2,608.17	-6,355.40	7,372.27	7,164.33	207.94	35.454		
5,500.00	5,318.88	5,300.88	5,318.88	29.15	183.34	116.61	2,608.17	-6,355.40	7,384.83	7,173.01	211.82	34.863		
5,600.00	5,415.08	5,402.92	5,415.08	29.70	186.90	116.80	2,608.17	-6,355.40	7,397.48	7,181.57	215.91	34.262		
5,700.00	5,511.29	5,506.71	5,511.29	30.25	190.52	116.98	2,608.17	-6,355.40	7,410.20	7,190.14	220.06	33.674		
5,800.00	5,607.49	5,589.49	5,607.49	30.79	193.41	117.16	2,608.17	-6,355.40	7,423.00	7,199.53	223.47	33.216		
5,900.00	5,703.70	5,685.70	5,703.70	31.34	196.77	117.34	2,608.17	-6,355.40	7,435.88	7,208.52	227.36	32.706		
6,000.00	5,799.90	5,781.90	5,799.90	31.89	200.13	117.52	2,608.17	-6,355.40	7,448.84	7,217.60	231.24	32.212		
6,100.00	5,896.11	5,878.11	5,896.11	32.44	203.49	117.71	2,608.17	-6,355.40	7,461.87	7,226.75	235.12	31.736		
6,200.00	5,992.32	5,974.32	5,992.32	32.99	206.84	117.88	2,608.17	-6,355.40	7,474.99	7,235.98	239.01	31.275		
6,300.00	6,088.52	6,070.52	6,088.52	33.54	210.20	118.06	2,608.17	-6,355.40	7,488.17	7,245.28	242.89	30.830		
6,400.00	6,184.73	6,166.73	6,184.73	34.09	213.56	118.24	2,608.17	-6,355.40	7,501.44	7,254.67	246.77	30.398		
6,500.00	6,280.93	6,262.93	6,280.93	34.64	216.92	118.42	2,608.17	-6,355.40	7,514.78	7,264.12	250.65	29.981		
6,600.00	6,377.14	6,359.14	6,377.14	35.19	220.28	118.60	2,608.17	-6,355.40	7,528.19	7,273.66	254.53	29.576		
6,700.00	6,473.34	6,455.34	6,473.34	35.74	223.63	118.77	2,608.17	-6,355.40	7,541.68	7,283.27	258.42	29.184		
6,800.00	6,569.55	6,551.55	6,569.55	36.29	226.99	118.95	2,608.17	-6,355.40	7,555.25	7,292.95	262.30	28.804		
6,900.00	6,665.75	6,647.75	6,665.75	36.84	230.35	119.13	2,608.17	-6,355.40	7,568.74	7,302.57	266.18	28.435		
7,000.00	6,761.11	6,743.11	6,761.11	37.39	233.68	119.31	2,608.17	-6,355.40	7,582.23	7,312.19	270.06	28.066		
7,100.00	6,857.31	6,839.31	6,857.31	37.94	237.00	119.49	2,608.17	-6,355.40	7,595.72	7,321.81	273.94	27.697		
7,200.00	6,953.52	6,935.52	6,953.52	38.49	240.32	119.67	2,608.17	-6,355.40	7,609.21	7,331.43	277.82	27.328		
7,300.00	7,049.72	7,031.72	7,049.72	39.04	243.64	119.85	2,608.17	-6,355.40	7,622.70	7,341.05	281.70	26.959		
7,400.00	7,145.93	7,127.93	7,145.93	39.59	246.96	120.03	2,608.17	-6,355.40	7,636.19	7,350.67	285.58	26.590		
7,500.00	7,242.13	7,224.13	7,242.13	40.14	250.28	120.21	2,608.17	-6,355.40	7,649.68	7,360.29	289.46	26.221		
7,600.00	7,338.34	7,320.34	7,338.34	40.69	253.60	120.39	2,608.17	-6,355.40	7,663.17	7,369.91	293.34	25.852		
7,700.00	7,434.54	7,416.54	7,434.54	41.24	256.92	120.57	2,608.17	-6,355.40	7,676.66	7,379.53	297.22	25.483		
7,800.00	7,530.75	7,512.75	7,530.75	41.79	260.24	120.75	2,608.17	-6,355.40	7,690.15	7,389.15	301.10	25.114		
7,900.00	7,626.95	7,608.95	7,626.95	42.34	263.56	120.93	2,608.17	-6,355.40	7,703.64	7,398.77	304.98	24.745		
8,000.00	7,723.16	7,705.16	7,723.16	42.89	266.88	121.11	2,608.17	-6,355.40	7,717.13	7,408.39	308.86	24.376		
8,100.00	7,819.36	7,801.36	7,819.36	43.44	270.20	121.29	2,608.17	-6,355.40	7,730.62	7,418.01	312.74	24.007		
8,200.00	7,915.57	7,897.57	7,915.57	43.99	273.52	121.47	2,608.17	-6,355.40	7,744.11	7,427.63	316.62	23.638		
8,300.00	8,011.77	8,000.00	8,011.77	44.54	276.84	121.65	2,608.17	-6,355.40	7,757.60	7,437.25	320.50	23.269		
8,400.00	8,107.98	8,096.21	8,107.98	45.09	280.16	121.83	2,608.17	-6,355.40	7,771.09	7,446.87	324.38	22.900		
8,500.00	8,204.18	8,192.41	8,204.18	45.64	283.48	122.01	2,608.17	-6,355.40	7,784.58	7,456.49	328.26	22.531		
8,600.00	8,300.39	8,288.62	8,300.39	46.19	286.80	122.19	2,608.17	-6,355.40	7,798.07	7,466.11	332.14	22.162		
8,700.00	8,396.59	8,384.82	8,396.59	46.74	290.12	122.37	2,608.17	-6,355.40	7,811.56	7,475.73	336.02	21.793		
8,800.00	8,492.80	8,481.03	8,492.80	47.29	293.44	122.55	2,608.17	-6,355.40	7,825.05	7,485.35	339.90	21.424		
8,900.00	8,588.99	8,577.22	8,588.99	47.84	296.76	122.73	2,608.17	-6,355.40	7,838.54	7,494.97	343.78	21.055		
9,000.00	8,685.20	8,673.43	8,685.20	48.39	300.08	122.91	2,608.17	-6,355.40	7,852.03	7,504.59	347.66	20.686		
9,100.00	8,781.40	8,769.63	8,781.40	48.94	303.40	123.09	2,608.17	-6,355.40	7,865.52	7,514.21	351.54	20.317		
9,200.00	8,877.61	8,865.84	8,877.61	49.49	306.72	123.27	2,608.17	-6,355.40	7,879.01	7,523.83	355.42	19.948		
9,300.00	8,973.81	8,962.04	8,973.81	50.04	310.04	123.45	2,608.17	-6,355.40	7,892.50	7,533.45	359.30	19.579		
9,400.00	9,070.02	9,058.25	9,070.02	50.59	313.36	123.63	2,608.17	-6,355.40	7,906.00	7,543.07	363.18	19.210		
9,500.00	9,166.22	9,154.45	9,166.22	51.14	316.68	123.81	2,608.17	-6,355.40	7,919.49	7,552.69	367.06	18.841		
9,600.00	9,262.43	9,250.66	9,262.43	51.69	320.00	123.99	2,608.17	-6,355.40	7,932.98	7,562.31	370.94	18.472		
9,700.00	9,358.63	9,346.86	9,358.63	52.24	323.32	124.17	2,608.17	-6,355.40	7,946.47	7,571.93	374.82	18.103		
9,800.00	9,454.84	9,443.07	9,454.84	52.79	326.64	124.35	2,608.17	-6,355.40	7,959.96	7,581.55	378.70	17.734		
9,900.00	9,551.04	9,539.27	9,551.04	53.34	330.00	124.53	2,608.17	-6,355.40	7,973.45	7,591.17	382.58	17.365		
10,000.00	9,647.25	9,635.48	9,647.25	53.89	333.32	124.71	2,608.17	-6,355.40	7,986.94	7,600.79	386.46	16.996		
10,100.00	9,743.45	9,731.68	9,743.45	54.44	336.64	124.89	2,608.17	-6,355.40	7,999.43	7,610.41	390.34	16.627		
10,200.00	9,839.66	9,827.89	9,839.66	54.99	340.00	125.07	2,608.17	-6,355.40	8,012.92	7,620.03	394.22	16.258		
10,300.00	9,935.86	9,924.09	9,935.86	55.54	343.32	125.25	2,608.17	-6,355.40	8,026.41	7,629.65	398.10	15.889		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,215.94	7,233.94	94.19	250.19	90.23	2,608.17	-6,355.40	5,440.99	5,106.15	334.84	16.250		
10,500.00	7,233.35	7,215.35	7,233.35	96.84	250.16	90.22	2,608.17	-6,355.40	5,386.11	5,048.56	337.55	15.957		
10,600.00	7,232.75	7,214.75	7,232.75	99.50	250.14	90.21	2,608.17	-6,355.40	5,332.53	4,992.22	340.32	15.669		
10,700.00	7,232.16	7,214.16	7,232.16	102.17	250.12	90.21	2,608.17	-6,355.40	5,280.31	4,937.17	343.14	15.388		
10,800.00	7,231.56	7,213.56	7,231.56	104.85	250.10	90.20	2,608.17	-6,355.40	5,229.48	4,883.46	346.02	15.113		
10,900.00	7,230.96	7,212.96	7,230.96	107.53	250.08	90.19	2,608.17	-6,355.40	5,180.08	4,831.13	348.95	14.845		
11,000.00	7,230.37	7,212.37	7,230.37	110.23	250.06	90.18	2,608.17	-6,355.40	5,132.16	4,780.23	351.93	14.583		
11,100.00	7,229.77	7,211.77	7,229.77	112.93	250.04	90.18	2,608.17	-6,355.40	5,085.74	4,730.79	354.95	14.328		
11,200.00	7,229.18	7,211.18	7,229.18	115.65	250.02	90.17	2,608.17	-6,355.40	5,040.89	4,682.88	358.01	14.080		
11,300.00	7,228.58	7,210.58	7,228.58	118.37	250.00	90.16	2,608.17	-6,355.40	4,997.63	4,636.52	361.11	13.840		
11,400.00	7,227.99	7,209.99	7,227.99	121.09	249.98	90.15	2,608.17	-6,355.40	4,956.02	4,591.77	364.24	13.606		
11,500.00	7,227.39	7,209.39	7,227.39	123.82	249.96	90.14	2,608.17	-6,355.40	4,916.08	4,548.68	367.41	13.381		
11,600.00	7,226.79	7,208.79	7,226.79	126.56	249.94	90.14	2,608.17	-6,355.40	4,877.87	4,507.28	370.59	13.162		
11,700.00	7,226.20	7,208.20	7,226.20	129.30	249.91	90.13	2,608.17	-6,355.40	4,841.43	4,467.63	373.80	12.952		
11,800.00	7,225.60	7,207.60	7,225.60	132.05	249.89	90.12	2,608.17	-6,355.40	4,806.79	4,429.77	377.02	12.750		
11,900.00	7,225.01	7,207.01	7,225.01	134.80	249.87	90.11	2,608.17	-6,355.40	4,773.99	4,393.74	380.24	12.555		
12,000.00	7,224.41	7,206.41	7,224.41	137.56	249.85	90.11	2,608.17	-6,355.40	4,743.07	4,359.60	383.48	12.369		
12,100.00	7,223.81	7,205.81	7,223.81	140.32	249.83	90.10	2,608.17	-6,355.40	4,714.08	4,327.37	386.71	12.190		
12,200.00	7,223.22	7,205.22	7,223.22	143.08	249.81	90.09	2,608.17	-6,355.40	4,687.03	4,297.10	389.93	12.020		
12,300.00	7,222.62	7,204.62	7,222.62	145.85	249.79	90.08	2,608.17	-6,355.40	4,661.98	4,268.83	393.15	11.858		
12,400.00	7,222.03	7,204.03	7,222.03	148.62	249.77	90.08	2,608.17	-6,355.40	4,638.95	4,242.61	396.34	11.704		
12,500.00	7,221.43	7,203.43	7,221.43	151.40	249.75	90.07	2,608.17	-6,355.40	4,617.96	4,218.45	399.51	11.559		
12,600.00	7,220.83	7,202.83	7,220.83	154.18	249.73	90.06	2,608.17	-6,355.40	4,599.06	4,196.41	402.65	11.422		
12,700.00	7,220.24	7,202.24	7,220.24	156.96	249.71	90.05	2,608.17	-6,355.40	4,582.26	4,176.51	405.75	11.293		
12,800.00	7,219.64	7,201.64	7,219.64	159.74	249.69	90.05	2,608.17	-6,355.40	4,567.59	4,158.78	408.81	11.173		
12,900.00	7,219.05	7,201.05	7,219.05	162.53	249.67	90.04	2,608.17	-6,355.40	4,555.07	4,143.25	411.82	11.061		
13,000.00	7,218.45	7,200.45	7,218.45	165.32	249.64	90.03	2,608.17	-6,355.40	4,544.71	4,129.94	414.77	10.957		
13,100.00	7,217.86	7,200.14	7,217.86	168.11	249.63	90.02	2,608.17	-6,355.40	4,536.54	4,118.86	417.68	10.861		
13,200.00	7,217.26	7,200.74	7,217.26	170.90	249.65	90.02	2,608.17	-6,355.40	4,530.55	4,110.00	420.55	10.773		
13,300.00	7,216.66	7,201.34	7,216.66	173.70	249.68	90.01	2,608.17	-6,355.40	4,526.77	4,103.42	423.35	10.693		
13,400.00	7,216.07	7,201.93	7,216.07	176.49	249.70	90.00	2,608.17	-6,355.40	4,525.20	4,099.12	426.08	10.621		
13,421.21	7,215.94	7,202.06	7,215.94	177.09	249.70	90.00	2,608.17	-6,355.40	4,525.15	4,098.50	426.65	10.606 CC		
13,500.00	7,215.47	7,202.53	7,215.47	179.29	249.72	89.99	2,608.17	-6,355.40	4,525.84	4,097.11	428.73	10.556 ES		
13,600.00	7,214.88	7,203.12	7,214.88	182.09	249.74	89.99	2,608.17	-6,355.40	4,528.68	4,097.39	431.30	10.500		
13,700.00	7,214.28	7,203.72	7,214.28	184.90	249.76	89.98	2,608.17	-6,355.40	4,533.73	4,099.96	433.78	10.452		
13,800.00	7,213.68	7,204.32	7,213.68	187.70	249.78	89.97	2,608.17	-6,355.40	4,540.98	4,104.81	436.16	10.411		
13,900.00	7,213.09	7,204.91	7,213.09	190.51	249.80	89.96	2,608.17	-6,355.40	4,550.41	4,111.95	438.46	10.378		
14,000.00	7,212.49	7,205.51	7,212.49	193.32	249.82	89.96	2,608.17	-6,355.40	4,562.02	4,121.35	440.66	10.353		
14,100.00	7,211.90	7,206.10	7,211.90	196.13	249.84	89.95	2,608.17	-6,355.40	4,575.78	4,133.01	442.77	10.335		
14,200.00	7,211.30	7,206.70	7,211.30	198.94	249.86	89.94	2,608.17	-6,355.40	4,591.68	4,146.90	444.77	10.324		
14,300.00	7,210.71	7,207.30	7,210.71	201.75	249.88	89.93	2,608.17	-6,355.40	4,609.69	4,163.01	446.68	10.320 SF		
14,400.00	7,210.11	7,207.89	7,210.11	204.56	249.90	89.93	2,608.17	-6,355.40	4,629.79	4,181.31	448.49	10.323		
14,500.00	7,209.51	7,208.49	7,209.51	207.38	249.92	89.92	2,608.17	-6,355.40	4,651.96	4,201.77	450.19	10.333		
14,600.00	7,208.92	7,208.08	7,208.92	210.19	249.95	89.91	2,608.17	-6,355.40	4,676.16	4,224.36	451.80	10.350		
14,700.00	7,208.32	7,209.68	7,208.32	213.01	249.97	89.90	2,608.17	-6,355.40	4,702.37	4,249.06	453.31	10.373		
14,800.00	7,207.73	7,189.73	7,207.73	215.83	249.27	89.90	2,608.17	-6,355.40	4,730.54	4,276.54	454.00	10.420		
14,900.00	7,207.13	7,189.13	7,207.13	218.65	249.25	89.89	2,608.17	-6,355.40	4,760.65	4,305.37	455.27	10.457		
15,000.00	7,206.53	7,188.53	7,206.53	221.47	249.23	89.88	2,608.17	-6,355.40	4,792.65	4,336.20	456.45	10.500		
15,100.00	7,205.94	7,187.94	7,205.94	224.29	249.21	89.87	2,608.17	-6,355.40	4,826.51	4,368.98	457.54	10.549		
15,200.00	7,205.34	7,187.34	7,205.34	227.11	249.19	89.87	2,608.17	-6,355.40	4,862.20	4,403.67	458.53	10.604		
15,258.04	7,205.00	7,187.00	7,205.00	228.75	249.17	89.86	2,608.17	-6,355.40	4,883.73	4,424.66	459.07	10.638		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	15.00	3.28	3.28	-72.05	2,543.02	-7,851.66	8,253.22				
100.00	100.00	85.00	100.00	3.28	3.60	-72.05	2,543.02	-7,851.66	8,253.21	8,246.33	6.88	1,198.781	
200.00	200.00	185.00	200.00	3.34	5.74	-72.05	2,543.02	-7,851.66	8,253.21	8,244.13	9.08	909.051	
300.00	299.98	284.98	299.98	3.44	8.83	103.20	2,543.02	-7,851.66	8,253.61	8,241.33	12.27	672.450	
400.00	399.84	384.84	399.84	3.59	12.14	103.21	2,543.02	-7,851.66	8,254.81	8,239.08	15.73	524.808	
500.00	499.45	484.45	499.45	3.79	15.52	103.23	2,543.02	-7,851.66	8,256.81	8,237.50	19.30	427.729	
600.00	598.70	583.70	598.70	4.03	18.92	103.26	2,543.02	-7,851.66	8,259.62	8,236.67	22.95	359.936	
700.00	697.47	682.47	697.47	4.31	22.32	103.29	2,543.02	-7,851.66	8,263.25	8,236.62	26.64	310.234	
800.00	795.62	780.62	795.62	4.64	25.72	103.33	2,543.02	-7,851.66	8,267.72	8,237.37	30.35	272.383	
900.00	893.06	878.06	893.06	5.00	29.09	103.37	2,543.02	-7,851.66	8,273.05	8,238.96	34.09	242.683	
1,000.00	989.65	974.65	989.65	5.40	32.45	103.43	2,543.02	-7,851.66	8,279.24	8,241.40	37.84	218.813	
1,100.00	1,085.85	1,070.85	1,085.85	5.82	35.79	103.61	2,543.02	-7,851.66	8,285.86	8,244.25	41.60	199.171	
1,200.00	1,182.06	1,167.06	1,182.06	6.27	39.13	103.78	2,543.02	-7,851.66	8,292.56	8,247.17	45.39	182.701	
1,300.00	1,278.26	1,263.26	1,278.26	6.73	42.48	103.96	2,543.02	-7,851.66	8,299.34	8,250.15	49.19	168.708	
1,400.00	1,374.47	1,359.47	1,374.47	7.20	45.83	104.14	2,543.02	-7,851.66	8,306.21	8,253.20	53.01	156.684	
1,500.00	1,470.67	1,455.67	1,470.67	7.69	49.18	104.31	2,543.02	-7,851.66	8,313.16	8,256.32	56.84	146.248	
1,600.00	1,566.88	1,551.88	1,566.88	8.18	52.53	104.49	2,543.02	-7,851.66	8,320.20	8,259.52	60.68	137.109	
1,700.00	1,663.08	1,648.08	1,663.08	8.68	55.89	104.66	2,543.02	-7,851.66	8,327.32	8,262.79	64.53	129.044	
1,800.00	1,759.29	1,744.29	1,759.29	9.19	59.24	104.84	2,543.02	-7,851.66	8,334.52	8,266.14	68.38	121.877	
1,900.00	1,855.49	1,840.49	1,855.49	9.70	62.59	105.01	2,543.02	-7,851.66	8,341.81	8,269.56	72.24	115.466	
2,000.00	1,951.70	1,936.70	1,951.70	10.22	65.95	105.19	2,543.02	-7,851.66	8,349.18	8,273.07	76.11	109.700	
2,100.00	2,047.90	2,032.90	2,047.90	10.73	69.30	105.36	2,543.02	-7,851.66	8,356.63	8,276.65	79.98	104.488	
2,200.00	2,144.11	2,129.11	2,144.11	11.26	72.66	105.54	2,543.02	-7,851.66	8,364.16	8,280.31	83.85	99.753	
2,300.00	2,240.31	2,225.31	2,240.31	11.78	76.01	105.71	2,543.02	-7,851.66	8,371.78	8,284.06	87.72	95.435	
2,400.00	2,336.52	2,321.52	2,336.52	12.31	79.37	105.88	2,543.02	-7,851.66	8,379.48	8,287.88	91.60	91.480	
2,500.00	2,432.72	2,417.72	2,432.72	12.84	82.72	106.06	2,543.02	-7,851.66	8,387.26	8,291.78	95.48	87.845	
2,600.00	2,528.93	2,513.93	2,528.93	13.37	86.08	106.23	2,543.02	-7,851.66	8,395.12	8,295.76	99.36	84.493	
2,700.00	2,625.13	2,610.13	2,625.13	13.91	89.43	106.40	2,543.02	-7,851.66	8,403.06	8,299.82	103.24	81.393	
2,800.00	2,721.34	2,706.34	2,721.34	14.44	92.79	106.57	2,543.02	-7,851.66	8,411.08	8,303.96	107.12	78.517	
2,900.00	2,817.54	2,802.54	2,817.54	14.98	96.15	106.74	2,543.02	-7,851.66	8,419.19	8,308.18	111.01	75.842	
3,000.00	2,913.75	2,901.25	2,913.75	15.52	99.59	106.92	2,543.02	-7,851.66	8,427.37	8,312.39	114.98	73.293	
3,100.00	3,009.95	3,005.05	3,009.95	16.06	103.21	107.09	2,543.02	-7,851.66	8,435.64	8,316.50	119.13	70.808	
3,200.00	3,106.16	3,108.84	3,106.16	16.60	106.83	107.26	2,543.02	-7,851.66	8,443.98	8,320.70	123.29	68.491	
3,300.00	3,202.37	3,187.37	3,202.37	17.14	109.57	107.43	2,543.02	-7,851.66	8,452.41	8,325.85	126.56	66.787	
3,400.00	3,298.57	3,283.57	3,298.57	17.68	112.93	107.60	2,543.02	-7,851.66	8,460.91	8,330.47	130.45	64.861	
3,500.00	3,394.78	3,379.78	3,394.78	18.22	116.29	107.77	2,543.02	-7,851.66	8,469.50	8,335.16	134.34	63.047	
3,600.00	3,490.98	3,475.98	3,490.98	18.76	119.65	107.94	2,543.02	-7,851.66	8,478.16	8,339.93	138.23	61.336	
3,700.00	3,587.19	3,572.19	3,587.19	19.31	123.00	108.11	2,543.02	-7,851.66	8,486.90	8,344.79	142.12	59.718	
3,800.00	3,683.39	3,668.39	3,683.39	19.85	126.36	108.28	2,543.02	-7,851.66	8,495.72	8,349.72	146.01	58.187	
3,900.00	3,779.60	3,764.60	3,779.60	20.39	129.72	108.45	2,543.02	-7,851.66	8,504.62	8,354.72	149.90	56.736	
4,000.00	3,875.80	3,860.80	3,875.80	20.94	133.08	108.61	2,543.02	-7,851.66	8,513.60	8,359.81	153.79	55.359	
4,100.00	3,972.01	3,957.01	3,972.01	21.48	136.43	108.78	2,543.02	-7,851.66	8,522.65	8,364.97	157.68	54.050	
4,200.00	4,068.21	4,053.21	4,068.21	22.03	139.79	108.95	2,543.02	-7,851.66	8,531.79	8,370.21	161.57	52.805	
4,300.00	4,164.42	4,149.42	4,164.42	22.57	143.15	109.12	2,543.02	-7,851.66	8,541.00	8,375.53	165.46	51.619	
4,400.00	4,260.62	4,245.62	4,260.62	23.12	146.51	109.28	2,543.02	-7,851.66	8,550.28	8,380.93	169.36	50.487	
4,500.00	4,356.83	4,341.83	4,356.83	23.67	149.86	109.45	2,543.02	-7,851.66	8,559.65	8,386.40	173.25	49.407	
4,600.00	4,453.03	4,438.03	4,453.03	24.21	153.22	109.62	2,543.02	-7,851.66	8,569.09	8,391.95	177.14	48.375	
4,700.00	4,549.24	4,534.24	4,549.24	24.76	156.58	109.78	2,543.02	-7,851.66	8,578.61	8,397.58	181.03	47.388	
4,800.00	4,645.44	4,630.44	4,645.44	25.31	159.94	109.95	2,543.02	-7,851.66	8,588.20	8,403.28	184.92	46.442	
4,900.00	4,741.65	4,726.65	4,741.65	25.86	163.30	110.11	2,543.02	-7,851.66	8,597.87	8,409.06	188.81	45.536	
5,000.00	4,837.85	4,822.85	4,837.85	26.40	166.65	110.28	2,543.02	-7,851.66	8,607.62	8,414.91	192.71	44.667	
5,100.00	4,934.06	4,919.06	4,934.06	26.95	170.01	110.44	2,543.02	-7,851.66	8,617.44	8,420.84	196.60	43.833	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,200.00	5,030.26	5,015.26	5,030.26	27.50	173.37	110.61	2,543.02	-7,851.66	8,627.33	8,426.84	200.49	43.031		
5,300.00	5,126.47	5,111.47	5,126.47	28.05	176.73	110.77	2,543.02	-7,851.66	8,637.30	8,432.92	204.38	42.261		
5,400.00	5,222.67	5,207.67	5,222.67	28.60	180.08	110.93	2,543.02	-7,851.66	8,647.35	8,439.07	208.27	41.519		
5,500.00	5,318.88	5,303.88	5,318.88	29.15	183.44	111.10	2,543.02	-7,851.66	8,657.47	8,445.30	212.16	40.805		
5,600.00	5,415.08	5,400.08	5,415.08	29.70	186.80	111.26	2,543.02	-7,851.66	8,667.66	8,451.60	216.06	40.118		
5,700.00	5,511.29	5,503.71	5,511.29	30.25	190.42	111.42	2,543.02	-7,851.66	8,677.93	8,457.72	220.21	39.408		
5,800.00	5,607.49	5,607.51	5,607.49	30.79	194.04	111.58	2,543.02	-7,851.66	8,688.27	8,463.91	224.36	38.724		
5,900.00	5,703.70	5,688.70	5,703.70	31.34	196.87	111.75	2,543.02	-7,851.66	8,698.68	8,470.95	227.73	38.197		
6,000.00	5,799.90	5,784.90	5,799.90	31.89	200.23	111.91	2,543.02	-7,851.66	8,709.17	8,477.55	231.62	37.601		
6,100.00	5,896.11	5,881.11	5,896.11	32.44	203.59	112.07	2,543.02	-7,851.66	8,719.73	8,484.22	235.51	37.025		
6,200.00	5,992.32	5,977.32	5,992.32	32.99	206.95	112.23	2,543.02	-7,851.66	8,730.36	8,490.96	239.40	36.467		
6,300.00	6,088.52	6,073.52	6,088.52	33.54	210.31	112.39	2,543.02	-7,851.66	8,741.07	8,497.77	243.29	35.928		
6,400.00	6,184.73	6,169.73	6,184.73	34.09	213.67	112.55	2,543.02	-7,851.66	8,751.84	8,504.66	247.18	35.407		
6,500.00	6,280.93	6,265.93	6,280.93	34.64	217.02	112.71	2,543.02	-7,851.66	8,762.69	8,511.62	251.07	34.901		
6,600.00	6,377.14	6,362.14	6,377.14	35.19	220.38	112.87	2,543.02	-7,851.66	8,773.61	8,518.65	254.96	34.412		
6,700.00	6,473.34	6,458.34	6,473.34	35.74	223.74	113.03	2,543.02	-7,851.66	8,784.60	8,525.75	258.85	33.937		
6,800.00	6,569.55	6,554.55	6,569.55	36.29	227.10	113.18	2,543.02	-7,851.66	8,795.66	8,532.92	262.74	33.477		
6,900.00	6,665.75	6,650.75	6,665.75	36.84	230.46	108.63	2,543.02	-7,851.66	8,806.65	8,540.02	266.63	33.030		
7,000.00	6,761.11	6,746.11	6,761.11	37.39	233.78	82.57	2,543.02	-7,851.66	8,808.91	8,538.42	270.49	32.567		
7,100.00	6,853.41	6,838.41	6,853.41	37.89	237.01	67.64	2,543.02	-7,851.66	8,797.52	8,523.30	274.22	32.082		
7,200.00	6,940.36	6,925.36	6,940.36	38.34	240.04	60.12	2,543.02	-7,851.66	8,772.83	8,495.11	277.73	31.588		
7,300.00	7,019.83	7,004.83	7,019.83	38.74	242.82	56.95	2,543.02	-7,851.66	8,735.54	8,454.60	280.94	31.094		
7,400.00	7,089.85	7,074.85	7,089.85	39.10	245.26	56.71	2,543.02	-7,851.66	8,686.63	8,402.83	283.80	30.608		
7,500.00	7,148.71	7,133.71	7,148.71	39.42	247.31	58.90	2,543.02	-7,851.66	8,627.38	8,341.11	286.28	30.136		
7,600.00	7,194.95	7,179.95	7,194.95	39.71	248.93	63.52	2,543.02	-7,851.66	8,559.29	8,270.97	288.32	29.686		
7,700.00	7,227.43	7,212.43	7,227.43	40.01	250.06	70.84	2,543.02	-7,851.66	8,484.06	8,194.14	289.92	29.264		
7,800.00	7,245.37	7,230.37	7,245.37	40.37	250.69	81.14	2,543.02	-7,851.66	8,403.53	8,112.50	291.03	28.875		
7,900.00	7,248.84	7,233.84	7,248.84	40.87	250.81	90.54	2,543.02	-7,851.66	8,319.74	8,028.07	291.67	28.525		
8,000.00	7,248.24	7,233.24	7,248.24	41.62	250.79	90.53	2,543.02	-7,851.66	8,235.57	7,943.35	292.22	28.183		
8,100.00	7,247.65	7,232.65	7,247.65	42.66	250.77	90.52	2,543.02	-7,851.66	8,151.75	7,858.92	292.83	27.838		
8,200.00	7,247.05	7,232.05	7,247.05	43.96	250.75	90.51	2,543.02	-7,851.66	8,068.30	7,774.79	293.52	27.488		
8,300.00	7,246.46	7,231.46	7,246.46	45.46	250.73	90.51	2,543.02	-7,851.66	7,985.24	7,690.97	294.27	27.136		
8,400.00	7,245.86	7,230.86	7,245.86	47.13	250.71	90.50	2,543.02	-7,851.66	7,902.56	7,607.47	295.10	26.780		
8,500.00	7,245.27	7,230.27	7,245.27	48.93	250.69	90.49	2,543.02	-7,851.66	7,820.29	7,524.30	295.99	26.421		
8,600.00	7,244.67	7,229.67	7,244.67	50.84	250.66	90.48	2,543.02	-7,851.66	7,738.44	7,441.48	296.96	26.059		
8,700.00	7,244.07	7,229.07	7,244.07	52.85	250.64	90.48	2,543.02	-7,851.66	7,657.02	7,359.02	297.99	25.695		
8,800.00	7,243.48	7,228.48	7,243.48	54.94	250.62	90.47	2,543.02	-7,851.66	7,576.04	7,276.94	299.10	25.329		
8,900.00	7,242.88	7,227.88	7,242.88	57.10	250.60	90.46	2,543.02	-7,851.66	7,495.52	7,195.24	300.28	24.962		
9,000.00	7,242.29	7,227.29	7,242.29	59.32	250.58	90.45	2,543.02	-7,851.66	7,415.48	7,113.95	301.53	24.593		
9,100.00	7,241.69	7,226.69	7,241.69	61.60	250.56	90.44	2,543.02	-7,851.66	7,335.93	7,033.07	302.85	24.223		
9,200.00	7,241.09	7,226.09	7,241.09	63.92	250.54	90.44	2,543.02	-7,851.66	7,256.88	6,952.63	304.25	23.852		
9,300.00	7,240.50	7,225.50	7,240.50	66.29	250.52	90.43	2,543.02	-7,851.66	7,178.35	6,872.64	305.71	23.481		
9,400.00	7,239.90	7,224.90	7,239.90	68.70	250.50	90.42	2,543.02	-7,851.66	7,100.37	6,793.12	307.24	23.110		
9,500.00	7,239.31	7,224.31	7,239.31	71.14	250.48	90.41	2,543.02	-7,851.66	7,022.94	6,714.09	308.85	22.739		
9,600.00	7,238.71	7,223.71	7,238.71	73.61	250.46	90.41	2,543.02	-7,851.66	6,946.09	6,635.57	310.52	22.369		
9,700.00	7,238.11	7,223.11	7,238.11	76.11	250.44	90.40	2,543.02	-7,851.66	6,869.83	6,557.57	312.26	22.000		
9,800.00	7,237.52	7,222.52	7,237.52	78.64	250.41	90.39	2,543.02	-7,851.66	6,794.19	6,480.12	314.08	21.632		
9,900.00	7,236.92	7,221.92	7,236.92	81.19	250.39	90.38	2,543.02	-7,851.66	6,719.19	6,403.23	315.96	21.266		
10,000.00	7,236.33	7,221.33	7,236.33	83.75	250.37	90.38	2,543.02	-7,851.66	6,644.85	6,326.94	317.91	20.902		
10,100.00	7,235.73	7,220.73	7,235.73	86.34	250.35	90.37	2,543.02	-7,851.66	6,571.19	6,251.26	319.93	20.540		
10,200.00	7,235.14	7,220.14	7,235.14	88.94	250.33	90.36	2,543.02	-7,851.66	6,498.23	6,176.21	322.01	20.180		
10,300.00	7,234.54	7,219.54	7,234.54	91.56	250.31	90.35	2,543.02	-7,851.66	6,425.99	6,101.83	324.17	19.823		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,218.94	7,233.94	94.19	250.29	90.35	2,543.02	-7,851.66	6,354.52	6,028.13	326.39	19.469		
10,500.00	7,233.35	7,218.35	7,233.35	96.84	250.27	90.34	2,543.02	-7,851.66	6,283.82	5,955.14	328.68	19.118		
10,600.00	7,232.75	7,217.75	7,232.75	99.50	250.25	90.33	2,543.02	-7,851.66	6,213.92	5,882.88	331.04	18.771		
10,700.00	7,232.16	7,217.16	7,232.16	102.17	250.23	90.32	2,543.02	-7,851.66	6,144.86	5,811.40	333.46	18.428		
10,800.00	7,231.56	7,216.56	7,231.56	104.85	250.21	90.31	2,543.02	-7,851.66	6,076.65	5,740.71	335.95	18.088		
10,900.00	7,230.96	7,215.96	7,230.96	107.53	250.19	90.31	2,543.02	-7,851.66	6,009.34	5,670.84	338.50	17.753		
11,000.00	7,230.37	7,215.37	7,230.37	110.23	250.17	90.30	2,543.02	-7,851.66	5,942.95	5,601.83	341.12	17.422		
11,100.00	7,229.77	7,214.77	7,229.77	112.93	250.14	90.29	2,543.02	-7,851.66	5,877.51	5,533.70	343.80	17.096		
11,200.00	7,229.18	7,214.18	7,229.18	115.65	250.12	90.28	2,543.02	-7,851.66	5,813.05	5,466.50	346.55	16.774		
11,300.00	7,228.58	7,213.58	7,228.58	118.37	250.10	90.28	2,543.02	-7,851.66	5,749.61	5,400.25	349.36	16.458		
11,400.00	7,227.99	7,212.99	7,227.99	121.09	250.08	90.27	2,543.02	-7,851.66	5,687.22	5,334.99	352.23	16.146		
11,500.00	7,227.39	7,212.39	7,227.39	123.82	250.06	90.26	2,543.02	-7,851.66	5,625.92	5,270.75	355.16	15.840		
11,600.00	7,226.79	7,211.79	7,226.79	126.56	250.04	90.25	2,543.02	-7,851.66	5,565.73	5,207.58	358.15	15.540		
11,700.00	7,226.20	7,211.20	7,226.20	129.30	250.02	90.25	2,543.02	-7,851.66	5,506.71	5,145.50	361.20	15.245		
11,800.00	7,225.60	7,210.60	7,225.60	132.05	250.00	90.24	2,543.02	-7,851.66	5,448.88	5,084.57	364.31	14.957		
11,900.00	7,225.01	7,210.01	7,225.01	134.80	249.98	90.23	2,543.02	-7,851.66	5,392.28	5,024.82	367.47	14.674		
12,000.00	7,224.41	7,209.41	7,224.41	137.56	249.96	90.22	2,543.02	-7,851.66	5,336.96	4,966.29	370.68	14.398		
12,100.00	7,223.81	7,208.81	7,223.81	140.32	249.94	90.22	2,543.02	-7,851.66	5,282.96	4,909.02	373.94	14.128		
12,200.00	7,223.22	7,208.22	7,223.22	143.08	249.92	90.21	2,543.02	-7,851.66	5,230.30	4,853.06	377.25	13.864		
12,300.00	7,222.62	7,207.62	7,222.62	145.85	249.89	90.20	2,543.02	-7,851.66	5,179.05	4,798.45	380.60	13.608		
12,400.00	7,222.03	7,207.03	7,222.03	148.62	249.87	90.19	2,543.02	-7,851.66	5,129.23	4,745.23	384.00	13.357		
12,500.00	7,221.43	7,206.43	7,221.43	151.40	249.85	90.18	2,543.02	-7,851.66	5,080.89	4,693.46	387.43	13.114		
12,600.00	7,220.83	7,205.83	7,220.83	154.18	249.83	90.18	2,543.02	-7,851.66	5,034.07	4,643.18	390.90	12.878		
12,700.00	7,220.24	7,205.24	7,220.24	156.96	249.81	90.17	2,543.02	-7,851.66	4,988.82	4,594.43	394.40	12.649		
12,800.00	7,219.64	7,204.64	7,219.64	159.74	249.79	90.16	2,543.02	-7,851.66	4,945.18	4,547.26	397.92	12.428		
12,900.00	7,219.05	7,204.05	7,219.05	162.53	249.77	90.15	2,543.02	-7,851.66	4,903.18	4,501.72	401.47	12.213		
13,000.00	7,218.45	7,203.45	7,218.45	165.32	249.75	90.15	2,543.02	-7,851.66	4,862.89	4,457.86	405.03	12.006		
13,100.00	7,217.86	7,202.86	7,217.86	168.11	249.73	90.14	2,543.02	-7,851.66	4,824.32	4,415.72	408.60	11.807		
13,200.00	7,217.26	7,202.26	7,217.26	170.90	249.71	90.13	2,543.02	-7,851.66	4,787.54	4,375.36	412.18	11.615		
13,300.00	7,216.66	7,201.66	7,216.66	173.70	249.69	90.12	2,543.02	-7,851.66	4,752.58	4,336.81	415.76	11.431		
13,400.00	7,216.07	7,201.07	7,216.07	176.49	249.67	90.12	2,543.02	-7,851.66	4,719.47	4,300.13	419.34	11.255		
13,500.00	7,215.47	7,200.47	7,215.47	179.29	249.65	90.11	2,543.02	-7,851.66	4,688.27	4,265.37	422.91	11.086		
13,600.00	7,214.88	7,200.12	7,214.88	182.09	249.63	90.10	2,543.02	-7,851.66	4,659.00	4,232.54	426.46	10.925		
13,700.00	7,214.28	7,200.72	7,214.28	184.90	249.65	90.09	2,543.02	-7,851.66	4,631.71	4,201.69	430.02	10.771		
13,800.00	7,213.68	7,201.32	7,213.68	187.70	249.67	90.09	2,543.02	-7,851.66	4,606.43	4,172.87	433.56	10.625		
13,900.00	7,213.09	7,201.91	7,213.09	190.51	249.70	90.08	2,543.02	-7,851.66	4,583.19	4,146.14	437.05	10.487		
14,000.00	7,212.49	7,202.51	7,212.49	193.32	249.72	90.07	2,543.02	-7,851.66	4,562.03	4,121.52	440.50	10.356		
14,100.00	7,211.90	7,203.10	7,211.90	196.13	249.74	90.06	2,543.02	-7,851.66	4,542.96	4,099.06	443.90	10.234		
14,200.00	7,211.30	7,203.70	7,211.30	198.94	249.76	90.05	2,543.02	-7,851.66	4,526.03	4,078.79	447.24	10.120		
14,300.00	7,210.71	7,204.30	7,210.71	201.75	249.78	90.05	2,543.02	-7,851.66	4,511.25	4,060.73	450.52	10.013		
14,400.00	7,210.11	7,204.89	7,210.11	204.56	249.80	90.04	2,543.02	-7,851.66	4,498.65	4,044.92	453.72	9.915		
14,500.00	7,209.51	7,205.49	7,209.51	207.38	249.82	90.03	2,543.02	-7,851.66	4,488.23	4,031.39	456.85	9.824		
14,600.00	7,208.92	7,206.08	7,208.92	210.19	249.84	90.02	2,543.02	-7,851.66	4,480.03	4,020.14	459.89	9.741		
14,700.00	7,208.32	7,206.68	7,208.32	213.01	249.86	90.02	2,543.02	-7,851.66	4,474.05	4,011.20	462.85	9.666		
14,800.00	7,207.73	7,207.27	7,207.73	215.83	249.88	90.01	2,543.02	-7,851.66	4,470.30	4,004.59	465.71	9.599		
14,900.00	7,207.13	7,207.87	7,207.13	218.65	249.90	90.00	2,543.02	-7,851.66	4,468.78	4,000.31	468.47	9.539		
14,917.85	7,207.02	7,207.98	7,207.02	219.15	249.91	90.00	2,543.02	-7,851.66	4,468.74	3,999.80	468.95	9.529 CC		
15,000.00	7,206.53	7,208.47	7,206.53	221.47	249.92	89.99	2,543.02	-7,851.66	4,469.50	3,998.38	471.12	9.487 ES		
15,100.00	7,205.94	7,209.06	7,205.94	224.29	249.94	89.99	2,543.02	-7,851.66	4,472.45	3,998.78	473.67	9.442		
15,200.00	7,205.34	7,209.66	7,205.34	227.11	249.97	89.98	2,543.02	-7,851.66	4,477.64	4,001.53	476.11	9.405		
15,258.04	7,205.00	7,190.00	7,205.00	228.75	249.28	89.97	2,543.02	-7,851.66	4,481.67	4,004.90	476.77	9.400 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	2.00	0.00	3.28	3.28	-53.76	2,658.62	-3,627.12	4,497.14				
100.00	100.00	102.00	100.00	3.28	3.75	-53.76	2,658.62	-3,627.12	4,497.14	4,490.10	7.03	639.385	
200.00	200.00	202.00	200.00	3.34	6.24	-53.76	2,658.62	-3,627.12	4,497.14	4,487.56	9.58	469.662 CC	
300.00	299.98	301.98	299.98	3.44	9.39	121.49	2,658.62	-3,627.12	4,498.05	4,485.22	12.83	350.650	
400.00	399.84	401.84	399.84	3.59	12.71	121.50	2,658.62	-3,627.12	4,500.79	4,484.48	16.30	276.080	
500.00	499.45	501.45	499.45	3.79	16.10	121.52	2,658.62	-3,627.12	4,505.35	4,485.47	19.89	226.561	
600.00	598.70	600.70	598.70	4.03	19.50	121.54	2,658.62	-3,627.12	4,511.76	4,488.23	23.53	191.716	
700.00	697.47	700.53	697.47	4.31	22.95	121.56	2,658.62	-3,627.12	4,520.02	4,492.76	27.26	165.814	
800.00	795.62	802.38	795.62	4.64	26.47	121.59	2,658.62	-3,627.12	4,530.15	4,499.05	31.10	145.650	
900.00	893.06	904.94	893.06	5.00	30.03	121.63	2,658.62	-3,627.12	4,542.16	4,507.15	35.01	129.727	
1,000.00	989.65	1,008.35	989.65	5.40	33.62	121.68	2,658.62	-3,627.12	4,556.08	4,517.09	38.99	116.850	
1,100.00	1,085.85	1,087.85	1,085.85	5.82	36.38	121.96	2,658.62	-3,627.12	4,570.87	4,528.71	42.16	108.415	
1,200.00	1,182.06	1,184.06	1,182.06	6.27	39.73	122.24	2,658.62	-3,627.12	4,585.77	4,539.84	45.93	99.837	
1,300.00	1,278.26	1,280.26	1,278.26	6.73	43.07	122.52	2,658.62	-3,627.12	4,600.79	4,551.07	49.72	92.532	
1,400.00	1,374.47	1,376.47	1,374.47	7.20	46.42	122.80	2,658.62	-3,627.12	4,615.92	4,562.40	53.52	86.242	
1,500.00	1,470.67	1,472.67	1,470.67	7.69	49.77	123.08	2,658.62	-3,627.12	4,631.16	4,573.83	57.34	80.773	
1,600.00	1,566.88	1,568.88	1,566.88	8.18	53.13	123.35	2,658.62	-3,627.12	4,646.51	4,585.36	61.16	75.977	
1,700.00	1,663.08	1,665.08	1,663.08	8.68	56.48	123.62	2,658.62	-3,627.12	4,661.98	4,596.99	64.99	71.739	
1,800.00	1,759.29	1,761.29	1,759.29	9.19	59.83	123.89	2,658.62	-3,627.12	4,677.54	4,608.72	68.82	67.967	
1,900.00	1,855.49	1,857.49	1,855.49	9.70	63.18	124.16	2,658.62	-3,627.12	4,693.22	4,620.56	72.66	64.591	
2,000.00	1,951.70	1,953.70	1,951.70	10.22	66.54	124.43	2,658.62	-3,627.12	4,709.00	4,632.50	76.50	61.552	
2,100.00	2,047.90	2,049.90	2,047.90	10.73	69.89	124.70	2,658.62	-3,627.12	4,724.89	4,644.54	80.35	58.803	
2,200.00	2,144.11	2,146.11	2,144.11	11.26	73.25	124.96	2,658.62	-3,627.12	4,740.88	4,656.68	84.20	56.304	
2,300.00	2,240.31	2,242.31	2,240.31	11.78	76.60	125.22	2,658.62	-3,627.12	4,756.97	4,668.92	88.05	54.023	
2,400.00	2,336.52	2,338.52	2,336.52	12.31	79.96	125.49	2,658.62	-3,627.12	4,773.17	4,681.26	91.91	51.934	
2,500.00	2,432.72	2,434.72	2,432.72	12.84	83.32	125.74	2,658.62	-3,627.12	4,789.47	4,693.70	95.77	50.012	
2,600.00	2,528.93	2,530.93	2,528.93	13.37	86.67	126.00	2,658.62	-3,627.12	4,805.86	4,706.24	99.62	48.240	
2,700.00	2,625.13	2,627.13	2,625.13	13.91	90.03	126.26	2,658.62	-3,627.12	4,822.36	4,718.87	103.48	46.601	
2,800.00	2,721.34	2,723.34	2,721.34	14.44	93.38	126.51	2,658.62	-3,627.12	4,838.95	4,731.61	107.34	45.079	
2,900.00	2,817.54	2,819.54	2,817.54	14.98	96.74	126.76	2,658.62	-3,627.12	4,855.64	4,744.43	111.20	43.664	
3,000.00	2,913.75	2,915.75	2,913.75	15.52	100.10	127.02	2,658.62	-3,627.12	4,872.42	4,757.36	115.07	42.345	
3,100.00	3,009.95	3,011.95	3,009.95	16.06	103.45	127.26	2,658.62	-3,627.12	4,889.30	4,770.37	118.93	41.111	
3,200.00	3,106.16	3,108.16	3,106.16	16.60	106.81	127.51	2,658.62	-3,627.12	4,906.27	4,783.48	122.79	39.956	
3,300.00	3,202.37	3,204.37	3,202.37	17.14	110.17	127.76	2,658.62	-3,627.12	4,923.34	4,796.68	126.65	38.872	
3,400.00	3,298.57	3,300.57	3,298.57	17.68	113.53	128.00	2,658.62	-3,627.12	4,940.50	4,809.98	130.52	37.853	
3,500.00	3,394.78	3,403.22	3,394.78	18.22	117.11	128.25	2,658.62	-3,627.12	4,957.74	4,823.14	134.61	36.831	
3,600.00	3,490.98	3,507.02	3,490.98	18.76	120.73	128.49	2,658.62	-3,627.12	4,975.08	4,836.35	138.74	35.860	
3,700.00	3,587.19	3,589.19	3,587.19	19.31	123.60	128.73	2,658.62	-3,627.12	4,992.51	4,850.40	142.11	35.131	
3,800.00	3,683.39	3,685.39	3,683.39	19.85	126.95	128.96	2,658.62	-3,627.12	5,010.02	4,864.05	145.98	34.321	
3,900.00	3,779.60	3,781.60	3,779.60	20.39	130.31	129.20	2,658.62	-3,627.12	5,027.63	4,877.79	149.84	33.553	
4,000.00	3,875.80	3,877.80	3,875.80	20.94	133.67	129.44	2,658.62	-3,627.12	5,045.31	4,891.61	153.70	32.825	
4,100.00	3,972.01	3,974.01	3,972.01	21.48	137.03	129.67	2,658.62	-3,627.12	5,063.09	4,905.52	157.57	32.133	
4,200.00	4,068.21	4,070.21	4,068.21	22.03	140.38	129.90	2,658.62	-3,627.12	5,080.95	4,919.51	161.43	31.474	
4,300.00	4,164.42	4,166.42	4,164.42	22.57	143.74	130.13	2,658.62	-3,627.12	5,098.89	4,933.59	165.30	30.847	
4,400.00	4,260.62	4,262.62	4,260.62	23.12	147.10	130.36	2,658.62	-3,627.12	5,116.91	4,947.75	169.16	30.249	
4,500.00	4,356.83	4,358.83	4,356.83	23.67	150.46	130.59	2,658.62	-3,627.12	5,135.02	4,961.99	173.02	29.678	
4,600.00	4,453.03	4,455.03	4,453.03	24.21	153.81	130.81	2,658.62	-3,627.12	5,153.20	4,976.31	176.89	29.132	
4,700.00	4,549.24	4,551.24	4,549.24	24.76	157.17	131.03	2,658.62	-3,627.12	5,171.47	4,990.72	180.75	28.611	
4,800.00	4,645.44	4,647.44	4,645.44	25.31	160.53	131.26	2,658.62	-3,627.12	5,189.81	5,005.20	184.62	28.111	
4,900.00	4,741.65	4,743.65	4,741.65	25.86	163.89	131.48	2,658.62	-3,627.12	5,208.24	5,019.76	188.48	27.633	
5,000.00	4,837.85	4,839.85	4,837.85	26.40	167.25	131.70	2,658.62	-3,627.12	5,226.74	5,034.40	192.34	27.174	
5,100.00	4,934.06	4,936.06	4,934.06	26.95	170.60	131.92	2,658.62	-3,627.12	5,245.32	5,049.11	196.20	26.734	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,032.26	5,030.26	27.50	173.96	132.13	2,658.62	-3,627.12	5,263.97	5,063.90	200.07	26.311		
5,300.00	5,126.47	5,128.47	5,126.47	28.05	177.32	132.35	2,658.62	-3,627.12	5,282.70	5,078.77	203.93	25.905		
5,400.00	5,222.67	5,224.67	5,222.67	28.60	180.68	132.56	2,658.62	-3,627.12	5,301.50	5,093.71	207.79	25.514		
5,500.00	5,318.88	5,320.88	5,318.88	29.15	184.04	132.77	2,658.62	-3,627.12	5,320.38	5,108.73	211.65	25.137		
5,600.00	5,415.08	5,417.08	5,415.08	29.70	187.39	132.98	2,658.62	-3,627.12	5,339.33	5,123.82	215.51	24.775		
5,700.00	5,511.29	5,513.29	5,511.29	30.25	190.75	133.19	2,658.62	-3,627.12	5,358.35	5,138.98	219.38	24.425		
5,800.00	5,607.49	5,609.49	5,607.49	30.79	194.11	133.40	2,658.62	-3,627.12	5,377.44	5,154.21	223.24	24.088		
5,900.00	5,703.70	5,705.70	5,703.70	31.34	197.47	133.61	2,658.62	-3,627.12	5,396.61	5,169.51	227.10	23.763		
6,000.00	5,799.90	5,801.90	5,799.90	31.89	200.83	133.81	2,658.62	-3,627.12	5,415.84	5,184.88	230.96	23.449		
6,100.00	5,896.11	5,901.89	5,896.11	32.44	204.32	134.01	2,658.62	-3,627.12	5,435.14	5,200.19	234.95	23.133		
6,200.00	5,992.32	6,005.69	5,992.32	32.99	207.94	134.22	2,658.62	-3,627.12	5,454.51	5,215.44	239.08	22.815		
6,300.00	6,088.52	6,109.48	6,088.52	33.54	211.56	134.42	2,658.62	-3,627.12	5,473.95	5,230.75	243.20	22.508		
6,400.00	6,184.73	6,186.73	6,184.73	34.09	214.26	134.62	2,658.62	-3,627.12	5,493.45	5,247.06	246.40	22.295		
6,500.00	6,280.93	6,282.93	6,280.93	34.64	217.62	134.82	2,658.62	-3,627.12	5,513.02	5,262.77	250.26	22.029		
6,600.00	6,377.14	6,379.14	6,377.14	35.19	220.97	135.01	2,658.62	-3,627.12	5,532.66	5,278.54	254.12	21.772		
6,700.00	6,473.34	6,475.34	6,473.34	35.74	224.33	135.21	2,658.62	-3,627.12	5,552.36	5,294.39	257.97	21.523		
6,800.00	6,569.55	6,571.55	6,569.55	36.29	227.69	135.40	2,658.62	-3,627.12	5,572.12	5,310.29	261.83	21.281		
6,900.00	6,665.75	6,667.75	6,665.75	36.84	231.05	130.75	2,658.62	-3,627.12	5,591.84	5,326.15	265.69	21.046		
7,000.00	6,761.11	6,763.11	6,761.11	37.39	234.38	103.92	2,658.62	-3,627.12	5,605.32	5,335.80	269.52	20.797		
7,100.00	6,853.41	6,855.41	6,853.41	37.89	237.60	88.39	2,658.62	-3,627.12	5,608.89	5,335.66	273.23	20.528		
7,200.00	6,940.36	6,942.36	6,940.36	38.34	240.64	80.34	2,658.62	-3,627.12	5,602.69	5,325.97	276.72	20.247		
7,300.00	7,019.83	7,021.83	7,019.83	38.74	243.41	76.57	2,658.62	-3,627.12	5,587.13	5,307.21	279.93	19.959		
7,400.00	7,089.85	7,108.15	7,089.85	39.10	246.42	75.49	2,658.62	-3,627.12	5,562.89	5,279.51	283.38	19.631		
7,500.00	7,148.71	7,150.71	7,148.71	39.42	247.91	76.30	2,658.62	-3,627.12	5,530.84	5,245.49	285.35	19.383		
7,600.00	7,194.95	7,203.05	7,194.95	39.71	249.74	78.57	2,658.62	-3,627.12	5,492.01	5,204.27	287.74	19.087		
7,700.00	7,227.43	7,229.43	7,227.43	40.01	250.66	82.02	2,658.62	-3,627.12	5,447.57	5,158.24	289.33	18.828		
7,800.00	7,245.37	7,247.37	7,245.37	40.37	251.28	86.45	2,658.62	-3,627.12	5,398.74	5,107.98	290.76	18.568		
7,900.00	7,248.84	7,250.84	7,248.84	40.87	251.40	90.21	2,658.62	-3,627.12	5,346.88	5,055.09	291.79	18.324		
8,000.00	7,248.24	7,250.24	7,248.24	41.62	251.38	90.20	2,658.62	-3,627.12	5,295.34	5,002.52	292.82	18.084		
8,100.00	7,247.65	7,249.65	7,247.65	42.66	251.36	90.19	2,658.62	-3,627.12	5,245.20	4,951.21	293.99	17.841		
8,200.00	7,247.05	7,249.05	7,247.05	43.96	251.34	90.19	2,658.62	-3,627.12	5,196.50	4,901.20	295.30	17.597		
8,300.00	7,246.46	7,248.46	7,246.46	45.46	251.32	90.18	2,658.62	-3,627.12	5,149.28	4,852.54	296.74	17.353		
8,400.00	7,245.86	7,247.86	7,245.86	47.13	251.30	90.17	2,658.62	-3,627.12	5,103.59	4,805.28	298.31	17.109		
8,500.00	7,245.27	7,247.27	7,245.27	48.93	251.28	90.16	2,658.62	-3,627.12	5,059.45	4,759.46	299.99	16.865		
8,600.00	7,244.67	7,246.67	7,244.67	50.84	251.26	90.16	2,658.62	-3,627.12	5,016.93	4,715.14	301.79	16.624		
8,700.00	7,244.07	7,246.07	7,244.07	52.85	251.24	90.15	2,658.62	-3,627.12	4,976.05	4,672.35	303.69	16.385		
8,800.00	7,243.48	7,245.48	7,243.48	54.94	251.22	90.14	2,658.62	-3,627.12	4,936.86	4,631.16	305.69	16.150		
8,900.00	7,242.88	7,244.88	7,242.88	57.10	251.20	90.13	2,658.62	-3,627.12	4,899.39	4,591.61	307.78	15.918		
9,000.00	7,242.29	7,244.29	7,242.29	59.32	251.17	90.13	2,658.62	-3,627.12	4,863.69	4,553.74	309.96	15.691		
9,100.00	7,241.69	7,243.69	7,241.69	61.60	251.15	90.12	2,658.62	-3,627.12	4,829.80	4,517.60	312.20	15.470		
9,200.00	7,241.09	7,243.09	7,241.09	63.92	251.13	90.11	2,658.62	-3,627.12	4,797.76	4,483.24	314.52	15.254		
9,300.00	7,240.50	7,242.50	7,240.50	66.29	251.11	90.10	2,658.62	-3,627.12	4,767.60	4,450.70	316.90	15.045		
9,400.00	7,239.90	7,241.90	7,239.90	68.70	251.09	90.10	2,658.62	-3,627.12	4,739.35	4,420.03	319.32	14.842		
9,500.00	7,239.31	7,241.31	7,239.31	71.14	251.07	90.09	2,658.62	-3,627.12	4,713.06	4,391.26	321.80	14.646		
9,600.00	7,238.71	7,240.71	7,238.71	73.61	251.05	90.08	2,658.62	-3,627.12	4,688.75	4,364.44	324.31	14.457		
9,700.00	7,238.11	7,240.11	7,238.11	76.11	251.03	90.07	2,658.62	-3,627.12	4,666.47	4,339.60	326.86	14.277		
9,800.00	7,237.52	7,239.52	7,237.52	78.64	251.01	90.07	2,658.62	-3,627.12	4,646.22	4,316.79	329.43	14.104		
9,900.00	7,236.92	7,238.92	7,236.92	81.19	250.99	90.06	2,658.62	-3,627.12	4,628.05	4,296.02	332.03	13.939		
10,000.00	7,236.33	7,238.33	7,236.33	83.75	250.97	90.05	2,658.62	-3,627.12	4,611.98	4,277.34	334.63	13.782		
10,100.00	7,235.73	7,237.73	7,235.73	86.34	250.95	90.04	2,658.62	-3,627.12	4,598.02	4,260.78	337.25	13.634		
10,200.00	7,235.14	7,237.14	7,235.14	88.94	250.92	90.04	2,658.62	-3,627.12	4,586.21	4,246.35	339.86	13.494		
10,300.00	7,234.54	7,236.54	7,234.54	91.56	250.90	90.03	2,658.62	-3,627.12	4,576.55	4,234.08	342.47	13.363		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,235.94	7,233.94	94.19	250.88	90.02	2,658.62	-3,627.12	4,569.05	4,223.99	345.06	13.241		
10,500.00	7,233.35	7,235.35	7,233.35	96.84	250.86	90.01	2,658.62	-3,627.12	4,563.74	4,216.10	347.64	13.128		
10,600.00	7,232.75	7,234.75	7,232.75	99.50	250.84	90.01	2,658.62	-3,627.12	4,560.61	4,210.42	350.20	13.023		
10,692.63	7,232.20	7,234.20	7,232.20	101.97	250.82	90.00	2,658.62	-3,627.12	4,559.67	4,207.13	352.54	12.934		
10,700.00	7,232.16	7,234.16	7,232.16	102.17	250.82	90.00	2,658.62	-3,627.12	4,559.68	4,206.95	352.72	12.927		
10,800.00	7,231.56	7,233.56	7,231.56	104.85	250.80	89.99	2,658.62	-3,627.12	4,560.94	4,205.72	355.22	12.840 ES		
10,900.00	7,230.96	7,232.96	7,230.96	107.53	250.78	89.98	2,658.62	-3,627.12	4,564.39	4,206.71	357.68	12.761		
11,000.00	7,230.37	7,232.37	7,230.37	110.23	250.76	89.98	2,658.62	-3,627.12	4,570.02	4,209.93	360.09	12.691		
11,100.00	7,229.77	7,231.77	7,229.77	112.93	250.74	89.97	2,658.62	-3,627.12	4,577.83	4,215.37	362.46	12.630		
11,200.00	7,229.18	7,231.18	7,229.18	115.65	250.72	89.96	2,658.62	-3,627.12	4,587.81	4,223.03	364.78	12.577		
11,300.00	7,228.58	7,230.58	7,228.58	118.37	250.70	89.95	2,658.62	-3,627.12	4,599.95	4,232.89	367.05	12.532		
11,400.00	7,227.99	7,229.99	7,227.99	121.09	250.68	89.95	2,658.62	-3,627.12	4,614.21	4,244.95	369.26	12.496		
11,500.00	7,227.39	7,229.39	7,227.39	123.82	250.65	89.94	2,658.62	-3,627.12	4,630.60	4,259.18	371.42	12.467		
11,600.00	7,226.79	7,228.79	7,226.79	126.56	250.63	89.93	2,658.62	-3,627.12	4,649.08	4,275.57	373.51	12.447		
11,700.00	7,226.20	7,228.20	7,226.20	129.30	250.61	89.92	2,658.62	-3,627.12	4,669.62	4,294.09	375.53	12.435		
11,800.00	7,225.60	7,227.60	7,225.60	132.05	250.59	89.92	2,658.62	-3,627.12	4,692.21	4,314.71	377.50	12.430 SF		
11,900.00	7,225.01	7,227.01	7,225.01	134.80	250.57	89.91	2,658.62	-3,627.12	4,716.81	4,337.42	379.39	12.433		
12,000.00	7,224.41	7,226.41	7,224.41	137.56	250.55	89.90	2,658.62	-3,627.12	4,743.39	4,362.17	381.22	12.443		
12,100.00	7,223.81	7,225.81	7,223.81	140.32	250.53	89.89	2,658.62	-3,627.12	4,771.92	4,388.94	382.99	12.460		
12,200.00	7,223.22	7,225.22	7,223.22	143.08	250.51	89.89	2,658.62	-3,627.12	4,802.36	4,417.68	384.68	12.484		
12,300.00	7,222.62	7,224.62	7,222.62	145.85	250.49	89.88	2,658.62	-3,627.12	4,834.68	4,448.38	386.30	12.515		
12,400.00	7,222.03	7,224.03	7,222.03	148.62	250.47	89.87	2,658.62	-3,627.12	4,868.84	4,480.98	387.86	12.553		
12,500.00	7,221.43	7,223.43	7,221.43	151.40	250.45	89.86	2,658.62	-3,627.12	4,904.80	4,515.45	389.35	12.597		
12,600.00	7,220.83	7,222.83	7,220.83	154.18	250.43	89.86	2,658.62	-3,627.12	4,942.52	4,551.75	390.78	12.648		
12,700.00	7,220.24	7,222.24	7,220.24	156.96	250.40	89.85	2,658.62	-3,627.12	4,981.97	4,589.83	392.13	12.705		
12,800.00	7,219.64	7,221.64	7,219.64	159.74	250.38	89.84	2,658.62	-3,627.12	5,023.09	4,629.67	393.43	12.768		
12,900.00	7,219.05	7,221.05	7,219.05	162.53	250.36	89.83	2,658.62	-3,627.12	5,065.86	4,671.20	394.66	12.836		
13,000.00	7,218.45	7,220.45	7,218.45	165.32	250.34	89.83	2,658.62	-3,627.12	5,110.22	4,714.40	395.82	12.910		
13,100.00	7,217.86	7,219.86	7,217.86	168.11	250.32	89.82	2,658.62	-3,627.12	5,156.15	4,759.22	396.93	12.990		
13,200.00	7,217.26	7,219.26	7,217.26	170.90	250.30	89.81	2,658.62	-3,627.12	5,203.58	4,805.61	397.98	13.075		
13,300.00	7,216.66	7,218.66	7,216.66	173.70	250.28	89.80	2,658.62	-3,627.12	5,252.50	4,853.53	398.97	13.165		
13,400.00	7,216.07	7,218.07	7,216.07	176.49	250.26	89.80	2,658.62	-3,627.12	5,302.85	4,902.95	399.90	13.260		
13,500.00	7,215.47	7,217.47	7,215.47	179.29	250.24	89.79	2,658.62	-3,627.12	5,354.59	4,953.81	400.78	13.360		
13,600.00	7,214.88	7,216.88	7,214.88	182.09	250.22	89.78	2,658.62	-3,627.12	5,407.69	5,006.08	401.61	13.465		
13,700.00	7,214.28	7,216.28	7,214.28	184.90	250.20	89.77	2,658.62	-3,627.12	5,462.10	5,059.71	402.39	13.574		
13,800.00	7,213.68	7,215.68	7,213.68	187.70	250.18	89.77	2,658.62	-3,627.12	5,517.79	5,114.67	403.12	13.688		
13,900.00	7,213.09	7,215.09	7,213.09	190.51	250.16	89.76	2,658.62	-3,627.12	5,574.72	5,170.91	403.80	13.806		
14,000.00	7,212.49	7,214.49	7,212.49	193.32	250.13	89.75	2,658.62	-3,627.12	5,632.84	5,228.40	404.44	13.927		
14,100.00	7,211.90	7,213.90	7,211.90	196.13	250.11	89.74	2,658.62	-3,627.12	5,692.13	5,287.09	405.04	14.053		
14,200.00	7,211.30	7,213.30	7,211.30	198.94	250.09	89.74	2,658.62	-3,627.12	5,752.55	5,346.95	405.60	14.183		
14,300.00	7,210.71	7,212.71	7,210.71	201.75	250.07	89.73	2,658.62	-3,627.12	5,814.06	5,407.94	406.12	14.316		
14,400.00	7,210.11	7,212.11	7,210.11	204.56	250.05	89.72	2,658.62	-3,627.12	5,876.62	5,470.03	406.60	14.453		
14,500.00	7,209.51	7,211.51	7,209.51	207.38	250.03	89.71	2,658.62	-3,627.12	5,940.22	5,533.17	407.04	14.594		
14,600.00	7,208.92	7,210.92	7,208.92	210.19	250.01	89.71	2,658.62	-3,627.12	6,004.80	5,597.35	407.45	14.737		
14,700.00	7,208.32	7,210.32	7,208.32	213.01	249.99	89.70	2,658.62	-3,627.12	6,070.34	5,662.51	407.83	14.884		
14,800.00	7,207.73	7,209.73	7,207.73	215.83	249.97	89.69	2,658.62	-3,627.12	6,136.82	5,728.63	408.18	15.034		
14,900.00	7,207.13	7,209.13	7,207.13	218.65	249.95	89.68	2,658.62	-3,627.12	6,204.19	5,795.68	408.50	15.188		
15,000.00	7,206.53	7,208.53	7,206.53	221.47	249.93	89.68	2,658.62	-3,627.12	6,272.43	5,863.63	408.80	15.344		
15,100.00	7,205.94	7,207.94	7,205.94	224.29	249.91	89.67	2,658.62	-3,627.12	6,341.52	5,932.45	409.06	15.503		
15,200.00	7,205.34	7,207.34	7,205.34	227.11	249.88	89.66	2,658.62	-3,627.12	6,411.42	6,002.11	409.31	15.664		
15,258.04	7,205.00	7,207.00	7,205.00	228.75	249.87	89.66	2,658.62	-3,627.12	6,452.35	6,042.92	409.44	15.759		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	38.00	3.28	3.28	-61.50	2,629.68	-4,842.47	5,510.55					
100.00	100.00	62.00	100.00	3.28	3.45	-61.50	2,629.68	-4,842.47	5,510.42	5,503.68	6.74	817.734		
200.00	200.00	162.00	200.00	3.34	5.10	-61.50	2,629.68	-4,842.47	5,510.42	5,501.98	8.44	652.851		
300.00	299.98	261.98	299.98	3.44	8.09	113.75	2,629.68	-4,842.47	5,511.12	5,499.59	11.53	477.817		
400.00	399.84	361.84	399.84	3.59	11.37	113.76	2,629.68	-4,842.47	5,513.23	5,498.27	14.96	368.565		
500.00	499.45	461.45	499.45	3.79	14.73	113.78	2,629.68	-4,842.47	5,516.76	5,498.24	18.52	297.869		
600.00	598.70	560.70	598.70	4.03	18.13	113.81	2,629.68	-4,842.47	5,521.71	5,499.55	22.16	249.198		
700.00	697.47	659.47	697.47	4.31	21.53	113.84	2,629.68	-4,842.47	5,528.09	5,502.25	25.84	213.922		
800.00	795.62	757.62	795.62	4.64	24.92	113.87	2,629.68	-4,842.47	5,535.93	5,506.37	29.56	187.307		
900.00	893.06	855.06	893.06	5.00	28.30	113.91	2,629.68	-4,842.47	5,545.24	5,511.95	33.29	166.587		
1,000.00	989.65	951.65	989.65	5.40	31.65	113.96	2,629.68	-4,842.47	5,556.04	5,519.01	37.03	150.042		
1,100.00	1,085.85	1,047.85	1,085.85	5.82	34.99	114.21	2,629.68	-4,842.47	5,567.54	5,526.75	40.79	136.505		
1,200.00	1,182.06	1,144.06	1,182.06	6.27	38.33	114.46	2,629.68	-4,842.47	5,579.15	5,534.58	44.56	125.192		
1,300.00	1,278.26	1,240.26	1,278.26	6.73	41.68	114.71	2,629.68	-4,842.47	5,590.87	5,542.51	48.36	115.608		
1,400.00	1,374.47	1,336.47	1,374.47	7.20	45.03	114.95	2,629.68	-4,842.47	5,602.69	5,550.52	52.17	107.393		
1,500.00	1,470.67	1,432.67	1,470.67	7.69	48.38	115.20	2,629.68	-4,842.47	5,614.63	5,558.64	55.99	100.277		
1,600.00	1,566.88	1,528.88	1,566.88	8.18	51.73	115.44	2,629.68	-4,842.47	5,626.67	5,566.85	59.82	94.058		
1,700.00	1,663.08	1,625.08	1,663.08	8.68	55.08	115.68	2,629.68	-4,842.47	5,638.82	5,575.16	63.66	88.579		
1,800.00	1,759.29	1,721.29	1,759.29	9.19	58.44	115.93	2,629.68	-4,842.47	5,651.07	5,583.57	67.50	83.716		
1,900.00	1,855.49	1,817.49	1,855.49	9.70	61.79	116.17	2,629.68	-4,842.47	5,663.43	5,592.08	71.35	79.373		
2,000.00	1,951.70	1,913.70	1,951.70	10.22	65.14	116.41	2,629.68	-4,842.47	5,675.89	5,600.69	75.21	75.472		
2,100.00	2,047.90	2,009.90	2,047.90	10.73	68.50	116.64	2,629.68	-4,842.47	5,688.46	5,609.39	79.06	71.949		
2,200.00	2,144.11	2,106.11	2,144.11	11.26	71.85	116.88	2,629.68	-4,842.47	5,701.13	5,618.20	82.92	68.753		
2,300.00	2,240.31	2,202.31	2,240.31	11.78	75.21	117.12	2,629.68	-4,842.47	5,713.90	5,627.11	86.78	65.840		
2,400.00	2,336.52	2,301.48	2,336.52	12.31	78.67	117.35	2,629.68	-4,842.47	5,726.77	5,636.02	90.75	63.103		
2,500.00	2,432.72	2,405.28	2,432.72	12.84	82.29	117.59	2,629.68	-4,842.47	5,739.74	5,644.86	94.88	60.492		
2,600.00	2,528.93	2,509.07	2,528.93	13.37	85.91	117.82	2,629.68	-4,842.47	5,752.82	5,653.80	99.02	58.099		
2,700.00	2,625.13	2,587.13	2,625.13	13.91	88.63	118.06	2,629.68	-4,842.47	5,765.99	5,663.74	102.25	56.389		
2,800.00	2,721.34	2,683.34	2,721.34	14.44	91.99	118.29	2,629.68	-4,842.47	5,779.26	5,673.14	106.13	54.457		
2,900.00	2,817.54	2,779.54	2,817.54	14.98	95.35	118.52	2,629.68	-4,842.47	5,792.63	5,682.64	110.00	52.662		
3,000.00	2,913.75	2,875.75	2,913.75	15.52	98.70	118.75	2,629.68	-4,842.47	5,806.10	5,692.23	113.87	50.989		
3,100.00	3,009.95	2,971.95	3,009.95	16.06	102.06	118.98	2,629.68	-4,842.47	5,819.67	5,701.92	117.74	49.427		
3,200.00	3,106.16	3,068.16	3,106.16	16.60	105.42	119.20	2,629.68	-4,842.47	5,833.33	5,711.71	121.62	47.965		
3,300.00	3,202.37	3,164.37	3,202.37	17.14	108.77	119.43	2,629.68	-4,842.47	5,847.08	5,721.59	125.49	46.594		
3,400.00	3,298.57	3,260.57	3,298.57	17.68	112.13	119.66	2,629.68	-4,842.47	5,860.93	5,731.57	129.37	45.305		
3,500.00	3,394.78	3,356.78	3,394.78	18.22	115.49	119.88	2,629.68	-4,842.47	5,874.88	5,741.64	133.24	44.092		
3,600.00	3,490.98	3,452.98	3,490.98	18.76	118.84	120.11	2,629.68	-4,842.47	5,888.92	5,751.80	137.12	42.948		
3,700.00	3,587.19	3,549.19	3,587.19	19.31	122.20	120.33	2,629.68	-4,842.47	5,903.05	5,762.06	140.99	41.868		
3,800.00	3,683.39	3,645.39	3,683.39	19.85	125.56	120.55	2,629.68	-4,842.47	5,917.27	5,772.40	144.87	40.846		
3,900.00	3,779.60	3,741.60	3,779.60	20.39	128.92	120.77	2,629.68	-4,842.47	5,931.59	5,782.84	148.74	39.878		
4,000.00	3,875.80	3,837.80	3,875.80	20.94	132.27	120.99	2,629.68	-4,842.47	5,945.99	5,793.37	152.62	38.960		
4,100.00	3,972.01	3,934.01	3,972.01	21.48	135.63	121.21	2,629.68	-4,842.47	5,960.49	5,803.99	156.49	38.087		
4,200.00	4,068.21	4,030.21	4,068.21	22.03	138.99	121.43	2,629.68	-4,842.47	5,975.07	5,814.70	160.37	37.258		
4,300.00	4,164.42	4,126.42	4,164.42	22.57	142.35	121.64	2,629.68	-4,842.47	5,989.75	5,825.50	164.25	36.468		
4,400.00	4,260.62	4,222.62	4,260.62	23.12	145.70	121.86	2,629.68	-4,842.47	6,004.51	5,836.39	168.12	35.715		
4,500.00	4,356.83	4,318.83	4,356.83	23.67	149.06	122.07	2,629.68	-4,842.47	6,019.36	5,847.36	172.00	34.997		
4,600.00	4,453.03	4,415.03	4,453.03	24.21	152.42	122.29	2,629.68	-4,842.47	6,034.29	5,858.42	175.87	34.311		
4,700.00	4,549.24	4,511.24	4,549.24	24.76	155.78	122.50	2,629.68	-4,842.47	6,049.31	5,869.57	179.75	33.654		
4,800.00	4,645.44	4,607.44	4,645.44	25.31	159.13	122.71	2,629.68	-4,842.47	6,064.42	5,880.80	183.62	33.026		
4,900.00	4,741.65	4,703.65	4,741.65	25.86	162.49	122.92	2,629.68	-4,842.47	6,079.62	5,892.12	187.50	32.425		
5,000.00	4,837.85	4,800.15	4,837.85	26.40	165.86	123.13	2,629.68	-4,842.47	6,094.89	5,903.51	191.38	31.847		
5,100.00	4,934.06	4,903.94	4,934.06	26.95	169.48	123.34	2,629.68	-4,842.47	6,110.25	5,914.73	195.52	31.251		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,007.74	5,030.26	27.50	173.11	123.55	2,629.68	-4,842.47	6,125.70	5,926.04	199.66	30.680		
5,300.00	5,126.47	5,088.47	5,126.47	28.05	175.92	123.75	2,629.68	-4,842.47	6,141.22	5,938.23	203.00	30.253		
5,400.00	5,222.67	5,184.67	5,222.67	28.60	179.28	123.96	2,629.68	-4,842.47	6,156.83	5,949.96	206.87	29.762		
5,500.00	5,318.88	5,280.88	5,318.88	29.15	182.64	124.16	2,629.68	-4,842.47	6,172.52	5,961.78	210.74	29.289		
5,600.00	5,415.08	5,377.08	5,415.08	29.70	186.00	124.37	2,629.68	-4,842.47	6,188.29	5,973.67	214.62	28.834		
5,700.00	5,511.29	5,473.29	5,511.29	30.25	189.36	124.57	2,629.68	-4,842.47	6,204.14	5,985.65	218.49	28.396		
5,800.00	5,607.49	5,569.49	5,607.49	30.79	192.71	124.77	2,629.68	-4,842.47	6,220.07	5,997.71	222.36	27.973		
5,900.00	5,703.70	5,665.70	5,703.70	31.34	196.07	124.97	2,629.68	-4,842.47	6,236.08	6,009.84	226.23	27.565		
6,000.00	5,799.90	5,761.90	5,799.90	31.89	199.43	125.17	2,629.68	-4,842.47	6,252.16	6,022.06	230.11	27.171		
6,100.00	5,896.11	5,858.11	5,896.11	32.44	202.79	125.37	2,629.68	-4,842.47	6,268.33	6,034.35	233.98	26.790		
6,200.00	5,992.32	5,954.32	5,992.32	32.99	206.15	125.57	2,629.68	-4,842.47	6,284.57	6,046.72	237.85	26.422		
6,300.00	6,088.52	6,050.52	6,088.52	33.54	209.50	125.77	2,629.68	-4,842.47	6,300.88	6,059.16	241.72	26.067		
6,400.00	6,184.73	6,146.73	6,184.73	34.09	212.86	125.96	2,629.68	-4,842.47	6,317.27	6,071.68	245.59	25.723		
6,500.00	6,280.93	6,242.93	6,280.93	34.64	216.22	126.16	2,629.68	-4,842.47	6,333.74	6,084.28	249.46	25.390		
6,600.00	6,377.14	6,339.14	6,377.14	35.19	219.58	126.35	2,629.68	-4,842.47	6,350.28	6,096.95	253.33	25.067		
6,700.00	6,473.34	6,435.34	6,473.34	35.74	222.94	126.54	2,629.68	-4,842.47	6,366.90	6,109.70	257.20	24.754		
6,800.00	6,569.55	6,531.55	6,569.55	36.29	226.29	126.74	2,629.68	-4,842.47	6,383.59	6,122.52	261.07	24.451		
6,900.00	6,665.75	6,627.75	6,665.75	36.84	229.65	122.14	2,629.68	-4,842.47	6,400.22	6,135.28	264.94	24.157		
7,000.00	6,761.11	6,723.11	6,761.11	37.39	232.98	95.67	2,629.68	-4,842.47	6,409.53	6,140.74	268.79	23.846		
7,100.00	6,853.41	6,815.41	6,853.41	37.89	236.20	80.47	2,629.68	-4,842.47	6,407.27	6,134.77	272.50	23.513		
7,200.00	6,940.36	6,902.36	6,940.36	38.34	239.24	72.77	2,629.68	-4,842.47	6,393.67	6,117.67	276.00	23.166		
7,300.00	7,019.83	6,981.83	7,019.83	38.74	242.01	69.41	2,629.68	-4,842.47	6,369.25	6,090.04	279.21	22.811		
7,400.00	7,089.85	7,051.85	7,089.85	39.10	244.46	68.85	2,629.68	-4,842.47	6,334.82	6,052.72	282.10	22.456		
7,500.00	7,148.71	7,110.71	7,148.71	39.42	246.51	70.40	2,629.68	-4,842.47	6,291.39	6,006.78	284.62	22.105		
7,600.00	7,194.95	7,156.95	7,194.95	39.71	248.13	73.71	2,629.68	-4,842.47	6,240.21	5,953.46	286.75	21.761		
7,700.00	7,227.43	7,189.43	7,227.43	40.01	249.26	78.60	2,629.68	-4,842.47	6,182.65	5,894.15	288.50	21.431		
7,800.00	7,245.37	7,207.37	7,245.37	40.37	249.89	84.91	2,629.68	-4,842.47	6,120.18	5,830.36	289.82	21.117		
7,900.00	7,248.84	7,210.84	7,248.84	40.87	250.01	90.30	2,629.68	-4,842.47	6,054.47	5,763.74	290.73	20.825		
8,000.00	7,248.24	7,210.24	7,248.24	41.62	249.99	90.29	2,629.68	-4,842.47	5,988.74	5,697.14	291.60	20.537		
8,100.00	7,247.65	7,209.65	7,247.65	42.66	249.97	90.29	2,629.68	-4,842.47	5,923.97	5,631.38	292.59	20.246		
8,200.00	7,247.05	7,209.05	7,247.05	43.96	249.94	90.28	2,629.68	-4,842.47	5,860.19	5,566.48	293.71	19.953		
8,300.00	7,246.46	7,208.46	7,246.46	45.46	249.92	90.27	2,629.68	-4,842.47	5,797.43	5,502.50	294.93	19.657		
8,400.00	7,245.86	7,207.86	7,245.86	47.13	249.90	90.26	2,629.68	-4,842.47	5,735.73	5,439.45	296.28	19.359		
8,500.00	7,245.27	7,207.27	7,245.27	48.93	249.88	90.26	2,629.68	-4,842.47	5,675.12	5,377.39	297.73	19.061		
8,600.00	7,244.67	7,206.67	7,244.67	50.84	249.86	90.25	2,629.68	-4,842.47	5,615.64	5,316.34	299.30	18.763		
8,700.00	7,244.07	7,206.07	7,244.07	52.85	249.84	90.24	2,629.68	-4,842.47	5,557.32	5,256.35	300.97	18.465		
8,800.00	7,243.48	7,205.48	7,243.48	54.94	249.82	90.23	2,629.68	-4,842.47	5,500.20	5,197.46	302.74	18.168		
8,900.00	7,242.88	7,204.88	7,242.88	57.10	249.80	90.23	2,629.68	-4,842.47	5,444.32	5,139.71	304.61	17.873		
9,000.00	7,242.29	7,204.29	7,242.29	59.32	249.78	90.22	2,629.68	-4,842.47	5,389.71	5,083.14	306.57	17.581		
9,100.00	7,241.69	7,203.69	7,241.69	61.60	249.76	90.21	2,629.68	-4,842.47	5,336.42	5,027.80	308.62	17.291		
9,200.00	7,241.09	7,203.09	7,241.09	63.92	249.74	90.20	2,629.68	-4,842.47	5,284.48	4,973.72	310.76	17.005		
9,300.00	7,240.50	7,202.50	7,240.50	66.29	249.72	90.20	2,629.68	-4,842.47	5,233.94	4,920.96	312.98	16.723		
9,400.00	7,239.90	7,201.90	7,239.90	68.70	249.69	90.19	2,629.68	-4,842.47	5,184.84	4,869.56	315.28	16.445		
9,500.00	7,239.31	7,201.31	7,239.31	71.14	249.67	90.18	2,629.68	-4,842.47	5,137.21	4,819.56	317.65	16.173		
9,600.00	7,238.71	7,200.71	7,238.71	73.61	249.65	90.17	2,629.68	-4,842.47	5,091.10	4,771.01	320.09	15.905		
9,700.00	7,238.11	7,200.11	7,238.11	76.11	249.63	90.17	2,629.68	-4,842.47	5,046.55	4,723.96	322.59	15.644		
9,800.00	7,237.52	7,200.48	7,237.52	78.64	249.65	90.16	2,629.68	-4,842.47	5,003.61	4,678.42	325.19	15.387		
9,900.00	7,236.92	7,201.08	7,236.92	81.19	249.67	90.15	2,629.68	-4,842.47	4,962.30	4,634.45	327.85	15.136		
10,000.00	7,236.33	7,201.67	7,236.33	83.75	249.69	90.14	2,629.68	-4,842.47	4,922.69	4,592.13	330.56	14.892		
10,100.00	7,235.73	7,202.27	7,235.73	86.34	249.71	90.14	2,629.68	-4,842.47	4,884.79	4,551.48	333.32	14.655		
10,200.00	7,235.14	7,202.86	7,235.14	88.94	249.73	90.13	2,629.68	-4,842.47	4,848.67	4,512.56	336.11	14.426		
10,300.00	7,234.54	7,203.46	7,234.54	91.56	249.75	90.12	2,629.68	-4,842.47	4,814.35	4,475.40	338.95	14.204		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,400.00	7,233.94	7,204.06	7,233.94	94.19	249.77	90.11	2,629.68	-4,842.47	4,781.88	4,440.07	341.81	13.990		
10,500.00	7,233.35	7,204.65	7,233.35	96.84	249.79	90.11	2,629.68	-4,842.47	4,751.29	4,406.59	344.70	13.784		
10,600.00	7,232.75	7,205.25	7,232.75	99.50	249.81	90.10	2,629.68	-4,842.47	4,722.62	4,375.01	347.61	13.586		
10,700.00	7,232.16	7,205.84	7,232.16	102.17	249.83	90.09	2,629.68	-4,842.47	4,695.90	4,345.37	350.53	13.396		
10,800.00	7,231.56	7,206.44	7,231.56	104.85	249.85	90.08	2,629.68	-4,842.47	4,671.18	4,317.71	353.47	13.215		
10,900.00	7,230.96	7,207.04	7,230.96	107.53	249.87	90.08	2,629.68	-4,842.47	4,648.47	4,292.06	356.40	13.043		
11,000.00	7,230.37	7,207.63	7,230.37	110.23	249.89	90.07	2,629.68	-4,842.47	4,627.81	4,268.47	359.34	12.879		
11,100.00	7,229.77	7,208.23	7,229.77	112.93	249.92	90.06	2,629.68	-4,842.47	4,609.23	4,246.97	362.26	12.723		
11,200.00	7,229.18	7,208.82	7,229.18	115.65	249.94	90.05	2,629.68	-4,842.47	4,592.75	4,227.58	365.18	12.577		
11,300.00	7,228.58	7,209.42	7,228.58	118.37	249.96	90.05	2,629.68	-4,842.47	4,578.40	4,210.33	368.07	12.439		
11,400.00	7,227.99	7,189.99	7,227.99	121.09	249.28	90.04	2,629.68	-4,842.47	4,566.19	4,195.96	370.24	12.333		
11,500.00	7,227.39	7,189.39	7,227.39	123.82	249.26	90.03	2,629.68	-4,842.47	4,556.15	4,183.12	373.03	12.214		
11,600.00	7,226.79	7,188.79	7,226.79	126.56	249.24	90.02	2,629.68	-4,842.47	4,548.28	4,172.49	375.79	12.103		
11,700.00	7,226.20	7,188.20	7,226.20	129.30	249.22	90.02	2,629.68	-4,842.47	4,542.60	4,164.09	378.51	12.001		
11,800.00	7,225.60	7,187.60	7,225.60	132.05	249.20	90.01	2,629.68	-4,842.47	4,539.12	4,157.94	381.18	11.908		
11,900.00	7,225.01	7,187.01	7,225.01	134.80	249.17	90.00	2,629.68	-4,842.47	4,537.84	4,154.04	383.80	11.823		
11,908.15	7,224.96	7,186.96	7,224.96	135.03	249.17	90.00	2,629.68	-4,842.47	4,537.83	4,153.82	384.02	11.817 CC		
12,000.00	7,224.41	7,186.41	7,224.41	137.56	249.15	89.99	2,629.68	-4,842.47	4,538.76	4,152.39	386.37	11.747 ES		
12,100.00	7,223.81	7,185.81	7,223.81	140.32	249.13	89.99	2,629.68	-4,842.47	4,541.89	4,153.01	388.88	11.679		
12,200.00	7,223.22	7,185.22	7,223.22	143.08	249.11	89.98	2,629.68	-4,842.47	4,547.21	4,155.89	391.32	11.620		
12,300.00	7,222.62	7,184.62	7,222.62	145.85	249.09	89.97	2,629.68	-4,842.47	4,554.72	4,161.02	393.70	11.569		
12,400.00	7,222.03	7,184.03	7,222.03	148.62	249.07	89.96	2,629.68	-4,842.47	4,564.41	4,168.41	396.00	11.526		
12,500.00	7,221.43	7,183.43	7,221.43	151.40	249.05	89.96	2,629.68	-4,842.47	4,576.27	4,178.03	398.23	11.491		
12,600.00	7,220.83	7,182.83	7,220.83	154.18	249.03	89.95	2,629.68	-4,842.47	4,590.27	4,189.88	400.39	11.464		
12,700.00	7,220.24	7,182.24	7,220.24	156.96	249.01	89.94	2,629.68	-4,842.47	4,606.40	4,203.93	402.47	11.445		
12,800.00	7,219.64	7,181.64	7,219.64	159.74	248.99	89.93	2,629.68	-4,842.47	4,624.64	4,220.17	404.47	11.434		
12,900.00	7,219.05	7,181.05	7,219.05	162.53	248.97	89.93	2,629.68	-4,842.47	4,644.96	4,238.57	406.39	11.430 SF		
13,000.00	7,218.45	7,180.45	7,218.45	165.32	248.95	89.92	2,629.68	-4,842.47	4,667.34	4,259.10	408.23	11.433		
13,100.00	7,217.86	7,179.86	7,217.86	168.11	248.93	89.91	2,629.68	-4,842.47	4,691.74	4,281.75	409.99	11.444		
13,200.00	7,217.26	7,179.26	7,217.26	170.90	248.90	89.90	2,629.68	-4,842.47	4,718.13	4,306.46	411.67	11.461		
13,300.00	7,216.66	7,178.66	7,216.66	173.70	248.88	89.90	2,629.68	-4,842.47	4,746.48	4,333.22	413.26	11.485		
13,400.00	7,216.07	7,178.07	7,216.07	176.49	248.86	89.89	2,629.68	-4,842.47	4,776.76	4,361.99	414.77	11.517		
13,500.00	7,215.47	7,177.47	7,215.47	179.29	248.84	89.88	2,629.68	-4,842.47	4,808.93	4,392.73	416.21	11.554		
13,600.00	7,214.88	7,176.88	7,214.88	182.09	248.82	89.87	2,629.68	-4,842.47	4,842.95	4,425.39	417.56	11.598		
13,700.00	7,214.28	7,176.28	7,214.28	184.90	248.80	89.87	2,629.68	-4,842.47	4,878.78	4,459.95	418.83	11.649		
13,800.00	7,213.68	7,175.68	7,213.68	187.70	248.78	89.86	2,629.68	-4,842.47	4,916.39	4,496.36	420.03	11.705		
13,900.00	7,213.09	7,175.09	7,213.09	190.51	248.76	89.85	2,629.68	-4,842.47	4,955.73	4,534.57	421.15	11.767		
14,000.00	7,212.49	7,174.49	7,212.49	193.32	248.74	89.84	2,629.68	-4,842.47	4,996.76	4,574.55	422.21	11.835		
14,100.00	7,211.90	7,173.90	7,211.90	196.13	248.72	89.84	2,629.68	-4,842.47	5,039.44	4,616.26	423.18	11.908		
14,200.00	7,211.30	7,173.30	7,211.30	198.94	248.70	89.83	2,629.68	-4,842.47	5,083.73	4,659.64	424.10	11.987		
14,300.00	7,210.71	7,172.71	7,210.71	201.75	248.68	89.82	2,629.68	-4,842.47	5,129.59	4,704.65	424.94	12.071		
14,400.00	7,210.11	7,172.11	7,210.11	204.56	248.65	89.81	2,629.68	-4,842.47	5,176.97	4,751.25	425.72	12.161		
14,500.00	7,209.51	7,171.51	7,209.51	207.38	248.63	89.81	2,629.68	-4,842.47	5,225.84	4,799.40	426.44	12.255		
14,600.00	7,208.92	7,170.92	7,208.92	210.19	248.61	89.80	2,629.68	-4,842.47	5,276.15	4,849.05	427.09	12.354		
14,700.00	7,208.32	7,170.32	7,208.32	213.01	248.59	89.79	2,629.68	-4,842.47	5,327.86	4,900.16	427.70	12.457		
14,800.00	7,207.73	7,169.73	7,207.73	215.83	248.57	89.78	2,629.68	-4,842.47	5,380.93	4,952.69	428.24	12.565		
14,900.00	7,207.13	7,169.13	7,207.13	218.65	248.55	89.77	2,629.68	-4,842.47	5,435.33	5,006.59	428.74	12.678		
15,000.00	7,206.53	7,168.53	7,206.53	221.47	248.53	89.77	2,629.68	-4,842.47	5,491.00	5,061.82	429.18	12.794		
15,100.00	7,205.94	7,167.94	7,205.94	224.29	248.51	89.76	2,629.68	-4,842.47	5,547.93	5,118.35	429.58	12.915		
15,200.00	7,205.34	7,167.34	7,205.34	227.11	248.49	89.75	2,629.68	-4,842.47	5,606.05	5,176.12	429.93	13.039		
15,258.04	7,205.00	7,167.00	7,205.00	228.75	248.48	89.75	2,629.68	-4,842.47	5,640.33	5,210.21	430.12	13.114		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	65.00	3.28	3.28	-122.16	-3,991.95	-6,349.59	7,500.48				
100.00	100.00	35.00	100.00	3.28	3.34	-122.16	-3,991.95	-6,349.59	7,500.20	7,493.57	6.62	1,132.766	
200.00	200.00	135.00	200.00	3.34	4.42	-122.16	-3,991.95	-6,349.59	7,500.20	7,492.44	7.76	966.507	
300.00	299.98	234.98	299.98	3.44	7.24	53.12	-3,991.95	-6,349.59	7,499.15	7,488.47	10.68	702.005	
400.00	399.84	334.84	399.84	3.59	10.47	53.20	-3,991.95	-6,349.59	7,496.01	7,481.95	14.06	533.129	
500.00	499.45	434.45	499.45	3.79	13.82	53.34	-3,991.95	-6,349.59	7,490.78	7,473.18	17.60	425.503	
600.00	598.70	533.70	598.70	4.03	17.20	53.53	-3,991.95	-6,349.59	7,483.48	7,462.25	21.23	352.455	
700.00	697.47	632.47	697.47	4.31	20.60	53.77	-3,991.95	-6,349.59	7,474.14	7,449.23	24.91	300.050	
800.00	795.62	730.62	795.62	4.64	23.99	54.08	-3,991.95	-6,349.59	7,462.77	7,434.15	28.62	260.780	
900.00	893.06	828.06	893.06	5.00	27.36	54.43	-3,991.95	-6,349.59	7,449.40	7,417.06	32.34	230.331	
1,000.00	989.65	924.65	989.65	5.40	30.71	54.82	-3,991.95	-6,349.59	7,434.08	7,398.00	36.08	206.062	
1,100.00	1,085.85	1,020.85	1,085.85	5.82	34.05	54.99	-3,991.95	-6,349.59	7,417.99	7,378.17	39.82	186.279	
1,200.00	1,182.06	1,117.06	1,182.06	6.27	37.40	55.16	-3,991.95	-6,349.59	7,401.96	7,358.37	43.59	169.811	
1,300.00	1,278.26	1,213.26	1,278.26	6.73	40.74	55.33	-3,991.95	-6,349.59	7,386.00	7,338.62	47.37	155.906	
1,400.00	1,374.47	1,309.47	1,374.47	7.20	44.09	55.50	-3,991.95	-6,349.59	7,370.10	7,318.93	51.17	144.018	
1,500.00	1,470.67	1,405.67	1,470.67	7.69	47.44	55.67	-3,991.95	-6,349.59	7,354.27	7,299.29	54.99	133.746	
1,600.00	1,566.88	1,501.88	1,566.88	8.18	50.79	55.84	-3,991.95	-6,349.59	7,338.51	7,279.70	58.81	124.785	
1,700.00	1,663.08	1,601.92	1,663.08	8.68	54.28	56.01	-3,991.95	-6,349.59	7,322.82	7,260.05	62.77	116.655	
1,800.00	1,759.29	1,705.71	1,759.29	9.19	57.89	56.19	-3,991.95	-6,349.59	7,307.19	7,240.32	66.88	109.266	
1,900.00	1,855.49	1,809.51	1,855.49	9.70	61.51	56.36	-3,991.95	-6,349.59	7,291.64	7,220.65	70.98	102.722	
2,000.00	1,951.70	1,886.70	1,951.70	10.22	64.20	56.53	-3,991.95	-6,349.59	7,276.15	7,201.98	74.17	98.101	
2,100.00	2,047.90	1,982.90	2,047.90	10.73	67.56	56.71	-3,991.95	-6,349.59	7,260.73	7,182.71	78.02	93.058	
2,200.00	2,144.11	2,079.11	2,144.11	11.26	70.91	56.88	-3,991.95	-6,349.59	7,245.38	7,163.50	81.88	88.487	
2,300.00	2,240.31	2,175.31	2,240.31	11.78	74.27	57.06	-3,991.95	-6,349.59	7,230.11	7,144.36	85.74	84.324	
2,400.00	2,336.52	2,271.52	2,336.52	12.31	77.62	57.24	-3,991.95	-6,349.59	7,214.90	7,125.29	89.61	80.518	
2,500.00	2,432.72	2,367.72	2,432.72	12.84	80.98	57.41	-3,991.95	-6,349.59	7,199.76	7,106.29	93.47	77.025	
2,600.00	2,528.93	2,463.93	2,528.93	13.37	84.33	57.59	-3,991.95	-6,349.59	7,184.70	7,087.36	97.34	73.808	
2,700.00	2,625.13	2,560.13	2,625.13	13.91	87.69	57.77	-3,991.95	-6,349.59	7,169.71	7,068.49	101.21	70.836	
2,800.00	2,721.34	2,656.34	2,721.34	14.44	91.05	57.95	-3,991.95	-6,349.59	7,154.79	7,049.70	105.09	68.083	
2,900.00	2,817.54	2,752.54	2,817.54	14.98	94.40	58.13	-3,991.95	-6,349.59	7,139.94	7,030.98	108.96	65.525	
3,000.00	2,913.75	2,848.75	2,913.75	15.52	97.76	58.31	-3,991.95	-6,349.59	7,125.17	7,012.33	112.84	63.143	
3,100.00	3,009.95	2,944.95	3,009.95	16.06	101.12	58.50	-3,991.95	-6,349.59	7,110.47	6,993.75	116.72	60.918	
3,200.00	3,106.16	3,041.16	3,106.16	16.60	104.47	58.68	-3,991.95	-6,349.59	7,095.85	6,975.25	120.60	58.837	
3,300.00	3,202.37	3,137.37	3,202.37	17.14	107.83	58.86	-3,991.95	-6,349.59	7,081.30	6,956.81	124.48	56.885	
3,400.00	3,298.57	3,233.57	3,298.57	17.68	111.19	59.05	-3,991.95	-6,349.59	7,066.83	6,938.46	128.37	55.051	
3,500.00	3,394.78	3,329.78	3,394.78	18.22	114.54	59.23	-3,991.95	-6,349.59	7,052.43	6,920.18	132.25	53.326	
3,600.00	3,490.98	3,425.98	3,490.98	18.76	117.90	59.42	-3,991.95	-6,349.59	7,038.11	6,901.97	136.14	51.698	
3,700.00	3,587.19	3,522.19	3,587.19	19.31	121.26	59.60	-3,991.95	-6,349.59	7,023.86	6,883.84	140.03	50.161	
3,800.00	3,683.39	3,618.39	3,683.39	19.85	124.62	59.79	-3,991.95	-6,349.59	7,009.69	6,865.78	143.91	48.708	
3,900.00	3,779.60	3,714.60	3,779.60	20.39	127.97	59.98	-3,991.95	-6,349.59	6,995.61	6,847.80	147.80	47.331	
4,000.00	3,875.80	3,810.80	3,875.80	20.94	131.33	60.17	-3,991.95	-6,349.59	6,981.59	6,829.90	151.69	46.025	
4,100.00	3,972.01	3,907.01	3,972.01	21.48	134.69	60.35	-3,991.95	-6,349.59	6,967.66	6,812.08	155.58	44.784	
4,200.00	4,068.21	4,003.21	4,068.21	22.03	138.05	60.54	-3,991.95	-6,349.59	6,953.81	6,794.33	159.47	43.604	
4,300.00	4,164.42	4,100.58	4,164.42	22.57	141.44	60.74	-3,991.95	-6,349.59	6,940.03	6,776.63	163.41	42.471	
4,400.00	4,260.62	4,204.38	4,260.62	23.12	145.07	60.93	-3,991.95	-6,349.59	6,926.34	6,758.77	167.57	41.335	
4,500.00	4,356.83	4,308.17	4,356.83	23.67	148.69	61.12	-3,991.95	-6,349.59	6,912.73	6,741.00	171.73	40.255	
4,600.00	4,453.03	4,388.03	4,453.03	24.21	151.48	61.31	-3,991.95	-6,349.59	6,899.20	6,724.15	175.05	39.413	
4,700.00	4,549.24	4,452.00	4,517.00	24.76	153.71	61.44	-3,991.95	-6,349.59	6,885.82	6,707.99	177.83	38.721	
4,800.00	4,645.44	4,452.00	4,517.00	25.31	153.71	61.44	-3,991.95	-6,349.59	6,873.58	6,695.20	178.37	38.535	
4,900.00	4,741.65	4,452.00	4,517.00	25.86	153.71	61.44	-3,991.95	-6,349.59	6,862.77	6,683.88	178.88	38.364	
5,000.00	4,837.85	4,452.00	4,517.00	26.40	153.71	61.44	-3,991.95	-6,349.59	6,853.40	6,674.04	179.36	38.210	
5,100.00	4,934.06	4,452.00	4,517.00	26.95	153.71	61.44	-3,991.95	-6,349.59	6,845.48	6,665.68	179.80	38.072	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,200.00	5,030.26	4,452.00	4,517.00	27.50	153.71	61.44	-3,991.95	-6,349.59	6,839.02	6,658.81	180.21	37.950		
5,300.00	5,126.47	4,452.00	4,517.00	28.05	153.71	61.44	-3,991.95	-6,349.59	6,834.01	6,653.43	180.58	37.844		
5,400.00	5,222.67	4,452.00	4,517.00	28.60	153.71	61.44	-3,991.95	-6,349.59	6,830.47	6,649.55	180.92	37.755		
5,500.00	5,318.88	4,452.00	4,517.00	29.15	153.71	61.44	-3,991.95	-6,349.59	6,828.38	6,647.16	181.22	37.681		
5,592.33	5,407.71	4,452.00	4,517.00	29.65	153.71	61.44	-3,991.95	-6,349.59	6,827.76	6,646.30	181.46	37.627		
5,600.00	5,415.08	4,452.00	4,517.00	29.70	153.71	61.44	-3,991.95	-6,349.59	6,827.76	6,646.28	181.48	37.623		
5,700.00	5,511.29	4,452.00	4,517.00	30.25	153.71	61.44	-3,991.95	-6,349.59	6,828.61	6,646.90	181.70	37.581		
5,800.00	5,607.49	4,452.00	4,517.00	30.79	153.71	61.44	-3,991.95	-6,349.59	6,830.91	6,649.02	181.89	37.555		
5,900.00	5,703.70	4,452.00	4,517.00	31.34	153.71	61.44	-3,991.95	-6,349.59	6,834.69	6,652.64	182.04	37.544		
6,000.00	5,799.90	4,452.00	4,517.00	31.89	153.71	61.44	-3,991.95	-6,349.59	6,839.92	6,657.76	182.16	37.549		
6,100.00	5,896.11	4,452.00	4,517.00	32.44	153.71	61.44	-3,991.95	-6,349.59	6,846.60	6,664.37	182.24	37.570		
6,200.00	5,992.32	4,452.00	4,517.00	32.99	153.71	61.44	-3,991.95	-6,349.59	6,854.74	6,672.47	182.28	37.606		
6,300.00	6,088.52	4,452.00	4,517.00	33.54	153.71	61.44	-3,991.95	-6,349.59	6,864.33	6,682.05	182.28	37.657		
6,400.00	6,184.73	4,452.00	4,517.00	34.09	153.71	61.44	-3,991.95	-6,349.59	6,875.36	6,693.11	182.25	37.724		
6,500.00	6,280.93	4,452.00	4,517.00	34.64	153.71	61.44	-3,991.95	-6,349.59	6,887.82	6,705.64	182.19	37.806		
6,600.00	6,377.14	4,452.00	4,517.00	35.19	153.71	61.44	-3,991.95	-6,349.59	6,901.71	6,719.63	182.09	37.904		
6,700.00	6,473.34	4,452.00	4,517.00	35.74	153.71	61.44	-3,991.95	-6,349.59	6,917.02	6,735.07	181.95	38.016		
6,800.00	6,569.55	4,452.00	4,517.00	36.29	153.71	61.44	-3,991.95	-6,349.59	6,933.74	6,751.96	181.78	38.144		
6,900.00	6,665.75	4,452.00	4,517.00	36.84	153.71	56.89	-3,991.95	-6,349.59	6,951.70	6,770.12	181.58	38.285		
7,000.00	6,761.11	4,452.00	4,517.00	37.39	153.71	31.11	-3,991.95	-6,349.59	6,961.96	6,780.65	181.31	38.399		
7,100.00	6,853.41	4,452.00	4,517.00	37.89	153.71	15.36	-3,991.95	-6,349.59	6,959.24	6,778.27	180.96	38.457		
7,200.00	6,940.36	4,452.00	4,517.00	38.34	153.71	5.88	-3,991.95	-6,349.59	6,943.58	6,763.03	180.55	38.458		
7,300.00	7,019.83	4,452.00	4,517.00	38.74	153.71	-0.58	-3,991.95	-6,349.59	6,915.30	6,735.21	180.09	38.400		
7,400.00	7,089.85	4,452.00	4,517.00	39.10	153.71	-5.71	-3,991.95	-6,349.59	6,874.93	6,695.34	179.59	38.281		
7,500.00	7,148.71	4,452.00	4,517.00	39.42	153.71	-10.48	-3,991.95	-6,349.59	6,823.27	6,644.19	179.08	38.102		
7,600.00	7,194.95	4,452.00	4,517.00	39.71	153.71	-15.59	-3,991.95	-6,349.59	6,761.34	6,582.77	178.57	37.863		
7,700.00	7,227.43	4,452.00	4,517.00	40.01	153.71	-21.74	-3,991.95	-6,349.59	6,690.41	6,512.32	178.09	37.567		
7,800.00	7,245.37	4,452.00	4,517.00	40.37	153.71	-29.80	-3,991.95	-6,349.59	6,611.97	6,434.30	177.67	37.215		
7,900.00	7,248.84	4,452.00	4,517.00	40.87	153.71	-37.55	-3,991.95	-6,349.59	6,527.87	6,350.54	177.33	36.812		
8,000.00	7,248.24	4,452.00	4,517.00	41.62	153.71	-37.55	-3,991.95	-6,349.59	6,442.76	6,265.73	177.03	36.395		
8,100.00	7,247.65	4,452.00	4,517.00	42.66	153.71	-37.55	-3,991.95	-6,349.59	6,358.08	6,181.33	176.74	35.973		
8,200.00	7,247.05	4,452.00	4,517.00	43.96	153.71	-37.55	-3,991.95	-6,349.59	6,273.84	6,097.36	176.49	35.549		
8,300.00	7,246.46	4,452.00	4,517.00	45.46	153.71	-37.55	-3,991.95	-6,349.59	6,190.08	6,013.83	176.25	35.120		
8,400.00	7,245.86	4,452.00	4,517.00	47.13	153.71	-37.55	-3,991.95	-6,349.59	6,106.81	5,930.76	176.05	34.688		
8,500.00	7,245.27	4,452.00	4,517.00	48.93	153.71	-37.55	-3,991.95	-6,349.59	6,024.04	5,848.17	175.88	34.252		
8,600.00	7,244.67	4,452.00	4,517.00	50.84	153.71	-37.55	-3,991.95	-6,349.59	5,941.81	5,766.08	175.73	33.812		
8,700.00	7,244.07	4,452.00	4,517.00	52.85	153.71	-37.55	-3,991.95	-6,349.59	5,860.13	5,684.51	175.62	33.368		
8,800.00	7,243.48	4,452.00	4,517.00	54.94	153.71	-37.55	-3,991.95	-6,349.59	5,779.02	5,603.48	175.54	32.921		
8,900.00	7,242.88	4,452.00	4,517.00	57.10	153.71	-37.55	-3,991.95	-6,349.59	5,698.52	5,523.01	175.50	32.470		
9,000.00	7,242.29	4,452.00	4,517.00	59.32	153.71	-37.55	-3,991.95	-6,349.59	5,618.64	5,443.14	175.50	32.015		
9,100.00	7,241.69	4,452.00	4,517.00	61.60	153.71	-37.55	-3,991.95	-6,349.59	5,539.41	5,363.88	175.54	31.557		
9,200.00	7,241.09	4,452.00	4,517.00	63.92	153.71	-37.55	-3,991.95	-6,349.59	5,460.87	5,285.26	175.61	31.096		
9,300.00	7,240.50	4,452.00	4,517.00	66.29	153.71	-37.55	-3,991.95	-6,349.59	5,383.04	5,207.31	175.73	30.633		
9,400.00	7,239.90	4,452.00	4,517.00	68.70	153.71	-37.55	-3,991.95	-6,349.59	5,305.95	5,130.06	175.88	30.167		
9,500.00	7,239.31	4,452.00	4,517.00	71.14	153.71	-37.55	-3,991.95	-6,349.59	5,229.64	5,053.55	176.09	29.699		
9,600.00	7,238.71	4,452.00	4,517.00	73.61	153.71	-37.55	-3,991.95	-6,349.59	5,154.13	4,977.81	176.33	29.230		
9,700.00	7,238.11	4,452.00	4,517.00	76.11	153.71	-37.55	-3,991.95	-6,349.59	5,079.48	4,902.86	176.62	28.760		
9,800.00	7,237.52	4,452.00	4,517.00	78.64	153.71	-37.55	-3,991.95	-6,349.59	5,005.71	4,828.76	176.95	28.289		
9,900.00	7,236.92	4,452.00	4,517.00	81.19	153.71	-37.55	-3,991.95	-6,349.59	4,932.86	4,755.54	177.32	27.819		
10,000.00	7,236.33	4,452.00	4,517.00	83.75	153.71	-37.55	-3,991.95	-6,349.59	4,860.98	4,683.24	177.74	27.349		
10,100.00	7,235.73	4,452.00	4,517.00	86.34	153.71	-37.55	-3,991.95	-6,349.59	4,790.10	4,611.90	178.20	26.880		
10,200.00	7,235.14	4,452.00	4,517.00	88.94	153.71	-37.55	-3,991.95	-6,349.59	4,720.28	4,541.58	178.71	26.413		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	4,452.00	4,517.00	91.56	153.71	-37.55	-3,991.95	-6,349.59	4,651.57	4,472.31	179.26	25.949		
10,400.00	7,233.94	4,452.00	4,517.00	94.19	153.71	-37.55	-3,991.95	-6,349.59	4,584.00	4,404.15	179.85	25.488		
10,500.00	7,233.35	4,452.00	4,517.00	96.84	153.71	-37.55	-3,991.95	-6,349.59	4,517.64	4,337.16	180.48	25.031		
10,600.00	7,232.75	4,452.00	4,517.00	99.50	153.71	-37.55	-3,991.95	-6,349.59	4,452.54	4,271.38	181.16	24.578		
10,700.00	7,232.16	4,452.00	4,517.00	102.17	153.71	-37.55	-3,991.95	-6,349.59	4,388.74	4,206.87	181.88	24.130		
10,800.00	7,231.56	4,452.00	4,517.00	104.85	153.71	-37.55	-3,991.95	-6,349.59	4,326.32	4,143.69	182.64	23.688		
10,900.00	7,230.96	4,452.00	4,517.00	107.53	153.71	-37.55	-3,991.95	-6,349.59	4,265.33	4,081.90	183.44	23.252		
11,000.00	7,230.37	4,452.00	4,517.00	110.23	153.71	-37.55	-3,991.95	-6,349.59	4,205.84	4,021.56	184.27	22.824		
11,100.00	7,229.77	4,452.00	4,517.00	112.93	153.71	-37.55	-3,991.95	-6,349.59	4,147.90	3,962.75	185.15	22.403		
11,200.00	7,229.18	4,452.00	4,517.00	115.65	153.71	-37.55	-3,991.95	-6,349.59	4,091.59	3,905.52	186.07	21.990		
11,300.00	7,228.58	4,452.00	4,517.00	118.37	153.71	-37.55	-3,991.95	-6,349.59	4,036.96	3,849.94	187.02	21.586		
11,400.00	7,227.99	4,452.00	4,517.00	121.09	153.71	-37.55	-3,991.95	-6,349.59	3,984.10	3,796.09	188.01	21.190		
11,500.00	7,227.39	4,452.00	4,517.00	123.82	153.71	-37.55	-3,991.95	-6,349.59	3,933.07	3,744.03	189.04	20.805		
11,600.00	7,226.79	4,452.00	4,517.00	126.56	153.71	-37.55	-3,991.95	-6,349.59	3,883.95	3,693.84	190.11	20.430		
11,700.00	7,226.20	4,452.00	4,517.00	129.30	153.71	-37.55	-3,991.95	-6,349.59	3,836.80	3,645.58	191.22	20.065		
11,800.00	7,225.60	4,452.00	4,517.00	132.05	153.71	-37.55	-3,991.95	-6,349.59	3,791.71	3,599.35	192.36	19.711		
11,900.00	7,225.01	4,452.00	4,517.00	134.80	153.71	-37.55	-3,991.95	-6,349.59	3,748.74	3,555.19	193.55	19.368		
12,000.00	7,224.41	4,452.00	4,517.00	137.56	153.71	-37.55	-3,991.95	-6,349.59	3,707.97	3,513.20	194.77	19.037		
12,100.00	7,223.81	4,452.00	4,517.00	140.32	153.71	-37.55	-3,991.95	-6,349.59	3,669.48	3,473.44	196.04	18.718		
12,200.00	7,223.22	4,452.00	4,517.00	143.08	153.71	-37.55	-3,991.95	-6,349.59	3,633.33	3,435.97	197.35	18.410		
12,300.00	7,222.62	4,452.00	4,517.00	145.85	153.71	-37.55	-3,991.95	-6,349.59	3,599.59	3,400.88	198.71	18.115		
12,400.00	7,222.03	4,452.00	4,517.00	148.62	153.71	-37.55	-3,991.95	-6,349.59	3,568.34	3,368.23	200.11	17.832		
12,500.00	7,221.43	4,452.00	4,517.00	151.40	153.71	-37.55	-3,991.95	-6,349.59	3,539.64	3,338.08	201.56	17.561		
12,600.00	7,220.83	4,452.00	4,517.00	154.18	153.71	-37.55	-3,991.95	-6,349.59	3,513.55	3,310.48	203.07	17.302		
12,700.00	7,220.24	4,452.00	4,517.00	156.96	153.71	-37.55	-3,991.95	-6,349.59	3,490.14	3,285.51	204.63	17.056		
12,800.00	7,219.64	4,452.00	4,517.00	159.74	153.71	-37.55	-3,991.95	-6,349.59	3,469.44	3,263.21	206.24	16.822		
12,900.00	7,219.05	4,452.00	4,517.00	162.53	153.71	-37.55	-3,991.95	-6,349.59	3,451.53	3,243.62	207.91	16.601		
13,000.00	7,218.45	4,452.00	4,517.00	165.32	153.71	-37.55	-3,991.95	-6,349.59	3,436.43	3,226.79	209.64	16.392		
13,100.00	7,217.86	4,452.00	4,517.00	168.11	153.71	-37.55	-3,991.95	-6,349.59	3,424.18	3,212.76	211.42	16.196		
13,200.00	7,217.26	4,452.00	4,517.00	170.90	153.71	-37.55	-3,991.95	-6,349.59	3,414.83	3,201.56	213.26	16.012		
13,300.00	7,216.66	4,452.00	4,517.00	173.70	153.71	-37.55	-3,991.95	-6,349.59	3,408.38	3,193.22	215.16	15.841		
13,400.00	7,216.07	4,452.00	4,517.00	176.49	153.71	-37.55	-3,991.95	-6,349.59	3,404.85	3,187.75	217.10	15.683		
13,470.01	7,215.65	4,452.00	4,517.00	178.45	153.71	-37.55	-3,991.95	-6,349.59	3,404.13	3,185.64	218.50	15.580 CC		
13,500.00	7,215.47	4,452.00	4,517.00	179.29	153.71	-37.55	-3,991.95	-6,349.59	3,404.27	3,185.17	219.10	15.538 ES		
13,600.00	7,214.88	4,452.00	4,517.00	182.09	153.71	-37.55	-3,991.95	-6,349.59	3,406.62	3,185.48	221.13	15.405		
13,700.00	7,214.28	4,452.00	4,517.00	184.90	153.71	-37.55	-3,991.95	-6,349.59	3,411.90	3,188.69	223.20	15.286		
13,800.00	7,213.68	4,452.00	4,517.00	187.70	153.71	-37.55	-3,991.95	-6,349.59	3,420.09	3,194.80	225.30	15.180		
13,900.00	7,213.09	4,452.00	4,517.00	190.51	153.71	-37.55	-3,991.95	-6,349.59	3,431.18	3,203.78	227.41	15.088		
14,000.00	7,212.49	4,452.00	4,517.00	193.32	153.71	-37.55	-3,991.95	-6,349.59	3,445.15	3,215.62	229.53	15.010		
14,100.00	7,211.90	4,452.00	4,517.00	196.13	153.71	-37.55	-3,991.95	-6,349.59	3,461.94	3,230.29	231.65	14.945		
14,200.00	7,211.30	4,452.00	4,517.00	198.94	153.71	-37.55	-3,991.95	-6,349.59	3,481.53	3,247.77	233.75	14.894		
14,300.00	7,210.71	4,452.00	4,517.00	201.75	153.71	-37.55	-3,991.95	-6,349.59	3,503.86	3,268.02	235.83	14.857		
14,400.00	7,210.11	4,452.00	4,517.00	204.56	153.71	-37.55	-3,991.95	-6,349.59	3,528.88	3,291.00	237.89	14.834		
14,500.00	7,209.51	4,452.00	4,517.00	207.38	153.71	-37.55	-3,991.95	-6,349.59	3,556.55	3,316.65	239.90	14.825 SF		
14,600.00	7,208.92	4,452.00	4,517.00	210.19	153.71	-37.55	-3,991.95	-6,349.59	3,586.78	3,344.92	241.86	14.830		
14,700.00	7,208.32	4,452.00	4,517.00	213.01	153.71	-37.55	-3,991.95	-6,349.59	3,619.53	3,375.76	243.77	14.848		
14,800.00	7,207.73	4,452.00	4,517.00	215.83	153.71	-37.55	-3,991.95	-6,349.59	3,654.72	3,409.11	245.61	14.880		
14,900.00	7,207.13	4,452.00	4,517.00	218.65	153.71	-37.55	-3,991.95	-6,349.59	3,692.29	3,444.90	247.39	14.925		
15,000.00	7,206.53	4,452.00	4,517.00	221.47	153.71	-37.55	-3,991.95	-6,349.59	3,732.16	3,483.06	249.10	14.983		
15,100.00	7,205.94	4,452.00	4,517.00	224.29	153.71	-37.55	-3,991.95	-6,349.59	3,774.26	3,523.53	250.73	15.053		
15,200.00	7,205.34	4,452.00	4,517.00	227.11	153.71	-37.55	-3,991.95	-6,349.59	3,818.51	3,566.23	252.28	15.136		
15,258.04	7,205.00	4,452.00	4,517.00	228.75	153.71	-37.55	-3,991.95	-6,349.59	3,845.15	3,592.01	253.14	15.190		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	1,377.00	1,306.28	3.28	7.39	-106.25	-2,569.30	-8,813.22	9,272.57					
100.00	100.00	1,377.00	1,306.28	3.28	7.39	-106.25	-2,569.30	-8,813.22	9,259.01	9,248.86	10.14	912.671		
200.00	200.00	1,437.58	1,366.13	3.34	7.68	-106.22	-2,562.19	-8,807.04	9,246.01	9,235.57	10.44	885.577		
300.00	299.98	1,483.85	1,411.84	3.44	7.91	69.30	-2,556.40	-8,802.85	9,233.10	9,222.37	10.73	860.742		
400.00	399.84	1,660.00	1,585.91	3.59	8.77	69.72	-2,535.48	-8,785.88	9,218.56	9,206.91	11.65	791.524		
500.00	499.45	1,700.93	1,626.37	3.79	8.97	70.06	-2,531.06	-8,781.54	9,202.71	9,190.71	12.01	766.510		
600.00	598.70	1,755.00	1,679.96	4.03	9.23	70.43	-2,525.56	-8,776.96	9,187.09	9,174.62	12.47	736.727		
700.00	697.47	700.00	1,712.66	4.31	4.60	70.80	-2,522.07	-8,774.17	9,170.46	9,161.81	8.64	1,061.004		
800.00	795.62	1,992.40	1,914.68	4.64	10.41	71.50	-2,496.99	-8,756.10	9,151.94	9,137.81	14.13	647.772		
900.00	893.06	2,296.37	2,214.28	5.00	12.02	72.52	-2,456.39	-8,724.84	9,130.71	9,114.80	15.91	574.049		
1,000.00	989.65	1,000.00	2,404.61	5.40	5.28	73.37	-2,429.58	-8,702.34	9,107.73	9,097.18	10.54	863.983		
1,100.00	1,085.85	2,547.72	2,461.46	5.82	13.40	73.50	-2,421.81	-8,695.10	9,083.76	9,065.87	17.89	507.831		
1,200.00	1,182.06	1,200.00	2,518.77	6.27	6.37	73.64	-2,414.68	-8,688.35	9,060.75	9,048.50	12.26	739.068		
1,300.00	1,278.26	2,759.71	2,670.17	6.73	14.56	73.99	-2,395.00	-8,669.51	9,037.34	9,017.58	19.76	457.389		
1,400.00	1,374.47	2,792.00	2,701.94	7.20	14.74	74.07	-2,390.78	-8,665.52	9,014.02	8,993.65	20.38	442.384		
1,500.00	1,470.67	2,792.00	2,701.94	7.69	14.74	74.07	-2,390.78	-8,665.52	8,991.66	8,970.81	20.86	431.149		
1,600.00	1,566.88	2,831.17	2,740.55	8.18	14.94	74.16	-2,385.94	-8,661.05	8,969.89	8,948.36	21.52	416.725		
1,700.00	1,663.08	2,847.73	2,756.91	8.68	15.03	74.19	-2,384.05	-8,659.36	8,949.17	8,927.07	22.10	404.931		
1,800.00	1,759.29	2,887.00	2,795.81	9.19	15.23	74.28	-2,379.96	-8,655.83	8,929.51	8,906.72	22.79	391.849		
1,900.00	1,855.49	3,030.65	2,937.88	9.70	15.97	74.61	-2,363.46	-8,642.53	8,909.97	8,886.01	23.96	371.840		
2,000.00	1,951.70	3,181.43	3,086.76	10.22	16.77	74.97	-2,344.44	-8,628.12	8,890.11	8,864.92	25.19	352.964		
2,100.00	2,047.90	3,227.69	3,132.43	10.73	17.02	75.08	-2,338.64	-8,623.60	8,870.01	8,844.08	25.93	342.067		
2,200.00	2,144.11	3,369.81	3,272.82	11.26	17.77	75.41	-2,321.56	-8,609.55	8,850.19	8,823.07	27.12	326.325		
2,300.00	2,240.31	3,412.25	3,314.74	11.78	17.99	75.52	-2,316.39	-8,605.35	8,830.33	8,802.47	27.86	316.996		
2,400.00	2,336.52	3,503.84	3,405.23	12.31	18.48	75.73	-2,305.34	-8,596.53	8,810.93	8,782.11	28.82	305.694		
2,500.00	2,432.72	3,543.00	3,443.90	12.84	18.69	75.83	-2,300.54	-8,592.67	8,791.65	8,762.10	29.55	297.510		
2,600.00	2,528.93	4,488.00	4,367.51	13.37	24.30	78.30	-2,152.17	-8,466.17	8,767.61	8,732.97	34.64	253.079		
2,700.00	2,625.13	4,529.95	4,408.20	13.91	24.57	78.41	-2,145.28	-8,458.57	8,740.46	8,705.04	35.42	246.780		
2,800.00	2,721.34	4,583.00	4,459.81	14.44	24.90	78.56	-2,136.94	-8,449.61	8,714.32	8,678.07	36.25	240.407		
2,900.00	2,817.54	4,583.00	4,459.81	14.98	24.90	78.56	-2,136.94	-8,449.61	8,688.69	8,651.86	36.83	235.905		
3,000.00	2,913.75	4,583.00	4,459.81	15.52	24.90	78.56	-2,136.94	-8,449.61	8,664.13	8,626.72	37.42	231.565		
3,100.00	3,009.95	4,583.00	4,459.81	16.06	24.90	78.56	-2,136.94	-8,449.61	8,640.67	8,602.67	38.00	227.383		
3,200.00	3,106.16	4,630.54	4,506.29	16.60	25.18	78.68	-2,130.06	-8,442.41	8,617.58	8,578.77	38.80	222.077		
3,300.00	3,202.37	4,678.00	4,552.95	17.14	25.46	78.80	-2,123.99	-8,436.25	8,596.03	8,556.42	39.61	217.017		
3,400.00	3,298.57	4,678.00	4,552.95	17.68	25.46	78.80	-2,123.99	-8,436.25	8,574.88	8,534.68	40.20	213.317		
3,500.00	3,394.78	4,678.00	4,552.95	18.22	25.46	78.80	-2,123.99	-8,436.25	8,554.84	8,514.06	40.78	209.755		
3,600.00	3,490.98	4,722.51	4,596.86	18.76	25.70	78.91	-2,118.86	-8,431.08	8,535.66	8,494.09	41.57	205.335		
3,700.00	3,587.19	4,772.00	4,645.77	19.31	25.96	79.03	-2,113.58	-8,425.63	8,517.20	8,474.82	42.38	200.986		
3,800.00	3,683.39	4,809.71	4,683.08	19.85	26.16	79.12	-2,109.81	-8,421.65	8,499.39	8,456.26	43.13	197.073		
3,900.00	3,779.60	4,867.00	4,739.81	20.39	26.45	79.25	-2,104.35	-8,415.83	8,482.19	8,438.23	43.97	192.929		
4,000.00	3,875.80	4,898.00	4,770.54	20.94	26.61	79.33	-2,101.54	-8,412.83	8,465.64	8,420.95	44.69	189.451		
4,100.00	3,972.01	4,933.12	4,805.38	21.48	26.78	79.41	-2,098.47	-8,409.64	8,449.85	8,404.43	45.42	186.029		
4,200.00	4,068.21	4,973.50	4,845.48	22.03	26.98	79.50	-2,095.11	-8,406.25	8,434.83	8,388.64	46.18	182.646		
4,300.00	4,164.42	5,033.45	4,905.04	22.57	27.27	79.64	-2,090.35	-8,401.44	8,420.39	8,373.36	47.02	179.076		
4,400.00	4,260.62	5,056.00	4,927.46	23.12	27.37	79.69	-2,088.63	-8,399.69	8,406.57	8,358.87	47.70	176.235		
4,500.00	4,356.83	5,099.11	4,970.34	23.67	27.57	79.79	-2,085.50	-8,396.62	8,393.49	8,345.03	48.46	173.191		
4,600.00	4,453.03	5,150.00	5,021.04	24.21	27.80	79.90	-2,082.15	-8,393.69	8,381.47	8,332.21	49.26	170.150		
4,700.00	4,549.24	5,156.88	5,027.89	24.76	27.83	79.92	-2,081.72	-8,393.34	8,370.07	8,320.21	49.86	167.858		
4,800.00	4,645.44	5,228.96	5,099.76	25.31	28.14	80.08	-2,077.63	-8,389.77	8,359.38	8,308.64	50.74	164.748		
4,900.00	4,741.65	5,243.00	5,113.77	25.86	28.20	80.11	-2,076.92	-8,389.08	8,349.32	8,297.95	51.37	162.529		
5,000.00	4,837.85	5,301.00	5,171.66	26.40	28.44	80.23	-2,074.23	-8,386.64	8,339.84	8,287.66	52.18	159.829		
5,100.00	4,934.06	5,336.00	5,206.61	26.95	28.59	80.30	-2,072.82	-8,385.53	8,331.29	8,278.40	52.89	157.516		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,389.67	5,260.24	27.50	28.80	80.41	-2,071.08	-8,384.10	8,323.45	8,269.78	53.67	155.079	
5,300.00	5,126.47	5,430.00	5,300.54	28.05	28.95	80.49	-2,070.16	-8,383.13	8,316.16	8,261.76	54.40	152.879	
5,400.00	5,222.67	5,510.37	5,380.88	28.60	29.25	80.65	-2,068.45	-8,381.53	8,309.30	8,254.02	55.28	150.307	
5,500.00	5,318.88	5,571.33	5,441.81	29.15	29.48	80.78	-2,066.92	-8,380.64	8,302.98	8,246.89	56.09	148.034	
5,600.00	5,415.08	5,632.18	5,502.63	29.70	29.71	80.90	-2,065.18	-8,380.01	8,297.15	8,240.26	56.89	145.837	
5,700.00	5,511.29	5,711.00	5,581.41	30.25	30.01	81.07	-2,062.61	-8,379.61	8,291.86	8,234.09	57.77	143.527	
5,800.00	5,607.49	5,758.90	5,629.29	30.79	30.19	81.17	-2,060.96	-8,379.56	8,286.99	8,228.47	58.52	141.602	
5,900.00	5,703.70	5,827.22	5,697.57	31.34	30.44	81.31	-2,058.69	-8,379.67	8,282.58	8,223.22	59.36	139.536	
6,000.00	5,799.90	5,895.60	5,765.91	31.89	30.70	81.45	-2,056.50	-8,379.99	8,278.58	8,218.39	60.19	137.535	
6,100.00	5,896.11	5,964.05	5,834.32	32.44	30.95	81.59	-2,054.40	-8,380.53	8,275.00	8,213.98	61.03	135.597	
6,200.00	5,992.32	6,054.36	5,924.59	32.99	31.29	81.78	-2,051.76	-8,381.47	8,271.78	8,209.82	61.95	133.521	
6,300.00	6,088.52	6,162.73	6,032.92	33.54	31.68	82.00	-2,048.75	-8,382.47	8,268.55	8,205.60	62.95	131.350	
6,400.00	6,184.73	6,271.20	6,141.35	34.09	32.08	82.23	-2,045.90	-8,383.29	8,265.29	8,201.34	63.95	129.246	
6,500.00	6,280.93	6,356.40	6,226.51	34.64	32.41	82.40	-2,043.49	-8,383.91	8,262.10	8,197.24	64.86	127.381	
6,600.00	6,377.14	6,439.68	6,309.74	35.19	32.72	82.58	-2,040.55	-8,384.68	8,259.16	8,193.40	65.77	125.585	
6,700.00	6,473.34	6,522.60	6,392.57	35.74	33.04	82.76	-2,037.05	-8,385.59	8,256.47	8,189.81	66.67	123.845	
6,800.00	6,569.55	6,628.53	6,498.37	36.29	33.46	82.99	-2,031.72	-8,386.86	8,253.98	8,186.29	67.69	121.944	
6,900.00	6,665.75	6,755.90	6,625.49	36.84	33.97	83.24	-2,023.88	-8,388.03	8,251.12	8,182.30	68.81	119.904	
7,000.00	6,761.11	6,881.09	6,750.33	37.39	34.48	83.52	-2,014.63	-8,388.74	8,238.06	8,168.15	69.92	117.824	
7,100.00	6,853.41	6,927.55	6,796.65	37.89	34.68	83.75	-2,011.04	-8,389.16	8,210.00	8,139.36	70.63	116.236	
7,200.00	6,940.36	6,987.26	6,856.16	38.34	34.93	83.99	-2,006.27	-8,389.81	8,167.65	8,096.29	71.35	114.472	
7,300.00	7,019.83	7,042.10	6,910.81	38.74	35.16	84.24	-2,001.80	-8,390.56	8,112.00	8,040.01	71.99	112.682	
7,400.00	7,089.85	7,090.78	6,959.32	39.10	35.36	84.50	-1,997.76	-8,391.37	8,044.33	7,971.78	72.54	110.890	
7,500.00	7,148.71	7,133.52	7,001.90	39.42	35.54	84.76	-1,994.15	-8,392.18	7,966.19	7,893.19	73.01	109.117	
7,600.00	7,194.95	7,180.93	7,049.14	39.71	35.73	85.02	-1,990.30	-8,393.12	7,879.37	7,805.94	73.42	107.317	
7,700.00	7,227.43	7,214.98	7,083.09	40.01	35.87	85.28	-1,987.71	-8,393.79	7,785.90	7,712.19	73.71	105.629	
7,800.00	7,245.37	7,234.70	7,102.75	40.37	35.95	85.54	-1,986.28	-8,394.17	7,688.07	7,614.20	73.87	104.075	
7,900.00	7,248.84	7,240.08	7,108.12	40.87	35.97	85.80	-1,985.90	-8,394.28	7,588.29	7,514.38	73.91	102.665	
8,000.00	7,248.24	7,241.41	7,109.44	41.62	35.98	86.06	-1,985.80	-8,394.30	7,488.30	7,414.38	73.92	101.297	
8,100.00	7,247.65	7,242.74	7,110.77	42.66	35.99	86.32	-1,985.71	-8,394.33	7,388.31	7,314.38	73.94	99.929	
8,200.00	7,247.05	7,244.07	7,112.10	43.96	35.99	86.58	-1,985.52	-8,394.35	7,288.32	7,214.37	73.95	98.560	
8,300.00	7,246.46	7,245.40	7,113.42	45.46	36.00	86.84	-1,985.52	-8,394.38	7,188.33	7,114.37	73.96	97.191	
8,400.00	7,245.86	7,246.73	7,114.75	47.13	36.00	87.10	-1,985.43	-8,394.41	7,088.34	7,014.37	73.97	95.821	
8,500.00	7,245.27	7,248.05	7,116.07	48.93	36.01	87.36	-1,985.34	-8,394.43	6,988.36	6,914.37	73.99	94.450	
8,600.00	7,244.67	7,249.38	7,117.40	50.84	36.01	87.62	-1,985.25	-8,394.46	6,888.37	6,814.36	74.01	93.079	
8,700.00	7,244.07	7,250.71	7,118.72	52.85	36.02	87.88	-1,985.15	-8,394.48	6,788.38	6,714.36	74.02	91.708	
8,800.00	7,243.48	7,252.03	7,120.04	54.94	36.02	88.14	-1,985.06	-8,394.51	6,688.39	6,614.35	74.04	90.336	
8,900.00	7,242.88	7,253.36	7,121.36	57.10	36.03	88.40	-1,984.97	-8,394.53	6,588.40	6,514.34	74.06	88.964	
9,000.00	7,242.29	7,254.68	7,122.68	59.32	36.03	88.66	-1,984.88	-8,394.56	6,488.41	6,414.34	74.08	87.592	
9,100.00	7,241.69	7,256.00	7,124.00	61.60	36.04	88.92	-1,984.79	-8,394.58	6,388.42	6,314.33	74.10	86.219	
9,200.00	7,241.09	7,257.32	7,125.32	63.92	36.04	89.18	-1,984.70	-8,394.61	6,288.43	6,214.32	74.12	84.846	
9,300.00	7,240.50	7,258.64	7,126.64	66.29	36.05	89.44	-1,984.61	-8,394.64	6,188.45	6,114.31	74.14	83.473	
9,400.00	7,239.90	7,259.96	7,127.95	68.70	36.06	89.70	-1,984.52	-8,394.66	6,088.46	6,014.30	74.16	82.100	
9,500.00	7,239.31	7,261.28	7,129.27	71.14	36.06	90.00	-1,984.43	-8,394.69	5,988.47	5,914.29	74.18	80.727	
9,600.00	7,238.71	7,262.60	7,130.58	73.61	36.07	90.30	-1,984.34	-8,394.71	5,888.48	5,814.28	74.20	79.354	
9,700.00	7,238.11	7,263.92	7,131.90	76.11	36.07	90.60	-1,984.25	-8,394.74	5,788.49	5,714.27	74.23	77.982	
9,800.00	7,237.52	7,265.24	7,133.21	78.64	36.08	90.90	-1,984.16	-8,394.76	5,688.51	5,614.25	74.25	76.609	
9,900.00	7,236.92	7,266.55	7,134.52	81.19	36.08	91.20	-1,984.07	-8,394.79	5,588.52	5,514.24	74.28	75.236	
10,000.00	7,236.33	7,267.87	7,135.83	83.75	36.09	91.50	-1,983.98	-8,394.81	5,488.53	5,414.23	74.31	73.864	
10,100.00	7,235.73	7,269.18	7,137.15	86.34	36.09	91.80	-1,983.89	-8,394.84	5,388.54	5,314.21	74.33	72.492	
10,200.00	7,235.14	7,270.49	7,138.46	88.94	36.10	92.10	-1,983.81	-8,394.87	5,288.56	5,214.20	74.36	71.120	
10,300.00	7,234.54	7,271.81	7,139.76	91.56	36.10	92.40	-1,983.72	-8,394.89	5,188.57	5,114.18	74.39	69.749	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,273.12	7,141.07	94.19	36.11	-41.15	-1,983.63	-8,394.92	5,088.58	5,014.17	74.42	68.378		
10,500.00	7,233.35	7,274.43	7,142.38	96.84	36.11	-41.70	-1,983.55	-8,394.94	4,988.60	4,914.15	74.45	67.008		
10,600.00	7,232.75	7,275.74	7,143.69	99.50	36.12	-42.27	-1,983.46	-8,394.97	4,888.61	4,814.13	74.48	65.638		
10,700.00	7,232.16	7,277.05	7,144.99	102.17	36.13	-42.86	-1,983.37	-8,394.99	4,788.62	4,714.12	74.51	64.269		
10,800.00	7,231.56	7,278.35	7,146.30	104.85	36.13	-43.45	-1,983.29	-8,395.02	4,688.64	4,614.10	74.54	62.900		
10,900.00	7,230.96	7,279.66	7,147.60	107.53	36.14	-44.07	-1,983.20	-8,395.04	4,588.65	4,514.08	74.57	61.532		
11,000.00	7,230.37	7,280.97	7,148.90	110.23	36.14	-44.70	-1,983.11	-8,395.07	4,488.67	4,414.06	74.61	60.165		
11,100.00	7,229.77	7,282.27	7,150.21	112.93	36.15	-45.34	-1,983.03	-8,395.09	4,388.68	4,314.04	74.64	58.798		
11,200.00	7,229.18	7,283.58	7,151.51	115.65	36.15	-46.00	-1,982.94	-8,395.12	4,288.70	4,214.02	74.67	57.433		
11,300.00	7,228.58	7,284.88	7,152.81	118.37	36.16	-46.68	-1,982.86	-8,395.14	4,188.71	4,114.00	74.71	56.068		
11,400.00	7,227.99	7,286.18	7,154.11	121.09	36.16	-47.38	-1,982.77	-8,395.17	4,088.73	4,013.99	74.74	54.704		
11,500.00	7,227.39	7,287.49	7,155.41	123.82	36.17	-48.09	-1,982.69	-8,395.19	3,988.75	3,913.97	74.78	53.341		
11,600.00	7,226.79	7,288.79	7,156.71	126.56	36.17	-48.82	-1,982.61	-8,395.22	3,888.76	3,813.95	74.81	51.979		
11,700.00	7,226.20	7,290.09	7,158.00	129.30	36.18	-49.57	-1,982.52	-8,395.24	3,788.78	3,713.93	74.85	50.617		
11,800.00	7,225.60	7,291.39	7,159.30	132.05	36.18	-50.34	-1,982.44	-8,395.27	3,688.80	3,613.91	74.89	49.257		
11,900.00	7,225.01	7,292.69	7,160.60	134.80	36.19	-51.13	-1,982.36	-8,395.29	3,588.81	3,513.89	74.93	47.899		
12,000.00	7,224.41	7,293.99	7,161.89	137.56	36.19	-51.94	-1,982.27	-8,395.32	3,488.83	3,413.87	74.96	46.541		
12,100.00	7,223.81	7,295.28	7,163.19	140.32	36.20	-52.77	-1,982.19	-8,395.34	3,388.85	3,313.85	75.00	45.184		
12,200.00	7,223.22	7,296.58	7,164.48	143.08	36.20	-53.62	-1,982.11	-8,395.37	3,288.87	3,213.83	75.04	43.829		
12,300.00	7,222.62	7,297.87	7,165.77	145.85	36.21	-54.49	-1,982.03	-8,395.39	3,188.89	3,113.81	75.08	42.474		
12,400.00	7,222.03	7,299.17	7,167.06	148.62	36.22	-55.39	-1,981.94	-8,395.42	3,088.91	3,013.80	75.12	41.121		
12,500.00	7,221.43	7,300.46	7,168.36	151.40	36.22	-56.30	-1,981.86	-8,395.44	2,988.94	2,913.78	75.16	39.770		
12,600.00	7,220.83	7,301.76	7,169.65	154.18	36.23	-57.24	-1,981.78	-8,395.47	2,888.96	2,813.76	75.20	38.419		
12,700.00	7,220.24	7,303.05	7,170.94	156.96	36.23	-58.20	-1,981.70	-8,395.49	2,788.98	2,713.75	75.23	37.070		
12,800.00	7,219.64	7,304.34	7,172.22	159.74	36.24	-59.19	-1,981.62	-8,395.52	2,689.01	2,613.73	75.27	35.723		
12,900.00	7,219.05	7,305.63	7,173.51	162.53	36.24	-60.19	-1,981.54	-8,395.54	2,589.03	2,513.72	75.31	34.376		
13,000.00	7,218.45	7,306.92	7,174.80	165.32	36.25	-61.22	-1,981.46	-8,395.57	2,489.06	2,413.71	75.35	33.031		
13,100.00	7,217.86	7,308.21	7,176.09	168.11	36.25	-62.28	-1,981.38	-8,395.59	2,389.09	2,313.70	75.39	31.688		
13,200.00	7,217.26	7,309.50	7,177.37	170.90	36.26	-63.35	-1,981.30	-8,395.62	2,289.12	2,213.69	75.44	30.346		
13,300.00	7,216.66	7,310.78	7,178.65	173.70	36.26	-64.46	-1,981.22	-8,395.64	2,189.16	2,113.68	75.48	29.005		
13,400.00	7,216.07	7,312.07	7,179.94	176.49	36.27	-65.58	-1,981.14	-8,395.67	2,089.19	2,013.68	75.52	27.665		
13,500.00	7,215.47	7,313.36	7,181.22	179.29	36.27	-66.73	-1,981.06	-8,395.69	1,989.23	1,913.67	75.56	26.327		
13,600.00	7,214.88	7,314.64	7,182.50	182.09	36.28	-67.90	-1,980.98	-8,395.71	1,889.28	1,813.67	75.60	24.990		
13,700.00	7,214.28	7,315.92	7,183.78	184.90	36.28	-69.09	-1,980.90	-8,395.74	1,789.32	1,713.68	75.64	23.654		
13,800.00	7,213.68	7,317.21	7,185.07	187.70	36.29	-70.31	-1,980.83	-8,395.76	1,689.37	1,613.68	75.69	22.320		
13,900.00	7,213.09	7,318.49	7,186.35	190.51	36.29	-71.54	-1,980.75	-8,395.79	1,589.43	1,513.69	75.74	20.986		
14,000.00	7,212.49	7,319.77	7,187.62	193.32	36.30	-72.80	-1,980.67	-8,395.81	1,489.49	1,413.70	75.79	19.653		
14,100.00	7,211.90	7,321.05	7,188.90	196.13	36.30	-74.08	-1,980.59	-8,395.84	1,389.56	1,313.71	75.85	18.320		
14,200.00	7,211.30	7,322.33	7,190.18	198.94	36.31	-75.38	-1,980.52	-8,395.86	1,289.64	1,213.73	75.91	16.988		
14,300.00	7,210.71	7,323.61	7,191.46	201.75	36.31	-76.70	-1,980.44	-8,395.89	1,189.73	1,113.74	75.99	15.656		
14,400.00	7,210.11	7,324.89	7,192.73	204.56	36.32	-78.03	-1,980.36	-8,395.91	1,089.84	1,013.75	76.09	14.322		
14,500.00	7,209.51	7,326.17	7,194.01	207.38	36.33	-79.38	-1,980.29	-8,395.94	989.97	913.74	76.23	12.987		
14,600.00	7,208.92	7,327.44	7,195.28	210.19	36.33	-80.75	-1,980.21	-8,395.96	890.12	813.71	76.41	11.649		
14,700.00	7,208.32	7,328.72	7,196.55	213.01	36.34	-82.13	-1,980.13	-8,395.98	790.31	713.63	76.68	10.306		
14,800.00	7,207.73	7,329.99	7,197.83	215.83	36.34	-83.53	-1,980.06	-8,396.01	690.56	613.45	77.10	8.956		
14,900.00	7,207.13	7,331.27	7,199.10	218.65	36.35	-84.93	-1,979.98	-8,396.03	590.88	513.07	77.80	7.595		
15,000.00	7,206.53	7,332.54	7,200.37	221.47	36.35	-86.34	-1,979.91	-8,396.06	491.33	412.28	79.05	6.216		
15,100.00	7,205.94	7,333.81	7,201.64	224.29	36.36	-87.77	-1,979.83	-8,396.08	392.01	310.54	81.46	4.812		
15,200.00	7,205.34	7,335.09	7,202.91	227.11	36.36	-89.19	-1,979.76	-8,396.11	293.14	206.39	86.75	3.379		
15,258.04	7,205.00	7,335.82	7,203.64	228.75	36.36	-90.03	-1,979.72	-8,396.12	236.18	143.23	92.95	2.541 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	29.00	3.28	3.28	-81.19	1,417.76	-9,142.51	9,251.83					
100.00	100.00	71.00	100.00	3.28	3.51	-81.19	1,417.76	-9,142.51	9,251.79	9,245.00	6.79	1,362.353		
200.00	200.00	171.00	200.00	3.34	5.35	-81.19	1,417.76	-9,142.51	9,251.79	9,243.10	8.69	1,065.252		
300.00	299.98	270.98	299.98	3.44	8.38	94.07	1,417.76	-9,142.51	9,251.91	9,240.09	11.82	782.598		
400.00	399.84	370.84	399.84	3.59	11.67	94.09	1,417.76	-9,142.51	9,252.29	9,237.03	15.26	606.342		
500.00	499.45	470.45	499.45	3.79	15.04	94.14	1,417.76	-9,142.51	9,252.91	9,234.09	18.83	491.492		
600.00	598.70	569.70	598.70	4.03	18.44	94.19	1,417.76	-9,142.51	9,253.81	9,231.34	22.47	411.903		
700.00	697.47	668.47	697.47	4.31	21.84	94.26	1,417.76	-9,142.51	9,254.97	9,228.82	26.15	353.889		
800.00	795.62	766.62	795.62	4.64	25.23	94.35	1,417.76	-9,142.51	9,256.43	9,226.56	29.87	309.899		
900.00	893.06	864.06	893.06	5.00	28.61	94.45	1,417.76	-9,142.51	9,258.20	9,224.60	33.61	275.491		
1,000.00	989.65	960.65	989.65	5.40	31.96	94.57	1,417.76	-9,142.51	9,260.31	9,222.95	37.35	247.904		
1,100.00	1,085.85	1,056.85	1,085.85	5.82	35.30	94.73	1,417.76	-9,142.51	9,262.61	9,221.48	41.12	225.248		
1,200.00	1,182.06	1,153.06	1,182.06	6.27	38.65	94.89	1,417.76	-9,142.51	9,264.98	9,220.07	44.91	206.292		
1,300.00	1,278.26	1,249.26	1,278.26	6.73	41.99	95.05	1,417.76	-9,142.51	9,267.44	9,218.72	48.72	190.218		
1,400.00	1,374.47	1,345.47	1,374.47	7.20	45.34	95.21	1,417.76	-9,142.51	9,269.98	9,217.43	52.54	176.428		
1,500.00	1,470.67	1,441.67	1,470.67	7.69	48.69	95.38	1,417.76	-9,142.51	9,272.59	9,216.22	56.38	164.475		
1,600.00	1,566.88	1,537.88	1,566.88	8.18	52.05	95.54	1,417.76	-9,142.51	9,275.29	9,215.07	60.22	154.021		
1,700.00	1,663.08	1,634.08	1,663.08	8.68	55.40	95.70	1,417.76	-9,142.51	9,278.06	9,213.99	64.07	144.804		
1,800.00	1,759.29	1,730.29	1,759.29	9.19	58.75	95.86	1,417.76	-9,142.51	9,280.92	9,212.99	67.93	136.621		
1,900.00	1,855.49	1,826.49	1,855.49	9.70	62.10	96.02	1,417.76	-9,142.51	9,283.85	9,212.06	71.80	129.309		
2,000.00	1,951.70	1,922.70	1,951.70	10.22	65.46	96.18	1,417.76	-9,142.51	9,286.87	9,211.20	75.67	122.736		
2,100.00	2,047.90	2,018.90	2,047.90	10.73	68.81	96.34	1,417.76	-9,142.51	9,289.96	9,210.42	79.54	116.799		
2,200.00	2,144.11	2,115.11	2,144.11	11.26	72.17	96.50	1,417.76	-9,142.51	9,293.13	9,209.72	83.41	111.409		
2,300.00	2,240.31	2,211.31	2,240.31	11.78	75.52	96.66	1,417.76	-9,142.51	9,296.38	9,209.09	87.29	106.495		
2,400.00	2,336.52	2,307.52	2,336.52	12.31	78.88	96.83	1,417.76	-9,142.51	9,299.71	9,208.53	91.18	101.997		
2,500.00	2,432.72	2,403.72	2,432.72	12.84	82.23	96.99	1,417.76	-9,142.51	9,303.12	9,208.06	95.06	97.865		
2,600.00	2,528.93	2,500.07	2,528.93	13.37	85.60	97.15	1,417.76	-9,142.51	9,306.61	9,207.65	98.95	94.052		
2,700.00	2,625.13	2,603.87	2,625.13	13.91	89.22	97.31	1,417.76	-9,142.51	9,310.17	9,207.07	103.10	90.299		
2,800.00	2,721.34	2,707.66	2,721.34	14.44	92.84	97.47	1,417.76	-9,142.51	9,313.82	9,206.56	107.26	86.835		
2,900.00	2,817.54	2,788.54	2,817.54	14.98	95.66	97.63	1,417.76	-9,142.51	9,317.54	9,206.92	110.61	84.234		
3,000.00	2,913.75	2,884.75	2,913.75	15.52	99.02	97.79	1,417.76	-9,142.51	9,321.34	9,206.83	114.51	81.404		
3,100.00	3,009.95	2,980.95	3,009.95	16.06	102.37	97.95	1,417.76	-9,142.51	9,325.22	9,206.82	118.40	78.761		
3,200.00	3,106.16	3,077.16	3,106.16	16.60	105.73	98.11	1,417.76	-9,142.51	9,329.18	9,206.88	122.29	76.285		
3,300.00	3,202.37	3,173.37	3,202.37	17.14	109.09	98.27	1,417.76	-9,142.51	9,333.21	9,207.02	126.19	73.963		
3,400.00	3,298.57	3,269.57	3,298.57	17.68	112.44	98.43	1,417.76	-9,142.51	9,337.33	9,207.24	130.08	71.779		
3,500.00	3,394.78	3,365.78	3,394.78	18.22	115.80	98.59	1,417.76	-9,142.51	9,341.52	9,207.54	133.98	69.723		
3,600.00	3,490.98	3,461.98	3,490.98	18.76	119.16	98.75	1,417.76	-9,142.51	9,345.79	9,207.91	137.88	67.784		
3,700.00	3,587.19	3,558.19	3,587.19	19.31	122.51	98.90	1,417.76	-9,142.51	9,350.14	9,208.36	141.77	65.951		
3,800.00	3,683.39	3,654.39	3,683.39	19.85	125.87	99.06	1,417.76	-9,142.51	9,354.56	9,208.89	145.67	64.217		
3,900.00	3,779.60	3,750.60	3,779.60	20.39	129.23	99.22	1,417.76	-9,142.51	9,359.06	9,209.49	149.57	62.573		
4,000.00	3,875.80	3,846.80	3,875.80	20.94	132.59	99.38	1,417.76	-9,142.51	9,363.64	9,210.17	153.47	61.013		
4,100.00	3,972.01	3,943.01	3,972.01	21.48	135.94	99.54	1,417.76	-9,142.51	9,368.30	9,210.93	157.37	59.531		
4,200.00	4,068.21	4,039.21	4,068.21	22.03	139.30	99.70	1,417.76	-9,142.51	9,373.03	9,211.77	161.27	58.121		
4,300.00	4,164.42	4,135.42	4,164.42	22.57	142.66	99.86	1,417.76	-9,142.51	9,377.84	9,212.68	165.17	56.778		
4,400.00	4,260.62	4,231.62	4,260.62	23.12	146.02	100.01	1,417.76	-9,142.51	9,382.73	9,213.67	169.07	55.498		
4,500.00	4,356.83	4,327.83	4,356.83	23.67	149.38	100.17	1,417.76	-9,142.51	9,387.70	9,214.73	172.97	54.275		
4,600.00	4,453.03	4,424.03	4,453.03	24.21	152.73	100.33	1,417.76	-9,142.51	9,392.74	9,215.87	176.87	53.107		
4,700.00	4,549.24	4,520.24	4,549.24	24.76	156.09	100.49	1,417.76	-9,142.51	9,397.85	9,217.09	180.77	51.989		
4,800.00	4,645.44	4,616.44	4,645.44	25.31	159.45	100.65	1,417.76	-9,142.51	9,403.05	9,218.38	184.67	50.919		
4,900.00	4,741.65	4,712.65	4,741.65	25.86	162.81	100.80	1,417.76	-9,142.51	9,408.32	9,219.75	188.57	49.894		
5,000.00	4,837.85	4,808.85	4,837.85	26.40	166.16	100.96	1,417.76	-9,142.51	9,413.67	9,221.20	192.47	48.911		
5,100.00	4,934.06	4,905.06	4,934.06	26.95	169.52	101.12	1,417.76	-9,142.51	9,419.09	9,222.72	196.37	47.967		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,001.26	5,030.26	27.50	172.88	101.27	1,417.76	-9,142.51	9,424.59	9,224.32	200.27	47.060		
5,300.00	5,126.47	5,102.53	5,126.47	28.05	176.41	101.43	1,417.76	-9,142.51	9,430.16	9,225.82	204.34	46.148		
5,400.00	5,222.67	5,206.33	5,222.67	28.60	180.04	101.59	1,417.76	-9,142.51	9,435.81	9,227.30	208.51	45.254		
5,500.00	5,318.88	5,289.88	5,318.88	29.15	182.95	101.74	1,417.76	-9,142.51	9,441.54	9,229.57	211.97	44.542		
5,600.00	5,415.08	5,386.08	5,415.08	29.70	186.31	101.90	1,417.76	-9,142.51	9,447.34	9,231.47	215.87	43.764		
5,700.00	5,511.29	5,482.29	5,511.29	30.25	189.67	102.06	1,417.76	-9,142.51	9,453.21	9,233.44	219.77	43.014		
5,800.00	5,607.49	5,578.49	5,607.49	30.79	193.03	102.21	1,417.76	-9,142.51	9,459.16	9,235.49	223.67	42.291		
5,900.00	5,703.70	5,674.70	5,703.70	31.34	196.39	102.37	1,417.76	-9,142.51	9,465.19	9,237.62	227.57	41.592		
6,000.00	5,799.90	5,770.90	5,799.90	31.89	199.74	102.52	1,417.76	-9,142.51	9,471.29	9,239.82	231.47	40.918		
6,100.00	5,896.11	5,867.11	5,896.11	32.44	203.10	102.68	1,417.76	-9,142.51	9,477.46	9,242.09	235.37	40.266		
6,200.00	5,992.32	5,963.32	5,992.32	32.99	206.46	102.83	1,417.76	-9,142.51	9,483.71	9,244.44	239.27	39.636		
6,300.00	6,088.52	6,059.52	6,088.52	33.54	209.82	102.99	1,417.76	-9,142.51	9,490.04	9,246.87	243.17	39.026		
6,400.00	6,184.73	6,155.73	6,184.73	34.09	213.18	103.14	1,417.76	-9,142.51	9,496.44	9,249.37	247.07	38.436		
6,500.00	6,280.93	6,251.93	6,280.93	34.64	216.53	103.30	1,417.76	-9,142.51	9,502.91	9,251.94	250.97	37.865		
6,600.00	6,377.14	6,348.14	6,377.14	35.19	219.89	103.45	1,417.76	-9,142.51	9,509.45	9,254.58	254.87	37.311		
6,700.00	6,473.34	6,444.34	6,473.34	35.74	223.25	103.60	1,417.76	-9,142.51	9,516.07	9,257.30	258.77	36.774		
6,800.00	6,569.55	6,540.55	6,569.55	36.29	226.61	103.76	1,417.76	-9,142.51	9,522.77	9,260.10	262.67	36.254		
6,900.00	6,665.75	6,636.75	6,665.75	36.84	229.97	99.24	1,417.76	-9,142.51	9,529.37	9,262.80	266.57	35.748		
7,000.00	6,761.11	6,732.11	6,761.11	37.39	233.30	73.34	1,417.76	-9,142.51	9,526.59	9,256.16	270.44	35.227		
7,100.00	6,853.41	6,824.41	6,853.41	37.89	236.52	58.42	1,417.76	-9,142.51	9,509.18	9,235.02	274.17	34.684		
7,200.00	6,940.36	6,911.36	6,940.36	38.34	239.55	50.78	1,417.76	-9,142.51	9,477.62	9,199.95	277.67	34.133		
7,300.00	7,019.83	7,009.18	7,019.83	38.74	242.97	47.37	1,417.76	-9,142.51	9,432.72	9,151.21	281.51	33.508		
7,400.00	7,089.85	7,060.85	7,089.85	39.10	244.77	46.84	1,417.76	-9,142.51	9,375.62	9,091.91	283.71	33.047		
7,500.00	7,148.71	7,119.71	7,148.71	39.42	246.83	48.84	1,417.76	-9,142.51	9,307.74	9,021.60	286.13	32.529		
7,600.00	7,194.95	7,165.95	7,194.95	39.71	248.44	53.67	1,417.76	-9,142.51	9,230.76	8,942.66	288.10	32.040		
7,700.00	7,227.43	7,201.57	7,227.43	40.01	249.68	62.34	1,417.76	-9,142.51	9,146.58	8,856.90	289.69	31.574		
7,800.00	7,245.37	7,216.37	7,245.37	40.37	250.20	76.46	1,417.76	-9,142.51	9,057.25	8,766.71	290.54	31.174		
7,900.00	7,248.84	7,219.84	7,248.84	40.87	250.32	90.85	1,417.76	-9,142.51	8,964.97	8,673.99	290.99	30.809		
8,000.00	7,248.24	7,219.24	7,248.24	41.62	250.30	90.84	1,417.76	-9,142.51	8,872.30	8,580.99	291.31	30.456		
8,100.00	7,247.65	7,218.65	7,247.65	42.66	250.28	90.83	1,417.76	-9,142.51	8,779.79	8,488.12	291.68	30.101		
8,200.00	7,247.05	7,218.05	7,247.05	43.96	250.26	90.82	1,417.76	-9,142.51	8,687.45	8,395.37	292.08	29.744		
8,300.00	7,246.46	7,217.46	7,246.46	45.46	250.24	90.81	1,417.76	-9,142.51	8,595.28	8,302.76	292.52	29.384		
8,400.00	7,245.86	7,216.86	7,245.86	47.13	250.22	90.80	1,417.76	-9,142.51	8,503.28	8,210.28	293.00	29.022		
8,500.00	7,245.27	7,216.27	7,245.27	48.93	250.20	90.79	1,417.76	-9,142.51	8,411.47	8,117.95	293.52	28.657		
8,600.00	7,244.67	7,215.67	7,244.67	50.84	250.18	90.78	1,417.76	-9,142.51	8,319.84	8,025.76	294.08	28.291		
8,700.00	7,244.07	7,215.07	7,244.07	52.85	250.15	90.77	1,417.76	-9,142.51	8,228.41	7,933.72	294.69	27.922		
8,800.00	7,243.48	7,214.48	7,243.48	54.94	250.13	90.76	1,417.76	-9,142.51	8,137.19	7,841.84	295.34	27.552		
8,900.00	7,242.88	7,213.88	7,242.88	57.10	250.11	90.75	1,417.76	-9,142.51	8,046.17	7,750.13	296.04	27.179		
9,000.00	7,242.29	7,213.29	7,242.29	59.32	250.09	90.74	1,417.76	-9,142.51	7,955.36	7,658.58	296.78	26.805		
9,100.00	7,241.69	7,212.69	7,241.69	61.60	250.07	90.72	1,417.76	-9,142.51	7,864.78	7,567.21	297.57	26.430		
9,200.00	7,241.09	7,212.09	7,241.09	63.92	250.05	90.71	1,417.76	-9,142.51	7,774.43	7,476.02	298.41	26.053		
9,300.00	7,240.50	7,211.50	7,240.50	66.29	250.03	90.70	1,417.76	-9,142.51	7,684.32	7,385.02	299.30	25.675		
9,400.00	7,239.90	7,210.90	7,239.90	68.70	250.01	90.69	1,417.76	-9,142.51	7,594.46	7,294.22	300.23	25.295		
9,500.00	7,239.31	7,210.31	7,239.31	71.14	249.99	90.68	1,417.76	-9,142.51	7,504.85	7,203.63	301.22	24.915		
9,600.00	7,238.71	7,209.71	7,238.71	73.61	249.97	90.67	1,417.76	-9,142.51	7,415.51	7,113.24	302.26	24.533		
9,700.00	7,238.11	7,209.11	7,238.11	76.11	249.95	90.66	1,417.76	-9,142.51	7,326.44	7,023.08	303.36	24.151		
9,800.00	7,237.52	7,208.52	7,237.52	78.64	249.93	90.65	1,417.76	-9,142.51	7,237.66	6,933.16	304.50	23.769		
9,900.00	7,236.92	7,207.92	7,236.92	81.19	249.91	90.64	1,417.76	-9,142.51	7,149.18	6,843.47	305.71	23.386		
10,000.00	7,236.33	7,207.33	7,236.33	83.75	249.88	90.63	1,417.76	-9,142.51	7,061.00	6,754.03	306.96	23.003		
10,100.00	7,235.73	7,206.73	7,235.73	86.34	249.86	90.62	1,417.76	-9,142.51	6,973.14	6,664.86	308.28	22.620		
10,200.00	7,235.14	7,206.14	7,235.14	88.94	249.84	90.61	1,417.76	-9,142.51	6,885.61	6,575.96	309.65	22.237		
10,300.00	7,234.54	7,205.54	7,234.54	91.56	249.82	90.60	1,417.76	-9,142.51	6,798.43	6,487.35	311.08	21.854		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,204.94	7,233.94	94.19	249.80	90.59	1,417.76	-9,142.51	6,711.61	6,399.03	312.57	21.472	
10,500.00	7,233.35	7,204.35	7,233.35	96.84	249.78	90.58	1,417.76	-9,142.51	6,625.15	6,311.03	314.12	21.091	
10,600.00	7,232.75	7,203.75	7,232.75	99.50	249.76	90.57	1,417.76	-9,142.51	6,539.08	6,223.35	315.74	20.711	
10,700.00	7,232.16	7,203.16	7,232.16	102.17	249.74	90.56	1,417.76	-9,142.51	6,453.42	6,136.01	317.41	20.331	
10,800.00	7,231.56	7,202.56	7,231.56	104.85	249.72	90.55	1,417.76	-9,142.51	6,368.17	6,049.02	319.15	19.953	
10,900.00	7,230.96	7,201.96	7,230.96	107.53	249.70	90.54	1,417.76	-9,142.51	6,283.36	5,962.40	320.96	19.577	
11,000.00	7,230.37	7,201.37	7,230.37	110.23	249.68	90.53	1,417.76	-9,142.51	6,199.00	5,876.16	322.83	19.202	
11,100.00	7,229.77	7,200.77	7,229.77	112.93	249.66	90.52	1,417.76	-9,142.51	6,115.11	5,790.33	324.77	18.829	
11,200.00	7,229.18	7,200.18	7,229.18	115.65	249.63	90.51	1,417.76	-9,142.51	6,031.71	5,704.93	326.78	18.458	
11,300.00	7,228.58	7,200.42	7,228.58	118.37	249.64	90.50	1,417.76	-9,142.51	5,948.82	5,619.93	328.89	18.087	
11,400.00	7,227.99	7,201.02	7,227.99	121.09	249.66	90.49	1,417.76	-9,142.51	5,866.47	5,535.38	331.09	17.719	
11,500.00	7,227.39	7,201.61	7,227.39	123.82	249.68	90.48	1,417.76	-9,142.51	5,784.68	5,451.32	333.35	17.353	
11,600.00	7,226.79	7,202.21	7,226.79	126.56	249.71	90.47	1,417.76	-9,142.51	5,703.46	5,367.76	335.70	16.990	
11,700.00	7,226.20	7,202.80	7,226.20	129.30	249.73	90.46	1,417.76	-9,142.51	5,622.85	5,284.73	338.11	16.630	
11,800.00	7,225.60	7,203.40	7,225.60	132.05	249.75	90.45	1,417.76	-9,142.51	5,542.87	5,202.26	340.61	16.273	
11,900.00	7,225.01	7,203.99	7,225.01	134.80	249.77	90.44	1,417.76	-9,142.51	5,463.55	5,120.37	343.18	15.920	
12,000.00	7,224.41	7,204.59	7,224.41	137.56	249.79	90.43	1,417.76	-9,142.51	5,384.92	5,039.08	345.84	15.571	
12,100.00	7,223.81	7,205.19	7,223.81	140.32	249.81	90.42	1,417.76	-9,142.51	5,307.01	4,958.44	348.57	15.225	
12,200.00	7,223.22	7,205.78	7,223.22	143.08	249.83	90.41	1,417.76	-9,142.51	5,229.85	4,878.46	351.39	14.883	
12,300.00	7,222.62	7,206.38	7,222.62	145.85	249.85	90.40	1,417.76	-9,142.51	5,153.47	4,799.18	354.29	14.546	
12,400.00	7,222.03	7,206.97	7,222.03	148.62	249.87	90.39	1,417.76	-9,142.51	5,077.92	4,720.64	357.28	14.213	
12,500.00	7,221.43	7,207.57	7,221.43	151.40	249.89	90.38	1,417.76	-9,142.51	5,003.22	4,642.87	360.35	13.884	
12,600.00	7,220.83	7,208.17	7,220.83	154.18	249.91	90.37	1,417.76	-9,142.51	4,929.42	4,565.91	363.51	13.561	
12,700.00	7,220.24	7,208.76	7,220.24	156.96	249.93	90.36	1,417.76	-9,142.51	4,856.56	4,489.80	366.75	13.242	
12,800.00	7,219.64	7,209.36	7,219.64	159.74	249.96	90.35	1,417.76	-9,142.51	4,784.68	4,414.59	370.09	12.928	
12,900.00	7,219.05	7,209.95	7,219.05	162.53	249.98	90.34	1,417.76	-9,142.51	4,713.82	4,340.31	373.51	12.620	
13,000.00	7,218.45	7,218.45	7,218.45	165.32	249.26	90.33	1,417.76	-9,142.51	4,644.04	4,267.75	376.28	12.342	
13,100.00	7,217.86	7,218.86	7,217.86	168.11	249.24	90.32	1,417.76	-9,142.51	4,575.37	4,195.54	379.84	12.046	
13,200.00	7,217.26	7,218.26	7,217.26	170.90	249.22	90.31	1,417.76	-9,142.51	4,507.88	4,124.40	383.48	11.755	
13,300.00	7,216.66	7,217.66	7,216.66	173.70	249.20	90.30	1,417.76	-9,142.51	4,441.62	4,054.41	387.21	11.471	
13,400.00	7,216.07	7,217.07	7,216.07	176.49	249.18	90.29	1,417.76	-9,142.51	4,376.64	3,985.61	391.02	11.193	
13,500.00	7,215.47	7,216.47	7,215.47	179.29	249.16	90.28	1,417.76	-9,142.51	4,312.99	3,918.08	394.92	10.921	
13,600.00	7,214.88	7,215.88	7,214.88	182.09	249.14	90.27	1,417.76	-9,142.51	4,250.75	3,851.86	398.89	10.656	
13,700.00	7,214.28	7,215.28	7,214.28	184.90	249.11	90.26	1,417.76	-9,142.51	4,189.97	3,787.03	402.94	10.398	
13,800.00	7,213.68	7,214.68	7,213.68	187.70	249.09	90.25	1,417.76	-9,142.51	4,130.71	3,723.65	407.07	10.148	
13,900.00	7,213.09	7,214.09	7,213.09	190.51	249.07	90.24	1,417.76	-9,142.51	4,073.05	3,661.79	411.26	9.904	
14,000.00	7,212.49	7,213.49	7,212.49	193.32	249.05	90.23	1,417.76	-9,142.51	4,017.05	3,601.54	415.51	9.668	
14,100.00	7,211.90	7,212.90	7,211.90	196.13	249.03	90.22	1,417.76	-9,142.51	3,962.79	3,542.96	419.83	9.439	
14,200.00	7,211.30	7,212.30	7,211.30	198.94	249.01	90.21	1,417.76	-9,142.51	3,910.32	3,486.14	424.19	9.218	
14,300.00	7,210.71	7,211.71	7,210.71	201.75	248.99	90.20	1,417.76	-9,142.51	3,859.74	3,431.15	428.59	9.006	
14,400.00	7,210.11	7,211.11	7,210.11	204.56	248.97	90.18	1,417.76	-9,142.51	3,811.11	3,378.08	433.03	8.801	
14,500.00	7,209.51	7,210.51	7,209.51	207.38	248.95	90.17	1,417.76	-9,142.51	3,764.51	3,327.02	437.49	8.605	
14,600.00	7,208.92	7,209.92	7,208.92	210.19	248.93	90.16	1,417.76	-9,142.51	3,720.01	3,278.05	441.96	8.417	
14,700.00	7,208.32	7,209.32	7,208.32	213.01	248.91	90.15	1,417.76	-9,142.51	3,677.69	3,231.25	446.44	8.238	
14,800.00	7,207.73	7,208.73	7,207.73	215.83	248.89	90.14	1,417.76	-9,142.51	3,637.63	3,186.73	450.90	8.067	
14,900.00	7,207.13	7,208.13	7,207.13	218.65	248.87	90.13	1,417.76	-9,142.51	3,599.91	3,144.57	455.34	7.906	
15,000.00	7,206.53	7,207.53	7,206.53	221.47	248.84	90.12	1,417.76	-9,142.51	3,564.59	3,104.85	459.74	7.753	
15,100.00	7,205.94	7,206.94	7,205.94	224.29	248.82	90.11	1,417.76	-9,142.51	3,531.75	3,067.66	464.09	7.610	
15,200.00	7,205.34	7,206.34	7,205.34	227.11	248.80	90.10	1,417.76	-9,142.51	3,501.46	3,033.09	468.36	7.476	
15,258.04	7,205.00	7,206.00	7,205.00	228.75	248.79	90.10	1,417.76	-9,142.51	3,485.07	3,014.26	470.81	7.402 CC, ES, SF	



## Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
0.00	0.00	15.42	1.42	3.28	3.28	2.78	2,464.16	119.58	2,467.06					
100.00	100.00	126.49	112.49	3.28	3.30	2.77	2,463.88	119.20	2,466.80	2,460.21	6.58	374.819		
200.00	200.00	235.82	221.81	3.34	3.38	2.77	2,463.06	119.07	2,466.04	2,459.32	6.71	367.349		
225.54	225.54	261.52	247.51	3.36	3.40	178.01	2,462.84	119.08	2,465.92	2,459.16	6.76	364.658 CC, ES		
300.00	299.98	332.75	318.74	3.44	3.50	178.01	2,462.22	119.04	2,466.91	2,459.97	6.94	355.608		
400.00	399.84	422.64	408.63	3.59	3.65	178.00	2,461.74	118.50	2,471.58	2,464.34	7.24	341.357		
500.00	499.45	511.27	497.26	3.79	3.83	177.99	2,461.66	117.72	2,480.16	2,472.54	7.62	325.375		
600.00	598.70	601.89	587.87	4.03	4.04	177.97	2,461.94	116.85	2,492.60	2,484.52	8.08	308.548		
700.00	697.47	690.40	676.38	4.31	4.28	177.95	2,462.53	116.40	2,508.86	2,500.27	8.59	292.137		
800.00	795.62	810.08	796.06	4.64	4.62	177.96	2,463.09	116.45	2,528.40	2,519.16	9.24	273.676		
900.00	893.06	889.77	875.74	5.00	4.87	177.96	2,463.41	116.60	2,551.27	2,541.45	9.82	259.844		
1,000.00	989.65	1,006.53	992.51	5.40	5.24	177.97	2,463.81	116.93	2,577.48	2,566.92	10.56	244.059		
1,100.00	1,085.85	1,100.38	1,086.35	5.82	5.56	178.00	2,463.75	117.35	2,604.72	2,593.48	11.24	231.691		
1,200.00	1,182.06	1,190.01	1,175.98	6.27	5.87	178.04	2,463.82	118.03	2,632.09	2,620.16	11.93	220.547		
1,300.00	1,278.26	1,300.78	1,286.74	6.73	6.27	178.08	2,463.77	118.78	2,659.36	2,646.64	12.73	208.923		
1,400.00	1,374.47	1,388.49	1,374.46	7.20	6.59	178.10	2,463.63	118.93	2,686.49	2,673.03	13.45	199.686		
1,500.00	1,470.67	1,497.10	1,483.06	7.69	7.00	178.13	2,463.42	119.06	2,713.59	2,699.31	14.28	190.056		
1,600.00	1,566.88	1,602.92	1,588.88	8.18	7.40	178.15	2,462.74	119.30	2,740.25	2,725.15	15.11	181.398		
1,700.00	1,663.08	1,698.19	1,684.15	8.68	7.77	178.17	2,462.01	119.07	2,766.78	2,750.88	15.90	173.984		
1,800.00	1,759.29	1,801.36	1,787.31	9.19	8.17	178.17	2,461.14	118.33	2,793.21	2,776.46	16.74	166.828		
1,900.00	1,855.49	1,883.32	1,869.27	9.70	8.50	178.17	2,460.57	117.61	2,819.77	2,802.27	17.50	161.149		
2,000.00	1,951.70	1,992.06	1,978.01	10.22	8.93	178.17	2,459.94	116.77	2,846.45	2,828.07	18.38	154.871		
2,100.00	2,047.90	2,077.47	2,063.41	10.73	9.27	178.17	2,459.32	115.96	2,872.99	2,853.82	19.16	149.936		
2,200.00	2,144.11	2,164.46	2,150.38	11.26	9.62	178.17	2,459.07	114.84	2,899.91	2,879.96	19.95	145.328		
2,300.00	2,240.31	2,245.05	2,230.97	11.78	9.94	178.16	2,459.10	114.04	2,927.19	2,906.47	20.72	141.276		
2,400.00	2,336.52	2,322.52	2,308.44	12.31	10.25	178.17	2,459.65	113.45	2,955.10	2,933.63	21.47	137.629		
2,500.00	2,432.72	2,405.83	2,391.74	12.84	10.59	178.16	2,460.67	112.43	2,983.48	2,961.23	22.25	134.070		
2,600.00	2,528.93	2,484.51	2,470.40	13.37	10.91	178.15	2,462.03	111.26	3,012.35	2,989.33	23.01	130.895		
2,700.00	2,625.13	2,565.71	2,551.56	13.91	11.25	178.14	2,463.88	110.04	3,041.72	3,017.93	23.79	127.870		
2,800.00	2,721.34	2,675.21	2,661.02	14.44	11.70	178.12	2,466.55	108.31	3,071.28	3,046.57	24.71	124.294		
2,900.00	2,817.54	2,769.65	2,755.43	14.98	12.09	178.10	2,468.40	106.82	3,100.35	3,074.79	25.56	121.310		
3,000.00	2,913.75	2,874.13	2,859.87	15.52	12.52	178.08	2,470.56	104.73	3,129.51	3,103.05	26.46	118.272		
3,100.00	3,009.95	2,978.16	2,963.86	16.06	12.95	178.05	2,472.30	102.34	3,158.27	3,130.91	27.36	115.418		
3,200.00	3,106.16	3,062.32	3,047.99	16.60	13.30	178.03	2,473.71	100.64	3,187.07	3,158.90	28.16	113.163		
3,300.00	3,202.37	3,158.83	3,144.46	17.14	13.70	178.01	2,475.67	98.84	3,216.20	3,187.17	29.03	110.788		
3,400.00	3,298.57	3,245.34	3,230.94	17.68	14.06	178.00	2,477.28	97.45	3,245.19	3,215.35	29.84	108.739		
3,500.00	3,394.78	3,317.30	3,302.87	18.22	14.36	177.99	2,479.11	96.31	3,274.82	3,244.24	30.58	107.099		
3,600.00	3,490.98	3,390.94	3,376.47	18.76	14.67	177.99	2,481.47	95.34	3,305.09	3,273.77	31.32	105.532		
3,700.00	3,587.19	3,520.41	3,505.88	19.31	15.21	177.99	2,485.25	94.65	3,335.11	3,302.74	32.37	103.017		
3,800.00	3,683.39	3,603.13	3,588.56	19.85	15.56	178.00	2,487.47	94.32	3,364.93	3,331.76	33.17	101.450		
3,900.00	3,779.60	3,749.11	3,734.52	20.39	16.17	178.00	2,490.07	93.07	3,393.70	3,359.38	34.32	98.883		
4,000.00	3,875.80	3,847.44	3,832.83	20.94	16.58	178.00	2,491.50	92.03	3,422.32	3,387.11	35.21	97.207		
4,100.00	3,972.01	3,974.43	3,959.78	21.48	17.11	177.97	2,492.72	89.25	3,450.43	3,414.17	36.25	95.174		
4,200.00	4,068.21	4,080.69	4,066.01	22.03	17.56	177.94	2,493.01	86.42	3,477.82	3,440.63	37.19	93.522		
4,300.00	4,164.42	4,163.94	4,149.22	22.57	17.91	177.91	2,493.28	84.19	3,505.29	3,467.29	37.99	92.261		
4,400.00	4,260.62	4,250.37	4,235.63	23.12	18.27	177.90	2,493.90	82.46	3,533.15	3,494.33	38.82	91.023		
4,500.00	4,356.83	4,335.10	4,320.35	23.67	18.63	177.89	2,494.65	81.03	3,561.20	3,521.57	39.63	89.863		
4,600.00	4,453.03	4,412.74	4,397.97	24.21	18.96	177.89	2,495.70	80.24	3,589.72	3,549.32	40.40	88.853		
4,700.00	4,549.24	4,502.31	4,487.53	24.76	19.34	177.88	2,497.20	79.33	3,618.54	3,577.30	41.24	87.742		
4,800.00	4,645.44	4,575.40	4,560.60	25.31	19.64	177.88	2,498.73	78.30	3,647.75	3,605.77	41.98	86.886		
4,900.00	4,741.65	4,693.17	4,678.31	25.86	20.14	177.86	2,501.40	76.26	3,677.16	3,634.16	42.99	85.532		
5,000.00	4,837.85	4,808.90	4,794.01	26.40	20.63	177.84	2,503.20	73.89	3,705.82	3,661.83	43.99	84.246		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	4,925.35	4,910.41	26.95	21.12	177.81	2,504.22	71.00	3,733.79	3,688.80	44.99	82.993		
5,200.00	5,030.26	5,002.65	4,987.68	27.50	21.45	177.79	2,505.02	68.79	3,761.92	3,716.16	45.76	82.209		
5,300.00	5,126.47	5,115.75	5,100.74	28.05	21.93	177.76	2,506.10	65.90	3,789.98	3,743.24	46.74	81.080		
5,400.00	5,222.67	5,196.97	5,181.95	28.60	22.27	177.76	2,506.86	64.62	3,818.09	3,770.55	47.54	80.317		
5,500.00	5,318.88	5,284.22	5,269.18	29.15	22.64	177.75	2,507.95	63.54	3,846.49	3,798.12	48.37	79.527		
5,600.00	5,415.08	5,379.75	5,364.70	29.70	23.05	177.75	2,509.25	62.53	3,875.02	3,825.77	49.25	78.686		
5,700.00	5,511.29	5,473.13	5,458.07	30.25	23.44	177.76	2,510.50	62.20	3,903.56	3,853.44	50.11	77.895		
5,800.00	5,607.49	5,553.52	5,538.45	30.79	23.79	177.77	2,511.72	62.07	3,932.28	3,881.38	50.90	77.254		
5,900.00	5,703.70	5,647.74	5,632.66	31.34	24.18	177.79	2,513.52	62.43	3,961.39	3,909.62	51.77	76.516		
6,000.00	5,799.90	5,783.36	5,768.25	31.89	24.76	177.83	2,515.27	63.56	3,989.95	3,937.06	52.90	75.428		
6,100.00	5,896.11	5,902.43	5,887.33	32.44	25.26	177.85	2,515.84	63.73	4,017.68	3,963.76	53.92	74.510		
6,200.00	5,992.32	6,039.82	6,024.71	32.99	25.84	177.86	2,515.34	63.31	4,044.55	3,989.50	55.05	73.470		
6,300.00	6,088.52	6,145.75	6,130.63	33.54	26.29	177.87	2,514.37	62.75	4,070.91	4,014.92	55.99	72.704		
6,400.00	6,184.73	6,240.55	6,225.43	34.09	26.69	177.88	2,513.39	62.26	4,097.16	4,040.29	56.87	72.044		
6,500.00	6,280.93	6,327.67	6,312.54	34.64	27.06	177.88	2,512.65	61.55	4,123.58	4,065.88	57.70	71.463		
6,600.00	6,377.14	6,410.65	6,395.51	35.19	27.42	177.88	2,512.17	60.53	4,150.24	4,091.73	58.51	70.932		
6,700.00	6,473.34	6,478.94	6,463.80	35.74	27.71	177.88	2,512.14	59.57	4,177.41	4,118.18	59.23	70.532		
6,800.00	6,569.55	6,590.31	6,575.16	36.29	28.18	177.87	2,512.42	58.12	4,204.88	4,144.67	60.21	69.840		
6,900.00	6,665.75	6,697.02	6,681.85	36.84	28.63	172.85	2,512.19	56.67	4,231.89	4,170.73	61.16	69.195		
7,000.00	6,761.11	6,801.27	6,786.09	37.39	29.08	144.31	2,511.77	54.95	4,259.02	4,196.93	62.09	68.592		
7,100.00	6,853.41	6,892.92	6,877.73	37.89	29.47	126.45	2,511.32	53.50	4,286.19	4,223.25	62.94	68.105		
7,200.00	6,940.36	6,977.30	6,962.10	38.34	29.83	115.50	2,510.93	52.41	4,313.09	4,249.37	63.72	67.693		
7,300.00	7,019.83	7,064.63	7,049.43	38.74	30.20	108.37	2,510.47	51.88	4,339.42	4,274.91	64.51	67.269		
7,400.00	7,089.85	7,177.85	7,162.64	39.10	30.68	103.69	2,509.26	51.73	4,364.69	4,299.21	65.48	66.655		
7,500.00	7,148.71	7,247.97	7,232.75	39.42	30.98	100.01	2,507.95	51.69	4,388.65	4,322.39	66.26	66.238		
7,600.00	7,194.95	7,294.53	7,279.30	39.71	31.17	96.99	2,507.05	51.66	4,411.80	4,344.81	66.99	65.856		
7,700.00	7,227.43	7,327.26	7,312.02	40.01	31.31	94.49	2,506.42	51.64	4,434.02	4,366.24	67.78	65.415		
7,800.00	7,245.37	7,345.36	7,330.12	40.37	31.39	92.38	2,506.08	51.62	4,455.10	4,386.46	68.64	64.906		
7,900.00	7,248.84	7,348.93	7,333.69	40.87	31.40	91.04	2,506.01	51.62	4,474.84	4,405.29	69.55	64.338		
8,000.00	7,248.24	7,348.41	7,333.17	41.62	31.40	91.03	2,506.02	51.62	4,495.70	4,425.12	70.59	63.692		
8,100.00	7,247.65	7,347.89	7,332.65	42.66	31.40	91.03	2,506.03	51.62	4,518.68	4,446.94	71.74	62.983		
8,200.00	7,247.05	7,347.37	7,332.13	43.96	31.40	91.02	2,506.04	51.62	4,543.74	4,470.73	73.01	62.234		
8,300.00	7,246.46	7,346.85	7,331.61	45.46	31.40	91.01	2,506.05	51.62	4,570.86	4,496.49	74.37	61.464		
8,400.00	7,245.86	7,346.33	7,331.09	47.13	31.39	91.01	2,506.06	51.62	4,599.99	4,524.19	75.80	60.689		
8,500.00	7,245.27	7,345.81	7,330.57	48.93	31.39	91.00	2,506.07	51.62	4,631.09	4,553.81	77.28	59.922		
8,600.00	7,244.67	7,345.29	7,330.05	50.84	31.39	90.99	2,506.08	51.62	4,664.13	4,585.32	78.82	59.175		
8,700.00	7,244.07	7,344.77	7,329.53	52.85	31.39	90.99	2,506.09	51.62	4,699.07	4,618.69	80.39	58.456		
8,800.00	7,243.48	7,344.25	7,329.01	54.94	31.38	90.98	2,506.10	51.62	4,735.87	4,653.89	81.98	57.770		
8,900.00	7,242.88	7,343.73	7,328.49	57.10	31.38	90.97	2,506.11	51.62	4,774.47	4,690.89	83.58	57.122		
9,000.00	7,242.29	7,343.21	7,327.97	59.32	31.38	90.96	2,506.12	51.62	4,814.84	4,729.65	85.19	56.516		
9,100.00	7,241.69	7,342.69	7,327.45	61.60	31.38	90.96	2,506.13	51.63	4,856.94	4,770.13	86.80	55.953		
9,200.00	7,241.09	7,342.17	7,326.93	63.92	31.38	90.95	2,506.14	51.63	4,900.71	4,812.30	88.41	55.434		
9,300.00	7,240.50	7,341.65	7,326.41	66.29	31.37	90.94	2,506.15	51.63	4,946.12	4,856.12	90.00	54.959		
9,400.00	7,239.90	7,341.13	7,325.89	68.70	31.37	90.94	2,506.16	51.63	4,993.12	4,901.55	91.57	54.527		
9,500.00	7,239.31	7,340.61	7,325.37	71.14	31.37	90.93	2,506.17	51.63	5,041.66	4,948.54	93.13	54.138		
9,600.00	7,238.71	7,340.09	7,324.85	73.61	31.37	90.92	2,506.18	51.63	5,091.71	4,997.05	94.66	53.791		
9,700.00	7,238.11	7,339.57	7,324.33	76.11	31.36	90.92	2,506.19	51.63	5,143.21	5,047.05	96.16	53.485		
9,800.00	7,237.52	7,339.05	7,323.81	78.64	31.36	90.91	2,506.20	51.63	5,196.13	5,098.49	97.64	53.217		
9,900.00	7,236.92	7,338.53	7,323.29	81.19	31.36	90.90	2,506.21	51.63	5,250.42	5,151.33	99.09	52.987		
10,000.00	7,236.33	7,338.01	7,322.77	83.75	31.36	90.90	2,506.22	51.63	5,306.03	5,205.53	100.51	52.793		
10,100.00	7,235.73	7,337.49	7,322.25	86.34	31.36	90.89	2,506.23	51.63	5,362.94	5,261.05	101.89	52.633		
10,200.00	7,235.14	7,336.97	7,321.73	88.94	31.35	90.88	2,506.24	51.63	5,421.09	5,317.85	103.25	52.506		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,336.45	7,321.22	91.56	31.35	90.88	2,506.25	51.63	5,480.45	5,375.89	104.57	52.410		
10,400.00	7,233.94	7,335.93	7,320.70	94.19	31.35	90.87	2,506.26	51.63	5,540.98	5,435.13	105.86	52.344		
10,500.00	7,233.35	7,335.41	7,320.18	96.84	31.35	90.86	2,506.27	51.63	5,602.64	5,495.53	107.11	52.306		
10,600.00	7,232.75	7,334.89	7,319.66	99.50	31.35	90.86	2,506.28	51.63	5,665.40	5,557.06	108.34	52.295 SF		
10,700.00	7,232.16	7,334.37	7,319.14	102.17	31.34	90.85	2,506.29	51.63	5,729.21	5,619.69	109.53	52.310		
10,800.00	7,231.56	7,333.85	7,318.62	104.85	31.34	90.84	2,506.30	51.63	5,794.05	5,683.37	110.68	52.348		
10,900.00	7,230.96	7,333.33	7,318.10	107.53	31.34	90.84	2,506.31	51.63	5,859.87	5,748.06	111.81	52.410		
11,000.00	7,230.37	7,332.81	7,317.58	110.23	31.34	90.83	2,506.32	51.63	5,926.65	5,813.75	112.90	52.493		
11,100.00	7,229.77	7,332.29	7,317.06	112.93	31.33	90.82	2,506.33	51.63	5,994.36	5,880.39	113.97	52.598		
11,200.00	7,229.18	7,331.77	7,316.54	115.65	31.33	90.82	2,506.34	51.63	6,062.96	5,947.96	115.00	52.722		
11,300.00	7,228.58	7,331.25	7,316.02	118.37	31.33	90.81	2,506.35	51.63	6,132.42	6,016.42	116.00	52.864		
11,400.00	7,227.99	7,330.73	7,315.50	121.09	31.33	90.80	2,506.36	51.63	6,202.72	6,085.74	116.98	53.025		
11,500.00	7,227.39	7,330.21	7,314.98	123.82	31.33	90.80	2,506.37	51.63	6,273.82	6,155.90	117.92	53.203		
11,600.00	7,226.79	7,329.69	7,314.46	126.56	31.32	90.79	2,506.38	51.63	6,345.70	6,226.86	118.84	53.396		
11,700.00	7,226.20	7,329.17	7,313.94	129.30	31.32	90.78	2,506.39	51.63	6,418.34	6,298.61	119.73	53.605		
11,800.00	7,225.60	7,328.65	7,313.42	132.05	31.32	90.77	2,506.40	51.63	6,491.70	6,371.10	120.60	53.829		
11,900.00	7,225.01	7,328.13	7,312.90	134.80	31.32	90.77	2,506.41	51.63	6,565.77	6,444.33	121.44	54.067		
12,000.00	7,224.41	7,327.61	7,312.38	137.56	31.31	90.76	2,506.42	51.63	6,640.51	6,518.26	122.25	54.318		
12,100.00	7,223.81	7,327.09	7,311.86	140.32	31.31	90.75	2,506.43	51.64	6,715.92	6,592.87	123.05	54.581		
12,200.00	7,223.22	7,326.57	7,311.34	143.08	31.31	90.75	2,506.44	51.64	6,791.96	6,668.14	123.81	54.856		
12,300.00	7,222.62	7,326.05	7,310.82	145.85	31.31	90.74	2,506.45	51.64	6,868.61	6,744.05	124.56	55.143		
12,400.00	7,222.03	7,325.53	7,310.30	148.62	31.31	90.73	2,506.46	51.64	6,945.85	6,820.57	125.28	55.441		
12,500.00	7,221.43	7,325.01	7,309.78	151.40	31.30	90.73	2,506.47	51.64	7,023.68	6,897.69	125.99	55.750		
12,600.00	7,220.83	7,324.49	7,309.26	154.18	31.30	90.72	2,506.48	51.64	7,102.05	6,975.38	126.67	56.068		
12,700.00	7,220.24	7,323.97	7,308.74	156.96	31.30	90.71	2,506.49	51.64	7,180.96	7,053.63	127.33	56.396		
12,800.00	7,219.64	7,323.45	7,308.22	159.74	31.30	90.71	2,506.50	51.64	7,260.40	7,132.42	127.97	56.733		
12,900.00	7,219.05	7,322.93	7,307.70	162.53	31.29	90.70	2,506.51	51.64	7,340.33	7,211.73	128.60	57.079		
13,000.00	7,218.45	7,322.41	7,307.18	165.32	31.29	90.69	2,506.52	51.64	7,420.75	7,291.55	129.21	57.433		
13,100.00	7,217.86	7,321.89	7,306.66	168.11	31.29	90.69	2,506.53	51.64	7,501.65	7,371.85	129.80	57.795		
13,200.00	7,217.26	7,321.37	7,306.14	170.90	31.29	90.68	2,506.54	51.64	7,582.99	7,452.62	130.37	58.164		
13,300.00	7,216.66	7,320.85	7,305.62	173.70	31.29	90.67	2,506.55	51.64	7,664.78	7,533.85	130.93	58.541		
13,400.00	7,216.07	7,320.33	7,305.10	176.49	31.28	90.67	2,506.56	51.64	7,747.00	7,615.53	131.47	58.925		
13,500.00	7,215.47	7,319.81	7,304.58	179.29	31.28	90.66	2,506.57	51.64	7,829.63	7,697.63	132.00	59.316		
13,600.00	7,214.88	7,319.29	7,304.06	182.09	31.28	90.65	2,506.58	51.64	7,912.66	7,780.15	132.51	59.713		
13,700.00	7,214.28	7,318.77	7,303.54	184.90	31.28	90.65	2,506.59	51.64	7,996.08	7,863.07	133.01	60.117		
13,800.00	7,213.68	7,318.25	7,303.02	187.70	31.27	90.64	2,506.60	51.64	8,079.88	7,946.38	133.49	60.526		
13,900.00	7,213.09	7,317.73	7,302.50	190.51	31.27	90.63	2,506.61	51.64	8,164.04	8,030.07	133.97	60.941		
14,000.00	7,212.49	7,317.21	7,301.98	193.32	31.27	90.63	2,506.62	51.64	8,248.56	8,114.13	134.43	61.361		
14,100.00	7,211.90	7,316.69	7,301.46	196.13	31.27	90.62	2,506.63	51.64	8,333.41	8,198.54	134.87	61.787		
14,200.00	7,211.30	7,316.17	7,300.94	198.94	31.27	90.61	2,506.64	51.64	8,418.60	8,283.29	135.31	62.217		
14,300.00	7,210.71	7,315.65	7,300.42	201.75	31.26	90.60	2,506.65	51.64	8,504.12	8,368.38	135.73	62.653		
14,400.00	7,210.11	7,315.13	7,299.90	204.56	31.26	90.60	2,506.66	51.64	8,589.94	8,453.79	136.15	63.093		
14,500.00	7,209.51	7,314.61	7,299.38	207.38	31.26	90.59	2,506.67	51.64	8,676.07	8,539.52	136.55	63.538		
14,600.00	7,208.92	7,314.09	7,298.86	210.19	31.26	90.58	2,506.68	51.64	8,762.49	8,625.55	136.94	63.987		
14,700.00	7,208.32	7,313.57	7,298.34	213.01	31.25	90.58	2,506.69	51.64	8,849.20	8,711.88	137.33	64.440		
14,800.00	7,207.73	7,313.05	7,297.82	215.83	31.25	90.57	2,506.70	51.64	8,936.19	8,798.49	137.70	64.897		
14,900.00	7,207.13	7,312.53	7,297.30	218.65	31.25	90.56	2,506.71	51.64	9,023.45	8,885.38	138.06	65.357		
15,000.00	7,206.53	7,312.01	7,296.78	221.47	31.25	90.56	2,506.72	51.64	9,110.97	8,972.55	138.42	65.822		
15,100.00	7,205.94	7,311.49	7,296.26	224.29	31.25	90.55	2,506.73	51.65	9,198.74	9,059.97	138.77	66.290		
15,200.00	7,205.34	7,310.97	7,295.74	227.11	31.24	90.54	2,506.74	51.65	9,286.76	9,147.66	139.10	66.761		
15,258.04	7,205.00	7,310.67	7,295.44	228.75	31.24	90.54	2,506.74	51.65	9,337.96	9,198.66	139.30	67.037		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	59.00	3.28	3.28	-165.23	-3,959.96	-1,044.31	4,095.77					
100.00	100.00	41.00	100.00	3.28	3.36	-165.23	-3,959.96	-1,044.31	4,095.35	4,088.70	6.64	616.593		
200.00	200.00	141.00	200.00	3.34	4.57	-165.23	-3,959.96	-1,044.31	4,095.35	4,087.44	7.90	518.184		
300.00	299.98	240.98	299.98	3.44	7.43	10.03	-3,959.96	-1,044.31	4,093.63	4,082.76	10.87	376.588		
400.00	399.84	340.84	399.84	3.59	10.67	10.06	-3,959.96	-1,044.31	4,088.47	4,074.21	14.26	286.670		
500.00	499.45	440.45	499.45	3.79	14.02	10.11	-3,959.96	-1,044.31	4,079.89	4,062.08	17.81	229.052		
600.00	598.70	539.70	598.70	4.03	17.41	10.19	-3,959.96	-1,044.31	4,067.89	4,046.45	21.44	189.720		
700.00	697.47	638.47	697.47	4.31	20.80	10.28	-3,959.96	-1,044.31	4,052.49	4,027.38	25.12	161.352		
800.00	795.62	736.62	795.62	4.64	24.19	10.40	-3,959.96	-1,044.31	4,033.71	4,004.90	28.81	139.989		
900.00	893.06	834.06	893.06	5.00	27.57	10.54	-3,959.96	-1,044.31	4,011.57	3,979.05	32.52	123.343		
1,000.00	989.65	930.65	989.65	5.40	30.92	10.69	-3,959.96	-1,044.31	3,986.12	3,949.88	36.24	109.997		
1,100.00	1,085.85	1,026.85	1,085.85	5.82	34.26	10.77	-3,959.96	-1,044.31	3,959.27	3,919.33	39.94	99.119		
1,200.00	1,182.06	1,123.06	1,182.06	6.27	37.60	10.84	-3,959.96	-1,044.31	3,932.44	3,888.77	43.67	90.047		
1,300.00	1,278.26	1,219.26	1,278.26	6.73	40.95	10.92	-3,959.96	-1,044.31	3,905.60	3,858.19	47.41	82.374		
1,400.00	1,374.47	1,315.47	1,374.47	7.20	44.30	10.99	-3,959.96	-1,044.31	3,878.78	3,827.61	51.17	75.804		
1,500.00	1,470.67	1,411.67	1,470.67	7.69	47.65	11.07	-3,959.96	-1,044.31	3,851.96	3,797.03	54.93	70.119		
1,600.00	1,566.88	1,507.88	1,566.88	8.18	51.00	11.15	-3,959.96	-1,044.31	3,825.15	3,766.44	58.71	65.154		
1,700.00	1,663.08	1,604.08	1,663.08	8.68	54.35	11.23	-3,959.96	-1,044.31	3,798.34	3,735.85	62.49	60.781		
1,800.00	1,759.29	1,700.29	1,759.29	9.19	57.70	11.31	-3,959.96	-1,044.31	3,771.54	3,705.26	66.28	56.902		
1,900.00	1,855.49	1,803.51	1,855.49	9.70	61.30	11.39	-3,959.96	-1,044.31	3,744.75	3,674.43	70.32	53.252		
2,000.00	1,951.70	1,907.30	1,951.70	10.22	64.92	11.47	-3,959.96	-1,044.31	3,717.97	3,643.58	74.39	49.982		
2,100.00	2,047.90	1,988.90	2,047.90	10.73	67.77	11.56	-3,959.96	-1,044.31	3,691.19	3,613.51	77.68	47.518		
2,200.00	2,144.11	2,085.11	2,144.11	11.26	71.12	11.64	-3,959.96	-1,044.31	3,664.42	3,582.93	81.49	44.969		
2,300.00	2,240.31	2,181.31	2,240.31	11.78	74.48	11.73	-3,959.96	-1,044.31	3,637.66	3,552.36	85.30	42.646		
2,400.00	2,336.52	2,277.52	2,336.52	12.31	77.83	11.82	-3,959.96	-1,044.31	3,610.90	3,521.79	89.11	40.521		
2,500.00	2,432.72	2,373.72	2,432.72	12.84	81.19	11.91	-3,959.96	-1,044.31	3,584.16	3,491.23	92.93	38.569		
2,600.00	2,528.93	2,469.93	2,528.93	13.37	84.54	12.00	-3,959.96	-1,044.31	3,557.42	3,460.67	96.75	36.771		
2,700.00	2,625.13	2,566.13	2,625.13	13.91	87.90	12.09	-3,959.96	-1,044.31	3,530.69	3,430.12	100.57	35.108		
2,800.00	2,721.34	2,662.34	2,721.34	14.44	91.26	12.18	-3,959.96	-1,044.31	3,503.97	3,399.58	104.39	33.567		
2,900.00	2,817.54	2,758.54	2,817.54	14.98	94.61	12.28	-3,959.96	-1,044.31	3,477.26	3,369.04	108.21	32.134		
3,000.00	2,913.75	2,854.75	2,913.75	15.52	97.97	12.37	-3,959.96	-1,044.31	3,450.55	3,338.52	112.04	30.798		
3,100.00	3,009.95	2,950.95	3,009.95	16.06	101.33	12.47	-3,959.96	-1,044.31	3,423.86	3,308.00	115.86	29.551		
3,200.00	3,106.16	3,047.16	3,106.16	16.60	104.68	12.57	-3,959.96	-1,044.31	3,397.17	3,277.48	119.69	28.383		
3,300.00	3,202.37	3,143.37	3,202.37	17.14	108.04	12.67	-3,959.96	-1,044.31	3,370.50	3,246.98	123.52	27.287		
3,400.00	3,298.57	3,239.57	3,298.57	17.68	111.40	12.77	-3,959.96	-1,044.31	3,343.83	3,216.49	127.35	26.257		
3,500.00	3,394.78	3,335.78	3,394.78	18.22	114.75	12.88	-3,959.96	-1,044.31	3,317.18	3,186.00	131.18	25.287		
3,600.00	3,490.98	3,431.98	3,490.98	18.76	118.11	12.98	-3,959.96	-1,044.31	3,290.54	3,155.52	135.01	24.372		
3,700.00	3,587.19	3,528.19	3,587.19	19.31	121.47	13.09	-3,959.96	-1,044.31	3,263.90	3,125.06	138.84	23.508		
3,800.00	3,683.39	3,624.39	3,683.39	19.85	124.83	13.20	-3,959.96	-1,044.31	3,237.28	3,094.60	142.68	22.689		
3,900.00	3,779.60	3,720.60	3,779.60	20.39	128.18	13.31	-3,959.96	-1,044.31	3,210.67	3,064.15	146.51	21.914		
4,000.00	3,875.80	3,816.80	3,875.80	20.94	131.54	13.42	-3,959.96	-1,044.31	3,184.07	3,033.72	150.35	21.178		
4,100.00	3,972.01	3,913.01	3,972.01	21.48	134.90	13.54	-3,959.96	-1,044.31	3,157.48	3,003.29	154.18	20.479		
4,200.00	4,068.21	4,009.21	4,068.21	22.03	138.26	13.65	-3,959.96	-1,044.31	3,130.90	2,972.88	158.02	19.814		
4,300.00	4,164.42	4,105.42	4,164.42	22.57	141.61	13.77	-3,959.96	-1,044.31	3,104.34	2,942.48	161.86	19.180		
4,400.00	4,260.62	4,201.62	4,260.62	23.12	144.97	13.89	-3,959.96	-1,044.31	3,077.78	2,912.09	165.69	18.575		
4,500.00	4,356.83	4,302.17	4,356.83	23.67	148.48	14.02	-3,959.96	-1,044.31	3,051.24	2,881.56	169.68	17.982		
4,600.00	4,453.03	4,405.97	4,453.03	24.21	152.10	14.14	-3,959.96	-1,044.31	3,024.72	2,850.93	173.79	17.405		
4,700.00	4,549.24	4,509.76	4,549.24	24.76	155.73	14.27	-3,959.96	-1,044.31	2,998.21	2,820.32	177.89	16.854		
4,800.00	4,645.44	4,586.44	4,645.44	25.31	158.40	14.40	-3,959.96	-1,044.31	2,971.71	2,790.66	181.05	16.414		
4,900.00	4,741.65	4,682.65	4,741.65	25.86	161.76	14.53	-3,959.96	-1,044.31	2,945.23	2,760.34	184.89	15.930		
5,000.00	4,837.85	4,778.85	4,837.85	26.40	165.12	14.66	-3,959.96	-1,044.31	2,918.76	2,730.03	188.73	15.465		
5,100.00	4,934.06	4,875.06	4,934.06	26.95	168.48	14.80	-3,959.96	-1,044.31	2,892.30	2,699.73	192.57	15.019		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,971.26	5,030.26	27.50	171.83	14.94	-3,959.96	-1,044.31	2,865.87	2,669.45	196.41	14.591		
5,300.00	5,126.47	5,067.47	5,126.47	28.05	175.19	15.08	-3,959.96	-1,044.31	2,839.44	2,639.19	200.26	14.179		
5,400.00	5,222.67	5,163.67	5,222.67	28.60	178.55	15.22	-3,959.96	-1,044.31	2,813.04	2,608.94	204.10	13.783		
5,500.00	5,318.88	5,259.88	5,318.88	29.15	181.91	15.37	-3,959.96	-1,044.31	2,786.65	2,578.71	207.94	13.401		
5,600.00	5,415.08	5,356.08	5,415.08	29.70	185.26	15.52	-3,959.96	-1,044.31	2,760.28	2,548.49	211.79	13.033		
5,700.00	5,511.29	5,452.29	5,511.29	30.25	188.62	15.67	-3,959.96	-1,044.31	2,733.93	2,518.30	215.63	12.679		
5,800.00	5,607.49	5,548.49	5,607.49	30.79	191.98	15.83	-3,959.96	-1,044.31	2,707.59	2,488.12	219.48	12.337		
5,900.00	5,703.70	5,644.70	5,703.70	31.34	195.34	15.99	-3,959.96	-1,044.31	2,681.28	2,457.95	223.32	12.006		
6,000.00	5,799.90	5,740.90	5,799.90	31.89	198.70	16.15	-3,959.96	-1,044.31	2,654.98	2,427.81	227.17	11.687		
6,100.00	5,896.11	5,837.11	5,896.11	32.44	202.06	16.32	-3,959.96	-1,044.31	2,628.71	2,397.69	231.02	11.379		
6,200.00	5,992.32	5,933.32	5,992.32	32.99	205.41	16.48	-3,959.96	-1,044.31	2,602.45	2,367.59	234.86	11.081		
6,300.00	6,088.52	6,029.52	6,088.52	33.54	208.77	16.66	-3,959.96	-1,044.31	2,576.22	2,337.51	238.71	10.792		
6,400.00	6,184.73	6,125.73	6,184.73	34.09	212.13	16.83	-3,959.96	-1,044.31	2,550.01	2,307.45	242.56	10.513		
6,500.00	6,280.93	6,221.93	6,280.93	34.64	215.49	17.01	-3,959.96	-1,044.31	2,523.82	2,277.41	246.41	10.242		
6,600.00	6,377.14	6,318.14	6,377.14	35.19	218.85	17.19	-3,959.96	-1,044.31	2,497.65	2,247.39	250.26	9.980		
6,700.00	6,473.34	6,414.34	6,473.34	35.74	222.20	17.38	-3,959.96	-1,044.31	2,471.51	2,217.40	254.11	9.726		
6,800.00	6,569.55	6,510.55	6,569.55	36.29	225.56	17.57	-3,959.96	-1,044.31	2,445.40	2,187.44	257.96	9.480		
6,900.00	6,665.75	6,606.75	6,665.75	36.84	228.92	12.77	-3,959.96	-1,044.31	2,419.24	2,157.43	261.81	9.240		
7,000.00	6,761.11	6,702.11	6,761.11	37.39	232.25	-16.03	-3,959.96	-1,044.31	2,389.54	2,123.93	265.61	8.996		
7,100.00	6,853.41	6,805.59	6,853.41	37.89	235.86	-35.25	-3,959.96	-1,044.31	2,354.87	2,085.23	269.64	8.733		
7,200.00	6,940.36	6,881.36	6,940.36	38.34	238.51	-48.57	-3,959.96	-1,044.31	2,316.40	2,043.74	272.65	8.496		
7,300.00	7,019.83	6,960.83	7,019.83	38.74	241.28	-58.96	-3,959.96	-1,044.31	2,275.62	1,999.86	275.76	8.252		
7,400.00	7,089.85	7,030.85	7,089.85	39.10	243.72	-67.67	-3,959.96	-1,044.31	2,234.35	1,955.83	278.52	8.022		
7,500.00	7,148.71	7,089.71	7,148.71	39.42	245.78	-75.06	-3,959.96	-1,044.31	2,194.57	1,913.64	280.92	7.812		
7,600.00	7,194.95	7,135.95	7,194.95	39.71	247.39	-81.11	-3,959.96	-1,044.31	2,158.34	1,875.34	283.00	7.627		
7,700.00	7,227.43	7,168.43	7,227.43	40.01	248.53	-85.73	-3,959.96	-1,044.31	2,127.61	1,842.84	284.78	7.471		
7,800.00	7,245.37	7,186.37	7,245.37	40.37	249.15	-88.80	-3,959.96	-1,044.31	2,104.05	1,817.77	286.27	7.350		
7,900.00	7,248.84	7,189.84	7,248.84	40.87	249.27	-90.04	-3,959.96	-1,044.31	2,088.70	1,801.20	287.50	7.265		
8,000.00	7,248.24	7,189.24	7,248.24	41.62	249.25	-90.02	-3,959.96	-1,044.31	2,079.17	1,790.34	288.83	7.199		
8,100.00	7,247.65	7,188.65	7,247.65	42.66	249.23	-90.01	-3,959.96	-1,044.31	2,074.43	1,784.05	290.39	7.144		
8,148.46	7,247.36	7,188.36	7,247.36	43.27	249.22	-90.00	-3,959.96	-1,044.31	2,073.87	1,782.65	291.22	7.121 CC		
8,200.00	7,247.05	7,188.05	7,247.05	43.96	249.21	-89.99	-3,959.96	-1,044.31	2,074.51	1,782.39	292.11	7.102 ES		
8,300.00	7,246.46	7,187.46	7,246.46	45.46	249.19	-89.98	-3,959.96	-1,044.31	2,079.40	1,785.42	293.98	7.073		
8,400.00	7,245.86	7,186.86	7,245.86	47.13	249.17	-89.96	-3,959.96	-1,044.31	2,089.07	1,793.14	295.93	7.059 SF		
8,500.00	7,245.27	7,186.27	7,245.27	48.93	249.15	-89.94	-3,959.96	-1,044.31	2,103.45	1,805.52	297.93	7.060		
8,600.00	7,244.67	7,185.67	7,244.67	50.84	249.13	-89.93	-3,959.96	-1,044.31	2,122.45	1,822.51	299.95	7.076		
8,700.00	7,244.07	7,185.07	7,244.07	52.85	249.11	-89.91	-3,959.96	-1,044.31	2,145.95	1,844.01	301.94	7.107		
8,800.00	7,243.48	7,184.48	7,243.48	54.94	249.09	-89.89	-3,959.96	-1,044.31	2,173.80	1,869.90	303.90	7.153		
8,900.00	7,242.88	7,183.88	7,242.88	57.10	249.07	-89.88	-3,959.96	-1,044.31	2,205.84	1,900.05	305.79	7.214		
9,000.00	7,242.29	7,183.29	7,242.29	59.32	249.05	-89.86	-3,959.96	-1,044.31	2,241.88	1,934.27	307.61	7.288		
9,100.00	7,241.69	7,182.69	7,241.69	61.60	249.02	-89.84	-3,959.96	-1,044.31	2,281.74	1,972.41	309.33	7.376		
9,200.00	7,241.09	7,182.09	7,241.09	63.92	249.00	-89.83	-3,959.96	-1,044.31	2,325.22	2,014.27	310.95	7.478		
9,300.00	7,240.50	7,181.50	7,240.50	66.29	248.98	-89.81	-3,959.96	-1,044.31	2,372.12	2,059.64	312.47	7.591		
9,400.00	7,239.90	7,180.90	7,239.90	68.70	248.96	-89.79	-3,959.96	-1,044.31	2,422.24	2,108.35	313.89	7.717		
9,500.00	7,239.31	7,180.31	7,239.31	71.14	248.94	-89.78	-3,959.96	-1,044.31	2,475.39	2,160.18	315.21	7.853		
9,600.00	7,238.71	7,179.71	7,238.71	73.61	248.92	-89.76	-3,959.96	-1,044.31	2,531.37	2,214.95	316.42	8.000		
9,700.00	7,238.11	7,179.11	7,238.11	76.11	248.90	-89.74	-3,959.96	-1,044.31	2,590.01	2,272.46	317.54	8.156		
9,800.00	7,237.52	7,178.52	7,237.52	78.64	248.88	-89.73	-3,959.96	-1,044.31	2,651.12	2,332.54	318.57	8.322		
9,900.00	7,236.92	7,177.92	7,236.92	81.19	248.86	-89.71	-3,959.96	-1,044.31	2,714.54	2,395.02	319.52	8.496		
10,000.00	7,236.33	7,177.33	7,236.33	83.75	248.84	-89.70	-3,959.96	-1,044.31	2,780.11	2,459.73	320.38	8.678		
10,100.00	7,235.73	7,176.73	7,235.73	86.34	248.82	-89.68	-3,959.96	-1,044.31	2,847.69	2,526.52	321.17	8.867		
10,200.00	7,235.14	7,176.14	7,235.14	88.94	248.80	-89.66	-3,959.96	-1,044.31	2,917.12	2,595.24	321.89	9.063		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	7,175.54	7,234.54	91.56	248.77	-89.65	-3,959.96	-1,044.31	2,988.29	2,665.75	322.54	9.265		
10,400.00	7,233.94	7,174.94	7,233.94	94.19	248.75	-89.63	-3,959.96	-1,044.31	3,061.08	2,737.94	323.14	9.473		
10,500.00	7,233.35	7,174.35	7,233.35	96.84	248.73	-89.61	-3,959.96	-1,044.31	3,135.36	2,811.68	323.68	9.687		
10,600.00	7,232.75	7,173.75	7,232.75	99.50	248.71	-89.60	-3,959.96	-1,044.31	3,211.04	2,886.87	324.17	9.905		
10,700.00	7,232.16	7,173.16	7,232.16	102.17	248.69	-89.58	-3,959.96	-1,044.31	3,288.02	2,963.40	324.62	10.129		
10,800.00	7,231.56	7,172.56	7,231.56	104.85	248.67	-89.56	-3,959.96	-1,044.31	3,366.21	3,041.18	325.03	10.357		
10,900.00	7,230.96	7,171.96	7,230.96	107.53	248.65	-89.55	-3,959.96	-1,044.31	3,445.53	3,120.13	325.40	10.589		
11,000.00	7,230.37	7,171.37	7,230.37	110.23	248.63	-89.53	-3,959.96	-1,044.31	3,525.90	3,200.16	325.73	10.824		
11,100.00	7,229.77	7,170.77	7,229.77	112.93	248.61	-89.51	-3,959.96	-1,044.31	3,607.25	3,281.21	326.04	11.064		
11,200.00	7,229.18	7,170.18	7,229.18	115.65	248.59	-89.50	-3,959.96	-1,044.31	3,689.51	3,363.20	326.32	11.307		
11,300.00	7,228.58	7,169.58	7,228.58	118.37	248.57	-89.48	-3,959.96	-1,044.31	3,772.64	3,446.07	326.57	11.552		
11,400.00	7,227.99	7,168.99	7,227.99	121.09	248.55	-89.46	-3,959.96	-1,044.31	3,856.56	3,529.77	326.80	11.801		
11,500.00	7,227.39	7,168.39	7,227.39	123.82	248.53	-89.45	-3,959.96	-1,044.31	3,941.24	3,614.24	327.00	12.053		
11,600.00	7,226.79	7,167.79	7,226.79	126.56	248.50	-89.43	-3,959.96	-1,044.31	4,026.62	3,699.43	327.19	12.307		
11,700.00	7,226.20	7,167.20	7,226.20	129.30	248.48	-89.42	-3,959.96	-1,044.31	4,112.66	3,785.29	327.36	12.563		
11,800.00	7,225.60	7,166.60	7,225.60	132.05	248.46	-89.40	-3,959.96	-1,044.31	4,199.31	3,871.79	327.52	12.822		
11,900.00	7,225.01	7,166.01	7,225.01	134.80	248.44	-89.38	-3,959.96	-1,044.31	4,286.55	3,958.89	327.66	13.082		
12,000.00	7,224.41	7,165.41	7,224.41	137.56	248.42	-89.37	-3,959.96	-1,044.31	4,374.33	4,046.54	327.79	13.345		
12,100.00	7,223.81	7,164.81	7,223.81	140.32	248.40	-89.35	-3,959.96	-1,044.31	4,462.63	4,134.72	327.91	13.609		
12,200.00	7,223.22	7,164.22	7,223.22	143.08	248.38	-89.33	-3,959.96	-1,044.31	4,551.41	4,223.40	328.01	13.876		
12,300.00	7,222.62	7,163.62	7,222.62	145.85	248.36	-89.32	-3,959.96	-1,044.31	4,640.65	4,312.54	328.11	14.144		
12,400.00	7,222.03	7,163.03	7,222.03	148.62	248.34	-89.30	-3,959.96	-1,044.31	4,730.32	4,402.12	328.20	14.413		
12,500.00	7,221.43	7,162.43	7,221.43	151.40	248.32	-89.28	-3,959.96	-1,044.31	4,820.39	4,492.12	328.27	14.684		
12,600.00	7,220.83	7,161.83	7,220.83	154.18	248.30	-89.27	-3,959.96	-1,044.31	4,910.85	4,582.50	328.35	14.956		
12,700.00	7,220.24	7,161.24	7,220.24	156.96	248.28	-89.25	-3,959.96	-1,044.31	5,001.67	4,673.26	328.41	15.230		
12,800.00	7,219.64	7,160.64	7,219.64	159.74	248.25	-89.23	-3,959.96	-1,044.31	5,092.84	4,764.37	328.47	15.505		
12,900.00	7,219.05	7,160.05	7,219.05	162.53	248.23	-89.22	-3,959.96	-1,044.31	5,184.33	4,855.81	328.53	15.781		
13,000.00	7,218.45	7,159.45	7,218.45	165.32	248.21	-89.20	-3,959.96	-1,044.31	5,276.13	4,947.56	328.57	16.058		
13,100.00	7,217.86	7,158.86	7,217.86	168.11	248.19	-89.18	-3,959.96	-1,044.31	5,368.22	5,039.61	328.62	16.336		
13,200.00	7,217.26	7,158.26	7,217.26	170.90	248.17	-89.17	-3,959.96	-1,044.31	5,460.60	5,131.94	328.66	16.615		
13,300.00	7,216.66	7,157.66	7,216.66	173.70	248.15	-89.15	-3,959.96	-1,044.31	5,553.23	5,224.54	328.70	16.895		
13,400.00	7,216.07	7,157.07	7,216.07	176.49	248.13	-89.14	-3,959.96	-1,044.31	5,646.12	5,317.39	328.73	17.176		
13,500.00	7,215.47	7,156.47	7,215.47	179.29	248.11	-89.12	-3,959.96	-1,044.31	5,739.24	5,410.48	328.76	17.457		
13,600.00	7,214.88	7,155.88	7,214.88	182.09	248.09	-89.10	-3,959.96	-1,044.31	5,832.60	5,503.81	328.79	17.740		
13,700.00	7,214.28	7,155.28	7,214.28	184.90	248.07	-89.09	-3,959.96	-1,044.31	5,926.17	5,597.36	328.81	18.023		
13,800.00	7,213.68	7,154.68	7,213.68	187.70	248.05	-89.07	-3,959.96	-1,044.31	6,019.94	5,691.11	328.84	18.307		
13,900.00	7,213.09	7,154.09	7,213.09	190.51	248.03	-89.05	-3,959.96	-1,044.31	6,113.92	5,785.06	328.86	18.591		
14,000.00	7,212.49	7,153.49	7,212.49	193.32	248.01	-89.04	-3,959.96	-1,044.31	6,208.08	5,879.21	328.88	18.877		
14,100.00	7,211.90	7,152.90	7,211.90	196.13	247.98	-89.02	-3,959.96	-1,044.31	6,302.42	5,973.53	328.89	19.163		
14,200.00	7,211.30	7,152.30	7,211.30	198.94	247.96	-89.00	-3,959.96	-1,044.31	6,396.94	6,068.03	328.91	19.449		
14,300.00	7,210.71	7,151.71	7,210.71	201.75	247.94	-88.99	-3,959.96	-1,044.31	6,491.62	6,162.69	328.92	19.736		
14,400.00	7,210.11	7,151.11	7,210.11	204.56	247.92	-88.97	-3,959.96	-1,044.31	6,586.45	6,257.51	328.94	20.023		
14,500.00	7,209.51	7,150.51	7,209.51	207.38	247.90	-88.95	-3,959.96	-1,044.31	6,681.44	6,352.49	328.95	20.311		
14,600.00	7,208.92	7,149.92	7,208.92	210.19	247.88	-88.94	-3,959.96	-1,044.31	6,776.57	6,447.61	328.96	20.600		
14,700.00	7,208.32	7,149.32	7,208.32	213.01	247.86	-88.92	-3,959.96	-1,044.31	6,871.84	6,542.86	328.97	20.889		
14,800.00	7,207.73	7,148.73	7,207.73	215.83	247.84	-88.91	-3,959.96	-1,044.31	6,967.24	6,638.26	328.98	21.178		
14,900.00	7,207.13	7,148.13	7,207.13	218.65	247.82	-88.89	-3,959.96	-1,044.31	7,062.76	6,733.77	328.99	21.468		
15,000.00	7,206.53	7,147.53	7,206.53	221.47	247.80	-88.87	-3,959.96	-1,044.31	7,158.41	6,829.42	329.00	21.758		
15,100.00	7,205.94	7,146.94	7,205.94	224.29	247.78	-88.86	-3,959.96	-1,044.31	7,254.18	6,925.18	329.01	22.049		
15,200.00	7,205.34	7,146.34	7,205.34	227.11	247.76	-88.84	-3,959.96	-1,044.31	7,350.06	7,021.05	329.02	22.340		
15,258.04	7,205.00	7,146.00	7,205.00	228.75	247.74	-88.83	-3,959.96	-1,044.31	7,405.77	7,076.75	329.02	22.509		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	4.00	0.00	3.28	3.28	-39.04	1,430.67	-1,160.34	1,842.06					
100.00	100.00	104.00	100.00	3.28	3.78	-39.04	1,430.67	-1,160.34	1,842.06	1,834.99	7.07	260.626		
200.00	200.00	204.00	200.00	3.34	6.30	-39.04	1,430.67	-1,160.34	1,842.06	1,832.43	9.63	191.189 CC		
300.00	299.98	304.02	299.98	3.44	9.46	136.22	1,430.67	-1,160.34	1,843.32	1,830.43	12.89	142.952 ES		
400.00	399.84	404.16	399.84	3.59	12.79	136.28	1,430.67	-1,160.34	1,847.10	1,830.72	16.38	112.753		
500.00	499.45	504.55	499.45	3.79	16.20	136.38	1,430.67	-1,160.34	1,853.42	1,833.43	19.99	92.702		
600.00	598.70	605.30	598.70	4.03	19.66	136.52	1,430.67	-1,160.34	1,862.28	1,838.59	23.69	78.600		
700.00	697.47	706.53	697.47	4.31	23.15	136.69	1,430.67	-1,160.34	1,873.72	1,846.25	27.47	68.218		
800.00	795.62	808.38	795.62	4.64	26.68	136.89	1,430.67	-1,160.34	1,887.74	1,856.44	31.31	60.299		
900.00	893.06	899.06	893.06	5.00	29.47	137.11	1,430.67	-1,160.34	1,904.39	1,869.94	34.45	55.279		
1,000.00	989.65	985.65	989.65	5.40	32.83	137.39	1,430.67	-1,160.34	1,923.69	1,885.51	38.18	50.383		
1,100.00	1,085.85	1,081.85	1,085.85	5.82	36.17	137.92	1,430.67	-1,160.34	1,944.21	1,902.29	41.91	46.385		
1,200.00	1,182.06	1,178.06	1,182.06	6.27	39.52	138.45	1,430.67	-1,160.34	1,964.89	1,919.22	45.67	43.026		
1,300.00	1,278.26	1,274.26	1,278.26	6.73	42.86	138.96	1,430.67	-1,160.34	1,985.73	1,936.29	49.44	40.168		
1,400.00	1,374.47	1,370.47	1,374.47	7.20	46.21	139.47	1,430.67	-1,160.34	2,006.73	1,953.51	53.22	37.709		
1,500.00	1,470.67	1,466.67	1,470.67	7.69	49.56	139.96	1,430.67	-1,160.34	2,027.87	1,970.87	57.01	35.573		
1,600.00	1,566.88	1,562.88	1,566.88	8.18	52.92	140.44	1,430.67	-1,160.34	2,049.16	1,988.36	60.81	33.700		
1,700.00	1,663.08	1,659.08	1,663.08	8.68	56.27	140.92	1,430.67	-1,160.34	2,070.60	2,005.99	64.61	32.047		
1,800.00	1,759.29	1,755.29	1,759.29	9.19	59.62	141.38	1,430.67	-1,160.34	2,092.16	2,023.74	68.42	30.577		
1,900.00	1,855.49	1,851.49	1,855.49	9.70	62.98	141.83	1,430.67	-1,160.34	2,113.86	2,041.63	72.24	29.263		
2,000.00	1,951.70	1,947.70	1,951.70	10.22	66.33	142.28	1,430.67	-1,160.34	2,135.69	2,059.64	76.06	28.080		
2,100.00	2,047.90	2,043.90	2,047.90	10.73	69.68	142.72	1,430.67	-1,160.34	2,157.65	2,077.77	79.88	27.011		
2,200.00	2,144.11	2,140.11	2,144.11	11.26	73.04	143.15	1,430.67	-1,160.34	2,179.72	2,096.02	83.70	26.041		
2,300.00	2,240.31	2,236.31	2,240.31	11.78	76.39	143.57	1,430.67	-1,160.34	2,201.91	2,114.38	87.53	25.156		
2,400.00	2,336.52	2,332.52	2,336.52	12.31	79.75	143.98	1,430.67	-1,160.34	2,224.21	2,132.85	91.36	24.346		
2,500.00	2,432.72	2,428.72	2,432.72	12.84	83.11	144.38	1,430.67	-1,160.34	2,246.63	2,151.44	95.19	23.601		
2,600.00	2,528.93	2,524.93	2,528.93	13.37	86.46	144.78	1,430.67	-1,160.34	2,269.15	2,170.13	99.02	22.916		
2,700.00	2,625.13	2,621.13	2,625.13	13.91	89.82	145.17	1,430.67	-1,160.34	2,291.77	2,188.92	102.86	22.282		
2,800.00	2,721.34	2,717.34	2,721.34	14.44	93.17	145.55	1,430.67	-1,160.34	2,314.50	2,207.81	106.69	21.694		
2,900.00	2,817.54	2,813.54	2,817.54	14.98	96.53	145.92	1,430.67	-1,160.34	2,337.32	2,226.80	110.52	21.148		
3,000.00	2,913.75	2,909.75	2,913.75	15.52	99.89	146.29	1,430.67	-1,160.34	2,360.24	2,245.88	114.36	20.639		
3,100.00	3,009.95	3,005.95	3,009.95	16.06	103.24	146.65	1,430.67	-1,160.34	2,383.24	2,265.05	118.19	20.164		
3,200.00	3,106.16	3,102.16	3,106.16	16.60	106.60	147.00	1,430.67	-1,160.34	2,406.34	2,284.31	122.03	19.719		
3,300.00	3,202.37	3,201.63	3,202.37	17.14	110.07	147.35	1,430.67	-1,160.34	2,429.53	2,303.55	125.98	19.285		
3,400.00	3,298.57	3,305.43	3,298.57	17.68	113.69	147.69	1,430.67	-1,160.34	2,452.80	2,322.71	130.08	18.856		
3,500.00	3,394.78	3,409.22	3,394.78	18.22	117.32	148.02	1,430.67	-1,160.34	2,476.15	2,341.96	134.19	18.453		
3,600.00	3,490.98	3,486.98	3,490.98	18.76	120.03	148.35	1,430.67	-1,160.34	2,499.58	2,362.20	137.38	18.195		
3,700.00	3,587.19	3,583.19	3,587.19	19.31	123.39	148.67	1,430.67	-1,160.34	2,523.09	2,381.87	141.22	17.867		
3,800.00	3,683.39	3,679.39	3,683.39	19.85	126.74	148.99	1,430.67	-1,160.34	2,546.67	2,401.62	145.06	17.557		
3,900.00	3,779.60	3,775.60	3,779.60	20.39	130.10	149.30	1,430.67	-1,160.34	2,570.33	2,421.44	148.89	17.263		
4,000.00	3,875.80	3,871.80	3,875.80	20.94	133.46	149.60	1,430.67	-1,160.34	2,594.06	2,441.33	152.73	16.984		
4,100.00	3,972.01	3,968.01	3,972.01	21.48	136.82	149.90	1,430.67	-1,160.34	2,617.86	2,461.29	156.57	16.720		
4,200.00	4,068.21	4,064.21	4,068.21	22.03	140.17	150.20	1,430.67	-1,160.34	2,641.72	2,481.32	160.41	16.469		
4,300.00	4,164.42	4,160.42	4,164.42	22.57	143.53	150.49	1,430.67	-1,160.34	2,665.66	2,501.41	164.25	16.230		
4,400.00	4,260.62	4,256.62	4,260.62	23.12	146.89	150.77	1,430.67	-1,160.34	2,689.65	2,521.57	168.09	16.002		
4,500.00	4,356.83	4,352.83	4,356.83	23.67	150.25	151.05	1,430.67	-1,160.34	2,713.71	2,541.78	171.92	15.784		
4,600.00	4,453.03	4,449.03	4,453.03	24.21	153.61	151.32	1,430.67	-1,160.34	2,737.83	2,562.06	175.76	15.577		
4,700.00	4,549.24	4,545.24	4,549.24	24.76	156.96	151.59	1,430.67	-1,160.34	2,762.00	2,582.40	179.60	15.379		
4,800.00	4,645.44	4,641.44	4,645.44	25.31	160.32	151.86	1,430.67	-1,160.34	2,786.24	2,602.80	183.44	15.189		
4,900.00	4,741.65	4,737.65	4,741.65	25.86	163.68	152.12	1,430.67	-1,160.34	2,810.53	2,623.25	187.28	15.007		
5,000.00	4,837.85	4,833.85	4,837.85	26.40	167.04	152.37	1,430.67	-1,160.34	2,834.87	2,643.76	191.12	14.833		
5,100.00	4,934.06	4,930.06	4,934.06	26.95	170.39	152.62	1,430.67	-1,160.34	2,859.27	2,664.31	194.96	14.666		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,026.26	5,030.26	27.50	173.75	152.87	1,430.67	-1,160.34	2,883.72	2,684.93	198.79	14.506		
5,300.00	5,126.47	5,122.47	5,126.47	28.05	177.11	153.12	1,430.67	-1,160.34	2,908.22	2,705.59	202.63	14.352		
5,400.00	5,222.67	5,218.67	5,222.67	28.60	180.47	153.35	1,430.67	-1,160.34	2,932.77	2,726.30	206.47	14.204		
5,500.00	5,318.88	5,314.88	5,318.88	29.15	183.83	153.59	1,430.67	-1,160.34	2,957.37	2,747.06	210.31	14.062		
5,600.00	5,415.08	5,411.08	5,415.08	29.70	187.18	153.82	1,430.67	-1,160.34	2,982.01	2,767.86	214.15	13.925		
5,700.00	5,511.29	5,507.29	5,511.29	30.25	190.54	154.05	1,430.67	-1,160.34	3,006.70	2,788.71	217.99	13.793		
5,800.00	5,607.49	5,603.49	5,607.49	30.79	193.90	154.27	1,430.67	-1,160.34	3,031.44	2,809.61	221.83	13.666		
5,900.00	5,703.70	5,700.30	5,703.70	31.34	197.28	154.49	1,430.67	-1,160.34	3,056.21	2,830.53	225.68	13.542		
6,000.00	5,799.90	5,804.10	5,799.90	31.89	200.90	154.71	1,430.67	-1,160.34	3,081.03	2,851.24	229.79	13.408		
6,100.00	5,896.11	5,907.89	5,896.11	32.44	204.53	154.92	1,430.67	-1,160.34	3,105.89	2,872.00	233.89	13.279		
6,200.00	5,992.32	5,988.32	5,992.32	32.99	207.33	155.13	1,430.67	-1,160.34	3,130.80	2,893.62	237.18	13.200		
6,300.00	6,088.52	6,084.52	6,088.52	33.54	210.69	155.34	1,430.67	-1,160.34	3,155.74	2,914.72	241.02	13.093		
6,400.00	6,184.73	6,180.73	6,184.73	34.09	214.05	155.55	1,430.67	-1,160.34	3,180.72	2,935.86	244.86	12.990		
6,500.00	6,280.93	6,276.93	6,280.93	34.64	217.41	155.75	1,430.67	-1,160.34	3,205.74	2,957.04	248.70	12.890		
6,600.00	6,377.14	6,373.14	6,377.14	35.19	220.77	155.94	1,430.67	-1,160.34	3,230.79	2,978.26	252.53	12.794		
6,700.00	6,473.34	6,469.34	6,473.34	35.74	224.12	156.14	1,430.67	-1,160.34	3,255.88	2,999.51	256.37	12.700		
6,800.00	6,569.55	6,565.55	6,569.55	36.29	227.48	156.33	1,430.67	-1,160.34	3,281.01	3,020.79	260.21	12.609		
6,900.00	6,665.75	6,661.75	6,665.75	36.84	230.84	151.55	1,430.67	-1,160.34	3,306.11	3,042.06	264.05	12.521		
7,000.00	6,761.11	6,757.11	6,761.11	37.39	234.17	123.84	1,430.67	-1,160.34	3,328.08	3,060.22	267.86	12.425		
7,100.00	6,853.41	6,849.41	6,853.41	37.89	237.39	107.31	1,430.67	-1,160.34	3,344.92	3,073.39	271.53	12.319		
7,200.00	6,940.36	6,936.36	6,940.36	38.34	240.43	98.12	1,430.67	-1,160.34	3,356.66	3,081.67	274.99	12.207		
7,300.00	7,019.83	7,015.83	7,019.83	38.74	243.20	93.00	1,430.67	-1,160.34	3,363.55	3,085.39	278.17	12.092		
7,400.00	7,089.85	7,085.85	7,089.85	39.10	245.64	90.24	1,430.67	-1,160.34	3,366.05	3,085.03	281.02	11.978		
7,500.00	7,148.71	7,144.71	7,148.71	39.42	247.70	88.93	1,430.67	-1,160.34	3,364.74	3,081.19	283.54	11.867		
7,600.00	7,194.95	7,209.05	7,194.95	39.71	249.94	88.56	1,430.67	-1,160.34	3,360.27	3,073.91	286.35	11.735		
7,700.00	7,227.43	7,223.43	7,227.43	40.01	250.45	88.79	1,430.67	-1,160.34	3,353.27	3,065.71	287.56	11.661		
7,800.00	7,245.37	7,241.37	7,245.37	40.37	251.07	89.41	1,430.67	-1,160.34	3,344.33	3,055.29	289.04	11.570		
7,900.00	7,248.84	7,244.84	7,248.84	40.87	251.19	90.03	1,430.67	-1,160.34	3,334.02	3,043.86	290.16	11.490		
8,000.00	7,248.24	7,244.24	7,248.24	41.62	251.17	90.02	1,430.67	-1,160.34	3,325.52	3,034.23	291.29	11.417		
8,100.00	7,247.65	7,243.65	7,247.65	42.66	251.15	90.01	1,430.67	-1,160.34	3,320.01	3,027.44	292.57	11.348		
8,200.00	7,247.05	7,243.05	7,247.05	43.96	251.13	90.00	1,430.67	-1,160.34	3,317.51	3,023.54	293.97	11.285		
8,233.01	7,246.86	7,242.86	7,246.86	44.44	251.12	90.00	1,430.67	-1,160.34	3,317.34	3,022.87	294.47	11.265		
8,300.00	7,246.46	7,242.46	7,246.46	45.46	251.11	89.99	1,430.67	-1,160.34	3,318.02	3,022.54	295.48	11.229		
8,400.00	7,245.86	7,241.86	7,245.86	47.13	251.09	89.98	1,430.67	-1,160.34	3,321.54	3,024.46	297.08	11.181		
8,500.00	7,245.27	7,241.27	7,245.27	48.93	251.07	89.97	1,430.67	-1,160.34	3,328.07	3,029.31	298.76	11.140		
8,600.00	7,244.67	7,240.67	7,244.67	50.84	251.05	89.96	1,430.67	-1,160.34	3,337.58	3,037.10	300.48	11.107		
8,700.00	7,244.07	7,240.07	7,244.07	52.85	251.03	89.95	1,430.67	-1,160.34	3,350.05	3,047.80	302.25	11.084		
8,800.00	7,243.48	7,239.48	7,243.48	54.94	251.01	89.94	1,430.67	-1,160.34	3,365.45	3,061.41	304.04	11.069		
8,900.00	7,242.88	7,238.88	7,242.88	57.10	250.99	89.93	1,430.67	-1,160.34	3,383.73	3,077.89	305.84	11.064 SF		
9,000.00	7,242.29	7,238.29	7,242.29	59.32	250.96	89.92	1,430.67	-1,160.34	3,404.85	3,097.22	307.63	11.068		
9,100.00	7,241.69	7,237.69	7,241.69	61.60	250.94	89.91	1,430.67	-1,160.34	3,428.76	3,119.35	309.42	11.081		
9,200.00	7,241.09	7,237.09	7,241.09	63.92	250.92	89.90	1,430.67	-1,160.34	3,455.40	3,144.22	311.18	11.104		
9,300.00	7,240.50	7,236.50	7,240.50	66.29	250.90	89.89	1,430.67	-1,160.34	3,484.71	3,171.80	312.91	11.137		
9,400.00	7,239.90	7,235.90	7,239.90	68.70	250.88	89.88	1,430.67	-1,160.34	3,516.61	3,202.01	314.60	11.178		
9,500.00	7,239.31	7,235.31	7,239.31	71.14	250.86	89.87	1,430.67	-1,160.34	3,551.05	3,234.79	316.26	11.228		
9,600.00	7,238.71	7,234.71	7,238.71	73.61	250.84	89.86	1,430.67	-1,160.34	3,587.95	3,270.08	317.86	11.288		
9,700.00	7,238.11	7,234.11	7,238.11	76.11	250.82	89.85	1,430.67	-1,160.34	3,627.22	3,307.80	319.42	11.356		
9,800.00	7,237.52	7,233.52	7,237.52	78.64	250.80	89.84	1,430.67	-1,160.34	3,668.80	3,347.88	320.92	11.432		
9,900.00	7,236.92	7,232.92	7,236.92	81.19	250.78	89.83	1,430.67	-1,160.34	3,712.61	3,390.24	322.37	11.517		
10,000.00	7,236.33	7,232.33	7,236.33	83.75	250.76	89.82	1,430.67	-1,160.34	3,758.58	3,434.81	323.77	11.609		
10,100.00	7,235.73	7,231.73	7,235.73	86.34	250.74	89.81	1,430.67	-1,160.34	3,806.61	3,481.50	325.11	11.709		
10,200.00	7,235.14	7,231.14	7,235.14	88.94	250.72	89.80	1,430.67	-1,160.34	3,856.64	3,530.25	326.39	11.816		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	7,230.54	7,234.54	91.56	250.69	89.79	1,430.67	-1,160.34	3,908.59	3,580.97	327.61	11.931		
10,400.00	7,233.94	7,229.94	7,233.94	94.19	250.67	89.78	1,430.67	-1,160.34	3,962.38	3,633.59	328.78	12.052		
10,500.00	7,233.35	7,229.35	7,233.35	96.84	250.65	89.77	1,430.67	-1,160.34	4,017.94	3,688.04	329.90	12.179		
10,600.00	7,232.75	7,228.75	7,232.75	99.50	250.63	89.76	1,430.67	-1,160.34	4,075.19	3,744.23	330.96	12.313		
10,700.00	7,232.16	7,228.16	7,232.16	102.17	250.61	89.75	1,430.67	-1,160.34	4,134.07	3,802.10	331.97	12.453		
10,800.00	7,231.56	7,227.56	7,231.56	104.85	250.59	89.74	1,430.67	-1,160.34	4,194.51	3,861.58	332.93	12.599		
10,900.00	7,230.96	7,226.96	7,230.96	107.53	250.57	89.73	1,430.67	-1,160.34	4,256.45	3,922.60	333.85	12.750		
11,000.00	7,230.37	7,226.37	7,230.37	110.23	250.55	89.72	1,430.67	-1,160.34	4,319.80	3,985.09	334.71	12.906		
11,100.00	7,229.77	7,225.77	7,229.77	112.93	250.53	89.70	1,430.67	-1,160.34	4,384.53	4,048.99	335.53	13.067		
11,200.00	7,229.18	7,225.18	7,229.18	115.65	250.51	89.69	1,430.67	-1,160.34	4,450.56	4,114.24	336.31	13.233		
11,300.00	7,228.58	7,224.58	7,228.58	118.37	250.49	89.68	1,430.67	-1,160.34	4,517.84	4,180.78	337.05	13.404		
11,400.00	7,227.99	7,223.99	7,227.99	121.09	250.47	89.67	1,430.67	-1,160.34	4,586.31	4,248.56	337.75	13.579		
11,500.00	7,227.39	7,223.39	7,227.39	123.82	250.44	89.66	1,430.67	-1,160.34	4,655.92	4,317.51	338.41	13.758		
11,600.00	7,226.79	7,222.79	7,226.79	126.56	250.42	89.65	1,430.67	-1,160.34	4,726.62	4,387.58	339.04	13.941		
11,700.00	7,226.20	7,222.20	7,226.20	129.30	250.40	89.64	1,430.67	-1,160.34	4,798.37	4,458.73	339.63	14.128		
11,800.00	7,225.60	7,221.60	7,225.60	132.05	250.38	89.63	1,430.67	-1,160.34	4,871.11	4,530.91	340.19	14.319		
11,900.00	7,225.01	7,221.01	7,225.01	134.80	250.36	89.62	1,430.67	-1,160.34	4,944.80	4,604.08	340.73	14.513		
12,000.00	7,224.41	7,220.41	7,224.41	137.56	250.34	89.61	1,430.67	-1,160.34	5,019.41	4,678.18	341.23	14.710		
12,100.00	7,223.81	7,219.81	7,223.81	140.32	250.32	89.60	1,430.67	-1,160.34	5,094.88	4,753.18	341.70	14.910		
12,200.00	7,223.22	7,219.22	7,223.22	143.08	250.30	89.59	1,430.67	-1,160.34	5,171.19	4,829.03	342.15	15.114		
12,300.00	7,222.62	7,218.62	7,222.62	145.85	250.28	89.58	1,430.67	-1,160.34	5,248.29	4,905.71	342.58	15.320		
12,400.00	7,222.03	7,218.03	7,222.03	148.62	250.26	89.57	1,430.67	-1,160.34	5,326.15	4,983.17	342.98	15.529		
12,500.00	7,221.43	7,217.43	7,221.43	151.40	250.24	89.56	1,430.67	-1,160.34	5,404.75	5,061.38	343.36	15.741		
12,600.00	7,220.83	7,216.83	7,220.83	154.18	250.22	89.55	1,430.67	-1,160.34	5,484.04	5,140.31	343.72	15.955		
12,700.00	7,220.24	7,216.24	7,220.24	156.96	250.20	89.54	1,430.67	-1,160.34	5,563.99	5,219.93	344.07	16.171		
12,800.00	7,219.64	7,215.64	7,219.64	159.74	250.17	89.53	1,430.67	-1,160.34	5,644.59	5,300.20	344.39	16.390		
12,900.00	7,219.05	7,215.05	7,219.05	162.53	250.15	89.52	1,430.67	-1,160.34	5,725.80	5,381.10	344.69	16.611		
13,000.00	7,218.45	7,214.45	7,218.45	165.32	250.13	89.51	1,430.67	-1,160.34	5,807.59	5,462.61	344.98	16.834		
13,100.00	7,217.86	7,213.86	7,217.86	168.11	250.11	89.50	1,430.67	-1,160.34	5,889.95	5,544.69	345.26	17.060		
13,200.00	7,217.26	7,213.26	7,217.26	170.90	250.09	89.49	1,430.67	-1,160.34	5,972.84	5,627.32	345.52	17.287		
13,300.00	7,216.66	7,212.66	7,216.66	173.70	250.07	89.48	1,430.67	-1,160.34	6,056.25	5,710.49	345.77	17.515		
13,400.00	7,216.07	7,212.07	7,216.07	176.49	250.05	89.47	1,430.67	-1,160.34	6,140.16	5,794.16	346.00	17.746		
13,500.00	7,215.47	7,211.47	7,215.47	179.29	250.03	89.46	1,430.67	-1,160.34	6,224.54	5,878.32	346.22	17.979		
13,600.00	7,214.88	7,210.88	7,214.88	182.09	250.01	89.45	1,430.67	-1,160.34	6,309.38	5,962.95	346.43	18.212		
13,700.00	7,214.28	7,210.28	7,214.28	184.90	249.99	89.44	1,430.67	-1,160.34	6,394.66	6,048.03	346.63	18.448		
13,800.00	7,213.68	7,209.68	7,213.68	187.70	249.97	89.43	1,430.67	-1,160.34	6,480.35	6,133.53	346.82	18.685		
13,900.00	7,213.09	7,209.09	7,213.09	190.51	249.95	89.42	1,430.67	-1,160.34	6,566.46	6,219.46	347.00	18.923		
14,000.00	7,212.49	7,208.49	7,212.49	193.32	249.93	89.41	1,430.67	-1,160.34	6,652.95	6,305.78	347.17	19.163		
14,100.00	7,211.90	7,207.90	7,211.90	196.13	249.90	89.40	1,430.67	-1,160.34	6,739.81	6,392.48	347.33	19.404		
14,200.00	7,211.30	7,207.30	7,211.30	198.94	249.88	89.39	1,430.67	-1,160.34	6,827.04	6,479.55	347.49	19.647		
14,300.00	7,210.71	7,206.71	7,210.71	201.75	249.86	89.38	1,430.67	-1,160.34	6,914.61	6,566.97	347.64	19.890		
14,400.00	7,210.11	7,206.11	7,210.11	204.56	249.84	89.37	1,430.67	-1,160.34	7,002.51	6,654.73	347.78	20.135		
14,500.00	7,209.51	7,205.51	7,209.51	207.38	249.82	89.36	1,430.67	-1,160.34	7,090.73	6,742.82	347.91	20.381		
14,600.00	7,208.92	7,204.92	7,208.92	210.19	249.80	89.34	1,430.67	-1,160.34	7,179.26	6,831.23	348.03	20.628		
14,700.00	7,208.32	7,204.32	7,208.32	213.01	249.78	89.33	1,430.67	-1,160.34	7,268.09	6,919.94	348.16	20.876		
14,800.00	7,207.73	7,203.73	7,207.73	215.83	249.76	89.32	1,430.67	-1,160.34	7,357.21	7,008.94	348.27	21.125		
14,900.00	7,207.13	7,203.13	7,207.13	218.65	249.74	89.31	1,430.67	-1,160.34	7,446.60	7,098.22	348.38	21.375		
15,000.00	7,206.53	7,202.53	7,206.53	221.47	249.72	89.30	1,430.67	-1,160.34	7,536.26	7,187.78	348.48	21.626		
15,100.00	7,205.94	7,201.94	7,205.94	224.29	249.70	89.29	1,430.67	-1,160.34	7,626.18	7,277.59	348.58	21.878		
15,200.00	7,205.34	7,201.34	7,205.34	227.11	249.68	89.28	1,430.67	-1,160.34	7,716.34	7,367.66	348.68	22.130		
15,258.04	7,205.00	7,201.00	7,205.00	228.75	249.66	89.28	1,430.67	-1,160.34	7,768.79	7,420.05	348.73	22.277		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	18.00	3.28	3.28	-83.45	126.45	-1,101.99	1,109.36				
100.00	100.00	82.00	100.00	3.28	3.58	-83.45	126.45	-1,101.99	1,109.22	1,102.36	6.86	161.613	
200.00	200.00	182.00	200.00	3.34	5.66	-83.45	126.45	-1,101.99	1,109.22	1,100.23	8.99	123.339 CC	
300.00	299.98	281.98	299.98	3.44	8.74	91.88	126.45	-1,101.99	1,109.27	1,097.10	12.18	91.098	
400.00	399.84	381.84	399.84	3.59	12.04	92.15	126.45	-1,101.99	1,109.46	1,093.83	15.63	70.991	
500.00	499.45	481.45	499.45	3.79	15.42	92.59	126.45	-1,101.99	1,109.82	1,090.62	19.20	57.800	
600.00	598.70	580.70	598.70	4.03	18.81	93.20	126.45	-1,101.99	1,110.44	1,087.60	22.84	48.610	
700.00	697.47	679.47	697.47	4.31	22.22	93.97	126.45	-1,101.99	1,111.43	1,084.90	26.53	41.890	
800.00	795.62	777.62	795.62	4.64	25.61	94.91	126.45	-1,101.99	1,112.94	1,082.69	30.25	36.791	
900.00	893.06	875.06	893.06	5.00	28.99	95.98	126.45	-1,101.99	1,115.13	1,081.14	33.99	32.810	
1,000.00	989.65	971.65	989.65	5.40	32.34	97.20	126.45	-1,101.99	1,118.20	1,080.47	37.74	29.632 ES	
1,100.00	1,085.85	1,067.85	1,085.85	5.82	35.68	98.53	126.45	-1,101.99	1,122.08	1,080.58	41.50	27.037	
1,200.00	1,182.06	1,164.06	1,182.06	6.27	39.03	99.86	126.45	-1,101.99	1,126.61	1,081.32	45.29	24.875	
1,300.00	1,278.26	1,260.26	1,278.26	6.73	42.38	101.17	126.45	-1,101.99	1,131.78	1,082.68	49.09	23.053	
1,400.00	1,374.47	1,356.47	1,374.47	7.20	45.73	102.47	126.45	-1,101.99	1,137.58	1,084.67	52.91	21.499	
1,500.00	1,470.67	1,452.67	1,470.67	7.69	49.08	103.75	126.45	-1,101.99	1,144.00	1,087.26	56.74	20.162	
1,600.00	1,566.88	1,548.88	1,566.88	8.18	52.43	105.03	126.45	-1,101.99	1,151.03	1,090.46	60.58	19.001	
1,700.00	1,663.08	1,645.08	1,663.08	8.68	55.78	106.28	126.45	-1,101.99	1,158.66	1,094.25	64.42	17.987	
1,800.00	1,759.29	1,741.29	1,759.29	9.19	59.13	107.53	126.45	-1,101.99	1,166.88	1,098.62	68.26	17.094	
1,900.00	1,855.49	1,837.49	1,855.49	9.70	62.49	108.75	126.45	-1,101.99	1,175.68	1,103.57	72.11	16.303	
2,000.00	1,951.70	1,933.70	1,951.70	10.22	65.84	109.96	126.45	-1,101.99	1,185.04	1,109.07	75.97	15.600	
2,100.00	2,047.90	2,029.90	2,047.90	10.73	69.20	111.15	126.45	-1,101.99	1,194.95	1,115.13	79.82	14.970	
2,200.00	2,144.11	2,126.11	2,144.11	11.26	72.55	112.32	126.45	-1,101.99	1,205.40	1,121.72	83.68	14.406	
2,300.00	2,240.31	2,222.31	2,240.31	11.78	75.91	113.47	126.45	-1,101.99	1,216.36	1,128.83	87.53	13.896	
2,400.00	2,336.52	2,318.52	2,336.52	12.31	79.26	114.60	126.45	-1,101.99	1,227.84	1,136.45	91.39	13.435	
2,500.00	2,432.72	2,414.72	2,432.72	12.84	82.62	115.71	126.45	-1,101.99	1,239.81	1,144.57	95.24	13.017	
2,600.00	2,528.93	2,510.93	2,528.93	13.37	85.97	116.80	126.45	-1,101.99	1,252.26	1,153.16	99.10	12.636	
2,700.00	2,625.13	2,607.13	2,625.13	13.91	89.33	117.88	126.45	-1,101.99	1,265.18	1,162.23	102.96	12.289	
2,800.00	2,721.34	2,703.34	2,721.34	14.44	92.69	118.92	126.45	-1,101.99	1,278.55	1,171.74	106.81	11.970	
2,900.00	2,817.54	2,800.46	2,817.54	14.98	96.07	119.95	126.45	-1,101.99	1,292.36	1,181.66	110.70	11.675	
3,000.00	2,913.75	2,904.25	2,913.75	15.52	99.70	120.96	126.45	-1,101.99	1,306.59	1,191.78	114.81	11.380	
3,100.00	3,009.95	3,008.05	3,009.95	16.06	103.32	121.95	126.45	-1,101.99	1,321.23	1,202.30	118.93	11.109	
3,200.00	3,106.16	3,088.16	3,106.16	16.60	106.11	122.92	126.45	-1,101.99	1,336.27	1,214.05	122.22	10.933	
3,300.00	3,202.37	3,184.37	3,202.37	17.14	109.47	123.86	126.45	-1,101.99	1,351.69	1,225.62	126.07	10.722	
3,400.00	3,298.57	3,280.57	3,298.57	17.68	112.83	124.79	126.45	-1,101.99	1,367.49	1,237.57	129.92	10.526	
3,500.00	3,394.78	3,376.78	3,394.78	18.22	116.18	125.69	126.45	-1,101.99	1,383.64	1,249.87	133.77	10.344	
3,600.00	3,490.98	3,472.98	3,490.98	18.76	119.54	126.58	126.45	-1,101.99	1,400.13	1,262.52	137.61	10.175	
3,700.00	3,587.19	3,569.19	3,587.19	19.31	122.90	127.44	126.45	-1,101.99	1,416.96	1,275.51	141.46	10.017	
3,800.00	3,683.39	3,665.39	3,683.39	19.85	126.26	128.29	126.45	-1,101.99	1,434.11	1,288.81	145.30	9.870	
3,900.00	3,779.60	3,761.60	3,779.60	20.39	129.61	129.11	126.45	-1,101.99	1,451.58	1,302.43	149.14	9.733	
4,000.00	3,875.80	3,857.80	3,875.80	20.94	132.97	129.92	126.45	-1,101.99	1,469.34	1,316.35	152.99	9.604	
4,100.00	3,972.01	3,954.01	3,972.01	21.48	136.33	130.71	126.45	-1,101.99	1,487.39	1,330.56	156.83	9.484	
4,200.00	4,068.21	4,050.21	4,068.21	22.03	139.69	131.48	126.45	-1,101.99	1,505.71	1,345.04	160.67	9.372	
4,300.00	4,164.42	4,146.42	4,164.42	22.57	143.04	132.23	126.45	-1,101.99	1,524.31	1,359.80	164.51	9.266	
4,400.00	4,260.62	4,242.62	4,260.62	23.12	146.40	132.97	126.45	-1,101.99	1,543.16	1,374.82	168.35	9.166	
4,500.00	4,356.83	4,338.83	4,356.83	23.67	149.76	133.69	126.45	-1,101.99	1,562.27	1,390.08	172.19	9.073	
4,600.00	4,453.03	4,435.03	4,453.03	24.21	153.12	134.39	126.45	-1,101.99	1,581.61	1,405.59	176.02	8.985	
4,700.00	4,549.24	4,531.24	4,549.24	24.76	156.47	135.07	126.45	-1,101.99	1,601.18	1,421.32	179.86	8.902	
4,800.00	4,645.44	4,627.44	4,645.44	25.31	159.83	135.74	126.45	-1,101.99	1,620.98	1,437.29	183.70	8.824	
4,900.00	4,741.65	4,723.65	4,741.65	25.86	163.19	136.39	126.45	-1,101.99	1,640.99	1,453.46	187.53	8.750	
5,000.00	4,837.85	4,819.85	4,837.85	26.40	166.55	137.03	126.45	-1,101.99	1,661.21	1,469.85	191.37	8.681	
5,100.00	4,934.06	4,916.06	4,934.06	26.95	169.91	137.65	126.45	-1,101.99	1,681.63	1,486.43	195.20	8.615	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,012.26	5,030.26	27.50	173.26	138.26	126.45	-1,101.99	1,702.25	1,503.21	199.04	8.552	
5,300.00	5,126.47	5,108.47	5,126.47	28.05	176.62	138.86	126.45	-1,101.99	1,723.04	1,520.17	202.87	8.493	
5,400.00	5,222.67	5,204.67	5,222.67	28.60	179.98	139.44	126.45	-1,101.99	1,744.02	1,537.31	206.70	8.437	
5,500.00	5,318.88	5,300.88	5,318.88	29.15	183.34	140.00	126.45	-1,101.99	1,765.17	1,554.63	210.54	8.384	
5,600.00	5,415.08	5,402.92	5,415.08	29.70	186.90	140.56	126.45	-1,101.99	1,786.48	1,571.91	214.57	8.326	
5,700.00	5,511.29	5,506.71	5,511.29	30.25	190.52	141.10	126.45	-1,101.99	1,807.96	1,589.29	218.67	8.268	
5,800.00	5,607.49	5,589.49	5,607.49	30.79	193.41	141.63	126.45	-1,101.99	1,829.59	1,607.56	222.03	8.240	
5,900.00	5,703.70	5,685.70	5,703.70	31.34	196.77	142.14	126.45	-1,101.99	1,851.37	1,625.50	225.87	8.197	
6,000.00	5,799.90	5,781.90	5,799.90	31.89	200.13	142.65	126.45	-1,101.99	1,873.29	1,643.60	229.70	8.155	
6,100.00	5,896.11	5,878.11	5,896.11	32.44	203.49	143.14	126.45	-1,101.99	1,895.36	1,661.83	233.53	8.116	
6,200.00	5,992.32	5,974.32	5,992.32	32.99	206.84	143.63	126.45	-1,101.99	1,917.56	1,680.19	237.36	8.079	
6,300.00	6,088.52	6,070.52	6,088.52	33.54	210.20	144.10	126.45	-1,101.99	1,939.88	1,698.69	241.19	8.043	
6,400.00	6,184.73	6,166.73	6,184.73	34.09	213.56	144.56	126.45	-1,101.99	1,962.34	1,717.31	245.02	8.009	
6,500.00	6,280.93	6,262.93	6,280.93	34.64	216.92	145.01	126.45	-1,101.99	1,984.91	1,736.06	248.85	7.976	
6,600.00	6,377.14	6,359.14	6,377.14	35.19	220.28	145.45	126.45	-1,101.99	2,007.60	1,754.92	252.69	7.945	
6,700.00	6,473.34	6,455.34	6,473.34	35.74	223.63	145.88	126.45	-1,101.99	2,030.41	1,773.89	256.52	7.915	
6,800.00	6,569.55	6,551.55	6,569.55	36.29	226.99	146.30	126.45	-1,101.99	2,053.32	1,792.97	260.35	7.887	
6,900.00	6,665.75	6,647.75	6,665.75	36.84	230.35	141.80	126.45	-1,101.99	2,076.26	1,812.08	264.18	7.859	
7,000.00	6,761.11	6,743.11	6,761.11	37.39	233.68	114.81	126.45	-1,101.99	2,094.64	1,826.67	267.97	7.817	
7,100.00	6,853.41	6,835.41	6,853.41	37.89	236.90	99.21	126.45	-1,101.99	2,105.85	1,834.23	271.62	7.753	
7,200.00	6,940.36	6,922.36	6,940.36	38.34	239.94	91.11	126.45	-1,101.99	2,110.29	1,835.25	275.05	7.673	
7,300.00	7,019.83	7,001.83	7,019.83	38.74	242.71	87.18	126.45	-1,101.99	2,108.68	1,830.50	278.18	7.580	
7,400.00	7,089.85	7,071.85	7,089.85	39.10	245.16	85.67	126.45	-1,101.99	2,101.99	1,821.01	280.98	7.481	
7,500.00	7,148.71	7,130.71	7,148.71	39.42	247.21	85.63	126.45	-1,101.99	2,091.37	1,807.93	283.44	7.378	
7,600.00	7,194.95	7,176.95	7,194.95	39.71	248.82	86.43	126.45	-1,101.99	2,078.02	1,792.46	285.56	7.277	
7,700.00	7,227.43	7,209.43	7,227.43	40.01	249.96	87.67	126.45	-1,101.99	2,063.11	1,775.77	287.33	7.180	
7,800.00	7,245.37	7,227.37	7,245.37	40.37	250.58	89.05	126.45	-1,101.99	2,047.63	1,758.88	288.75	7.091	
7,900.00	7,248.84	7,230.84	7,248.84	40.87	250.71	90.05	126.45	-1,101.99	2,032.51	1,742.70	289.81	7.013	
8,000.00	7,248.24	7,230.24	7,248.24	41.62	250.68	90.03	126.45	-1,101.99	2,021.05	1,730.17	290.87	6.948	
8,100.00	7,247.65	7,229.65	7,247.65	42.66	250.66	90.01	126.45	-1,101.99	2,014.49	1,722.41	292.08	6.897	
8,182.28	7,247.16	7,229.16	7,247.16	43.72	250.65	90.00	126.45	-1,101.99	2,012.81	1,719.64	293.17	6.866	
8,200.00	7,247.05	7,229.05	7,247.05	43.96	250.64	90.00	126.45	-1,101.99	2,012.89	1,719.49	293.40	6.861	
8,300.00	7,246.46	7,228.46	7,246.46	45.46	250.62	89.98	126.45	-1,101.99	2,016.25	1,721.45	294.80	6.839	
8,400.00	7,245.86	7,227.86	7,245.86	47.13	250.60	89.96	126.45	-1,101.99	2,024.55	1,728.29	296.26	6.834 SF	
8,500.00	7,245.27	7,227.27	7,245.27	48.93	250.58	89.95	126.45	-1,101.99	2,037.73	1,739.99	297.74	6.844	
8,600.00	7,244.67	7,226.67	7,244.67	50.84	250.56	89.93	126.45	-1,101.99	2,055.70	1,756.47	299.23	6.870	
8,700.00	7,244.07	7,226.07	7,244.07	52.85	250.54	89.91	126.45	-1,101.99	2,078.32	1,777.63	300.70	6.912	
8,800.00	7,243.48	7,225.48	7,243.48	54.94	250.52	89.90	126.45	-1,101.99	2,105.46	1,803.34	302.12	6.969	
8,900.00	7,242.88	7,224.88	7,242.88	57.10	250.50	89.88	126.45	-1,101.99	2,136.94	1,833.44	303.50	7.041	
9,000.00	7,242.29	7,224.29	7,242.29	59.32	250.48	89.86	126.45	-1,101.99	2,172.57	1,867.76	304.81	7.128	
9,100.00	7,241.69	7,223.69	7,241.69	61.60	250.46	89.84	126.45	-1,101.99	2,212.14	1,906.10	306.04	7.228	
9,200.00	7,241.09	7,223.09	7,241.09	63.92	250.43	89.83	126.45	-1,101.99	2,255.46	1,948.27	307.20	7.342	
9,300.00	7,240.50	7,222.50	7,240.50	66.29	250.41	89.81	126.45	-1,101.99	2,302.31	1,994.04	308.27	7.468	
9,400.00	7,239.90	7,221.90	7,239.90	68.70	250.39	89.79	126.45	-1,101.99	2,352.49	2,043.22	309.27	7.607	
9,500.00	7,239.31	7,221.31	7,239.31	71.14	250.37	89.78	126.45	-1,101.99	2,405.77	2,095.59	310.18	7.756	
9,600.00	7,238.71	7,220.71	7,238.71	73.61	250.35	89.76	126.45	-1,101.99	2,461.96	2,150.95	311.01	7.916	
9,700.00	7,238.11	7,220.11	7,238.11	76.11	250.33	89.74	126.45	-1,101.99	2,520.87	2,209.09	311.78	8.086	
9,800.00	7,237.52	7,219.52	7,237.52	78.64	250.31	89.73	126.45	-1,101.99	2,582.31	2,269.84	312.47	8.264	
9,900.00	7,236.92	7,218.92	7,236.92	81.19	250.29	89.71	126.45	-1,101.99	2,646.10	2,333.01	313.10	8.451	
10,000.00	7,236.33	7,218.33	7,236.33	83.75	250.27	89.69	126.45	-1,101.99	2,712.08	2,398.42	313.66	8.647	
10,100.00	7,235.73	7,217.73	7,235.73	86.34	250.25	89.67	126.45	-1,101.99	2,780.09	2,465.92	314.17	8.849	
10,200.00	7,235.14	7,217.14	7,235.14	88.94	250.23	89.66	126.45	-1,101.99	2,849.99	2,535.36	314.63	9.058	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	7,216.54	7,234.54	91.56	250.21	89.64	126.45	-1,101.99	2,921.64	2,606.59	315.05	9.274	
10,400.00	7,233.94	7,215.94	7,233.94	94.19	250.19	89.62	126.45	-1,101.99	2,994.91	2,679.50	315.42	9.495	
10,500.00	7,233.35	7,215.35	7,233.35	96.84	250.16	89.61	126.45	-1,101.99	3,069.70	2,753.95	315.75	9.722	
10,600.00	7,232.75	7,214.75	7,232.75	99.50	250.14	89.59	126.45	-1,101.99	3,145.88	2,829.84	316.04	9.954	
10,700.00	7,232.16	7,214.16	7,232.16	102.17	250.12	89.57	126.45	-1,101.99	3,223.37	2,907.06	316.31	10.191	
10,800.00	7,231.56	7,213.56	7,231.56	104.85	250.10	89.56	126.45	-1,101.99	3,302.06	2,985.52	316.55	10.432	
10,900.00	7,230.96	7,212.96	7,230.96	107.53	250.08	89.54	126.45	-1,101.99	3,381.88	3,065.13	316.76	10.677	
11,000.00	7,230.37	7,212.37	7,230.37	110.23	250.06	89.52	126.45	-1,101.99	3,462.75	3,145.81	316.94	10.925	
11,100.00	7,229.77	7,211.77	7,229.77	112.93	250.04	89.51	126.45	-1,101.99	3,544.60	3,227.49	317.11	11.178	
11,200.00	7,229.18	7,211.18	7,229.18	115.65	250.02	89.49	126.45	-1,101.99	3,627.36	3,310.10	317.26	11.433	
11,300.00	7,228.58	7,210.58	7,228.58	118.37	250.00	89.47	126.45	-1,101.99	3,710.96	3,393.57	317.39	11.692	
11,400.00	7,227.99	7,209.99	7,227.99	121.09	249.98	89.45	126.45	-1,101.99	3,795.36	3,477.85	317.51	11.954	
11,500.00	7,227.39	7,209.39	7,227.39	123.82	249.96	89.44	126.45	-1,101.99	3,880.50	3,562.89	317.61	12.218	
11,600.00	7,226.79	7,208.79	7,226.79	126.56	249.94	89.42	126.45	-1,101.99	3,966.33	3,648.63	317.70	12.484	
11,700.00	7,226.20	7,208.20	7,226.20	129.30	249.91	89.40	126.45	-1,101.99	4,052.82	3,735.03	317.78	12.753	
11,800.00	7,225.60	7,207.60	7,225.60	132.05	249.89	89.39	126.45	-1,101.99	4,139.91	3,822.05	317.85	13.025	
11,900.00	7,225.01	7,207.01	7,225.01	134.80	249.87	89.37	126.45	-1,101.99	4,227.57	3,909.65	317.92	13.298	
12,000.00	7,224.41	7,206.41	7,224.41	137.56	249.85	89.35	126.45	-1,101.99	4,315.77	3,997.80	317.97	13.573	
12,100.00	7,223.81	7,205.81	7,223.81	140.32	249.83	89.34	126.45	-1,101.99	4,404.47	4,086.46	318.02	13.850	
12,200.00	7,223.22	7,205.22	7,223.22	143.08	249.81	89.32	126.45	-1,101.99	4,493.65	4,175.59	318.06	14.128	
12,300.00	7,222.62	7,204.62	7,222.62	145.85	249.79	89.30	126.45	-1,101.99	4,583.28	4,265.18	318.09	14.409	
12,400.00	7,222.03	7,204.03	7,222.03	148.62	249.77	89.28	126.45	-1,101.99	4,673.32	4,355.20	318.12	14.690	
12,500.00	7,221.43	7,203.43	7,221.43	151.40	249.75	89.27	126.45	-1,101.99	4,763.76	4,445.61	318.15	14.973	
12,600.00	7,220.83	7,202.83	7,220.83	154.18	249.73	89.25	126.45	-1,101.99	4,854.58	4,536.41	318.17	15.258	
12,700.00	7,220.24	7,202.24	7,220.24	156.96	249.71	89.23	126.45	-1,101.99	4,945.75	4,627.56	318.19	15.543	
12,800.00	7,219.64	7,201.64	7,219.64	159.74	249.69	89.22	126.45	-1,101.99	5,037.26	4,719.05	318.21	15.830	
12,900.00	7,219.05	7,201.05	7,219.05	162.53	249.67	89.20	126.45	-1,101.99	5,129.08	4,810.86	318.22	16.118	
13,000.00	7,218.45	7,200.45	7,218.45	165.32	249.64	89.18	126.45	-1,101.99	5,221.21	4,902.97	318.23	16.407	
13,100.00	7,217.86	7,200.14	7,217.86	168.11	249.63	89.17	126.45	-1,101.99	5,313.62	4,995.36	318.25	16.696	
13,200.00	7,217.26	7,200.74	7,217.26	170.90	249.65	89.15	126.45	-1,101.99	5,406.29	5,087.99	318.30	16.985	
13,300.00	7,216.66	7,201.34	7,216.66	173.70	249.68	89.13	126.45	-1,101.99	5,499.23	5,180.88	318.35	17.274	
13,400.00	7,216.07	7,201.93	7,216.07	176.49	249.70	89.12	126.45	-1,101.99	5,592.41	5,274.01	318.39	17.564	
13,500.00	7,215.47	7,202.53	7,215.47	179.29	249.72	89.10	126.45	-1,101.99	5,685.82	5,367.38	318.44	17.855	
13,600.00	7,214.88	7,203.12	7,214.88	182.09	249.74	89.08	126.45	-1,101.99	5,779.45	5,460.97	318.48	18.147	
13,700.00	7,214.28	7,203.72	7,214.28	184.90	249.76	89.06	126.45	-1,101.99	5,873.29	5,554.76	318.53	18.439	
13,800.00	7,213.68	7,204.32	7,213.68	187.70	249.78	89.05	126.45	-1,101.99	5,967.33	5,648.76	318.57	18.732	
13,900.00	7,213.09	7,204.91	7,213.09	190.51	249.80	89.03	126.45	-1,101.99	6,061.56	5,742.95	318.61	19.025	
14,000.00	7,212.49	7,205.51	7,212.49	193.32	249.82	89.01	126.45	-1,101.99	6,155.98	5,837.33	318.65	19.319	
14,100.00	7,211.90	7,206.10	7,211.90	196.13	249.84	89.00	126.45	-1,101.99	6,250.56	5,931.87	318.69	19.613	
14,200.00	7,211.30	7,206.70	7,211.30	198.94	249.86	88.98	126.45	-1,101.99	6,345.32	6,026.58	318.73	19.908	
14,300.00	7,210.71	7,207.30	7,210.71	201.75	249.88	88.96	126.45	-1,101.99	6,440.23	6,121.46	318.77	20.203	
14,400.00	7,210.11	7,207.89	7,210.11	204.56	249.90	88.95	126.45	-1,101.99	6,535.29	6,216.48	318.81	20.499	
14,500.00	7,209.51	7,208.49	7,209.51	207.38	249.92	88.93	126.45	-1,101.99	6,630.50	6,311.65	318.86	20.795	
14,600.00	7,208.92	7,208.08	7,208.92	210.19	249.95	88.91	126.45	-1,101.99	6,725.85	6,406.95	318.90	21.091	
14,700.00	7,208.32	7,209.68	7,208.32	213.01	249.97	88.89	126.45	-1,101.99	6,821.33	6,502.39	318.94	21.388	
14,800.00	7,207.73	7,189.73	7,207.73	215.83	249.27	88.88	126.45	-1,101.99	6,916.94	6,598.68	318.26	21.734	
14,900.00	7,207.13	7,189.13	7,207.13	218.65	249.25	88.86	126.45	-1,101.99	7,012.67	6,694.41	318.26	22.034	
15,000.00	7,206.53	7,188.53	7,206.53	221.47	249.23	88.84	126.45	-1,101.99	7,108.52	6,790.26	318.26	22.335	
15,100.00	7,205.94	7,187.94	7,205.94	224.29	249.21	88.83	126.45	-1,101.99	7,204.48	6,886.22	318.26	22.637	
15,200.00	7,205.34	7,187.34	7,205.34	227.11	249.19	88.81	126.45	-1,101.99	7,300.55	6,982.29	318.26	22.939	
15,258.04	7,205.00	7,187.00	7,205.00	228.75	249.17	88.80	126.45	-1,101.99	7,356.36	7,038.10	318.26	23.114	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	11.00	3.28	3.28	-61.38	807.72	-1,480.22	1,686.29					
100.00	100.00	89.00	100.00	3.28	3.63	-61.38	807.72	-1,480.22	1,686.25	1,679.34	6.91	243.890		
200.00	200.00	189.00	200.00	3.34	5.86	-61.38	807.72	-1,480.22	1,686.25	1,677.06	9.19	183.406 CC		
300.00	299.98	288.98	299.98	3.44	8.96	113.91	807.72	-1,480.22	1,686.96	1,674.56	12.40	136.003		
400.00	399.84	388.84	399.84	3.59	12.28	114.03	807.72	-1,480.22	1,689.09	1,673.23	15.86	106.472		
500.00	499.45	488.45	499.45	3.79	15.65	114.23	807.72	-1,480.22	1,692.66	1,673.22	19.44	87.066 ES		
600.00	598.70	587.70	598.70	4.03	19.06	114.51	807.72	-1,480.22	1,697.73	1,674.64	23.09	73.540		
700.00	697.47	686.47	697.47	4.31	22.46	114.87	807.72	-1,480.22	1,704.33	1,677.55	26.77	63.657		
800.00	795.62	784.62	795.62	4.64	25.85	115.29	807.72	-1,480.22	1,712.54	1,682.05	30.49	56.168		
900.00	893.06	882.06	893.06	5.00	29.23	115.77	807.72	-1,480.22	1,722.44	1,688.22	34.22	50.330		
1,000.00	989.65	978.65	989.65	5.40	32.58	116.33	807.72	-1,480.22	1,734.12	1,696.16	37.96	45.677		
1,100.00	1,085.85	1,074.85	1,085.85	5.82	35.93	117.11	807.72	-1,480.22	1,746.77	1,705.05	41.72	41.870		
1,200.00	1,182.06	1,171.06	1,182.06	6.27	39.27	117.88	807.72	-1,480.22	1,759.76	1,714.26	45.49	38.681		
1,300.00	1,278.26	1,267.26	1,278.26	6.73	42.62	118.63	807.72	-1,480.22	1,773.06	1,723.78	49.28	35.976		
1,400.00	1,374.47	1,363.47	1,374.47	7.20	45.97	119.38	807.72	-1,480.22	1,786.69	1,733.60	53.09	33.655		
1,500.00	1,470.67	1,459.67	1,470.67	7.69	49.32	120.11	807.72	-1,480.22	1,800.62	1,743.72	56.90	31.644		
1,600.00	1,566.88	1,555.88	1,566.88	8.18	52.67	120.84	807.72	-1,480.22	1,814.86	1,754.14	60.72	29.887		
1,700.00	1,663.08	1,652.08	1,663.08	8.68	56.02	121.55	807.72	-1,480.22	1,829.40	1,764.85	64.55	28.340		
1,800.00	1,759.29	1,748.29	1,759.29	9.19	59.38	122.25	807.72	-1,480.22	1,844.22	1,775.84	68.38	26.969		
1,900.00	1,855.49	1,844.49	1,855.49	9.70	62.73	122.95	807.72	-1,480.22	1,859.33	1,787.11	72.22	25.745		
2,000.00	1,951.70	1,940.70	1,951.70	10.22	66.09	123.63	807.72	-1,480.22	1,874.71	1,798.65	76.06	24.647		
2,100.00	2,047.90	2,036.90	2,047.90	10.73	69.44	124.30	807.72	-1,480.22	1,890.36	1,810.46	79.90	23.658		
2,200.00	2,144.11	2,133.11	2,144.11	11.26	72.80	124.96	807.72	-1,480.22	1,906.27	1,822.52	83.75	22.762		
2,300.00	2,240.31	2,229.31	2,240.31	11.78	76.15	125.61	807.72	-1,480.22	1,922.44	1,834.85	87.59	21.947		
2,400.00	2,336.52	2,325.52	2,336.52	12.31	79.51	126.25	807.72	-1,480.22	1,938.86	1,847.42	91.44	21.203		
2,500.00	2,432.72	2,421.72	2,432.72	12.84	82.86	126.88	807.72	-1,480.22	1,955.52	1,860.23	95.29	20.522		
2,600.00	2,528.93	2,517.93	2,528.93	13.37	86.22	127.50	807.72	-1,480.22	1,972.42	1,873.28	99.14	19.895		
2,700.00	2,625.13	2,614.13	2,625.13	13.91	89.57	128.11	807.72	-1,480.22	1,989.54	1,886.55	102.99	19.318		
2,800.00	2,721.34	2,710.34	2,721.34	14.44	92.93	128.71	807.72	-1,480.22	2,006.90	1,900.06	106.84	18.784		
2,900.00	2,817.54	2,806.54	2,817.54	14.98	96.29	129.29	807.72	-1,480.22	2,024.47	1,913.78	110.69	18.290		
3,000.00	2,913.75	2,902.75	2,913.75	15.52	99.64	129.87	807.72	-1,480.22	2,042.25	1,927.71	114.54	17.830		
3,100.00	3,009.95	3,001.05	3,009.95	16.06	103.07	130.44	807.72	-1,480.22	2,060.25	1,941.78	118.46	17.392		
3,200.00	3,106.16	3,104.84	3,106.16	16.60	106.70	131.00	807.72	-1,480.22	2,078.44	1,955.87	122.58	16.956		
3,300.00	3,202.37	3,208.63	3,202.37	17.14	110.32	131.55	807.72	-1,480.22	2,096.83	1,970.14	126.69	16.551		
3,400.00	3,298.57	3,287.57	3,298.57	17.68	113.07	132.10	807.72	-1,480.22	2,115.42	1,985.48	129.94	16.280		
3,500.00	3,394.78	3,383.78	3,394.78	18.22	116.43	132.63	807.72	-1,480.22	2,134.19	2,000.40	133.79	15.952		
3,600.00	3,490.98	3,479.98	3,490.98	18.76	119.79	133.15	807.72	-1,480.22	2,153.15	2,015.51	137.64	15.644		
3,700.00	3,587.19	3,576.19	3,587.19	19.31	123.14	133.67	807.72	-1,480.22	2,172.28	2,030.79	141.48	15.353		
3,800.00	3,683.39	3,672.39	3,683.39	19.85	126.50	134.17	807.72	-1,480.22	2,191.58	2,046.25	145.33	15.080		
3,900.00	3,779.60	3,768.60	3,779.60	20.39	129.86	134.67	807.72	-1,480.22	2,211.05	2,061.87	149.18	14.821		
4,000.00	3,875.80	3,864.80	3,875.80	20.94	133.22	135.16	807.72	-1,480.22	2,230.69	2,077.66	153.03	14.577		
4,100.00	3,972.01	3,961.01	3,972.01	21.48	136.57	135.64	807.72	-1,480.22	2,250.49	2,093.61	156.87	14.346		
4,200.00	4,068.21	4,057.21	4,068.21	22.03	139.93	136.11	807.72	-1,480.22	2,270.44	2,109.72	160.72	14.127		
4,300.00	4,164.42	4,153.42	4,164.42	22.57	143.29	136.58	807.72	-1,480.22	2,290.54	2,125.97	164.57	13.919		
4,400.00	4,260.62	4,249.62	4,260.62	23.12	146.65	137.03	807.72	-1,480.22	2,310.79	2,142.38	168.41	13.721		
4,500.00	4,356.83	4,345.83	4,356.83	23.67	150.00	137.48	807.72	-1,480.22	2,331.18	2,158.92	172.26	13.533		
4,600.00	4,453.03	4,442.03	4,453.03	24.21	153.36	137.93	807.72	-1,480.22	2,351.71	2,175.61	176.10	13.354		
4,700.00	4,549.24	4,538.24	4,549.24	24.76	156.72	138.36	807.72	-1,480.22	2,372.38	2,192.44	179.95	13.184		
4,800.00	4,645.44	4,634.44	4,645.44	25.31	160.08	138.79	807.72	-1,480.22	2,393.19	2,209.39	183.79	13.021		
4,900.00	4,741.65	4,730.65	4,741.65	25.86	163.43	139.21	807.72	-1,480.22	2,414.12	2,226.48	187.64	12.866		
5,000.00	4,837.85	4,826.85	4,837.85	26.40	166.79	139.62	807.72	-1,480.22	2,435.17	2,243.69	191.48	12.718		
5,100.00	4,934.06	4,923.06	4,934.06	26.95	170.15	140.03	807.72	-1,480.22	2,456.35	2,261.03	195.32	12.576		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	5,019.26	5,030.26	27.50	173.51	140.42	807.72	-1,480.22	2,477.65	2,278.49	199.17	12.440		
5,300.00	5,126.47	5,115.47	5,126.47	28.05	176.87	140.82	807.72	-1,480.22	2,499.07	2,296.06	203.01	12.310		
5,400.00	5,222.67	5,211.67	5,222.67	28.60	180.22	141.20	807.72	-1,480.22	2,520.59	2,313.75	206.85	12.186		
5,500.00	5,318.88	5,307.88	5,318.88	29.15	183.58	141.58	807.72	-1,480.22	2,542.23	2,331.54	210.69	12.066		
5,600.00	5,415.08	5,404.08	5,415.08	29.70	186.94	141.96	807.72	-1,480.22	2,563.98	2,349.45	214.53	11.951		
5,700.00	5,511.29	5,500.29	5,511.29	30.25	190.30	142.32	807.72	-1,480.22	2,585.83	2,367.46	218.37	11.841		
5,800.00	5,607.49	5,603.51	5,607.49	30.79	193.90	142.69	807.72	-1,480.22	2,607.79	2,385.33	222.46	11.723		
5,900.00	5,703.70	5,707.30	5,703.70	31.34	197.52	143.04	807.72	-1,480.22	2,629.84	2,403.28	226.57	11.607		
6,000.00	5,799.90	5,788.90	5,799.90	31.89	200.37	143.39	807.72	-1,480.22	2,651.99	2,422.10	229.90	11.536		
6,100.00	5,896.11	5,885.11	5,896.11	32.44	203.73	143.73	807.72	-1,480.22	2,674.24	2,440.50	233.74	11.441		
6,200.00	5,992.32	5,981.32	5,992.32	32.99	207.09	144.07	807.72	-1,480.22	2,696.58	2,459.00	237.58	11.350		
6,300.00	6,088.52	6,077.52	6,088.52	33.54	210.45	144.41	807.72	-1,480.22	2,719.01	2,477.59	241.42	11.263		
6,400.00	6,184.73	6,173.73	6,184.73	34.09	213.80	144.73	807.72	-1,480.22	2,741.53	2,496.27	245.26	11.178		
6,500.00	6,280.93	6,269.93	6,280.93	34.64	217.16	145.06	807.72	-1,480.22	2,764.13	2,515.03	249.10	11.097		
6,600.00	6,377.14	6,366.14	6,377.14	35.19	220.52	145.37	807.72	-1,480.22	2,786.82	2,533.88	252.93	11.018		
6,700.00	6,473.34	6,462.34	6,473.34	35.74	223.88	145.69	807.72	-1,480.22	2,809.59	2,552.81	256.77	10.942		
6,800.00	6,569.55	6,558.55	6,569.55	36.29	227.24	145.99	807.72	-1,480.22	2,832.44	2,571.82	260.61	10.868		
6,900.00	6,665.75	6,654.75	6,665.75	36.84	230.60	141.38	807.72	-1,480.22	2,855.28	2,590.83	264.45	10.797		
7,000.00	6,761.11	6,750.11	6,761.11	37.39	233.92	114.25	807.72	-1,480.22	2,873.45	2,605.20	268.26	10.712		
7,100.00	6,853.41	6,842.41	6,853.41	37.89	237.15	98.44	807.72	-1,480.22	2,884.21	2,612.28	271.93	10.606		
7,200.00	6,940.36	6,929.36	6,940.36	38.34	240.18	90.09	807.72	-1,480.22	2,887.76	2,612.39	275.38	10.487		
7,300.00	7,019.83	7,008.83	7,019.83	38.74	242.96	85.93	807.72	-1,480.22	2,884.64	2,606.10	278.54	10.356		
7,400.00	7,089.85	7,078.85	7,089.85	39.10	245.40	84.25	807.72	-1,480.22	2,875.58	2,594.20	281.38	10.220		
7,500.00	7,148.71	7,137.71	7,148.71	39.42	247.45	84.13	807.72	-1,480.22	2,861.51	2,577.63	283.88	10.080		
7,600.00	7,194.95	7,183.95	7,194.95	39.71	249.07	85.03	807.72	-1,480.22	2,843.43	2,557.40	286.03	9.941		
7,700.00	7,227.43	7,216.43	7,227.43	40.01	250.20	86.58	807.72	-1,480.22	2,822.36	2,534.52	287.85	9.805		
7,800.00	7,245.37	7,234.37	7,245.37	40.37	250.83	88.52	807.72	-1,480.22	2,799.25	2,509.95	289.30	9.676		
7,900.00	7,248.84	7,237.84	7,248.84	40.87	250.95	90.08	807.72	-1,480.22	2,775.05	2,484.65	290.40	9.556		
8,000.00	7,248.24	7,237.24	7,248.24	41.62	250.93	90.07	807.72	-1,480.22	2,753.11	2,461.59	291.52	9.444		
8,100.00	7,247.65	7,236.65	7,247.65	42.66	250.91	90.06	807.72	-1,480.22	2,734.65	2,441.86	292.79	9.340		
8,200.00	7,247.05	7,236.05	7,247.05	43.96	250.89	90.05	807.72	-1,480.22	2,719.75	2,425.54	294.20	9.244		
8,300.00	7,246.46	7,235.46	7,246.46	45.46	250.87	90.03	807.72	-1,480.22	2,708.45	2,412.72	295.74	9.158		
8,400.00	7,245.86	7,234.86	7,245.86	47.13	250.85	90.02	807.72	-1,480.22	2,700.82	2,403.45	297.37	9.082		
8,500.00	7,245.27	7,234.27	7,245.27	48.93	250.82	90.01	807.72	-1,480.22	2,696.87	2,397.79	299.08	9.017		
8,556.53	7,244.93	7,233.93	7,244.93	50.00	250.81	90.00	807.72	-1,480.22	2,696.28	2,396.19	300.09	8.985		
8,600.00	7,244.67	7,233.67	7,244.67	50.84	250.80	89.99	807.72	-1,480.22	2,696.63	2,395.77	300.85	8.963		
8,700.00	7,244.07	7,233.07	7,244.07	52.85	250.78	89.98	807.72	-1,480.22	2,700.09	2,397.43	302.66	8.921		
8,800.00	7,243.48	7,232.48	7,243.48	54.94	250.76	89.97	807.72	-1,480.22	2,707.25	2,402.75	304.49	8.891		
8,900.00	7,242.88	7,231.88	7,242.88	57.10	250.74	89.96	807.72	-1,480.22	2,718.06	2,411.74	306.33	8.873		
9,000.00	7,242.29	7,231.29	7,242.29	59.32	250.72	89.94	807.72	-1,480.22	2,732.50	2,424.35	308.15	8.868 SF		
9,100.00	7,241.69	7,230.69	7,241.69	61.60	250.70	89.93	807.72	-1,480.22	2,750.50	2,440.56	309.94	8.874		
9,200.00	7,241.09	7,230.09	7,241.09	63.92	250.68	89.92	807.72	-1,480.22	2,771.99	2,460.30	311.70	8.893		
9,300.00	7,240.50	7,229.50	7,240.50	66.29	250.66	89.91	807.72	-1,480.22	2,796.90	2,483.50	313.40	8.924		
9,400.00	7,239.90	7,228.90	7,239.90	68.70	250.64	89.89	807.72	-1,480.22	2,825.12	2,510.08	315.05	8.967		
9,500.00	7,239.31	7,228.31	7,239.31	71.14	250.62	89.88	807.72	-1,480.22	2,856.57	2,539.94	316.63	9.022		
9,600.00	7,238.71	7,227.71	7,238.71	73.61	250.60	89.87	807.72	-1,480.22	2,891.14	2,573.00	318.14	9.088		
9,700.00	7,238.11	7,227.11	7,238.11	76.11	250.58	89.86	807.72	-1,480.22	2,928.72	2,609.13	319.58	9.164		
9,800.00	7,237.52	7,226.52	7,237.52	78.64	250.55	89.84	807.72	-1,480.22	2,969.19	2,648.24	320.95	9.251		
9,900.00	7,236.92	7,225.92	7,236.92	81.19	250.53	89.83	807.72	-1,480.22	3,012.43	2,690.19	322.24	9.348		
10,000.00	7,236.33	7,225.33	7,236.33	83.75	250.51	89.82	807.72	-1,480.22	3,058.34	2,734.89	323.45	9.455		
10,100.00	7,235.73	7,224.73	7,235.73	86.34	250.49	89.80	807.72	-1,480.22	3,106.79	2,782.20	324.59	9.571		
10,200.00	7,235.14	7,224.14	7,235.14	88.94	250.47	89.79	807.72	-1,480.22	3,157.66	2,832.00	325.65	9.696		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,234.54	7,223.54	7,234.54	91.56	250.45	89.78	807.72	-1,480.22	3,210.84	2,884.19	326.65	9.830		
10,400.00	7,233.94	7,222.94	7,233.94	94.19	250.43	89.77	807.72	-1,480.22	3,266.21	2,938.64	327.57	9.971		
10,500.00	7,233.35	7,222.35	7,233.35	96.84	250.41	89.75	807.72	-1,480.22	3,323.68	2,995.25	328.43	10.120		
10,600.00	7,232.75	7,221.75	7,232.75	99.50	250.39	89.74	807.72	-1,480.22	3,383.12	3,053.90	329.23	10.276		
10,700.00	7,232.16	7,221.16	7,232.16	102.17	250.37	89.73	807.72	-1,480.22	3,444.44	3,114.48	329.96	10.439		
10,800.00	7,231.56	7,220.56	7,231.56	104.85	250.35	89.72	807.72	-1,480.22	3,507.55	3,176.90	330.64	10.608		
10,900.00	7,230.96	7,219.96	7,230.96	107.53	250.33	89.70	807.72	-1,480.22	3,572.33	3,241.06	331.27	10.784		
11,000.00	7,230.37	7,219.37	7,230.37	110.23	250.30	89.69	807.72	-1,480.22	3,638.71	3,306.86	331.85	10.965		
11,100.00	7,229.77	7,218.77	7,229.77	112.93	250.28	89.68	807.72	-1,480.22	3,706.60	3,374.22	332.38	11.152		
11,200.00	7,229.18	7,218.18	7,229.18	115.65	250.26	89.67	807.72	-1,480.22	3,775.92	3,443.05	332.87	11.344		
11,300.00	7,228.58	7,217.58	7,228.58	118.37	250.24	89.65	807.72	-1,480.22	3,846.59	3,513.27	333.32	11.540		
11,400.00	7,227.99	7,216.99	7,227.99	121.09	250.22	89.64	807.72	-1,480.22	3,918.54	3,584.81	333.73	11.742		
11,500.00	7,227.39	7,216.39	7,227.39	123.82	250.20	89.63	807.72	-1,480.22	3,991.69	3,657.58	334.11	11.947		
11,600.00	7,226.79	7,215.79	7,226.79	126.56	250.18	89.61	807.72	-1,480.22	4,065.99	3,731.54	334.45	12.157		
11,700.00	7,226.20	7,215.20	7,226.20	129.30	250.16	89.60	807.72	-1,480.22	4,141.37	3,806.60	334.77	12.371		
11,800.00	7,225.60	7,214.60	7,225.60	132.05	250.14	89.59	807.72	-1,480.22	4,217.77	3,882.72	335.06	12.588		
11,900.00	7,225.01	7,214.01	7,225.01	134.80	250.12	89.58	807.72	-1,480.22	4,295.15	3,959.83	335.32	12.809		
12,000.00	7,224.41	7,213.41	7,224.41	137.56	250.10	89.56	807.72	-1,480.22	4,373.44	4,037.88	335.56	13.033		
12,100.00	7,223.81	7,212.81	7,223.81	140.32	250.08	89.55	807.72	-1,480.22	4,452.60	4,116.82	335.78	13.261		
12,200.00	7,223.22	7,212.22	7,223.22	143.08	250.06	89.54	807.72	-1,480.22	4,532.58	4,196.61	335.98	13.491		
12,300.00	7,222.62	7,211.62	7,222.62	145.85	250.03	89.53	807.72	-1,480.22	4,613.35	4,277.19	336.16	13.724		
12,400.00	7,222.03	7,211.03	7,222.03	148.62	250.01	89.51	807.72	-1,480.22	4,694.85	4,358.53	336.32	13.960		
12,500.00	7,221.43	7,210.43	7,221.43	151.40	249.99	89.50	807.72	-1,480.22	4,777.06	4,440.59	336.47	14.198		
12,600.00	7,220.83	7,209.83	7,220.83	154.18	249.97	89.49	807.72	-1,480.22	4,859.93	4,523.33	336.60	14.438		
12,700.00	7,220.24	7,209.24	7,220.24	156.96	249.95	89.48	807.72	-1,480.22	4,943.44	4,606.72	336.72	14.681		
12,800.00	7,219.64	7,208.64	7,219.64	159.74	249.93	89.46	807.72	-1,480.22	5,027.55	4,690.72	336.83	14.926		
12,900.00	7,219.05	7,208.05	7,219.05	162.53	249.91	89.45	807.72	-1,480.22	5,112.24	4,775.31	336.93	15.173		
13,000.00	7,218.45	7,207.45	7,218.45	165.32	249.89	89.44	807.72	-1,480.22	5,197.46	4,860.45	337.02	15.422		
13,100.00	7,217.86	7,206.86	7,217.86	168.11	249.87	89.42	807.72	-1,480.22	5,283.21	4,946.11	337.09	15.673		
13,200.00	7,217.26	7,206.26	7,217.26	170.90	249.85	89.41	807.72	-1,480.22	5,369.44	5,032.28	337.16	15.925		
13,300.00	7,216.66	7,205.66	7,216.66	173.70	249.83	89.40	807.72	-1,480.22	5,456.15	5,118.93	337.23	16.180		
13,400.00	7,216.07	7,205.07	7,216.07	176.49	249.81	89.39	807.72	-1,480.22	5,543.31	5,206.03	337.28	16.435		
13,500.00	7,215.47	7,204.47	7,215.47	179.29	249.78	89.37	807.72	-1,480.22	5,630.89	5,293.56	337.33	16.693		
13,600.00	7,214.88	7,203.88	7,214.88	182.09	249.76	89.36	807.72	-1,480.22	5,718.88	5,381.51	337.37	16.951		
13,700.00	7,214.28	7,203.28	7,214.28	184.90	249.74	89.35	807.72	-1,480.22	5,807.26	5,469.85	337.41	17.211		
13,800.00	7,213.68	7,202.68	7,213.68	187.70	249.72	89.34	807.72	-1,480.22	5,896.01	5,558.56	337.44	17.473		
13,900.00	7,213.09	7,202.09	7,213.09	190.51	249.70	89.32	807.72	-1,480.22	5,985.11	5,647.64	337.47	17.735		
14,000.00	7,212.49	7,201.49	7,212.49	193.32	249.68	89.31	807.72	-1,480.22	6,074.55	5,737.06	337.49	17.999		
14,100.00	7,211.90	7,200.90	7,211.90	196.13	249.66	89.30	807.72	-1,480.22	6,164.32	5,826.81	337.51	18.264		
14,200.00	7,211.30	7,200.30	7,211.30	198.94	249.64	89.29	807.72	-1,480.22	6,254.40	5,916.87	337.53	18.530		
14,300.00	7,210.71	7,200.30	7,210.71	201.75	249.64	89.27	807.72	-1,480.22	6,344.77	6,007.21	337.56	18.796		
14,400.00	7,210.11	7,200.89	7,210.11	204.56	249.66	89.26	807.72	-1,480.22	6,435.43	6,097.82	337.61	19.062		
14,500.00	7,209.51	7,201.49	7,209.51	207.38	249.68	89.25	807.72	-1,480.22	6,526.37	6,188.70	337.66	19.328		
14,600.00	7,208.92	7,202.08	7,208.92	210.19	249.70	89.23	807.72	-1,480.22	6,617.56	6,279.85	337.71	19.595		
14,700.00	7,208.32	7,202.68	7,208.32	213.01	249.72	89.22	807.72	-1,480.22	6,709.01	6,371.25	337.75	19.864		
14,800.00	7,207.73	7,203.27	7,207.73	215.83	249.74	89.21	807.72	-1,480.22	6,800.69	6,462.89	337.80	20.132		
14,900.00	7,207.13	7,203.87	7,207.13	218.65	249.76	89.20	807.72	-1,480.22	6,892.61	6,554.77	337.84	20.402		
15,000.00	7,206.53	7,204.47	7,206.53	221.47	249.78	89.18	807.72	-1,480.22	6,984.75	6,646.87	337.88	20.672		
15,100.00	7,205.94	7,205.06	7,205.94	224.29	249.81	89.17	807.72	-1,480.22	7,077.10	6,739.18	337.92	20.943		
15,200.00	7,205.34	7,205.66	7,205.34	227.11	249.83	89.16	807.72	-1,480.22	7,169.66	6,831.71	337.95	21.215		
15,258.04	7,205.00	7,206.00	7,205.00	228.75	249.84	89.15	807.72	-1,480.22	7,223.47	6,885.50	337.97	21.373		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	48.00	3.28	3.28	-75.22	1,315.66	-4,988.19	5,159.00				
100.00	100.00	52.00	100.00	3.28	3.40	-75.22	1,315.66	-4,988.19	5,158.78	5,152.09	6.69	771.349	
200.00	200.00	152.00	200.00	3.34	4.84	-75.22	1,315.66	-4,988.19	5,158.78	5,150.60	8.18	630.789	
300.00	299.98	251.98	299.98	3.44	7.78	100.03	1,315.66	-4,988.19	5,159.08	5,147.86	11.22	459.975	
400.00	399.84	351.84	399.84	3.59	11.04	100.07	1,315.66	-4,988.19	5,159.99	5,145.37	14.62	352.837	
500.00	499.45	451.45	499.45	3.79	14.39	100.14	1,315.66	-4,988.19	5,161.53	5,143.35	18.18	283.917	
600.00	598.70	550.70	598.70	4.03	17.78	100.23	1,315.66	-4,988.19	5,163.70	5,141.89	21.81	236.717	
700.00	697.47	649.47	697.47	4.31	21.18	100.34	1,315.66	-4,988.19	5,166.53	5,141.03	25.50	202.635	
800.00	795.62	747.62	795.62	4.64	24.57	100.48	1,315.66	-4,988.19	5,170.04	5,140.83	29.21	176.987	
900.00	893.06	845.06	893.06	5.00	27.95	100.63	1,315.66	-4,988.19	5,174.26	5,141.32	32.95	157.051	
1,000.00	989.65	941.65	989.65	5.40	31.30	100.81	1,315.66	-4,988.19	5,179.24	5,142.55	36.69	141.152	
1,100.00	1,085.85	1,037.85	1,085.85	5.82	34.64	101.10	1,315.66	-4,988.19	5,184.62	5,144.16	40.46	128.150	
1,200.00	1,182.06	1,134.06	1,182.06	6.27	37.99	101.38	1,315.66	-4,988.19	5,190.14	5,145.90	44.24	117.306	
1,300.00	1,278.26	1,230.26	1,278.26	6.73	41.33	101.67	1,315.66	-4,988.19	5,195.80	5,147.75	48.05	108.134	
1,400.00	1,374.47	1,326.47	1,374.47	7.20	44.68	101.95	1,315.66	-4,988.19	5,201.60	5,149.73	51.87	100.283	
1,500.00	1,470.67	1,422.67	1,470.67	7.69	48.03	102.24	1,315.66	-4,988.19	5,207.53	5,151.83	55.70	93.492	
1,600.00	1,566.88	1,518.88	1,566.88	8.18	51.38	102.52	1,315.66	-4,988.19	5,213.60	5,154.06	59.54	87.563	
1,700.00	1,663.08	1,615.08	1,663.08	8.68	54.74	102.80	1,315.66	-4,988.19	5,219.80	5,156.41	63.39	82.345	
1,800.00	1,759.29	1,711.29	1,759.29	9.19	58.09	103.08	1,315.66	-4,988.19	5,226.14	5,158.90	67.24	77.719	
1,900.00	1,855.49	1,807.49	1,855.49	9.70	61.44	103.36	1,315.66	-4,988.19	5,232.61	5,161.51	71.10	73.591	
2,000.00	1,951.70	1,903.70	1,951.70	10.22	64.80	103.64	1,315.66	-4,988.19	5,239.22	5,164.25	74.97	69.886	
2,100.00	2,047.90	2,000.10	2,047.90	10.73	68.16	103.92	1,315.66	-4,988.19	5,245.96	5,167.12	78.84	66.536	
2,200.00	2,144.11	2,103.89	2,144.11	11.26	71.78	104.20	1,315.66	-4,988.19	5,252.84	5,169.86	82.98	63.303	
2,300.00	2,240.31	2,207.69	2,240.31	11.78	75.40	104.48	1,315.66	-4,988.19	5,259.84	5,172.73	87.12	60.376	
2,400.00	2,336.52	2,288.52	2,336.52	12.31	78.22	104.75	1,315.66	-4,988.19	5,266.98	5,176.52	90.46	58.225	
2,500.00	2,432.72	2,384.72	2,432.72	12.84	81.57	105.03	1,315.66	-4,988.19	5,274.25	5,179.92	94.34	55.908	
2,600.00	2,528.93	2,480.93	2,528.93	13.37	84.93	105.31	1,315.66	-4,988.19	5,281.66	5,183.44	98.22	53.775	
2,700.00	2,625.13	2,577.13	2,625.13	13.91	88.28	105.58	1,315.66	-4,988.19	5,289.19	5,187.09	102.10	51.804	
2,800.00	2,721.34	2,673.34	2,721.34	14.44	91.64	105.86	1,315.66	-4,988.19	5,296.85	5,190.87	105.98	49.979	
2,900.00	2,817.54	2,769.54	2,817.54	14.98	95.00	106.13	1,315.66	-4,988.19	5,304.64	5,194.77	109.87	48.283	
3,000.00	2,913.75	2,865.75	2,913.75	15.52	98.35	106.40	1,315.66	-4,988.19	5,312.56	5,198.81	113.75	46.703	
3,100.00	3,009.95	2,961.95	3,009.95	16.06	101.71	106.68	1,315.66	-4,988.19	5,320.61	5,202.97	117.64	45.229	
3,200.00	3,106.16	3,058.16	3,106.16	16.60	105.07	106.95	1,315.66	-4,988.19	5,328.78	5,207.26	121.52	43.850	
3,300.00	3,202.37	3,154.37	3,202.37	17.14	108.42	107.22	1,315.66	-4,988.19	5,337.09	5,211.68	125.41	42.557	
3,400.00	3,298.57	3,250.57	3,298.57	17.68	111.78	107.49	1,315.66	-4,988.19	5,345.52	5,216.22	129.30	41.343	
3,500.00	3,394.78	3,346.78	3,394.78	18.22	115.14	107.76	1,315.66	-4,988.19	5,354.07	5,220.89	133.18	40.200	
3,600.00	3,490.98	3,442.98	3,490.98	18.76	118.49	108.02	1,315.66	-4,988.19	5,362.75	5,225.68	137.07	39.123	
3,700.00	3,587.19	3,539.19	3,587.19	19.31	121.85	108.29	1,315.66	-4,988.19	5,371.55	5,230.59	140.96	38.107	
3,800.00	3,683.39	3,635.39	3,683.39	19.85	125.21	108.56	1,315.66	-4,988.19	5,380.48	5,235.63	144.85	37.145	
3,900.00	3,779.60	3,731.60	3,779.60	20.39	128.57	108.82	1,315.66	-4,988.19	5,389.53	5,240.80	148.74	36.235	
4,000.00	3,875.80	3,827.80	3,875.80	20.94	131.92	109.09	1,315.66	-4,988.19	5,398.71	5,246.08	152.63	35.372	
4,100.00	3,972.01	3,924.01	3,972.01	21.48	135.28	109.35	1,315.66	-4,988.19	5,408.01	5,251.49	156.51	34.553	
4,200.00	4,068.21	4,020.21	4,068.21	22.03	138.64	109.62	1,315.66	-4,988.19	5,417.42	5,257.02	160.40	33.774	
4,300.00	4,164.42	4,116.42	4,164.42	22.57	142.00	109.88	1,315.66	-4,988.19	5,426.96	5,262.67	164.29	33.033	
4,400.00	4,260.62	4,212.62	4,260.62	23.12	145.35	110.14	1,315.66	-4,988.19	5,436.62	5,268.44	168.18	32.326	
4,500.00	4,356.83	4,308.83	4,356.83	23.67	148.71	110.40	1,315.66	-4,988.19	5,446.40	5,274.33	172.07	31.653	
4,600.00	4,453.03	4,405.03	4,453.03	24.21	152.07	110.66	1,315.66	-4,988.19	5,456.30	5,280.34	175.96	31.010	
4,700.00	4,549.24	4,501.24	4,549.24	24.76	155.43	110.92	1,315.66	-4,988.19	5,466.31	5,286.47	179.84	30.395	
4,800.00	4,645.44	4,602.56	4,645.44	25.31	158.96	111.18	1,315.66	-4,988.19	5,476.45	5,292.54	183.91	29.778	
4,900.00	4,741.65	4,706.35	4,741.65	25.86	162.59	111.43	1,315.66	-4,988.19	5,486.70	5,298.64	188.06	29.175	
5,000.00	4,837.85	4,789.85	4,837.85	26.40	165.50	111.69	1,315.66	-4,988.19	5,497.07	5,305.56	191.51	28.704	
5,100.00	4,934.06	4,886.06	4,934.06	26.95	168.86	111.94	1,315.66	-4,988.19	5,507.55	5,312.16	195.39	28.187	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,982.26	5,030.26	27.50	172.22	112.20	1,315.66	-4,988.19	5,518.15	5,318.87	199.28	27.691		
5,300.00	5,126.47	5,078.47	5,126.47	28.05	175.57	112.45	1,315.66	-4,988.19	5,528.86	5,325.69	203.17	27.214		
5,400.00	5,222.67	5,174.67	5,222.67	28.60	178.93	112.70	1,315.66	-4,988.19	5,539.68	5,332.63	207.05	26.755		
5,500.00	5,318.88	5,270.88	5,318.88	29.15	182.29	112.96	1,315.66	-4,988.19	5,550.62	5,339.69	210.94	26.314		
5,600.00	5,415.08	5,367.08	5,415.08	29.70	185.65	113.21	1,315.66	-4,988.19	5,561.67	5,346.85	214.82	25.890		
5,700.00	5,511.29	5,463.29	5,511.29	30.25	189.01	113.46	1,315.66	-4,988.19	5,572.84	5,354.13	218.71	25.481		
5,800.00	5,607.49	5,559.49	5,607.49	30.79	192.36	113.70	1,315.66	-4,988.19	5,584.11	5,361.52	222.59	25.087		
5,900.00	5,703.70	5,655.70	5,703.70	31.34	195.72	113.95	1,315.66	-4,988.19	5,595.50	5,369.02	226.48	24.707		
6,000.00	5,799.90	5,751.90	5,799.90	31.89	199.08	114.20	1,315.66	-4,988.19	5,606.99	5,376.63	230.36	24.340		
6,100.00	5,896.11	5,848.11	5,896.11	32.44	202.44	114.45	1,315.66	-4,988.19	5,618.59	5,384.35	234.25	23.986		
6,200.00	5,992.32	5,944.32	5,992.32	32.99	205.80	114.69	1,315.66	-4,988.19	5,630.30	5,392.17	238.13	23.644		
6,300.00	6,088.52	6,040.52	6,088.52	33.54	209.16	114.93	1,315.66	-4,988.19	5,642.12	5,400.11	242.01	23.313		
6,400.00	6,184.73	6,136.73	6,184.73	34.09	212.51	115.18	1,315.66	-4,988.19	5,654.05	5,408.15	245.89	22.994		
6,500.00	6,280.93	6,232.93	6,280.93	34.64	215.87	115.42	1,315.66	-4,988.19	5,666.08	5,416.30	249.78	22.685		
6,600.00	6,377.14	6,329.14	6,377.14	35.19	219.23	115.66	1,315.66	-4,988.19	5,678.22	5,424.56	253.66	22.385		
6,700.00	6,473.34	6,425.34	6,473.34	35.74	222.59	115.90	1,315.66	-4,988.19	5,690.46	5,432.92	257.54	22.095		
6,800.00	6,569.55	6,521.55	6,569.55	36.29	225.95	116.14	1,315.66	-4,988.19	5,702.81	5,441.39	261.42	21.815		
6,900.00	6,665.75	6,617.75	6,665.75	36.84	229.30	111.65	1,315.66	-4,988.19	5,715.11	5,449.81	265.30	21.542		
7,000.00	6,761.11	6,713.11	6,761.11	37.39	232.63	85.60	1,315.66	-4,988.19	5,719.01	5,449.85	269.15	21.248		
7,100.00	6,853.41	6,805.41	6,853.41	37.89	235.85	70.74	1,315.66	-4,988.19	5,709.72	5,436.85	272.87	20.924		
7,200.00	6,940.36	6,907.64	6,940.36	38.34	239.42	63.34	1,315.66	-4,988.19	5,687.63	5,410.72	276.91	20.540		
7,300.00	7,019.83	6,971.83	7,019.83	38.74	241.66	60.31	1,315.66	-4,988.19	5,653.41	5,373.83	279.58	20.221		
7,400.00	7,089.85	7,041.85	7,089.85	39.10	244.11	60.21	1,315.66	-4,988.19	5,608.06	5,325.62	282.44	19.856		
7,500.00	7,148.71	7,100.71	7,148.71	39.42	246.16	62.46	1,315.66	-4,988.19	5,552.82	5,267.90	284.92	19.489		
7,600.00	7,194.95	7,146.95	7,194.95	39.71	247.78	66.92	1,315.66	-4,988.19	5,489.16	5,202.17	286.99	19.127		
7,700.00	7,227.43	7,179.43	7,227.43	40.01	248.91	73.64	1,315.66	-4,988.19	5,418.71	5,130.09	288.62	18.774		
7,800.00	7,245.37	7,202.63	7,245.37	40.37	249.72	82.60	1,315.66	-4,988.19	5,343.23	5,053.24	289.98	18.426		
7,900.00	7,248.84	7,200.84	7,248.84	40.87	249.66	90.44	1,315.66	-4,988.19	5,264.63	4,974.11	290.53	18.121		
8,000.00	7,248.24	7,200.24	7,248.24	41.62	249.64	90.43	1,315.66	-4,988.19	5,185.95	4,894.76	291.19	17.809		
8,100.00	7,247.65	7,200.35	7,247.65	42.66	249.64	90.42	1,315.66	-4,988.19	5,108.02	4,816.04	291.98	17.495		
8,200.00	7,247.05	7,200.95	7,247.05	43.96	249.66	90.41	1,315.66	-4,988.19	5,030.86	4,737.98	292.88	17.177		
8,300.00	7,246.46	7,201.54	7,246.46	45.46	249.68	90.40	1,315.66	-4,988.19	4,954.52	4,660.64	293.88	16.859		
8,400.00	7,245.86	7,202.14	7,245.86	47.13	249.70	90.39	1,315.66	-4,988.19	4,879.03	4,584.06	294.98	16.540		
8,500.00	7,245.27	7,202.74	7,245.27	48.93	249.72	90.38	1,315.66	-4,988.19	4,804.45	4,508.26	296.18	16.221		
8,600.00	7,244.67	7,203.33	7,244.67	50.84	249.74	90.37	1,315.66	-4,988.19	4,730.79	4,433.30	297.49	15.902		
8,700.00	7,244.07	7,203.93	7,244.07	52.85	249.77	90.36	1,315.66	-4,988.19	4,658.13	4,359.21	298.91	15.584		
8,800.00	7,243.48	7,204.52	7,243.48	54.94	249.79	90.35	1,315.66	-4,988.19	4,586.49	4,286.05	300.44	15.266		
8,900.00	7,242.88	7,205.12	7,242.88	57.10	249.81	90.33	1,315.66	-4,988.19	4,515.92	4,213.86	302.07	14.950		
9,000.00	7,242.29	7,205.71	7,242.29	59.32	249.83	90.32	1,315.66	-4,988.19	4,446.49	4,142.69	303.81	14.636		
9,100.00	7,241.69	7,206.31	7,241.69	61.60	249.85	90.31	1,315.66	-4,988.19	4,378.24	4,072.59	305.65	14.324		
9,200.00	7,241.09	7,206.91	7,241.09	63.92	249.87	90.30	1,315.66	-4,988.19	4,311.23	4,003.63	307.60	14.016		
9,300.00	7,240.50	7,207.50	7,240.50	66.29	249.89	90.29	1,315.66	-4,988.19	4,245.52	3,935.86	309.66	13.710		
9,400.00	7,239.90	7,208.10	7,239.90	68.70	249.91	90.28	1,315.66	-4,988.19	4,181.16	3,869.35	311.82	13.409		
9,500.00	7,239.31	7,208.69	7,239.31	71.14	249.93	90.27	1,315.66	-4,988.19	4,118.23	3,804.16	314.08	13.112		
9,600.00	7,238.71	7,209.29	7,238.71	73.61	249.95	90.26	1,315.66	-4,988.19	4,056.79	3,740.35	316.44	12.820		
9,700.00	7,238.11	7,209.89	7,238.11	76.11	249.97	90.25	1,315.66	-4,988.19	3,996.91	3,678.01	318.89	12.534		
9,800.00	7,237.52	7,189.52	7,237.52	78.64	249.26	90.24	1,315.66	-4,988.19	3,938.65	3,617.94	320.71	12.281		
9,900.00	7,236.92	7,188.92	7,236.92	81.19	249.24	90.23	1,315.66	-4,988.19	3,882.10	3,558.79	323.31	12.007		
10,000.00	7,236.33	7,188.33	7,236.33	83.75	249.22	90.22	1,315.66	-4,988.19	3,827.32	3,501.32	326.00	11.740		
10,100.00	7,235.73	7,187.73	7,235.73	86.34	249.20	90.21	1,315.66	-4,988.19	3,774.40	3,445.63	328.76	11.481		
10,200.00	7,235.14	7,187.14	7,235.14	88.94	249.18	90.20	1,315.66	-4,988.19	3,723.41	3,391.80	331.61	11.228		
10,300.00	7,234.54	7,186.54	7,234.54	91.56	249.16	90.19	1,315.66	-4,988.19	3,674.44	3,339.91	334.53	10.984		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,185.94	7,233.94	94.19	249.14	90.18	1,315.66	-4,988.19	3,627.56	3,290.06	337.51	10.748		
10,500.00	7,233.35	7,185.35	7,233.35	96.84	249.12	90.17	1,315.66	-4,988.19	3,582.86	3,242.32	340.54	10.521		
10,600.00	7,232.75	7,184.75	7,232.75	99.50	249.10	90.15	1,315.66	-4,988.19	3,540.42	3,196.79	343.63	10.303		
10,700.00	7,232.16	7,184.16	7,232.16	102.17	249.08	90.14	1,315.66	-4,988.19	3,500.33	3,153.57	346.76	10.094		
10,800.00	7,231.56	7,183.56	7,231.56	104.85	249.05	90.13	1,315.66	-4,988.19	3,462.66	3,112.74	349.92	9.896		
10,900.00	7,230.96	7,182.96	7,230.96	107.53	249.03	90.12	1,315.66	-4,988.19	3,427.49	3,074.39	353.10	9.707		
11,000.00	7,230.37	7,182.37	7,230.37	110.23	249.01	90.11	1,315.66	-4,988.19	3,394.91	3,038.61	356.30	9.528		
11,100.00	7,229.77	7,181.77	7,229.77	112.93	248.99	90.10	1,315.66	-4,988.19	3,364.98	3,005.49	359.49	9.360		
11,200.00	7,229.18	7,181.18	7,229.18	115.65	248.97	90.09	1,315.66	-4,988.19	3,337.79	2,975.11	362.68	9.203		
11,300.00	7,228.58	7,180.58	7,228.58	118.37	248.95	90.08	1,315.66	-4,988.19	3,313.38	2,947.55	365.84	9.057		
11,400.00	7,227.99	7,179.99	7,227.99	121.09	248.93	90.07	1,315.66	-4,988.19	3,291.84	2,922.88	368.96	8.922		
11,500.00	7,227.39	7,179.39	7,227.39	123.82	248.91	90.06	1,315.66	-4,988.19	3,273.21	2,901.17	372.04	8.798		
11,600.00	7,226.79	7,178.79	7,226.79	126.56	248.89	90.05	1,315.66	-4,988.19	3,257.54	2,882.49	375.05	8.686		
11,700.00	7,226.20	7,178.20	7,226.20	129.30	248.87	90.04	1,315.66	-4,988.19	3,244.89	2,866.89	378.00	8.584		
11,800.00	7,225.60	7,177.60	7,225.60	132.05	248.85	90.03	1,315.66	-4,988.19	3,235.27	2,854.41	380.86	8.495		
11,900.00	7,225.01	7,177.01	7,225.01	134.80	248.83	90.02	1,315.66	-4,988.19	3,228.73	2,845.10	383.63	8.416		
12,000.00	7,224.41	7,176.41	7,224.41	137.56	248.81	90.01	1,315.66	-4,988.19	3,225.27	2,838.98	386.29	8.349		
12,061.54	7,224.04	7,176.04	7,224.04	139.26	248.79	90.00	1,315.66	-4,988.19	3,224.68	2,836.81	387.87	8.314 CC		
12,100.00	7,223.81	7,175.81	7,223.81	140.32	248.78	90.00	1,315.66	-4,988.19	3,224.91	2,836.08	388.84	8.294 ES		
12,200.00	7,223.22	7,175.22	7,223.22	143.08	248.76	89.99	1,315.66	-4,988.19	3,227.66	2,836.39	391.26	8.249		
12,300.00	7,222.62	7,174.62	7,222.62	145.85	248.74	89.97	1,315.66	-4,988.19	3,233.49	2,839.93	393.56	8.216		
12,400.00	7,222.03	7,174.03	7,222.03	148.62	248.72	89.96	1,315.66	-4,988.19	3,242.40	2,846.67	395.72	8.194		
12,500.00	7,221.43	7,173.43	7,221.43	151.40	248.70	89.95	1,315.66	-4,988.19	3,254.36	2,856.61	397.75	8.182		
12,600.00	7,220.83	7,172.83	7,220.83	154.18	248.68	89.94	1,315.66	-4,988.19	3,269.33	2,869.70	399.63	8.181 SF		
12,700.00	7,220.24	7,172.24	7,220.24	156.96	248.66	89.93	1,315.66	-4,988.19	3,287.28	2,885.91	401.36	8.190		
12,800.00	7,219.64	7,171.64	7,219.64	159.74	248.64	89.92	1,315.66	-4,988.19	3,308.16	2,905.20	402.96	8.210		
12,900.00	7,219.05	7,171.05	7,219.05	162.53	248.62	89.91	1,315.66	-4,988.19	3,331.90	2,927.50	404.40	8.239		
13,000.00	7,218.45	7,170.45	7,218.45	165.32	248.60	89.90	1,315.66	-4,988.19	3,358.46	2,952.76	405.71	8.278		
13,100.00	7,217.86	7,169.86	7,217.86	168.11	248.58	89.89	1,315.66	-4,988.19	3,387.76	2,980.89	406.87	8.326		
13,200.00	7,217.26	7,169.26	7,217.26	170.90	248.56	89.88	1,315.66	-4,988.19	3,419.74	3,011.84	407.90	8.384		
13,300.00	7,216.66	7,168.66	7,216.66	173.70	248.53	89.87	1,315.66	-4,988.19	3,454.32	3,045.53	408.79	8.450		
13,400.00	7,216.07	7,168.07	7,216.07	176.49	248.51	89.86	1,315.66	-4,988.19	3,491.42	3,081.86	409.56	8.525		
13,500.00	7,215.47	7,167.47	7,215.47	179.29	248.49	89.85	1,315.66	-4,988.19	3,530.96	3,120.75	410.21	8.608		
13,600.00	7,214.88	7,166.88	7,214.88	182.09	248.47	89.84	1,315.66	-4,988.19	3,572.87	3,162.12	410.74	8.699		
13,700.00	7,214.28	7,166.28	7,214.28	184.90	248.45	89.83	1,315.66	-4,988.19	3,617.05	3,205.88	411.17	8.797		
13,800.00	7,213.68	7,165.68	7,213.68	187.70	248.43	89.82	1,315.66	-4,988.19	3,663.43	3,251.94	411.49	8.903		
13,900.00	7,213.09	7,165.09	7,213.09	190.51	248.41	89.81	1,315.66	-4,988.19	3,711.93	3,300.21	411.72	9.016		
14,000.00	7,212.49	7,164.49	7,212.49	193.32	248.39	89.79	1,315.66	-4,988.19	3,762.46	3,350.60	411.86	9.135		
14,100.00	7,211.90	7,163.90	7,211.90	196.13	248.37	89.78	1,315.66	-4,988.19	3,814.94	3,403.03	411.91	9.262		
14,200.00	7,211.30	7,163.30	7,211.30	198.94	248.35	89.77	1,315.66	-4,988.19	3,869.29	3,457.40	411.89	9.394		
14,300.00	7,210.71	7,162.71	7,210.71	201.75	248.33	89.76	1,315.66	-4,988.19	3,925.45	3,513.64	411.80	9.532		
14,400.00	7,210.11	7,162.11	7,210.11	204.56	248.31	89.75	1,315.66	-4,988.19	3,983.31	3,571.66	411.65	9.676		
14,500.00	7,209.51	7,161.51	7,209.51	207.38	248.29	89.74	1,315.66	-4,988.19	4,042.83	3,631.39	411.44	9.826		
14,600.00	7,208.92	7,160.92	7,208.92	210.19	248.26	89.73	1,315.66	-4,988.19	4,103.92	3,692.74	411.18	9.981		
14,700.00	7,208.32	7,160.32	7,208.32	213.01	248.24	89.72	1,315.66	-4,988.19	4,166.51	3,755.64	410.87	10.141		
14,800.00	7,207.73	7,159.73	7,207.73	215.83	248.22	89.71	1,315.66	-4,988.19	4,230.54	3,820.03	410.52	10.305		
14,900.00	7,207.13	7,159.13	7,207.13	218.65	248.20	89.70	1,315.66	-4,988.19	4,295.95	3,885.82	410.13	10.475		
15,000.00	7,206.53	7,158.53	7,206.53	221.47	248.18	89.69	1,315.66	-4,988.19	4,362.66	3,952.96	409.70	10.648		
15,100.00	7,205.94	7,157.94	7,205.94	224.29	248.16	89.68	1,315.66	-4,988.19	4,430.63	4,021.38	409.25	10.826		
15,200.00	7,205.34	7,157.34	7,205.34	227.11	248.14	89.67	1,315.66	-4,988.19	4,499.80	4,091.03	408.77	11.008		
15,258.04	7,205.00	7,157.00	7,205.00	228.75	248.13	89.66	1,315.66	-4,988.19	4,540.47	4,131.99	408.48	11.115		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	46.00	3.28	3.28	-75.37	1,336.45	-5,118.07	5,289.88				
100.00	100.00	54.00	100.00	3.28	3.41	-75.37	1,336.45	-5,118.07	5,289.68	5,282.98	6.70	789.802	
200.00	200.00	154.00	200.00	3.34	4.89	-75.37	1,336.45	-5,118.07	5,289.68	5,281.45	8.23	642.741	
300.00	299.98	253.98	299.98	3.44	7.84	99.89	1,336.45	-5,118.07	5,289.98	5,278.70	11.28	468.996	
400.00	399.84	353.84	399.84	3.59	11.10	99.93	1,336.45	-5,118.07	5,290.88	5,276.19	14.69	360.145	
500.00	499.45	453.45	499.45	3.79	14.46	99.99	1,336.45	-5,118.07	5,292.39	5,274.15	18.25	290.030	
600.00	598.70	552.70	598.70	4.03	17.85	100.08	1,336.45	-5,118.07	5,294.53	5,272.65	21.88	241.953	
700.00	697.47	651.47	697.47	4.31	21.25	100.19	1,336.45	-5,118.07	5,297.32	5,271.75	25.57	207.204	
800.00	795.62	749.62	795.62	4.64	24.64	100.32	1,336.45	-5,118.07	5,300.78	5,271.50	29.28	181.034	
900.00	893.06	847.06	893.06	5.00	28.02	100.47	1,336.45	-5,118.07	5,304.94	5,271.93	33.02	160.680	
1,000.00	989.65	943.65	989.65	5.40	31.37	100.65	1,336.45	-5,118.07	5,309.84	5,273.08	36.76	144.438	
1,100.00	1,085.85	1,039.85	1,085.85	5.82	34.71	100.93	1,336.45	-5,118.07	5,315.15	5,274.62	40.53	131.151	
1,200.00	1,182.06	1,136.06	1,182.06	6.27	38.06	101.21	1,336.45	-5,118.07	5,320.58	5,276.27	44.31	120.064	
1,300.00	1,278.26	1,232.26	1,278.26	6.73	41.40	101.48	1,336.45	-5,118.07	5,326.16	5,278.04	48.12	110.685	
1,400.00	1,374.47	1,328.47	1,374.47	7.20	44.75	101.76	1,336.45	-5,118.07	5,331.86	5,279.92	51.94	102.655	
1,500.00	1,470.67	1,424.67	1,470.67	7.69	48.10	102.04	1,336.45	-5,118.07	5,337.70	5,281.93	55.77	95.708	
1,600.00	1,566.88	1,520.88	1,566.88	8.18	51.45	102.31	1,336.45	-5,118.07	5,343.67	5,284.06	59.61	89.642	
1,700.00	1,663.08	1,617.08	1,663.08	8.68	54.81	102.59	1,336.45	-5,118.07	5,349.77	5,286.31	63.46	84.302	
1,800.00	1,759.29	1,713.29	1,759.29	9.19	58.16	102.86	1,336.45	-5,118.07	5,356.01	5,288.69	67.31	79.567	
1,900.00	1,855.49	1,809.49	1,855.49	9.70	61.51	103.14	1,336.45	-5,118.07	5,362.38	5,291.20	71.17	75.341	
2,000.00	1,951.70	1,905.70	1,951.70	10.22	64.87	103.41	1,336.45	-5,118.07	5,368.88	5,293.84	75.04	71.547	
2,100.00	2,047.90	2,001.90	2,047.90	10.73	68.22	103.68	1,336.45	-5,118.07	5,375.50	5,296.60	78.91	68.124	
2,200.00	2,144.11	2,101.89	2,144.11	11.26	71.71	103.96	1,336.45	-5,118.07	5,382.26	5,299.35	82.91	64.915	
2,300.00	2,240.31	2,205.69	2,240.31	11.78	75.33	104.23	1,336.45	-5,118.07	5,389.15	5,302.10	87.05	61.908	
2,400.00	2,336.52	2,309.48	2,336.52	12.31	78.95	104.50	1,336.45	-5,118.07	5,396.17	5,304.98	91.19	59.173	
2,500.00	2,432.72	2,386.72	2,432.72	12.84	81.64	104.77	1,336.45	-5,118.07	5,403.32	5,308.91	94.41	57.232	
2,600.00	2,528.93	2,482.93	2,528.93	13.37	85.00	105.04	1,336.45	-5,118.07	5,410.59	5,312.30	98.29	55.047	
2,700.00	2,625.13	2,579.13	2,625.13	13.91	88.35	105.31	1,336.45	-5,118.07	5,418.00	5,315.82	102.17	53.028	
2,800.00	2,721.34	2,675.34	2,721.34	14.44	91.71	105.57	1,336.45	-5,118.07	5,425.53	5,319.47	106.06	51.157	
2,900.00	2,817.54	2,771.54	2,817.54	14.98	95.07	105.84	1,336.45	-5,118.07	5,433.18	5,323.24	109.94	49.420	
3,000.00	2,913.75	2,867.75	2,913.75	15.52	98.42	106.11	1,336.45	-5,118.07	5,440.97	5,327.14	113.83	47.801	
3,100.00	3,009.95	2,963.95	3,009.95	16.06	101.78	106.37	1,336.45	-5,118.07	5,448.87	5,331.16	117.71	46.290	
3,200.00	3,106.16	3,060.16	3,106.16	16.60	105.14	106.64	1,336.45	-5,118.07	5,456.91	5,335.31	121.60	44.877	
3,300.00	3,202.37	3,156.37	3,202.37	17.14	108.49	106.90	1,336.45	-5,118.07	5,465.06	5,339.58	125.48	43.552	
3,400.00	3,298.57	3,252.57	3,298.57	17.68	111.85	107.17	1,336.45	-5,118.07	5,473.35	5,343.97	129.37	42.307	
3,500.00	3,394.78	3,348.78	3,394.78	18.22	115.21	107.43	1,336.45	-5,118.07	5,481.75	5,348.49	133.26	41.136	
3,600.00	3,490.98	3,444.98	3,490.98	18.76	118.56	107.69	1,336.45	-5,118.07	5,490.28	5,353.13	137.15	40.031	
3,700.00	3,587.19	3,541.19	3,587.19	19.31	121.92	107.96	1,336.45	-5,118.07	5,498.93	5,357.89	141.04	38.989	
3,800.00	3,683.39	3,637.39	3,683.39	19.85	125.28	108.22	1,336.45	-5,118.07	5,507.70	5,362.77	144.93	38.003	
3,900.00	3,779.60	3,733.60	3,779.60	20.39	128.64	108.48	1,336.45	-5,118.07	5,516.59	5,367.78	148.82	37.070	
4,000.00	3,875.80	3,829.80	3,875.80	20.94	131.99	108.74	1,336.45	-5,118.07	5,525.60	5,372.90	152.70	36.185	
4,100.00	3,972.01	3,926.01	3,972.01	21.48	135.35	108.99	1,336.45	-5,118.07	5,534.74	5,378.14	156.59	35.345	
4,200.00	4,068.21	4,022.21	4,068.21	22.03	138.71	109.25	1,336.45	-5,118.07	5,543.99	5,383.51	160.48	34.546	
4,300.00	4,164.42	4,118.42	4,164.42	22.57	142.07	109.51	1,336.45	-5,118.07	5,553.36	5,388.99	164.37	33.786	
4,400.00	4,260.62	4,214.62	4,260.62	23.12	145.42	109.76	1,336.45	-5,118.07	5,562.85	5,394.59	168.26	33.061	
4,500.00	4,356.83	4,310.83	4,356.83	23.67	148.78	110.02	1,336.45	-5,118.07	5,572.45	5,400.31	172.15	32.370	
4,600.00	4,453.03	4,407.03	4,453.03	24.21	152.14	110.27	1,336.45	-5,118.07	5,582.18	5,406.14	176.04	31.710	
4,700.00	4,549.24	4,503.24	4,549.24	24.76	155.50	110.53	1,336.45	-5,118.07	5,592.02	5,412.09	179.93	31.080	
4,800.00	4,645.44	4,600.56	4,645.44	25.31	158.89	110.78	1,336.45	-5,118.07	5,601.97	5,418.12	183.85	30.470	
4,900.00	4,741.65	4,704.35	4,741.65	25.86	162.52	111.03	1,336.45	-5,118.07	5,612.04	5,424.03	188.01	29.850	
5,000.00	4,837.85	4,808.15	4,837.85	26.40	166.14	111.28	1,336.45	-5,118.07	5,622.22	5,430.07	192.16	29.258	
5,100.00	4,934.06	4,888.06	4,934.06	26.95	169.93	111.53	1,336.45	-5,118.07	5,632.52	5,437.04	195.48	28.814	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,984.26	5,030.26	27.50	172.29	111.78	1,336.45	-5,118.07	5,642.93	5,443.57	199.36	28.305		
5,300.00	5,126.47	5,080.47	5,126.47	28.05	175.64	112.03	1,336.45	-5,118.07	5,653.46	5,450.21	203.25	27.815		
5,400.00	5,222.67	5,176.67	5,222.67	28.60	179.00	112.28	1,336.45	-5,118.07	5,664.09	5,456.95	207.14	27.344		
5,500.00	5,318.88	5,272.88	5,318.88	29.15	182.36	112.53	1,336.45	-5,118.07	5,674.84	5,463.81	211.03	26.892		
5,600.00	5,415.08	5,369.08	5,415.08	29.70	185.72	112.77	1,336.45	-5,118.07	5,685.70	5,470.79	214.91	26.456		
5,700.00	5,511.29	5,465.29	5,511.29	30.25	189.08	113.02	1,336.45	-5,118.07	5,696.66	5,477.87	218.80	26.036		
5,800.00	5,607.49	5,561.49	5,607.49	30.79	192.43	113.26	1,336.45	-5,118.07	5,707.74	5,485.06	222.68	25.632		
5,900.00	5,703.70	5,657.70	5,703.70	31.34	195.79	113.50	1,336.45	-5,118.07	5,718.93	5,492.36	226.57	25.241		
6,000.00	5,799.90	5,753.90	5,799.90	31.89	199.15	113.75	1,336.45	-5,118.07	5,730.22	5,499.77	230.45	24.865		
6,100.00	5,896.11	5,850.11	5,896.11	32.44	202.51	113.99	1,336.45	-5,118.07	5,741.62	5,507.28	234.34	24.501		
6,200.00	5,992.32	5,946.32	5,992.32	32.99	205.87	114.23	1,336.45	-5,118.07	5,753.13	5,514.91	238.22	24.150		
6,300.00	6,088.52	6,042.52	6,088.52	33.54	209.23	114.47	1,336.45	-5,118.07	5,764.74	5,522.64	242.11	23.811		
6,400.00	6,184.73	6,138.73	6,184.73	34.09	212.58	114.71	1,336.45	-5,118.07	5,776.46	5,530.47	245.99	23.483		
6,500.00	6,280.93	6,234.93	6,280.93	34.64	215.94	114.94	1,336.45	-5,118.07	5,788.29	5,538.42	249.87	23.165		
6,600.00	6,377.14	6,331.14	6,377.14	35.19	219.30	115.18	1,336.45	-5,118.07	5,800.22	5,546.46	253.76	22.857		
6,700.00	6,473.34	6,427.34	6,473.34	35.74	222.66	115.42	1,336.45	-5,118.07	5,812.25	5,554.61	257.64	22.560		
6,800.00	6,569.55	6,523.55	6,569.55	36.29	226.02	115.65	1,336.45	-5,118.07	5,824.39	5,562.87	261.52	22.271		
6,900.00	6,665.75	6,619.75	6,665.75	36.84	229.37	111.16	1,336.45	-5,118.07	5,836.48	5,571.07	265.40	21.991		
7,000.00	6,761.11	6,715.11	6,761.11	37.39	232.70	85.12	1,336.45	-5,118.07	5,840.11	5,570.86	269.25	21.690		
7,100.00	6,853.41	6,807.41	6,853.41	37.89	235.92	70.26	1,336.45	-5,118.07	5,830.49	5,557.52	272.98	21.359		
7,200.00	6,940.36	6,905.64	6,940.36	38.34	239.35	62.86	1,336.45	-5,118.07	5,808.00	5,531.13	276.87	20.978		
7,300.00	7,019.83	6,973.83	7,019.83	38.74	241.73	59.83	1,336.45	-5,118.07	5,773.31	5,493.63	279.68	20.643		
7,400.00	7,089.85	7,043.85	7,089.85	39.10	244.18	59.72	1,336.45	-5,118.07	5,727.44	5,444.89	282.54	20.271		
7,500.00	7,148.71	7,102.71	7,148.71	39.42	246.23	61.98	1,336.45	-5,118.07	5,671.62	5,386.60	285.02	19.899		
7,600.00	7,194.95	7,148.95	7,194.95	39.71	247.85	66.49	1,336.45	-5,118.07	5,607.33	5,320.25	287.08	19.532		
7,700.00	7,227.43	7,181.43	7,227.43	40.01	248.98	73.30	1,336.45	-5,118.07	5,536.22	5,247.51	288.71	19.176		
7,800.00	7,245.37	7,200.63	7,245.37	40.37	249.65	82.43	1,336.45	-5,118.07	5,460.05	5,170.12	289.93	18.832		
7,900.00	7,248.84	7,202.84	7,248.84	40.87	249.73	90.45	1,336.45	-5,118.07	5,380.76	5,090.16	290.60	18.516		
8,000.00	7,248.24	7,202.24	7,248.24	41.62	249.71	90.44	1,336.45	-5,118.07	5,301.36	5,010.10	291.25	18.202		
8,100.00	7,247.65	7,201.65	7,247.65	42.66	249.69	90.43	1,336.45	-5,118.07	5,222.66	4,930.66	291.99	17.886		
8,200.00	7,247.05	7,201.05	7,247.05	43.96	249.67	90.42	1,336.45	-5,118.07	5,144.70	4,851.86	292.83	17.569		
8,300.00	7,246.46	7,200.46	7,246.46	45.46	249.64	90.41	1,336.45	-5,118.07	5,067.51	4,773.74	293.77	17.250		
8,400.00	7,245.86	7,200.14	7,245.86	47.13	249.63	90.40	1,336.45	-5,118.07	4,991.14	4,696.32	294.81	16.930		
8,500.00	7,245.27	7,200.74	7,245.27	48.93	249.65	90.39	1,336.45	-5,118.07	4,915.61	4,619.62	295.99	16.607		
8,600.00	7,244.67	7,201.33	7,244.67	50.84	249.68	90.38	1,336.45	-5,118.07	4,840.97	4,543.70	297.27	16.285		
8,700.00	7,244.07	7,201.93	7,244.07	52.85	249.70	90.37	1,336.45	-5,118.07	4,767.26	4,468.60	298.65	15.962		
8,800.00	7,243.48	7,202.52	7,243.48	54.94	249.72	90.36	1,336.45	-5,118.07	4,694.52	4,394.37	300.14	15.641		
8,900.00	7,242.88	7,203.12	7,242.88	57.10	249.74	90.35	1,336.45	-5,118.07	4,622.80	4,321.06	301.74	15.321		
9,000.00	7,242.29	7,203.71	7,242.29	59.32	249.76	90.34	1,336.45	-5,118.07	4,552.15	4,248.71	303.44	15.002		
9,100.00	7,241.69	7,204.31	7,241.69	61.60	249.78	90.33	1,336.45	-5,118.07	4,482.61	4,177.37	305.24	14.686		
9,200.00	7,241.09	7,204.91	7,241.09	63.92	249.80	90.31	1,336.45	-5,118.07	4,414.24	4,107.10	307.15	14.372		
9,300.00	7,240.50	7,205.50	7,240.50	66.29	249.82	90.30	1,336.45	-5,118.07	4,347.10	4,037.95	309.16	14.061		
9,400.00	7,239.90	7,206.10	7,239.90	68.70	249.84	90.29	1,336.45	-5,118.07	4,281.25	3,969.97	311.27	13.754		
9,500.00	7,239.31	7,206.69	7,239.31	71.14	249.86	90.28	1,336.45	-5,118.07	4,216.73	3,903.24	313.49	13.451		
9,600.00	7,238.71	7,207.29	7,238.71	73.61	249.88	90.27	1,336.45	-5,118.07	4,153.62	3,837.82	315.80	13.153		
9,700.00	7,238.11	7,207.89	7,238.11	76.11	249.90	90.26	1,336.45	-5,118.07	4,091.99	3,773.77	318.22	12.859		
9,800.00	7,237.52	7,208.48	7,237.52	78.64	249.92	90.25	1,336.45	-5,118.07	4,031.89	3,711.17	320.72	12.571		
9,900.00	7,236.92	7,209.08	7,236.92	81.19	249.95	90.24	1,336.45	-5,118.07	3,973.40	3,650.07	323.32	12.289		
10,000.00	7,236.33	7,209.67	7,236.33	83.75	249.97	90.23	1,336.45	-5,118.07	3,916.58	3,590.58	326.01	12.014		
10,100.00	7,235.73	7,189.73	7,235.73	86.34	249.27	90.22	1,336.45	-5,118.07	3,861.53	3,533.46	328.06	11.771		
10,200.00	7,235.14	7,189.14	7,235.14	88.94	249.25	90.21	1,336.45	-5,118.07	3,808.30	3,477.42	330.88	11.510		
10,300.00	7,234.54	7,188.54	7,234.54	91.56	249.23	90.20	1,336.45	-5,118.07	3,756.98	3,423.22	333.76	11.256		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,187.94	7,233.94	94.19	249.21	90.19	1,336.45	-5,118.07	3,707.65	3,370.93	336.72	11.011	
10,500.00	7,233.35	7,187.35	7,233.35	96.84	249.19	90.18	1,336.45	-5,118.07	3,660.38	3,320.64	339.74	10.774	
10,600.00	7,232.75	7,186.75	7,232.75	99.50	249.17	90.17	1,336.45	-5,118.07	3,615.27	3,272.45	342.81	10.546	
10,700.00	7,232.16	7,186.16	7,232.16	102.17	249.15	90.16	1,336.45	-5,118.07	3,572.38	3,226.44	345.94	10.327	
10,800.00	7,231.56	7,185.56	7,231.56	104.85	249.12	90.15	1,336.45	-5,118.07	3,531.81	3,182.70	349.11	10.117	
10,900.00	7,230.96	7,184.96	7,230.96	107.53	249.10	90.14	1,336.45	-5,118.07	3,493.62	3,141.32	352.30	9.916	
11,000.00	7,230.37	7,184.37	7,230.37	110.23	249.08	90.13	1,336.45	-5,118.07	3,457.91	3,102.39	355.52	9.726	
11,100.00	7,229.77	7,183.77	7,229.77	112.93	249.06	90.11	1,336.45	-5,118.07	3,424.75	3,065.99	358.75	9.546	
11,200.00	7,229.18	7,183.18	7,229.18	115.65	249.04	90.10	1,336.45	-5,118.07	3,394.21	3,032.22	361.99	9.377	
11,300.00	7,228.58	7,182.58	7,228.58	118.37	249.02	90.09	1,336.45	-5,118.07	3,366.36	3,001.16	365.21	9.218	
11,400.00	7,227.99	7,181.99	7,227.99	121.09	249.00	90.08	1,336.45	-5,118.07	3,341.28	2,972.88	368.40	9.070	
11,500.00	7,227.39	7,181.39	7,227.39	123.82	248.98	90.07	1,336.45	-5,118.07	3,319.02	2,947.45	371.57	8.933	
11,600.00	7,226.79	7,180.79	7,226.79	126.56	248.96	90.06	1,336.45	-5,118.07	3,299.64	2,924.96	374.68	8.807	
11,700.00	7,226.20	7,180.20	7,226.20	129.30	248.94	90.05	1,336.45	-5,118.07	3,283.20	2,905.46	377.74	8.692	
11,800.00	7,225.60	7,179.60	7,225.60	132.05	248.92	90.04	1,336.45	-5,118.07	3,269.73	2,889.01	380.72	8.588	
11,900.00	7,225.01	7,179.01	7,225.01	134.80	248.90	90.03	1,336.45	-5,118.07	3,259.27	2,875.65	383.62	8.496	
12,000.00	7,224.41	7,178.41	7,224.41	137.56	248.87	90.02	1,336.45	-5,118.07	3,251.86	2,865.43	386.43	8.415	
12,100.00	7,223.81	7,177.81	7,223.81	140.32	248.85	90.01	1,336.45	-5,118.07	3,247.51	2,858.38	389.14	8.345	
12,191.30	7,223.27	7,177.27	7,223.27	142.84	248.84	90.00	1,336.45	-5,118.07	3,246.23	2,854.72	391.51	8.292 CC	
12,200.00	7,223.22	7,177.22	7,223.22	143.08	248.83	90.00	1,336.45	-5,118.07	3,246.24	2,854.52	391.73	8.287	
12,300.00	7,222.62	7,176.62	7,222.62	145.85	248.81	89.99	1,336.45	-5,118.07	3,248.05	2,853.86	394.19	8.240 ES	
12,400.00	7,222.03	7,176.03	7,222.03	148.62	248.79	89.98	1,336.45	-5,118.07	3,252.93	2,856.40	396.53	8.203	
12,500.00	7,221.43	7,175.43	7,221.43	151.40	248.77	89.97	1,336.45	-5,118.07	3,260.87	2,862.14	398.74	8.178	
12,600.00	7,220.83	7,174.83	7,220.83	154.18	248.75	89.96	1,336.45	-5,118.07	3,271.86	2,871.05	400.80	8.163	
12,700.00	7,220.24	7,174.24	7,220.24	156.96	248.73	89.95	1,336.45	-5,118.07	3,285.85	2,883.12	402.72	8.159 SF	
12,800.00	7,219.64	7,173.64	7,219.64	159.74	248.71	89.94	1,336.45	-5,118.07	3,302.80	2,898.31	404.50	8.165	
12,900.00	7,219.05	7,173.05	7,219.05	162.53	248.69	89.93	1,336.45	-5,118.07	3,322.69	2,916.56	406.12	8.181	
13,000.00	7,218.45	7,172.45	7,218.45	165.32	248.67	89.91	1,336.45	-5,118.07	3,345.44	2,937.84	407.61	8.208	
13,100.00	7,217.86	7,171.86	7,217.86	168.11	248.65	89.90	1,336.45	-5,118.07	3,371.01	2,962.07	408.94	8.243	
13,200.00	7,217.26	7,171.26	7,217.26	170.90	248.63	89.89	1,336.45	-5,118.07	3,399.33	2,989.19	410.14	8.288	
13,300.00	7,216.66	7,170.66	7,216.66	173.70	248.60	89.88	1,336.45	-5,118.07	3,430.33	3,019.14	411.19	8.342	
13,400.00	7,216.07	7,170.07	7,216.07	176.49	248.58	89.87	1,336.45	-5,118.07	3,463.95	3,051.83	412.11	8.405	
13,500.00	7,215.47	7,169.47	7,215.47	179.29	248.56	89.86	1,336.45	-5,118.07	3,500.09	3,087.19	412.91	8.477	
13,600.00	7,214.88	7,168.88	7,214.88	182.09	248.54	89.85	1,336.45	-5,118.07	3,538.70	3,125.12	413.57	8.556	
13,700.00	7,214.28	7,168.28	7,214.28	184.90	248.52	89.84	1,336.45	-5,118.07	3,579.68	3,165.56	414.12	8.644	
13,800.00	7,213.68	7,167.68	7,213.68	187.70	248.50	89.83	1,336.45	-5,118.07	3,622.96	3,208.40	414.56	8.739	
13,900.00	7,213.09	7,167.09	7,213.09	190.51	248.48	89.82	1,336.45	-5,118.07	3,668.46	3,253.56	414.90	8.842	
14,000.00	7,212.49	7,166.49	7,212.49	193.32	248.46	89.81	1,336.45	-5,118.07	3,716.09	3,300.95	415.13	8.952	
14,100.00	7,211.90	7,165.90	7,211.90	196.13	248.44	89.80	1,336.45	-5,118.07	3,765.77	3,350.49	415.28	9.068	
14,200.00	7,211.30	7,165.30	7,211.30	198.94	248.42	89.79	1,336.45	-5,118.07	3,817.43	3,402.09	415.34	9.191	
14,300.00	7,210.71	7,164.71	7,210.71	201.75	248.40	89.78	1,336.45	-5,118.07	3,870.98	3,455.66	415.32	9.321	
14,400.00	7,210.11	7,164.11	7,210.11	204.56	248.38	89.77	1,336.45	-5,118.07	3,926.35	3,511.12	415.22	9.456	
14,500.00	7,209.51	7,163.51	7,209.51	207.38	248.35	89.76	1,336.45	-5,118.07	3,983.46	3,568.39	415.07	9.597	
14,600.00	7,208.92	7,162.92	7,208.92	210.19	248.33	89.75	1,336.45	-5,118.07	4,042.23	3,627.38	414.85	9.744	
14,700.00	7,208.32	7,162.32	7,208.32	213.01	248.31	89.74	1,336.45	-5,118.07	4,102.61	3,688.03	414.58	9.896	
14,800.00	7,207.73	7,161.73	7,207.73	215.83	248.29	89.73	1,336.45	-5,118.07	4,164.50	3,750.25	414.26	10.053	
14,900.00	7,207.13	7,161.13	7,207.13	218.65	248.27	89.72	1,336.45	-5,118.07	4,227.86	3,813.97	413.89	10.215	
15,000.00	7,206.53	7,160.53	7,206.53	221.47	248.25	89.70	1,336.45	-5,118.07	4,292.61	3,879.12	413.49	10.381	
15,100.00	7,205.94	7,159.94	7,205.94	224.29	248.23	89.69	1,336.45	-5,118.07	4,358.70	3,945.65	413.05	10.552	
15,200.00	7,205.34	7,159.34	7,205.34	227.11	248.21	89.68	1,336.45	-5,118.07	4,426.06	4,013.48	412.58	10.728	
15,258.04	7,205.00	7,159.00	7,205.00	228.75	248.20	89.68	1,336.45	-5,118.07	4,465.71	4,053.42	412.30	10.831	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	53.00	3.28	3.28	-91.58	-135.38	-4,915.33	4,917.48				
100.00	100.00	47.00	100.00	3.28	3.38	-91.58	-135.38	-4,915.33	4,917.19	4,910.53	6.67	737.679	
200.00	200.00	147.00	200.00	3.34	4.71	-91.58	-135.38	-4,915.33	4,917.19	4,909.14	8.05	610.726	
300.00	299.98	246.98	299.98	3.44	7.62	83.69	-135.38	-4,915.33	4,917.00	4,905.94	11.06	444.653	
400.00	399.84	346.84	399.84	3.59	10.87	83.76	-135.38	-4,915.33	4,916.43	4,901.97	14.46	340.057	
500.00	499.45	446.45	499.45	3.79	14.22	83.88	-135.38	-4,915.33	4,915.49	4,897.48	18.01	272.936	
600.00	598.70	545.70	598.70	4.03	17.61	84.05	-135.38	-4,915.33	4,914.20	4,892.55	21.64	227.067	
700.00	697.47	644.47	697.47	4.31	21.01	84.26	-135.38	-4,915.33	4,912.58	4,887.26	25.32	193.988	
800.00	795.62	742.62	795.62	4.64	24.40	84.52	-135.38	-4,915.33	4,910.68	4,881.64	29.04	169.110	
900.00	893.06	840.06	893.06	5.00	27.78	84.81	-135.38	-4,915.33	4,908.54	4,875.76	32.77	149.771	
1,000.00	989.65	936.65	989.65	5.40	31.13	85.15	-135.38	-4,915.33	4,906.19	4,869.67	36.52	134.340	
1,100.00	1,085.85	1,032.85	1,085.85	5.82	34.47	85.45	-135.38	-4,915.33	4,903.87	4,863.58	40.29	121.723	
1,200.00	1,182.06	1,129.06	1,182.06	6.27	37.81	85.76	-135.38	-4,915.33	4,901.70	4,857.62	44.08	111.208	
1,300.00	1,278.26	1,225.26	1,278.26	6.73	41.16	86.06	-135.38	-4,915.33	4,899.68	4,851.79	47.88	102.322	
1,400.00	1,374.47	1,321.47	1,374.47	7.20	44.51	86.37	-135.38	-4,915.33	4,897.81	4,846.10	51.71	94.721	
1,500.00	1,470.67	1,417.67	1,470.67	7.69	47.86	86.68	-135.38	-4,915.33	4,896.09	4,840.54	55.54	88.150	
1,600.00	1,566.88	1,513.88	1,566.88	8.18	51.21	86.98	-135.38	-4,915.33	4,894.52	4,835.13	59.39	82.417	
1,700.00	1,663.08	1,610.08	1,663.08	8.68	54.56	87.29	-135.38	-4,915.33	4,893.10	4,829.86	63.24	77.374	
1,800.00	1,759.29	1,706.29	1,759.29	9.19	57.91	87.60	-135.38	-4,915.33	4,891.84	4,824.74	67.10	72.904	
1,900.00	1,855.49	1,802.49	1,855.49	9.70	61.27	87.91	-135.38	-4,915.33	4,890.73	4,819.76	70.97	68.917	
2,000.00	1,951.70	1,901.30	1,951.70	10.22	64.71	88.21	-135.38	-4,915.33	4,889.77	4,814.84	74.93	65.261	
2,100.00	2,047.90	2,005.10	2,047.90	10.73	68.33	88.52	-135.38	-4,915.33	4,888.96	4,809.89	79.07	61.834	
2,200.00	2,144.11	2,108.89	2,144.11	11.26	71.95	88.83	-135.38	-4,915.33	4,888.30	4,805.09	83.21	58.748	
2,300.00	2,240.31	2,187.31	2,240.31	11.78	74.69	89.14	-135.38	-4,915.33	4,887.80	4,801.33	86.47	56.527	
2,400.00	2,336.52	2,283.52	2,336.52	12.31	78.04	89.44	-135.38	-4,915.33	4,887.45	4,797.09	90.35	54.093	
2,500.00	2,432.72	2,379.72	2,432.72	12.84	81.40	89.75	-135.38	-4,915.33	4,887.25	4,793.01	94.24	51.860	
2,580.68	2,510.34	2,457.34	2,510.34	13.27	84.10	90.00	-135.38	-4,915.33	4,887.20	4,789.82	97.38	50.189	
2,600.00	2,528.93	2,475.93	2,528.93	13.37	84.75	90.06	-135.38	-4,915.33	4,887.20	4,789.07	98.13	49.805	
2,700.00	2,625.13	2,572.13	2,625.13	13.91	88.11	90.37	-135.38	-4,915.33	4,887.31	4,785.29	102.02	47.907	
2,800.00	2,721.34	2,668.34	2,721.34	14.44	91.47	90.67	-135.38	-4,915.33	4,887.57	4,781.66	105.91	46.149	
2,900.00	2,817.54	2,764.54	2,817.54	14.98	94.82	90.98	-135.38	-4,915.33	4,887.98	4,778.17	109.80	44.517	
3,000.00	2,913.75	2,860.75	2,913.75	15.52	98.18	91.29	-135.38	-4,915.33	4,888.54	4,774.84	113.69	42.997	
3,100.00	3,009.95	2,956.95	3,009.95	16.06	101.53	91.60	-135.38	-4,915.33	4,889.25	4,771.66	117.59	41.579	
3,200.00	3,106.16	3,053.16	3,106.16	16.60	104.89	91.91	-135.38	-4,915.33	4,890.12	4,768.63	121.49	40.253	
3,300.00	3,202.37	3,149.37	3,202.37	17.14	108.25	92.21	-135.38	-4,915.33	4,891.14	4,765.76	125.38	39.010	
3,400.00	3,298.57	3,245.57	3,298.57	17.68	111.61	92.52	-135.38	-4,915.33	4,892.31	4,763.03	129.28	37.843	
3,500.00	3,394.78	3,341.78	3,394.78	18.22	114.96	92.83	-135.38	-4,915.33	4,893.63	4,760.45	133.18	36.745	
3,600.00	3,490.98	3,437.98	3,490.98	18.76	118.32	93.13	-135.38	-4,915.33	4,895.11	4,758.03	137.08	35.711	
3,700.00	3,587.19	3,534.19	3,587.19	19.31	121.68	93.44	-135.38	-4,915.33	4,896.73	4,755.76	140.98	34.734	
3,800.00	3,683.39	3,630.39	3,683.39	19.85	125.03	93.75	-135.38	-4,915.33	4,898.51	4,753.63	144.88	33.812	
3,900.00	3,779.60	3,726.60	3,779.60	20.39	128.39	94.05	-135.38	-4,915.33	4,900.44	4,751.66	148.78	32.938	
4,000.00	3,875.80	3,822.80	3,875.80	20.94	131.75	94.36	-135.38	-4,915.33	4,902.52	4,749.84	152.68	32.111	
4,100.00	3,972.01	3,919.01	3,972.01	21.48	135.11	94.67	-135.38	-4,915.33	4,904.75	4,748.17	156.58	31.325	
4,200.00	4,068.21	4,015.21	4,068.21	22.03	138.46	94.97	-135.38	-4,915.33	4,907.13	4,746.66	160.48	30.578	
4,300.00	4,164.42	4,111.42	4,164.42	22.57	141.82	95.28	-135.38	-4,915.33	4,909.66	4,745.29	164.38	29.868	
4,400.00	4,260.62	4,207.62	4,260.62	23.12	145.18	95.58	-135.38	-4,915.33	4,912.35	4,744.07	168.28	29.192	
4,500.00	4,356.83	4,303.83	4,356.83	23.67	148.54	95.89	-135.38	-4,915.33	4,915.18	4,743.00	172.18	28.547	
4,600.00	4,453.03	4,400.03	4,453.03	24.21	151.90	96.19	-135.38	-4,915.33	4,918.16	4,742.08	176.08	27.931	
4,700.00	4,549.24	4,503.76	4,549.24	24.76	155.52	96.49	-135.38	-4,915.33	4,921.29	4,741.05	180.25	27.303	
4,800.00	4,645.44	4,607.56	4,645.44	25.31	159.14	96.80	-135.38	-4,915.33	4,924.57	4,740.16	184.41	26.704	
4,900.00	4,741.65	4,688.65	4,741.65	25.86	161.97	97.10	-135.38	-4,915.33	4,928.00	4,740.22	187.78	26.243	
5,000.00	4,837.85	4,784.85	4,837.85	26.40	165.33	97.40	-135.38	-4,915.33	4,931.58	4,739.90	191.69	25.727	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	4,881.06	4,934.06	26.95	168.68	97.71	-135.38	-4,915.33	4,935.31	4,739.72	195.59	25.233		
5,200.00	5,030.26	4,977.26	5,030.26	27.50	172.04	98.01	-135.38	-4,915.33	4,939.18	4,739.70	199.49	24.759		
5,300.00	5,126.47	5,073.47	5,126.47	28.05	175.40	98.31	-135.38	-4,915.33	4,943.21	4,739.82	203.39	24.304		
5,400.00	5,222.67	5,169.67	5,222.67	28.60	178.76	98.61	-135.38	-4,915.33	4,947.38	4,740.09	207.29	23.867		
5,500.00	5,318.88	5,265.88	5,318.88	29.15	182.12	98.91	-135.38	-4,915.33	4,951.69	4,740.50	211.19	23.447		
5,600.00	5,415.08	5,362.08	5,415.08	29.70	185.47	99.21	-135.38	-4,915.33	4,956.16	4,741.07	215.09	23.042		
5,700.00	5,511.29	5,458.29	5,511.29	30.25	188.83	99.51	-135.38	-4,915.33	4,960.76	4,741.78	218.99	22.653		
5,800.00	5,607.49	5,554.49	5,607.49	30.79	192.19	99.81	-135.38	-4,915.33	4,965.52	4,742.63	222.89	22.278		
5,900.00	5,703.70	5,650.70	5,703.70	31.34	195.55	100.11	-135.38	-4,915.33	4,970.42	4,743.63	226.79	21.917		
6,000.00	5,799.90	5,746.90	5,799.90	31.89	198.91	100.41	-135.38	-4,915.33	4,975.46	4,744.78	230.69	21.568		
6,100.00	5,896.11	5,843.11	5,896.11	32.44	202.26	100.70	-135.38	-4,915.33	4,980.65	4,746.07	234.58	21.232		
6,200.00	5,992.32	5,939.32	5,992.32	32.99	205.62	101.00	-135.38	-4,915.33	4,985.99	4,747.50	238.48	20.907		
6,300.00	6,088.52	6,035.52	6,088.52	33.54	208.98	101.30	-135.38	-4,915.33	4,991.46	4,749.08	242.38	20.594		
6,400.00	6,184.73	6,131.73	6,184.73	34.09	212.34	101.59	-135.38	-4,915.33	4,997.08	4,750.80	246.28	20.290		
6,500.00	6,280.93	6,227.93	6,280.93	34.64	215.70	101.89	-135.38	-4,915.33	5,002.84	4,752.67	250.17	19.997		
6,600.00	6,377.14	6,324.14	6,377.14	35.19	219.06	102.18	-135.38	-4,915.33	5,008.75	4,754.68	254.07	19.714		
6,700.00	6,473.34	6,420.34	6,473.34	35.74	222.41	102.48	-135.38	-4,915.33	5,014.79	4,756.82	257.97	19.440		
6,800.00	6,569.55	6,516.55	6,569.55	36.29	225.77	102.77	-135.38	-4,915.33	5,020.98	4,759.11	261.86	19.174		
6,900.00	6,665.75	6,612.75	6,665.75	36.84	229.13	98.39	-135.38	-4,915.33	5,027.14	4,761.38	265.76	18.916		
7,000.00	6,761.11	6,708.11	6,761.11	37.39	232.46	72.66	-135.38	-4,915.33	5,023.95	4,754.33	269.62	18.633		
7,100.00	6,853.41	6,800.41	6,853.41	37.89	235.68	57.91	-135.38	-4,915.33	5,006.17	4,732.82	273.35	18.314		
7,200.00	6,940.36	6,887.36	6,940.36	38.34	238.72	50.45	-135.38	-4,915.33	4,974.32	4,697.48	276.84	17.968		
7,300.00	7,019.83	6,966.83	7,019.83	38.74	241.49	47.25	-135.38	-4,915.33	4,929.26	4,649.22	280.04	17.602		
7,400.00	7,089.85	7,036.85	7,089.85	39.10	243.93	46.98	-135.38	-4,915.33	4,872.16	4,589.29	282.87	17.224		
7,500.00	7,148.71	7,104.29	7,148.71	39.42	246.29	49.26	-135.38	-4,915.33	4,804.47	4,518.88	285.59	16.823		
7,600.00	7,194.95	7,141.95	7,194.95	39.71	247.60	54.40	-135.38	-4,915.33	4,727.89	4,440.63	287.25	16.459		
7,700.00	7,227.43	7,174.43	7,227.43	40.01	248.74	63.28	-135.38	-4,915.33	4,644.29	4,355.56	288.74	16.085		
7,800.00	7,245.37	7,207.63	7,245.37	40.37	249.89	77.16	-135.38	-4,915.33	4,555.72	4,265.48	290.24	15.696		
7,900.00	7,248.84	7,204.16	7,248.84	40.87	249.77	90.79	-135.38	-4,915.33	4,464.35	4,173.87	290.48	15.369		
8,000.00	7,248.24	7,204.76	7,248.24	41.62	249.79	90.77	-135.38	-4,915.33	4,372.76	4,081.87	290.89	15.032		
8,100.00	7,247.65	7,205.35	7,247.65	42.66	249.82	90.75	-135.38	-4,915.33	4,281.55	3,990.19	291.35	14.695		
8,200.00	7,247.05	7,205.95	7,247.05	43.96	249.84	90.73	-135.38	-4,915.33	4,190.73	3,898.86	291.87	14.358		
8,300.00	7,246.46	7,206.54	7,246.46	45.46	249.86	90.71	-135.38	-4,915.33	4,100.35	3,807.89	292.46	14.020		
8,400.00	7,245.86	7,207.14	7,245.86	47.13	249.88	90.69	-135.38	-4,915.33	4,010.41	3,717.31	293.11	13.683		
8,500.00	7,245.27	7,207.74	7,245.27	48.93	249.90	90.67	-135.38	-4,915.33	3,920.97	3,627.15	293.83	13.344		
8,600.00	7,244.67	7,208.33	7,244.67	50.84	249.92	90.65	-135.38	-4,915.33	3,832.05	3,537.43	294.63	13.007		
8,700.00	7,244.07	7,208.93	7,244.07	52.85	249.94	90.63	-135.38	-4,915.33	3,743.69	3,448.18	295.51	12.669		
8,800.00	7,243.48	7,209.52	7,243.48	54.94	249.96	90.62	-135.38	-4,915.33	3,655.93	3,359.45	296.48	12.331		
8,900.00	7,242.88	7,189.88	7,242.88	57.10	249.96	90.60	-135.38	-4,915.33	3,568.81	3,271.97	296.83	12.023		
9,000.00	7,242.29	7,189.29	7,242.29	59.32	249.25	90.58	-135.38	-4,915.33	3,482.38	3,184.42	297.96	11.688		
9,100.00	7,241.69	7,188.69	7,241.69	61.60	249.23	90.56	-135.38	-4,915.33	3,396.70	3,097.51	299.19	11.353		
9,200.00	7,241.09	7,188.09	7,241.09	63.92	249.21	90.54	-135.38	-4,915.33	3,311.82	3,011.29	300.53	11.020		
9,300.00	7,240.50	7,187.50	7,240.50	66.29	249.19	90.52	-135.38	-4,915.33	3,227.81	2,925.82	301.99	10.688		
9,400.00	7,239.90	7,186.90	7,239.90	68.70	249.17	90.50	-135.38	-4,915.33	3,144.73	2,841.15	303.58	10.359		
9,500.00	7,239.31	7,186.31	7,239.31	71.14	249.15	90.48	-135.38	-4,915.33	3,062.67	2,757.37	305.30	10.032		
9,600.00	7,238.71	7,185.71	7,238.71	73.61	249.13	90.46	-135.38	-4,915.33	2,981.70	2,674.54	307.16	9.707		
9,700.00	7,238.11	7,185.11	7,238.11	76.11	249.11	90.44	-135.38	-4,915.33	2,901.91	2,592.75	309.17	9.386		
9,800.00	7,237.52	7,184.52	7,237.52	78.64	249.09	90.42	-135.38	-4,915.33	2,823.42	2,512.09	311.32	9.069		
9,900.00	7,236.92	7,183.92	7,236.92	81.19	249.07	90.40	-135.38	-4,915.33	2,746.32	2,432.68	313.64	8.756		
10,000.00	7,236.33	7,183.33	7,236.33	83.75	249.05	90.38	-135.38	-4,915.33	2,670.74	2,354.62	316.12	8.449		
10,100.00	7,235.73	7,182.73	7,235.73	86.34	249.03	90.37	-135.38	-4,915.33	2,596.81	2,278.05	318.76	8.147		
10,200.00	7,235.14	7,182.14	7,235.14	88.94	249.00	90.35	-135.38	-4,915.33	2,524.68	2,203.11	321.58	7.851		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,181.54	7,234.54	91.56	248.98	90.33	-135.38	-4,915.33	2,454.51	2,129.94	324.56	7.562		
10,400.00	7,233.94	7,180.94	7,233.94	94.19	248.96	90.31	-135.38	-4,915.33	2,386.46	2,058.74	327.72	7.282		
10,500.00	7,233.35	7,180.35	7,233.35	96.84	248.94	90.29	-135.38	-4,915.33	2,320.73	1,989.68	331.05	7.010		
10,600.00	7,232.75	7,179.75	7,232.75	99.50	248.92	90.27	-135.38	-4,915.33	2,257.51	1,922.97	334.54	6.748		
10,700.00	7,232.16	7,179.16	7,232.16	102.17	248.90	90.25	-135.38	-4,915.33	2,197.03	1,858.84	338.18	6.497		
10,800.00	7,231.56	7,178.56	7,231.56	104.85	248.88	90.23	-135.38	-4,915.33	2,139.51	1,797.54	341.97	6.256		
10,900.00	7,230.96	7,177.96	7,230.96	107.53	248.86	90.21	-135.38	-4,915.33	2,085.21	1,739.33	345.87	6.029		
11,000.00	7,230.37	7,177.37	7,230.37	110.23	248.84	90.19	-135.38	-4,915.33	2,034.37	1,684.49	349.87	5.815		
11,100.00	7,229.77	7,176.77	7,229.77	112.93	248.82	90.17	-135.38	-4,915.33	1,987.27	1,633.33	353.94	5.615		
11,200.00	7,229.18	7,176.18	7,229.18	115.65	248.80	90.15	-135.38	-4,915.33	1,944.17	1,586.13	358.04	5.430		
11,300.00	7,228.58	7,175.58	7,228.58	118.37	248.78	90.13	-135.38	-4,915.33	1,905.36	1,543.23	362.12	5.262		
11,400.00	7,227.99	7,174.99	7,227.99	121.09	248.76	90.11	-135.38	-4,915.33	1,871.09	1,504.94	366.15	5.110		
11,500.00	7,227.39	7,174.39	7,227.39	123.82	248.73	90.10	-135.38	-4,915.33	1,841.61	1,471.56	370.05	4.977		
11,600.00	7,226.79	7,173.79	7,226.79	126.56	248.71	90.08	-135.38	-4,915.33	1,817.17	1,443.38	373.79	4.861		
11,700.00	7,226.20	7,173.20	7,226.20	129.30	248.69	90.06	-135.38	-4,915.33	1,797.97	1,420.66	377.31	4.765		
11,800.00	7,225.60	7,172.60	7,225.60	132.05	248.67	90.04	-135.38	-4,915.33	1,784.17	1,403.62	380.54	4.688		
11,900.00	7,225.01	7,172.01	7,225.01	134.80	248.65	90.02	-135.38	-4,915.33	1,775.90	1,392.45	383.45	4.631		
11,997.15	7,224.43	7,171.43	7,224.43	137.48	248.63	90.00	-135.38	-4,915.33	1,773.24	1,387.31	385.93	4.595 CC		
12,000.00	7,224.41	7,171.41	7,224.41	137.56	248.63	90.00	-135.38	-4,915.33	1,773.24	1,387.24	386.00	4.594 ES		
12,100.00	7,223.81	7,170.81	7,223.81	140.32	248.61	89.98	-135.38	-4,915.33	1,776.22	1,388.07	388.15	4.576 SF		
12,200.00	7,223.22	7,170.22	7,223.22	143.08	248.59	89.96	-135.38	-4,915.33	1,784.80	1,394.92	389.88	4.578		
12,300.00	7,222.62	7,169.62	7,222.62	145.85	248.57	89.94	-135.38	-4,915.33	1,798.92	1,407.72	391.20	4.598		
12,400.00	7,222.03	7,169.03	7,222.03	148.62	248.55	89.92	-135.38	-4,915.33	1,818.42	1,426.32	392.10	4.638		
12,500.00	7,221.43	7,168.43	7,221.43	151.40	248.53	89.90	-135.38	-4,915.33	1,843.16	1,450.55	392.61	4.695		
12,600.00	7,220.83	7,167.83	7,220.83	154.18	248.51	89.88	-135.38	-4,915.33	1,872.91	1,480.17	392.74	4.769		
12,700.00	7,220.24	7,167.24	7,220.24	156.96	248.48	89.86	-135.38	-4,915.33	1,907.45	1,514.91	392.54	4.859		
12,800.00	7,219.64	7,166.64	7,219.64	159.74	248.46	89.85	-135.38	-4,915.33	1,946.52	1,554.48	392.03	4.965		
12,900.00	7,219.05	7,166.05	7,219.05	162.53	248.44	89.83	-135.38	-4,915.33	1,989.85	1,598.58	391.27	5.086		
13,000.00	7,218.45	7,165.45	7,218.45	165.32	248.42	89.81	-135.38	-4,915.33	2,037.17	1,646.89	390.28	5.220		
13,100.00	7,217.86	7,164.86	7,217.86	168.11	248.40	89.79	-135.38	-4,915.33	2,088.21	1,699.10	389.11	5.367		
13,200.00	7,217.26	7,164.26	7,217.26	170.90	248.38	89.77	-135.38	-4,915.33	2,142.70	1,754.92	387.78	5.526		
13,300.00	7,216.66	7,163.66	7,216.66	173.70	248.36	89.75	-135.38	-4,915.33	2,200.39	1,814.05	386.35	5.695		
13,400.00	7,216.07	7,163.07	7,216.07	176.49	248.34	89.73	-135.38	-4,915.33	2,261.04	1,876.22	384.82	5.876		
13,500.00	7,215.47	7,162.47	7,215.47	179.29	248.32	89.71	-135.38	-4,915.33	2,324.40	1,941.17	383.23	6.065		
13,600.00	7,214.88	7,161.88	7,214.88	182.09	248.30	89.69	-135.38	-4,915.33	2,390.27	2,008.67	381.60	6.264		
13,700.00	7,214.28	7,161.28	7,214.28	184.90	248.28	89.67	-135.38	-4,915.33	2,458.45	2,078.50	379.95	6.470		
13,800.00	7,213.68	7,160.68	7,213.68	187.70	248.26	89.65	-135.38	-4,915.33	2,528.74	2,150.44	378.30	6.685		
13,900.00	7,213.09	7,160.09	7,213.09	190.51	248.24	89.63	-135.38	-4,915.33	2,600.98	2,224.33	376.65	6.906		
14,000.00	7,212.49	7,159.49	7,212.49	193.32	248.21	89.61	-135.38	-4,915.33	2,675.00	2,299.99	375.01	7.133		
14,100.00	7,211.90	7,158.90	7,211.90	196.13	248.19	89.60	-135.38	-4,915.33	2,750.67	2,377.27	373.40	7.367		
14,200.00	7,211.30	7,158.30	7,211.30	198.94	248.17	89.58	-135.38	-4,915.33	2,827.85	2,456.03	371.82	7.605		
14,300.00	7,210.71	7,157.71	7,210.71	201.75	248.15	89.56	-135.38	-4,915.33	2,906.42	2,536.15	370.28	7.849		
14,400.00	7,210.11	7,157.11	7,210.11	204.56	248.13	89.54	-135.38	-4,915.33	2,986.28	2,617.51	368.77	8.098		
14,500.00	7,209.51	7,156.51	7,209.51	207.38	248.11	89.52	-135.38	-4,915.33	3,067.31	2,700.01	367.31	8.351		
14,600.00	7,208.92	7,155.92	7,208.92	210.19	248.09	89.50	-135.38	-4,915.33	3,149.44	2,783.55	365.88	8.608		
14,700.00	7,208.32	7,155.32	7,208.32	213.01	248.07	89.48	-135.38	-4,915.33	3,232.57	2,868.06	364.51	8.868		
14,800.00	7,207.73	7,154.73	7,207.73	215.83	248.05	89.46	-135.38	-4,915.33	3,316.63	2,953.46	363.17	9.132		
14,900.00	7,207.13	7,154.13	7,207.13	218.65	248.03	89.44	-135.38	-4,915.33	3,401.56	3,039.68	361.88	9.400		
15,000.00	7,206.53	7,153.53	7,206.53	221.47	248.01	89.42	-135.38	-4,915.33	3,487.28	3,126.65	360.64	9.670		
15,100.00	7,205.94	7,152.94	7,205.94	224.29	247.99	89.40	-135.38	-4,915.33	3,573.75	3,214.32	359.43	9.943		
15,200.00	7,205.34	7,152.34	7,205.34	227.11	247.96	89.38	-135.38	-4,915.33	3,660.91	3,302.64	358.27	10.218		
15,258.04	7,205.00	7,152.00	7,205.00	228.75	247.95	89.37	-135.38	-4,915.33	3,711.79	3,354.18	357.62	10.379		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	56.00	3.28	3.28	-110.38	-2,842.93	-7,653.09	8,164.26					
100.00	100.00	44.00	100.00	3.28	3.37	-110.38	-2,842.93	-7,653.09	8,164.07	8,157.41	6.65	1,227.044		
200.00	200.00	144.00	200.00	3.34	4.64	-110.38	-2,842.93	-7,653.09	8,164.07	8,156.09	7.98	1,023.484		
300.00	299.98	243.98	299.98	3.44	7.52	64.89	-2,842.93	-7,653.09	8,163.33	8,152.36	10.96	744.570		
400.00	399.84	343.84	399.84	3.59	10.77	64.97	-2,842.93	-7,653.09	8,161.11	8,146.75	14.36	568.381		
500.00	499.45	443.45	499.45	3.79	14.12	65.09	-2,842.93	-7,653.09	8,157.41	8,139.51	17.91	455.498		
600.00	598.70	542.70	598.70	4.03	17.51	65.26	-2,842.93	-7,653.09	8,152.27	8,130.73	21.54	378.471		
700.00	697.47	641.47	697.47	4.31	20.91	65.48	-2,842.93	-7,653.09	8,145.68	8,120.46	25.22	322.982		
800.00	795.62	739.62	795.62	4.64	24.30	65.74	-2,842.93	-7,653.09	8,137.68	8,108.74	28.93	281.274		
900.00	893.06	837.06	893.06	5.00	27.67	66.06	-2,842.93	-7,653.09	8,128.29	8,095.63	32.66	248.861		
1,000.00	989.65	933.65	989.65	5.40	31.02	66.40	-2,842.93	-7,653.09	8,117.56	8,081.16	36.40	222.990		
1,100.00	1,085.85	1,029.85	1,085.85	5.82	34.36	66.57	-2,842.93	-7,653.09	8,106.32	8,066.16	40.16	201.852		
1,200.00	1,182.06	1,126.06	1,182.06	6.27	37.71	66.74	-2,842.93	-7,653.09	8,095.15	8,051.21	43.94	184.237		
1,300.00	1,278.26	1,222.26	1,278.26	6.73	41.05	66.91	-2,842.93	-7,653.09	8,084.06	8,036.32	47.74	169.348		
1,400.00	1,374.47	1,318.47	1,374.47	7.20	44.40	67.09	-2,842.93	-7,653.09	8,073.04	8,021.49	51.55	156.610		
1,500.00	1,470.67	1,414.67	1,470.67	7.69	47.75	67.26	-2,842.93	-7,653.09	8,062.10	8,006.73	55.37	145.597		
1,600.00	1,566.88	1,510.88	1,566.88	8.18	51.10	67.43	-2,842.93	-7,653.09	8,051.25	7,992.04	59.21	135.984		
1,700.00	1,663.08	1,607.08	1,663.08	8.68	54.46	67.61	-2,842.93	-7,653.09	8,040.46	7,977.41	63.05	127.525		
1,800.00	1,759.29	1,703.29	1,759.29	9.19	57.81	67.78	-2,842.93	-7,653.09	8,029.76	7,962.86	66.90	120.027		
1,900.00	1,855.49	1,800.51	1,855.49	9.70	61.20	67.96	-2,842.93	-7,653.09	8,019.14	7,948.34	70.79	113.279		
2,000.00	1,951.70	1,904.30	1,951.70	10.22	64.82	68.13	-2,842.93	-7,653.09	8,008.59	7,933.67	74.92	106.900		
2,100.00	2,047.90	2,008.10	2,047.90	10.73	68.44	68.31	-2,842.93	-7,653.09	7,998.12	7,919.08	79.05	101.182		
2,200.00	2,144.11	2,088.11	2,144.11	11.26	71.23	68.48	-2,842.93	-7,653.09	7,987.74	7,905.38	82.35	96.996		
2,300.00	2,240.31	2,184.31	2,240.31	11.78	74.58	68.66	-2,842.93	-7,653.09	7,977.43	7,891.20	86.22	92.520		
2,400.00	2,336.52	2,280.52	2,336.52	12.31	77.94	68.84	-2,842.93	-7,653.09	7,967.20	7,877.10	90.10	88.427		
2,500.00	2,432.72	2,376.72	2,432.72	12.84	81.29	69.01	-2,842.93	-7,653.09	7,957.05	7,863.08	93.98	84.669		
2,600.00	2,528.93	2,472.93	2,528.93	13.37	84.65	69.19	-2,842.93	-7,653.09	7,946.99	7,849.13	97.86	81.209		
2,700.00	2,625.13	2,569.13	2,625.13	13.91	88.00	69.37	-2,842.93	-7,653.09	7,937.00	7,835.26	101.74	78.011		
2,800.00	2,721.34	2,665.34	2,721.34	14.44	91.36	69.55	-2,842.93	-7,653.09	7,927.10	7,821.47	105.63	75.048		
2,900.00	2,817.54	2,761.54	2,817.54	14.98	94.72	69.73	-2,842.93	-7,653.09	7,917.28	7,807.76	109.51	72.295		
3,000.00	2,913.75	2,857.75	2,913.75	15.52	98.07	69.91	-2,842.93	-7,653.09	7,907.54	7,794.14	113.40	69.731		
3,100.00	3,009.95	2,953.95	3,009.95	16.06	101.43	70.08	-2,842.93	-7,653.09	7,897.88	7,780.59	117.29	67.336		
3,200.00	3,106.16	3,050.16	3,106.16	16.60	104.79	70.26	-2,842.93	-7,653.09	7,888.30	7,767.12	121.18	65.095		
3,300.00	3,202.37	3,146.37	3,202.37	17.14	108.14	70.45	-2,842.93	-7,653.09	7,878.81	7,753.74	125.07	62.993		
3,400.00	3,298.57	3,242.57	3,298.57	17.68	111.50	70.63	-2,842.93	-7,653.09	7,869.40	7,740.44	128.97	61.018		
3,500.00	3,394.78	3,338.78	3,394.78	18.22	114.86	70.81	-2,842.93	-7,653.09	7,860.08	7,727.22	132.86	59.160		
3,600.00	3,490.98	3,434.98	3,490.98	18.76	118.22	70.99	-2,842.93	-7,653.09	7,850.84	7,714.08	136.76	57.407		
3,700.00	3,587.19	3,531.19	3,587.19	19.31	121.57	71.17	-2,842.93	-7,653.09	7,841.68	7,701.02	140.65	55.751		
3,800.00	3,683.39	3,627.39	3,683.39	19.85	124.93	71.35	-2,842.93	-7,653.09	7,832.60	7,688.05	144.55	54.185		
3,900.00	3,779.60	3,723.60	3,779.60	20.39	128.29	71.54	-2,842.93	-7,653.09	7,823.62	7,675.16	148.45	52.702		
4,000.00	3,875.80	3,819.80	3,875.80	20.94	131.64	71.72	-2,842.93	-7,653.09	7,814.71	7,662.36	152.35	51.295		
4,100.00	3,972.01	3,916.01	3,972.01	21.48	135.00	71.90	-2,842.93	-7,653.09	7,805.89	7,649.64	156.25	49.958		
4,200.00	4,068.21	4,012.21	4,068.21	22.03	138.36	72.09	-2,842.93	-7,653.09	7,797.16	7,637.01	160.15	48.687		
4,300.00	4,164.42	4,108.42	4,164.42	22.57	141.72	72.27	-2,842.93	-7,653.09	7,788.51	7,624.46	164.05	47.476		
4,400.00	4,260.62	4,204.62	4,260.62	23.12	145.08	72.46	-2,842.93	-7,653.09	7,779.95	7,612.00	167.95	46.322		
4,500.00	4,356.83	4,300.83	4,356.83	23.67	148.43	72.64	-2,842.93	-7,653.09	7,771.48	7,599.62	171.85	45.221		
4,600.00	4,453.03	4,402.97	4,453.03	24.21	152.00	72.83	-2,842.93	-7,653.09	7,763.09	7,587.12	175.96	44.117		
4,700.00	4,549.24	4,506.76	4,549.24	24.76	155.62	73.01	-2,842.93	-7,653.09	7,754.79	7,574.65	180.13	43.050		
4,800.00	4,645.44	4,589.44	4,645.44	25.31	158.51	73.20	-2,842.93	-7,653.09	7,746.57	7,563.01	183.57	42.201		
4,900.00	4,741.65	4,685.65	4,741.65	25.86	161.86	73.39	-2,842.93	-7,653.09	7,738.45	7,550.98	187.47	41.278		
5,000.00	4,837.85	4,781.85	4,837.85	26.40	165.22	73.57	-2,842.93	-7,653.09	7,730.41	7,539.03	191.37	40.394		
5,100.00	4,934.06	4,878.06	4,934.06	26.95	168.58	73.76	-2,842.93	-7,653.09	7,722.46	7,527.18	195.28	39.545		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,974.26	5,030.26	27.50	171.94	73.95	-2,842.93	-7,653.09	7,714.59	7,515.41	199.19	38.731		
5,300.00	5,126.47	5,070.47	5,126.47	28.05	175.30	74.14	-2,842.93	-7,653.09	7,706.82	7,503.73	203.09	37.947		
5,400.00	5,222.67	5,166.67	5,222.67	28.60	178.65	74.33	-2,842.93	-7,653.09	7,699.13	7,492.13	207.00	37.194		
5,500.00	5,318.88	5,262.88	5,318.88	29.15	182.01	74.51	-2,842.93	-7,653.09	7,691.54	7,480.63	210.91	36.469		
5,600.00	5,415.08	5,359.08	5,415.08	29.70	185.37	74.70	-2,842.93	-7,653.09	7,684.03	7,469.22	214.81	35.771		
5,700.00	5,511.29	5,455.29	5,511.29	30.25	188.73	74.89	-2,842.93	-7,653.09	7,676.61	7,457.89	218.72	35.098		
5,800.00	5,607.49	5,551.49	5,607.49	30.79	192.09	75.08	-2,842.93	-7,653.09	7,669.29	7,446.66	222.63	34.449		
5,900.00	5,703.70	5,647.70	5,703.70	31.34	195.44	75.27	-2,842.93	-7,653.09	7,662.05	7,435.51	226.54	33.822		
6,000.00	5,799.90	5,743.90	5,799.90	31.89	198.80	75.46	-2,842.93	-7,653.09	7,654.90	7,424.46	230.45	33.217		
6,100.00	5,896.11	5,840.11	5,896.11	32.44	202.16	75.65	-2,842.93	-7,653.09	7,647.85	7,413.49	234.36	32.633		
6,200.00	5,992.32	5,936.32	5,992.32	32.99	205.52	75.85	-2,842.93	-7,653.09	7,640.88	7,402.62	238.27	32.069		
6,300.00	6,088.52	6,032.52	6,088.52	33.54	208.88	76.04	-2,842.93	-7,653.09	7,634.01	7,391.83	242.18	31.522		
6,400.00	6,184.73	6,128.73	6,184.73	34.09	212.23	76.23	-2,842.93	-7,653.09	7,627.23	7,381.14	246.09	30.994		
6,500.00	6,280.93	6,224.93	6,280.93	34.64	215.59	76.42	-2,842.93	-7,653.09	7,620.54	7,370.54	250.00	30.482		
6,600.00	6,377.14	6,321.14	6,377.14	35.19	218.95	76.61	-2,842.93	-7,653.09	7,613.94	7,360.03	253.91	29.987		
6,700.00	6,473.34	6,417.34	6,473.34	35.74	222.31	76.81	-2,842.93	-7,653.09	7,607.43	7,349.61	257.82	29.507		
6,800.00	6,569.55	6,513.55	6,569.55	36.29	225.67	77.00	-2,842.93	-7,653.09	7,601.02	7,339.29	261.73	29.041		
6,900.00	6,665.75	6,609.75	6,665.75	36.84	229.02	72.53	-2,842.93	-7,653.09	7,594.53	7,328.89	265.64	28.589		
7,000.00	6,761.11	6,705.11	6,761.11	37.39	232.35	46.36	-2,842.93	-7,653.09	7,578.29	7,308.78	269.51	28.119		
7,100.00	6,853.41	6,802.59	6,853.41	37.89	235.76	30.48	-2,842.93	-7,653.09	7,547.04	7,273.64	273.40	27.605		
7,200.00	6,940.36	6,884.36	6,940.36	38.34	238.61	21.05	-2,842.93	-7,653.09	7,501.53	7,224.84	276.68	27.112		
7,300.00	7,019.83	6,963.83	7,019.83	38.74	241.38	14.79	-2,842.93	-7,653.09	7,442.84	7,163.01	279.83	26.598		
7,400.00	7,089.85	7,033.85	7,089.85	39.10	243.83	9.92	-2,842.93	-7,653.09	7,372.41	7,089.83	282.58	26.090		
7,500.00	7,148.71	7,107.29	7,148.71	39.42	246.39	5.18	-2,842.93	-7,653.09	7,291.94	7,006.56	285.38	25.552		
7,600.00	7,194.95	7,138.95	7,194.95	39.71	247.50	-0.94	-2,842.93	-7,653.09	7,203.41	6,916.77	286.64	25.131		
7,700.00	7,227.43	7,171.43	7,227.43	40.01	248.63	-12.22	-2,842.93	-7,653.09	7,108.98	6,821.13	287.86	24.696		
7,800.00	7,245.37	7,189.37	7,245.37	40.37	249.26	-43.78	-2,842.93	-7,653.09	7,011.01	6,722.50	288.50	24.301		
7,900.00	7,248.84	7,207.16	7,248.84	40.87	249.88	-92.55	-2,842.93	-7,653.09	6,911.87	6,622.78	289.09	23.909		
8,000.00	7,248.24	7,207.76	7,248.24	41.62	249.90	-92.51	-2,842.93	-7,653.09	6,812.77	6,523.70	289.07	23.568		
8,100.00	7,247.65	7,191.65	7,247.65	42.66	249.34	-92.47	-2,842.93	-7,653.09	6,713.70	6,425.23	288.47	23.274		
8,200.00	7,247.05	7,191.05	7,247.05	43.96	249.32	-92.43	-2,842.93	-7,653.09	6,614.65	6,326.24	288.41	22.935		
8,300.00	7,246.46	7,190.46	7,246.46	45.46	249.30	-92.40	-2,842.93	-7,653.09	6,515.64	6,227.28	288.36	22.595		
8,400.00	7,245.86	7,189.86	7,245.86	47.13	249.27	-92.36	-2,842.93	-7,653.09	6,416.65	6,128.34	288.32	22.256		
8,500.00	7,245.27	7,189.27	7,245.27	48.93	249.25	-92.32	-2,842.93	-7,653.09	6,317.70	6,029.42	288.28	21.915		
8,600.00	7,244.67	7,188.67	7,244.67	50.84	249.23	-92.29	-2,842.93	-7,653.09	6,218.78	5,930.54	288.24	21.575		
8,700.00	7,244.07	7,188.07	7,244.07	52.85	249.21	-92.25	-2,842.93	-7,653.09	6,119.90	5,831.68	288.22	21.234		
8,800.00	7,243.48	7,187.48	7,243.48	54.94	249.19	-92.21	-2,842.93	-7,653.09	6,021.05	5,732.85	288.20	20.892		
8,900.00	7,242.88	7,186.88	7,242.88	57.10	249.17	-92.17	-2,842.93	-7,653.09	5,922.24	5,634.06	288.19	20.550		
9,000.00	7,242.29	7,186.29	7,242.29	59.32	249.15	-92.14	-2,842.93	-7,653.09	5,823.47	5,535.29	288.18	20.208		
9,100.00	7,241.69	7,185.69	7,241.69	61.60	249.13	-92.10	-2,842.93	-7,653.09	5,724.75	5,436.56	288.19	19.864		
9,200.00	7,241.09	7,185.09	7,241.09	63.92	249.11	-92.06	-2,842.93	-7,653.09	5,626.07	5,337.86	288.21	19.521		
9,300.00	7,240.50	7,184.50	7,240.50	66.29	249.09	-92.03	-2,842.93	-7,653.09	5,527.43	5,239.20	288.24	19.177		
9,400.00	7,239.90	7,183.90	7,239.90	68.70	249.07	-91.99	-2,842.93	-7,653.09	5,428.85	5,140.57	288.28	18.832		
9,500.00	7,239.31	7,183.31	7,239.31	71.14	249.05	-91.95	-2,842.93	-7,653.09	5,330.32	5,041.99	288.33	18.487		
9,600.00	7,238.71	7,182.71	7,238.71	73.61	249.03	-91.91	-2,842.93	-7,653.09	5,231.85	4,943.44	288.41	18.141		
9,700.00	7,238.11	7,182.11	7,238.11	76.11	249.00	-91.88	-2,842.93	-7,653.09	5,133.43	4,844.94	288.49	17.794		
9,800.00	7,237.52	7,181.52	7,237.52	78.64	248.98	-91.84	-2,842.93	-7,653.09	5,035.08	4,746.48	288.60	17.447		
9,900.00	7,236.92	7,180.92	7,236.92	81.19	248.96	-91.80	-2,842.93	-7,653.09	4,936.79	4,648.07	288.72	17.099		
10,000.00	7,236.33	7,180.33	7,236.33	83.75	248.94	-91.77	-2,842.93	-7,653.09	4,838.57	4,549.70	288.87	16.750		
10,100.00	7,235.73	7,179.73	7,235.73	86.34	248.92	-91.73	-2,842.93	-7,653.09	4,740.43	4,451.39	289.04	16.401		
10,200.00	7,235.14	7,179.14	7,235.14	88.94	248.90	-91.69	-2,842.93	-7,653.09	4,642.36	4,353.13	289.24	16.050		
10,300.00	7,234.54	7,178.54	7,234.54	91.56	248.88	-91.65	-2,842.93	-7,653.09	4,544.39	4,254.92	289.46	15.699		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	7,233.94	7,177.94	7,233.94	94.19	248.86	-91.62	-2,842.93	-7,653.09	4,446.50	4,156.78	289.72	15.348		
10,500.00	7,233.35	7,177.35	7,233.35	96.84	248.84	-91.58	-2,842.93	-7,653.09	4,348.70	4,058.69	290.01	14.995		
10,600.00	7,232.75	7,176.75	7,232.75	99.50	248.82	-91.54	-2,842.93	-7,653.09	4,251.01	3,960.67	290.34	14.642		
10,700.00	7,232.16	7,176.16	7,232.16	102.17	248.80	-91.51	-2,842.93	-7,653.09	4,153.43	3,862.72	290.71	14.287		
10,800.00	7,231.56	7,175.56	7,231.56	104.85	248.78	-91.47	-2,842.93	-7,653.09	4,055.97	3,764.85	291.12	13.932		
10,900.00	7,230.96	7,174.96	7,230.96	107.53	248.75	-91.43	-2,842.93	-7,653.09	3,958.63	3,667.05	291.58	13.576		
11,000.00	7,230.37	7,174.37	7,230.37	110.23	248.73	-91.39	-2,842.93	-7,653.09	3,861.43	3,569.33	292.10	13.219		
11,100.00	7,229.77	7,173.77	7,229.77	112.93	248.71	-91.36	-2,842.93	-7,653.09	3,764.37	3,471.69	292.68	12.862		
11,200.00	7,229.18	7,173.18	7,229.18	115.65	248.69	-91.32	-2,842.93	-7,653.09	3,667.48	3,374.16	293.32	12.503		
11,300.00	7,228.58	7,172.58	7,228.58	118.37	248.67	-91.28	-2,842.93	-7,653.09	3,570.75	3,276.72	294.04	12.144		
11,400.00	7,227.99	7,171.99	7,227.99	121.09	248.65	-91.25	-2,842.93	-7,653.09	3,474.21	3,179.38	294.83	11.784		
11,500.00	7,227.39	7,171.39	7,227.39	123.82	248.63	-91.21	-2,842.93	-7,653.09	3,377.87	3,082.17	295.71	11.423		
11,600.00	7,226.79	7,170.79	7,226.79	126.56	248.61	-91.17	-2,842.93	-7,653.09	3,281.75	2,985.07	296.68	11.062		
11,700.00	7,226.20	7,170.20	7,226.20	129.30	248.59	-91.13	-2,842.93	-7,653.09	3,185.87	2,888.12	297.76	10.700		
11,800.00	7,225.60	7,169.60	7,225.60	132.05	248.57	-91.10	-2,842.93	-7,653.09	3,090.25	2,791.31	298.95	10.337		
11,900.00	7,225.01	7,169.01	7,225.01	134.80	248.55	-91.06	-2,842.93	-7,653.09	2,994.92	2,694.66	300.26	9.974		
12,000.00	7,224.41	7,168.41	7,224.41	137.56	248.53	-91.02	-2,842.93	-7,653.09	2,899.90	2,598.19	301.72	9.611		
12,100.00	7,223.81	7,167.81	7,223.81	140.32	248.51	-90.99	-2,842.93	-7,653.09	2,805.23	2,501.91	303.32	9.248		
12,200.00	7,223.22	7,167.22	7,223.22	143.08	248.48	-90.95	-2,842.93	-7,653.09	2,710.94	2,405.85	305.09	8.886		
12,300.00	7,222.62	7,166.62	7,222.62	145.85	248.46	-90.91	-2,842.93	-7,653.09	2,617.07	2,310.03	307.04	8.524		
12,400.00	7,222.03	7,166.03	7,222.03	148.62	248.44	-90.87	-2,842.93	-7,653.09	2,523.67	2,214.48	309.19	8.162		
12,500.00	7,221.43	7,165.43	7,221.43	151.40	248.42	-90.84	-2,842.93	-7,653.09	2,430.80	2,119.23	311.57	7.802		
12,600.00	7,220.83	7,164.83	7,220.83	154.18	248.40	-90.80	-2,842.93	-7,653.09	2,338.52	2,024.33	314.19	7.443		
12,700.00	7,220.24	7,164.24	7,220.24	156.96	248.38	-90.76	-2,842.93	-7,653.09	2,246.89	1,929.81	317.08	7.086		
12,800.00	7,219.64	7,163.64	7,219.64	159.74	248.36	-90.73	-2,842.93	-7,653.09	2,156.02	1,835.75	320.27	6.732		
12,900.00	7,219.05	7,163.05	7,219.05	162.53	248.34	-90.69	-2,842.93	-7,653.09	2,065.98	1,742.19	323.79	6.381		
13,000.00	7,218.45	7,162.45	7,218.45	165.32	248.32	-90.65	-2,842.93	-7,653.09	1,976.90	1,649.22	327.68	6.033		
13,100.00	7,217.86	7,161.86	7,217.86	168.11	248.30	-90.61	-2,842.93	-7,653.09	1,888.92	1,556.95	331.97	5.690		
13,200.00	7,217.26	7,161.26	7,217.26	170.90	248.28	-90.58	-2,842.93	-7,653.09	1,802.19	1,465.48	336.70	5.352		
13,300.00	7,216.66	7,160.66	7,216.66	173.70	248.26	-90.54	-2,842.93	-7,653.09	1,716.90	1,374.97	341.93	5.021		
13,400.00	7,216.07	7,160.07	7,216.07	176.49	248.23	-90.50	-2,842.93	-7,653.09	1,633.28	1,285.58	347.70	4.697		
13,500.00	7,215.47	7,159.47	7,215.47	179.29	248.21	-90.46	-2,842.93	-7,653.09	1,551.60	1,197.55	354.05	4.382		
13,600.00	7,214.88	7,158.88	7,214.88	182.09	248.19	-90.43	-2,842.93	-7,653.09	1,472.19	1,111.16	361.03	4.078		
13,700.00	7,214.28	7,158.28	7,214.28	184.90	248.17	-90.39	-2,842.93	-7,653.09	1,395.42	1,026.74	368.68	3.785		
13,800.00	7,213.68	7,157.68	7,213.68	187.70	248.15	-90.35	-2,842.93	-7,653.09	1,321.77	944.75	377.02	3.506		
13,900.00	7,213.09	7,157.09	7,213.09	190.51	248.13	-90.32	-2,842.93	-7,653.09	1,251.77	865.72	386.05	3.243		
14,000.00	7,212.49	7,156.49	7,212.49	193.32	248.11	-90.28	-2,842.93	-7,653.09	1,186.08	790.37	395.71	2.997		
14,100.00	7,211.90	7,155.90	7,211.90	196.13	248.09	-90.24	-2,842.93	-7,653.09	1,125.46	719.56	405.90	2.773		
14,200.00	7,211.30	7,155.30	7,211.30	198.94	248.07	-90.20	-2,842.93	-7,653.09	1,070.75	654.32	416.43	2.571		
14,300.00	7,210.71	7,154.71	7,210.71	201.75	248.05	-90.17	-2,842.93	-7,653.09	1,022.92	595.93	426.99	2.396		
14,400.00	7,210.11	7,154.11	7,210.11	204.56	248.03	-90.13	-2,842.93	-7,653.09	982.97	545.80	437.17	2.248		
14,500.00	7,209.51	7,153.51	7,209.51	207.38	248.01	-90.09	-2,842.93	-7,653.09	951.89	505.43	446.46	2.132		
14,600.00	7,208.92	7,152.92	7,208.92	210.19	247.99	-90.06	-2,842.93	-7,653.09	930.56	476.26	454.30	2.048		
14,700.00	7,208.32	7,152.32	7,208.32	213.01	247.96	-90.02	-2,842.93	-7,653.09	919.68	459.50	460.17	1.999		
14,750.72	7,208.02	7,152.02	7,208.02	214.44	247.95	-90.00	-2,842.93	-7,653.09	918.28	456.00	462.28	1.986 CC		
14,800.00	7,207.73	7,151.73	7,207.73	215.83	247.94	-89.98	-2,842.93	-7,653.09	919.60	455.87	463.73	1.983 ES, SF		
14,900.00	7,207.13	7,151.13	7,207.13	218.65	247.92	-89.94	-2,842.93	-7,653.09	930.33	465.51	464.82	2.001		
15,000.00	7,206.53	7,150.53	7,206.53	221.47	247.90	-89.91	-2,842.93	-7,653.09	951.51	487.92	463.59	2.052		
15,100.00	7,205.94	7,149.94	7,205.94	224.29	247.88	-89.87	-2,842.93	-7,653.09	982.46	522.10	460.36	2.134		
15,200.00	7,205.34	7,149.34	7,205.34	227.11	247.86	-89.83	-2,842.93	-7,653.09	1,022.29	566.71	455.58	2.244		
15,258.04	7,205.00	7,149.00	7,205.00	228.75	247.85	-89.81	-2,842.93	-7,653.09	1,049.09	596.81	452.28	2.320		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	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)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
0.00	0.00	0.00	43.00	3.28	3.28	-101.71	-1,351.06	-6,517.47	6,656.17					
100.00	100.00	57.00	100.00	3.28	3.43	-101.71	-1,351.06	-6,517.47	6,656.03	6,649.32	6.71	991.617		
200.00	200.00	157.00	200.00	3.34	4.97	-101.71	-1,351.06	-6,517.47	6,656.03	6,647.73	8.31	801.151		
300.00	299.98	256.98	299.98	3.44	7.94	73.56	-1,351.06	-6,517.47	6,655.54	6,644.16	11.37	585.121		
400.00	399.84	356.84	399.84	3.59	11.20	73.63	-1,351.06	-6,517.47	6,654.06	6,639.27	14.79	449.865		
500.00	499.45	456.45	499.45	3.79	14.56	73.75	-1,351.06	-6,517.47	6,651.60	6,633.25	18.35	362.486		
600.00	598.70	555.70	598.70	4.03	17.96	73.91	-1,351.06	-6,517.47	6,648.19	6,626.20	21.99	302.390		
700.00	697.47	654.47	697.47	4.31	21.36	74.13	-1,351.06	-6,517.47	6,643.83	6,618.16	25.67	258.829		
800.00	795.62	752.62	795.62	4.64	24.75	74.38	-1,351.06	-6,517.47	6,638.56	6,609.18	29.38	225.931		
900.00	893.06	850.06	893.06	5.00	28.12	74.69	-1,351.06	-6,517.47	6,632.42	6,599.30	33.12	200.271		
1,000.00	989.65	946.65	989.65	5.40	31.47	75.02	-1,351.06	-6,517.47	6,625.44	6,588.57	36.86	179.734		
1,100.00	1,085.85	1,042.85	1,085.85	5.82	34.82	75.24	-1,351.06	-6,517.47	6,618.18	6,577.55	40.63	162.907		
1,200.00	1,182.06	1,139.06	1,182.06	6.27	38.16	75.46	-1,351.06	-6,517.47	6,611.02	6,566.61	44.41	148.858		
1,300.00	1,278.26	1,235.26	1,278.26	6.73	41.51	75.68	-1,351.06	-6,517.47	6,603.97	6,555.75	48.22	136.967		
1,400.00	1,374.47	1,331.47	1,374.47	7.20	44.86	75.90	-1,351.06	-6,517.47	6,597.02	6,544.99	52.03	126.781		
1,500.00	1,470.67	1,427.67	1,470.67	7.69	48.21	76.12	-1,351.06	-6,517.47	6,590.18	6,534.32	55.87	117.964		
1,600.00	1,566.88	1,523.88	1,566.88	8.18	51.56	76.35	-1,351.06	-6,517.47	6,583.45	6,523.74	59.71	110.262		
1,700.00	1,663.08	1,620.08	1,663.08	8.68	54.91	76.57	-1,351.06	-6,517.47	6,576.82	6,513.27	63.56	103.479		
1,800.00	1,759.29	1,716.29	1,759.29	9.19	58.26	76.79	-1,351.06	-6,517.47	6,570.30	6,502.89	67.41	97.463		
1,900.00	1,855.49	1,812.49	1,855.49	9.70	61.62	77.01	-1,351.06	-6,517.47	6,563.89	6,492.61	71.28	92.091		
2,000.00	1,951.70	1,908.70	1,951.70	10.22	64.97	77.24	-1,351.06	-6,517.47	6,557.58	6,482.44	75.14	87.268		
2,100.00	2,047.90	2,004.90	2,047.90	10.73	68.32	77.46	-1,351.06	-6,517.47	6,551.38	6,472.37	79.02	82.913		
2,200.00	2,144.11	2,101.11	2,144.11	11.26	71.68	77.69	-1,351.06	-6,517.47	6,545.29	6,462.40	82.89	78.963		
2,300.00	2,240.31	2,202.69	2,240.31	11.78	75.22	77.91	-1,351.06	-6,517.47	6,539.31	6,452.35	86.96	75.201		
2,400.00	2,336.52	2,306.48	2,336.52	12.31	78.84	78.14	-1,351.06	-6,517.47	6,533.43	6,442.33	91.10	71.714		
2,500.00	2,432.72	2,389.72	2,432.72	12.84	81.75	78.36	-1,351.06	-6,517.47	6,527.67	6,433.13	94.54	69.049		
2,600.00	2,528.93	2,485.93	2,528.93	13.37	85.10	78.59	-1,351.06	-6,517.47	6,522.01	6,423.59	98.42	66.265		
2,700.00	2,625.13	2,582.13	2,625.13	13.91	88.46	78.82	-1,351.06	-6,517.47	6,516.46	6,414.15	102.31	63.692		
2,800.00	2,721.34	2,678.34	2,721.34	14.44	91.81	79.04	-1,351.06	-6,517.47	6,511.03	6,404.82	106.20	61.307		
2,900.00	2,817.54	2,774.54	2,817.54	14.98	95.17	79.27	-1,351.06	-6,517.47	6,505.70	6,395.60	110.10	59.092		
3,000.00	2,913.75	2,870.75	2,913.75	15.52	98.53	79.50	-1,351.06	-6,517.47	6,500.48	6,386.49	113.99	57.027		
3,100.00	3,009.95	2,966.95	3,009.95	16.06	101.88	79.73	-1,351.06	-6,517.47	6,495.37	6,377.49	117.88	55.100		
3,200.00	3,106.16	3,063.16	3,106.16	16.60	105.24	79.95	-1,351.06	-6,517.47	6,490.38	6,368.60	121.78	53.296		
3,300.00	3,202.37	3,159.37	3,202.37	17.14	108.60	80.18	-1,351.06	-6,517.47	6,485.49	6,359.81	125.68	51.604		
3,400.00	3,298.57	3,255.57	3,298.57	17.68	111.95	80.41	-1,351.06	-6,517.47	6,480.72	6,351.14	129.58	50.015		
3,500.00	3,394.78	3,351.78	3,394.78	18.22	115.31	80.64	-1,351.06	-6,517.47	6,476.05	6,342.58	133.48	48.518		
3,600.00	3,490.98	3,447.98	3,490.98	18.76	118.67	80.87	-1,351.06	-6,517.47	6,471.50	6,334.13	137.38	47.108		
3,700.00	3,587.19	3,544.19	3,587.19	19.31	122.03	81.10	-1,351.06	-6,517.47	6,467.06	6,325.78	141.28	45.775		
3,800.00	3,683.39	3,640.39	3,683.39	19.85	125.38	81.33	-1,351.06	-6,517.47	6,462.74	6,317.56	145.18	44.515		
3,900.00	3,779.60	3,736.60	3,779.60	20.39	128.74	81.56	-1,351.06	-6,517.47	6,458.52	6,309.44	149.08	43.322		
4,000.00	3,875.80	3,832.80	3,875.80	20.94	132.10	81.79	-1,351.06	-6,517.47	6,454.42	6,301.43	152.99	42.190		
4,100.00	3,972.01	3,929.01	3,972.01	21.48	135.46	82.02	-1,351.06	-6,517.47	6,450.43	6,293.54	156.89	41.114		
4,200.00	4,068.21	4,025.21	4,068.21	22.03	138.81	82.25	-1,351.06	-6,517.47	6,446.55	6,285.76	160.79	40.092		
4,300.00	4,164.42	4,121.42	4,164.42	22.57	142.17	82.49	-1,351.06	-6,517.47	6,442.79	6,278.09	164.70	39.119		
4,400.00	4,260.62	4,217.62	4,260.62	23.12	145.53	82.72	-1,351.06	-6,517.47	6,439.14	6,270.54	168.60	38.191		
4,500.00	4,356.83	4,313.83	4,356.83	23.67	148.89	82.95	-1,351.06	-6,517.47	6,435.60	6,263.09	172.51	37.306		
4,600.00	4,453.03	4,410.03	4,453.03	24.21	152.24	83.18	-1,351.06	-6,517.47	6,432.18	6,255.77	176.42	36.460		
4,700.00	4,549.24	4,506.24	4,549.24	24.76	155.60	83.41	-1,351.06	-6,517.47	6,428.87	6,248.55	180.32	35.652		
4,800.00	4,645.44	4,602.44	4,645.44	25.31	158.96	83.65	-1,351.06	-6,517.47	6,425.68	6,241.45	184.23	34.879		
4,900.00	4,741.65	4,701.35	4,741.65	25.86	162.41	83.88	-1,351.06	-6,517.47	6,422.60	6,234.37	188.23	34.121		
5,000.00	4,837.85	4,805.15	4,837.85	26.40	166.03	84.11	-1,351.06	-6,517.47	6,419.64	6,227.23	192.40	33.365		
5,100.00	4,934.06	4,908.94	4,934.06	26.95	169.66	84.35	-1,351.06	-6,517.47	6,416.78	6,220.21	196.58	32.643		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,987.26	5,030.26	27.50	172.39	84.58	-1,351.06	-6,517.47	6,414.05	6,214.19	199.86	32.093		
5,300.00	5,126.47	5,083.47	5,126.47	28.05	175.75	84.81	-1,351.06	-6,517.47	6,411.43	6,207.66	203.77	31.464		
5,400.00	5,222.67	5,179.67	5,222.67	28.60	179.11	85.05	-1,351.06	-6,517.47	6,408.92	6,201.25	207.68	30.860		
5,500.00	5,318.88	5,275.88	5,318.88	29.15	182.47	85.28	-1,351.06	-6,517.47	6,406.53	6,194.95	211.59	30.279		
5,600.00	5,415.08	5,372.08	5,415.08	29.70	185.82	85.52	-1,351.06	-6,517.47	6,404.26	6,188.76	215.49	29.719		
5,700.00	5,511.29	5,468.29	5,511.29	30.25	189.18	85.75	-1,351.06	-6,517.47	6,402.10	6,182.69	219.40	29.180		
5,800.00	5,607.49	5,564.49	5,607.49	30.79	192.54	85.98	-1,351.06	-6,517.47	6,400.05	6,176.74	223.31	28.660		
5,900.00	5,703.70	5,660.70	5,703.70	31.34	195.90	86.22	-1,351.06	-6,517.47	6,398.13	6,170.90	227.22	28.158		
6,000.00	5,799.90	5,756.90	5,799.90	31.89	199.26	86.45	-1,351.06	-6,517.47	6,396.31	6,165.18	231.13	27.674		
6,100.00	5,896.11	5,853.11	5,896.11	32.44	202.61	86.69	-1,351.06	-6,517.47	6,394.62	6,159.58	235.04	27.206		
6,200.00	5,992.32	5,949.32	5,992.32	32.99	205.97	86.92	-1,351.06	-6,517.47	6,393.04	6,154.09	238.95	26.755		
6,300.00	6,088.52	6,045.52	6,088.52	33.54	209.33	87.16	-1,351.06	-6,517.47	6,391.57	6,148.71	242.86	26.318		
6,400.00	6,184.73	6,141.73	6,184.73	34.09	212.69	87.39	-1,351.06	-6,517.47	6,390.22	6,143.45	246.77	25.895		
6,500.00	6,280.93	6,237.93	6,280.93	34.64	216.05	87.63	-1,351.06	-6,517.47	6,388.99	6,138.31	250.68	25.487		
6,600.00	6,377.14	6,334.14	6,377.14	35.19	219.40	87.86	-1,351.06	-6,517.47	6,387.88	6,133.29	254.59	25.091		
6,700.00	6,473.34	6,430.34	6,473.34	35.74	222.76	88.10	-1,351.06	-6,517.47	6,386.88	6,128.38	258.50	24.708		
6,800.00	6,569.55	6,526.55	6,569.55	36.29	226.12	88.33	-1,351.06	-6,517.47	6,385.99	6,123.59	262.41	24.336		
6,900.00	6,665.75	6,622.75	6,665.75	36.84	229.48	88.56	-1,351.06	-6,517.47	6,385.06	6,118.74	266.32	23.975		
7,000.00	6,761.95	6,718.95	6,761.95	37.39	232.81	88.79	-1,351.06	-6,517.47	6,374.27	6,104.09	270.19	23.592		
7,100.00	6,858.31	6,810.41	6,853.41	37.89	236.03	42.85	-1,351.06	-6,517.47	6,348.24	6,074.33	273.91	23.176		
7,200.00	6,940.36	6,902.64	6,940.36	38.34	239.25	34.52	-1,351.06	-6,517.47	6,307.61	6,030.03	277.58	22.723		
7,300.00	7,019.83	6,976.83	7,019.83	38.74	241.84	29.97	-1,351.06	-6,517.47	6,253.35	5,972.78	280.57	22.288		
7,400.00	7,089.85	7,046.85	7,089.85	39.10	244.28	27.75	-1,351.06	-6,517.47	6,186.81	5,903.45	283.36	21.834		
7,500.00	7,148.71	7,105.71	7,148.71	39.42	246.34	27.33	-1,351.06	-6,517.47	6,109.59	5,823.88	285.70	21.385		
7,600.00	7,194.95	7,151.95	7,194.95	39.71	247.95	28.94	-1,351.06	-6,517.47	6,023.57	5,736.02	287.55	20.948		
7,700.00	7,227.43	7,184.43	7,227.43	40.01	249.09	34.19	-1,351.06	-6,517.47	5,930.84	5,641.97	288.86	20.532		
7,800.00	7,245.37	7,202.37	7,245.37	40.37	249.71	50.98	-1,351.06	-6,517.47	5,833.65	5,544.04	289.61	20.143		
7,900.00	7,248.84	7,205.84	7,248.84	40.87	249.83	93.43	-1,351.06	-6,517.47	5,734.39	5,444.57	289.82	19.786		
8,000.00	7,248.24	7,205.24	7,248.24	41.62	249.81	93.37	-1,351.06	-6,517.47	5,634.89	5,345.01	289.87	19.439		
8,100.00	7,247.65	7,204.65	7,247.65	42.66	249.79	93.31	-1,351.06	-6,517.47	5,535.40	5,245.48	289.93	19.092		
8,200.00	7,247.05	7,204.05	7,247.05	43.96	249.77	93.25	-1,351.06	-6,517.47	5,435.94	5,145.95	289.99	18.745		
8,300.00	7,246.46	7,203.46	7,246.46	45.46	249.75	93.19	-1,351.06	-6,517.47	5,336.50	5,046.43	290.06	18.398		
8,400.00	7,245.86	7,202.86	7,245.86	47.13	249.73	93.13	-1,351.06	-6,517.47	5,237.08	4,946.94	290.14	18.050		
8,500.00	7,245.27	7,202.27	7,245.27	48.93	249.71	93.07	-1,351.06	-6,517.47	5,137.68	4,847.45	290.23	17.702		
8,600.00	7,244.67	7,201.67	7,244.67	50.84	249.69	93.01	-1,351.06	-6,517.47	5,038.30	4,747.98	290.32	17.354		
8,700.00	7,244.07	7,201.07	7,244.07	52.85	249.67	92.95	-1,351.06	-6,517.47	4,938.95	4,648.53	290.42	17.006		
8,800.00	7,243.48	7,200.48	7,243.48	54.94	249.65	92.89	-1,351.06	-6,517.47	4,839.63	4,549.10	290.53	16.658		
8,900.00	7,242.88	7,200.12	7,242.88	57.10	249.63	92.83	-1,351.06	-6,517.47	4,740.33	4,449.67	290.66	16.309		
9,000.00	7,242.29	7,200.71	7,242.29	59.32	249.65	92.77	-1,351.06	-6,517.47	4,641.07	4,350.23	290.83	15.958		
9,100.00	7,241.69	7,201.31	7,241.69	61.60	249.67	92.71	-1,351.06	-6,517.47	4,541.84	4,250.82	291.02	15.607		
9,200.00	7,241.09	7,201.91	7,241.09	63.92	249.70	92.65	-1,351.06	-6,517.47	4,442.64	4,151.42	291.22	15.256		
9,300.00	7,240.50	7,202.50	7,240.50	66.29	249.72	92.59	-1,351.06	-6,517.47	4,343.47	4,052.05	291.43	14.904		
9,400.00	7,239.90	7,203.10	7,239.90	68.70	249.74	92.53	-1,351.06	-6,517.47	4,244.35	3,952.70	291.65	14.553		
9,500.00	7,239.31	7,203.69	7,239.31	71.14	249.76	92.47	-1,351.06	-6,517.47	4,145.27	3,853.38	291.89	14.201		
9,600.00	7,238.71	7,204.29	7,238.71	73.61	249.78	92.41	-1,351.06	-6,517.47	4,046.24	3,754.08	292.15	13.850		
9,700.00	7,238.11	7,204.89	7,238.11	76.11	249.80	92.35	-1,351.06	-6,517.47	3,947.25	3,654.82	292.43	13.498		
9,800.00	7,237.52	7,205.48	7,237.52	78.64	249.82	92.29	-1,351.06	-6,517.47	3,848.31	3,555.58	292.73	13.146		
9,900.00	7,236.92	7,206.08	7,236.92	81.19	249.84	92.23	-1,351.06	-6,517.47	3,749.44	3,456.38	293.05	12.794		
10,000.00	7,236.33	7,206.67	7,236.33	83.75	249.86	92.17	-1,351.06	-6,517.47	3,650.62	3,357.22	293.40	12.442		
10,100.00	7,235.73	7,207.27	7,235.73	86.34	249.88	92.11	-1,351.06	-6,517.47	3,551.87	3,258.09	293.78	12.090		
10,200.00	7,235.14	7,207.86	7,235.14	88.94	249.90	92.05	-1,351.06	-6,517.47	3,453.19	3,159.00	294.19	11.738		
10,300.00	7,234.54	7,208.46	7,234.54	91.56	249.92	91.99	-1,351.06	-6,517.47	3,354.59	3,059.96	294.63	11.386		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	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	7,233.94	7,209.06	7,233.94	94.19	249.94	91.93	-1,351.06	-6,517.47	3,256.07	2,960.96	295.11	11.033		
10,500.00	7,233.35	7,209.65	7,233.35	96.84	249.97	91.87	-1,351.06	-6,517.47	3,157.65	2,862.01	295.64	10.681		
10,600.00	7,232.75	7,189.75	7,232.75	99.50	249.27	91.81	-1,351.06	-6,517.47	3,059.33	2,763.84	295.49	10.353		
10,700.00	7,232.16	7,189.16	7,232.16	102.17	249.25	91.75	-1,351.06	-6,517.47	2,961.12	2,665.05	296.07	10.001		
10,800.00	7,231.56	7,188.56	7,231.56	104.85	249.23	91.69	-1,351.06	-6,517.47	2,863.04	2,566.32	296.72	9.649		
10,900.00	7,230.96	7,187.96	7,230.96	107.53	249.21	91.63	-1,351.06	-6,517.47	2,765.09	2,467.66	297.43	9.297		
11,000.00	7,230.37	7,187.37	7,230.37	110.23	249.19	91.57	-1,351.06	-6,517.47	2,667.29	2,369.08	298.21	8.944		
11,100.00	7,229.77	7,186.77	7,229.77	112.93	249.17	91.51	-1,351.06	-6,517.47	2,569.67	2,270.59	299.08	8.592		
11,200.00	7,229.18	7,186.18	7,229.18	115.65	249.15	91.45	-1,351.06	-6,517.47	2,472.23	2,172.19	300.04	8.240		
11,300.00	7,228.58	7,185.58	7,228.58	118.37	249.13	91.39	-1,351.06	-6,517.47	2,375.01	2,073.89	301.12	7.887		
11,400.00	7,227.99	7,184.99	7,227.99	121.09	249.10	91.33	-1,351.06	-6,517.47	2,278.03	1,975.71	302.32	7.535		
11,500.00	7,227.39	7,184.39	7,227.39	123.82	249.08	91.27	-1,351.06	-6,517.47	2,181.32	1,877.66	303.66	7.183		
11,600.00	7,226.79	7,183.79	7,226.79	126.56	249.06	91.21	-1,351.06	-6,517.47	2,084.92	1,779.76	305.16	6.832		
11,700.00	7,226.20	7,183.20	7,226.20	129.30	249.04	91.15	-1,351.06	-6,517.47	1,988.87	1,682.02	306.85	6.482		
11,800.00	7,225.60	7,182.60	7,225.60	132.05	249.02	91.09	-1,351.06	-6,517.47	1,893.24	1,584.48	308.76	6.132		
11,900.00	7,225.01	7,182.01	7,225.01	134.80	249.00	91.03	-1,351.06	-6,517.47	1,798.08	1,487.16	310.91	5.783		
12,000.00	7,224.41	7,181.41	7,224.41	137.56	248.98	90.97	-1,351.06	-6,517.47	1,703.47	1,390.11	313.36	5.436		
12,100.00	7,223.81	7,180.81	7,223.81	140.32	248.96	90.91	-1,351.06	-6,517.47	1,609.52	1,293.37	316.15	5.091		
12,200.00	7,223.22	7,180.22	7,223.22	143.08	248.94	90.85	-1,351.06	-6,517.47	1,516.34	1,197.01	319.33	4.748		
12,300.00	7,222.62	7,179.62	7,222.62	145.85	248.92	90.79	-1,351.06	-6,517.47	1,424.08	1,101.10	322.98	4.409		
12,400.00	7,222.03	7,179.03	7,222.03	148.62	248.90	90.73	-1,351.06	-6,517.47	1,332.95	1,005.77	327.18	4.074		
12,500.00	7,221.43	7,178.43	7,221.43	151.40	248.88	90.67	-1,351.06	-6,517.47	1,243.17	911.15	332.02	3.744		
12,600.00	7,220.83	7,177.83	7,220.83	154.18	248.85	90.61	-1,351.06	-6,517.47	1,155.08	817.45	337.63	3.421		
12,700.00	7,220.24	7,177.24	7,220.24	156.96	248.83	90.55	-1,351.06	-6,517.47	1,069.08	724.97	344.11	3.107		
12,800.00	7,219.64	7,176.64	7,219.64	159.74	248.81	90.49	-1,351.06	-6,517.47	985.73	634.10	351.62	2.803		
12,900.00	7,219.05	7,176.05	7,219.05	162.53	248.79	90.43	-1,351.06	-6,517.47	905.75	545.46	360.29	2.514		
13,000.00	7,218.45	7,175.45	7,218.45	165.32	248.77	90.37	-1,351.06	-6,517.47	830.13	459.93	370.20	2.242		
13,100.00	7,217.86	7,174.86	7,217.86	168.11	248.75	90.30	-1,351.06	-6,517.47	760.16	378.83	381.33	1.993		
13,200.00	7,217.26	7,174.26	7,217.26	170.90	248.73	90.24	-1,351.06	-6,517.47	697.54	304.12	393.42	1.773		
13,300.00	7,216.66	7,173.66	7,216.66	173.70	248.71	90.18	-1,351.06	-6,517.47	644.43	238.61	405.82	1.588		
13,400.00	7,216.07	7,173.07	7,216.07	176.49	248.69	90.12	-1,351.06	-6,517.47	603.33	186.03	417.30	1.446	Level 3	
13,500.00	7,215.47	7,172.47	7,215.47	179.29	248.67	90.06	-1,351.06	-6,517.47	576.83	150.67	426.16	1.354	Level 3	
13,600.00	7,214.88	7,171.88	7,214.88	182.09	248.65	90.00	-1,351.06	-6,517.47	566.97	136.30	430.67	1.316	Level 3	
13,606.39	7,214.84	7,171.84	7,214.84	182.27	248.65	90.00	-1,351.06	-6,517.47	566.94	136.15	430.79	1.316	Level 3, CC, ES, SF	
13,700.00	7,214.28	7,171.28	7,214.28	184.90	248.63	89.94	-1,351.06	-6,517.47	574.61	144.67	429.94	1.336	Level 3	
13,800.00	7,213.68	7,170.68	7,213.68	187.70	248.61	89.88	-1,351.06	-6,517.47	599.08	174.66	424.42	1.412	Level 3	
13,900.00	7,213.09	7,170.09	7,213.09	190.51	248.58	89.82	-1,351.06	-6,517.47	638.45	222.85	415.60	1.536		
14,000.00	7,212.49	7,169.49	7,212.49	193.32	248.56	89.76	-1,351.06	-6,517.47	690.17	285.01	405.16	1.703		
14,100.00	7,211.90	7,168.90	7,211.90	196.13	248.54	89.70	-1,351.06	-6,517.47	751.70	357.25	394.45	1.906		
14,200.00	7,211.30	7,168.30	7,211.30	198.94	248.52	89.64	-1,351.06	-6,517.47	820.84	436.57	384.26	2.136		
14,300.00	7,210.71	7,167.71	7,210.71	201.75	248.50	89.58	-1,351.06	-6,517.47	895.82	520.84	374.98	2.389		
14,400.00	7,210.11	7,167.11	7,210.11	204.56	248.48	89.52	-1,351.06	-6,517.47	975.30	608.59	366.71	2.660		
14,500.00	7,209.51	7,166.51	7,209.51	207.38	248.46	89.46	-1,351.06	-6,517.47	1,058.26	698.82	359.44	2.944		
14,600.00	7,208.92	7,165.92	7,208.92	210.19	248.44	89.40	-1,351.06	-6,517.47	1,143.96	790.87	353.08	3.240		
14,700.00	7,208.32	7,165.32	7,208.32	213.01	248.42	89.34	-1,351.06	-6,517.47	1,231.81	884.28	347.53	3.544		
14,800.00	7,207.73	7,164.73	7,207.73	215.83	248.40	89.28	-1,351.06	-6,517.47	1,321.39	978.71	342.67	3.856		
14,900.00	7,207.13	7,164.13	7,207.13	218.65	248.38	89.22	-1,351.06	-6,517.47	1,412.37	1,073.95	338.42	4.173		
15,000.00	7,206.53	7,163.53	7,206.53	221.47	248.36	89.16	-1,351.06	-6,517.47	1,504.49	1,169.82	334.67	4.495		
15,100.00	7,205.94	7,162.94	7,205.94	224.29	248.33	89.10	-1,351.06	-6,517.47	1,597.56	1,266.19	331.37	4.821		
15,200.00	7,205.34	7,162.34	7,205.34	227.11	248.31	89.04	-1,351.06	-6,517.47	1,691.42	1,362.98	328.45	5.150		
15,258.04	7,205.00	7,162.00	7,205.00	228.75	248.30	89.01	-1,351.06	-6,517.47	1,746.22	1,419.31	326.90	5.342		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	38.00	3.28	3.28	-91.60	-214.47	-7,656.17	7,659.26					
100.00	100.00	100.00	125.65	3.28	3.29	-91.60	-214.18	-7,655.88	7,658.92	7,652.35	6.57	1,165.412		
200.00	200.00	181.31	219.31	3.34	3.33	-91.60	-213.59	-7,655.48	7,658.48	7,651.82	6.67	1,148.988		
300.00	299.98	254.96	292.96	3.44	3.40	83.67	-213.13	-7,655.44	7,658.21	7,651.38	6.84	1,120.388		
400.00	399.84	330.64	368.63	3.59	3.49	83.70	-212.93	-7,655.64	7,657.89	7,650.81	7.08	1,081.319		
500.00	499.45	412.22	450.22	3.79	3.63	83.76	-213.00	-7,656.09	7,657.49	7,650.07	7.41	1,032.783		
600.00	598.70	520.57	558.56	4.03	3.85	83.88	-213.27	-7,656.69	7,656.73	7,648.85	7.88	971.920		
700.00	697.47	611.01	649.00	4.31	4.07	84.00	-213.93	-7,657.19	7,655.64	7,647.26	8.38	913.696		
800.00	795.62	698.13	736.11	4.64	4.30	84.14	-214.80	-7,657.79	7,654.35	7,645.42	8.93	856.770		
900.00	893.06	797.80	835.78	5.00	4.58	84.33	-215.82	-7,658.53	7,652.82	7,643.23	9.58	798.630		
1,000.00	989.65	899.10	937.07	5.40	4.90	84.55	-216.82	-7,659.25	7,650.97	7,640.68	10.29	743.429		
1,100.00	1,085.85	999.95	1,037.91	5.82	5.23	84.75	-217.68	-7,659.90	7,649.01	7,637.96	11.04	692.539		
1,200.00	1,182.06	1,096.81	1,134.77	6.27	5.55	84.95	-218.24	-7,660.49	7,647.11	7,635.29	11.82	647.041		
1,300.00	1,278.26	1,190.07	1,228.02	6.73	5.88	85.13	-218.59	-7,661.09	7,645.32	7,632.71	12.61	606.459		
1,400.00	1,374.47	1,298.01	1,335.97	7.20	6.27	85.35	-218.88	-7,661.72	7,643.58	7,630.11	13.47	567.479		
1,500.00	1,470.67	1,387.14	1,425.09	7.69	6.60	85.53	-219.11	-7,662.21	7,641.89	7,627.61	14.28	535.058		
1,600.00	1,566.88	1,483.10	1,521.05	8.18	6.96	85.72	-219.49	-7,662.79	7,640.36	7,625.22	15.14	504.804		
1,700.00	1,663.08	1,573.45	1,611.39	8.68	7.30	85.91	-219.83	-7,663.37	7,638.95	7,622.97	15.98	478.046		
1,800.00	1,759.29	1,672.34	1,710.28	9.19	7.68	86.11	-220.07	-7,664.04	7,637.67	7,620.81	16.87	452.815		
1,900.00	1,855.49	1,768.83	1,806.77	9.70	8.06	86.30	-220.16	-7,664.65	7,636.45	7,618.70	17.75	430.106		
2,000.00	1,951.70	1,867.30	1,905.24	10.22	8.45	86.50	-220.33	-7,665.27	7,635.33	7,616.67	18.66	409.221		
2,100.00	2,047.90	1,958.94	1,996.87	10.73	8.81	86.69	-220.55	-7,665.85	7,634.29	7,614.75	19.54	390.674		
2,200.00	2,144.11	2,080.60	2,118.53	11.26	9.30	86.94	-220.70	-7,666.56	7,633.33	7,612.78	20.55	371.448		
2,300.00	2,240.31	2,189.82	2,227.75	11.78	9.74	87.16	-220.86	-7,666.81	7,632.10	7,610.58	21.51	354.740		
2,400.00	2,336.52	2,308.43	2,346.36	12.31	10.22	87.40	-221.56	-7,666.86	7,630.78	7,608.26	22.52	338.839		
2,500.00	2,432.72	2,396.09	2,434.02	12.84	10.57	87.57	-222.06	-7,666.83	7,629.47	7,606.07	23.41	325.971		
2,600.00	2,528.93	2,493.78	2,531.71	13.37	10.97	87.77	-222.48	-7,666.82	7,628.29	7,603.96	24.33	313.480		
2,700.00	2,625.13	2,620.88	2,658.80	13.91	11.49	88.03	-222.86	-7,666.53	7,627.00	7,601.62	25.38	300.460		
2,800.00	2,721.34	2,727.44	2,765.36	14.44	11.92	88.24	-222.85	-7,665.95	7,625.51	7,599.16	26.35	289.350		
2,900.00	2,817.54	2,800.01	2,837.93	14.98	12.22	88.39	-222.64	-7,665.55	7,624.16	7,596.97	27.19	280.421		
3,000.00	2,913.75	2,860.47	2,898.39	15.52	12.47	88.52	-222.28	-7,665.44	7,623.29	7,595.31	27.98	272.499		
3,077.77	2,988.56	2,900.01	2,937.93	15.94	12.63	88.61	-221.93	-7,665.59	7,623.09	7,594.53	28.56	266.939		
3,100.00	3,009.95	2,900.01	2,937.93	16.06	12.63	88.61	-221.93	-7,665.59	7,623.12	7,594.44	28.68	265.827		
3,200.00	3,106.16	2,970.01	3,007.92	16.60	12.92	88.75	-221.17	-7,666.23	7,623.53	7,594.02	29.51	258.374		
3,300.00	3,202.37	3,040.22	3,078.12	17.14	13.21	88.90	-220.31	-7,667.24	7,624.51	7,594.17	30.34	251.332		
3,400.00	3,298.57	3,100.01	3,137.89	17.68	13.46	89.03	-219.48	-7,668.19	7,625.83	7,594.70	31.12	245.016		
3,500.00	3,394.78	3,168.75	3,206.62	18.22	13.74	89.18	-218.40	-7,669.56	7,627.64	7,595.69	31.95	238.740		
3,600.00	3,490.98	3,228.93	3,266.76	18.76	13.99	89.31	-217.37	-7,671.14	7,630.10	7,597.36	32.74	233.058		
3,700.00	3,587.19	3,300.01	3,337.80	19.31	14.29	89.46	-216.03	-7,673.25	7,633.02	7,599.45	33.58	227.340		
3,800.00	3,683.39	3,392.22	3,429.94	19.85	14.68	89.67	-213.97	-7,676.13	7,636.24	7,601.74	34.50	221.318		
3,900.00	3,779.60	3,514.05	3,551.68	20.39	15.19	89.94	-210.68	-7,679.71	7,639.43	7,603.87	35.56	214.826		
4,000.00	3,875.80	3,631.75	3,669.29	20.94	15.68	90.20	-207.60	-7,682.74	7,642.38	7,605.78	36.60	208.799		
4,100.00	3,972.01	3,732.62	3,770.11	21.48	16.11	90.42	-205.34	-7,685.24	7,645.32	7,607.75	37.57	203.494		
4,200.00	4,068.21	3,834.35	3,871.79	22.03	16.54	90.64	-203.33	-7,687.69	7,648.28	7,609.74	38.54	198.434		
4,300.00	4,164.42	3,936.72	3,974.12	22.57	16.97	90.86	-201.54	-7,690.12	7,651.29	7,611.77	39.52	193.608		
4,400.00	4,260.62	4,046.50	4,083.85	23.12	17.43	91.09	-200.03	-7,692.61	7,654.28	7,613.75	40.53	188.862		
4,500.00	4,356.83	4,149.08	4,186.41	23.67	17.86	91.31	-198.48	-7,694.75	7,657.20	7,615.69	41.51	184.481		
4,600.00	4,453.03	4,248.42	4,285.72	24.21	18.28	91.52	-197.26	-7,696.83	7,660.21	7,617.74	42.47	180.360		
4,700.00	4,549.24	4,355.45	4,392.72	24.76	18.73	91.75	-196.23	-7,698.99	7,663.22	7,619.75	43.47	176.286		
4,800.00	4,645.44	4,466.53	4,503.78	25.31	19.20	91.98	-195.59	-7,701.10	7,666.17	7,621.68	44.49	172.322		
4,900.00	4,741.65	4,612.24	4,649.47	25.86	19.81	92.27	-195.02	-7,703.29	7,668.83	7,623.17	45.65	167.977		
5,000.00	4,837.85	4,705.84	4,743.06	26.40	20.21	92.47	-194.75	-7,704.40	7,671.27	7,624.67	46.60	164.633		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	4,797.06	4,834.28	26.95	20.59	92.65	-194.47	-7,705.53	7,673.85	7,626.32	47.53	161.458		
5,200.00	5,030.26	4,905.49	4,942.69	27.50	21.05	92.87	-194.12	-7,706.82	7,676.49	7,627.95	48.54	158.163		
5,300.00	5,126.47	4,999.23	5,036.43	28.05	21.45	93.07	-193.74	-7,707.87	7,679.17	7,629.69	49.48	155.200		
5,400.00	5,222.67	5,107.69	5,144.88	28.60	21.91	93.29	-193.25	-7,709.00	7,681.87	7,631.39	50.49	152.157		
5,500.00	5,318.88	5,200.85	5,238.04	29.15	22.30	93.48	-192.90	-7,709.93	7,684.63	7,633.20	51.43	149.424		
5,600.00	5,415.08	5,307.43	5,344.61	29.70	22.75	93.70	-192.58	-7,710.96	7,687.45	7,635.02	52.43	146.628		
5,700.00	5,511.29	5,462.79	5,499.96	30.25	23.41	94.02	-191.69	-7,711.51	7,689.76	7,636.13	53.64	143.368		
5,800.00	5,607.49	5,548.92	5,586.10	30.79	23.77	94.20	-191.10	-7,711.54	7,691.96	7,637.41	54.55	141.013		
5,900.00	5,703.70	5,630.00	5,667.17	31.34	24.12	94.36	-190.81	-7,711.84	7,694.50	7,639.07	55.44	138.795		
6,000.00	5,799.90	5,725.07	5,762.24	31.89	24.52	94.56	-190.52	-7,712.24	7,697.19	7,640.80	56.39	136.503		
6,100.00	5,896.11	5,810.94	5,848.11	32.44	24.88	94.73	-190.19	-7,712.67	7,700.07	7,642.77	57.30	134.383		
6,200.00	5,992.32	5,904.88	5,942.05	32.99	25.28	94.93	-189.78	-7,713.21	7,703.12	7,644.88	58.25	132.253		
6,300.00	6,088.52	5,979.42	6,016.59	33.54	25.60	95.08	-189.52	-7,713.77	7,706.42	7,647.32	59.11	130.382		
6,400.00	6,184.73	6,085.18	6,122.35	34.09	26.05	95.29	-189.32	-7,714.72	7,709.94	7,649.84	60.10	128.276		
6,500.00	6,280.93	6,159.03	6,196.19	34.64	26.36	95.44	-189.24	-7,715.39	7,713.55	7,652.59	60.96	126.530		
6,600.00	6,377.14	6,239.57	6,276.73	35.19	26.71	95.60	-189.21	-7,716.42	7,717.57	7,655.72	61.85	124.780		
6,700.00	6,473.34	6,337.83	6,374.97	35.74	27.13	95.80	-189.39	-7,717.73	7,721.72	7,658.90	62.81	122.929		
6,800.00	6,569.55	6,448.38	6,485.51	36.29	27.60	96.02	-189.66	-7,719.18	7,725.93	7,662.09	63.83	121.033		
6,900.00	6,665.75	6,566.86	6,603.98	36.84	28.10	96.10	-190.23	-7,720.38	7,729.71	7,664.83	64.89	119.126		
7,000.00	6,761.11	6,665.39	6,702.51	37.39	28.52	96.76	-190.87	-7,721.28	7,723.67	7,657.83	65.85	117.298		
7,100.00	6,853.41	6,746.44	6,783.55	37.89	28.86	97.00	-191.85	-7,722.15	7,726.56	7,655.87	66.69	115.490		
7,200.00	6,940.36	6,817.63	6,854.73	38.34	29.17	97.23	-192.85	-7,723.10	7,729.09	7,659.63	67.46	113.662		
7,300.00	7,019.83	6,886.54	6,923.63	38.74	29.46	97.40	-193.71	-7,724.13	7,731.07	7,663.90	68.16	111.765		
7,400.00	7,089.85	6,935.80	6,972.87	39.10	29.67	97.48	-194.22	-7,724.93	7,732.71	7,667.97	68.74	109.933		
7,500.00	7,148.71	6,974.86	7,011.92	39.42	29.84	97.40	-194.58	-7,725.69	7,734.56	7,671.33	69.23	108.106		
7,600.00	7,194.95	7,008.37	7,045.43	39.71	29.98	97.41	-194.84	-7,726.42	7,736.28	7,674.61	69.67	106.264		
7,700.00	7,227.43	7,039.29	7,076.34	40.01	30.11	97.49	-195.04	-7,727.11	7,737.74	7,676.68	70.06	104.408		
7,800.00	7,245.37	7,057.31	7,094.35	40.37	30.19	97.53	-195.14	-7,727.52	7,738.85	7,677.50	70.36	102.627		
7,900.00	7,248.84	7,062.44	7,099.48	40.87	30.21	97.62	-195.17	-7,727.64	7,739.51	7,678.33	70.58	100.940		
8,000.00	7,248.24	7,063.95	7,100.98	41.62	30.22	97.67	-195.18	-7,727.67	7,740.55	7,679.77	70.79	99.275		
8,100.00	7,247.65	7,065.45	7,102.49	42.66	30.22	97.68	-195.18	-7,727.71	7,741.69	7,680.87	71.02	97.594		
8,200.00	7,247.05	7,066.96	7,104.00	43.96	30.23	97.67	-195.19	-7,727.74	7,742.81	7,681.95	71.26	95.898		
8,300.00	7,246.46	7,068.47	7,105.51	45.46	30.24	97.62	-195.20	-7,727.78	7,743.93	7,683.03	71.53	94.187		
8,400.00	7,245.86	7,069.98	7,107.02	47.13	30.24	97.67	-195.20	-7,727.81	7,745.05	7,684.11	71.82	92.459		
8,500.00	7,245.27	7,071.50	7,108.53	48.93	30.25	97.72	-195.21	-7,727.85	7,746.16	7,685.19	72.14	90.717		
8,600.00	7,244.67	7,073.01	7,110.05	50.84	30.26	97.77	-195.22	-7,727.88	7,747.28	7,686.27	72.48	88.960		
8,700.00	7,244.07	7,074.53	7,111.56	52.85	30.26	97.82	-195.22	-7,727.92	7,748.39	7,687.35	72.85	87.189		
8,800.00	7,243.48	7,076.05	7,113.08	54.94	30.27	97.87	-195.23	-7,727.95	7,749.50	7,688.43	73.24	85.405		
8,900.00	7,242.88	7,077.57	7,114.60	57.10	30.28	97.92	-195.24	-7,727.98	7,750.61	7,689.51	73.67	83.607		
9,000.00	7,242.29	7,079.09	7,116.12	59.32	30.28	97.97	-195.24	-7,728.02	7,751.72	7,690.59	74.13	81.796		
9,100.00	7,241.69	7,080.61	7,117.65	61.60	30.29	98.02	-195.25	-7,728.05	7,752.83	7,691.67	74.62	79.974		
9,200.00	7,241.09	7,082.14	7,119.17	63.92	30.29	98.07	-195.26	-7,728.09	7,753.94	7,692.75	75.15	78.141		
9,300.00	7,240.50	7,083.67	7,120.70	66.29	30.30	98.12	-195.26	-7,728.12	7,755.05	7,693.83	75.71	76.298		
9,400.00	7,239.90	7,085.19	7,122.23	68.70	30.31	98.17	-195.27	-7,728.16	7,756.16	7,694.91	76.31	74.447		
9,500.00	7,239.31	7,086.73	7,123.76	71.14	30.31	98.22	-195.27	-7,728.19	7,757.27	7,695.99	76.96	72.588		
9,600.00	7,238.71	7,088.26	7,125.29	73.61	30.32	98.27	-195.28	-7,728.23	7,758.38	7,697.07	77.64	70.722		
9,700.00	7,238.11	7,089.79	7,126.82	76.11	30.33	98.32	-195.29	-7,728.26	7,759.49	7,698.15	78.38	68.852		
9,800.00	7,237.52	7,091.33	7,128.36	78.64	30.33	98.37	-195.29	-7,728.30	7,760.60	7,699.23	79.16	66.978		
9,900.00	7,236.92	7,092.87	7,129.90	81.19	30.34	98.43	-195.30	-7,728.34	7,761.71	7,700.31	79.99	65.102		
10,000.00	7,236.33	7,094.41	7,131.44	83.75	30.35	98.48	-195.30	-7,728.37	7,762.82	7,701.39	80.87	63.226		
10,100.00	7,235.73	7,095.95	7,132.98	86.34	30.35	98.53	-195.31	-7,728.41	7,763.93	7,702.47	81.81	61.352		
10,200.00	7,235.14	7,097.49	7,134.52	88.94	30.36	98.58	-195.31	-7,728.44	7,765.04	7,703.55	82.81	59.480		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	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	7,234.54	7,099.03	7,136.06	91.56	30.37	87.63	-195.32	-7,728.48	4,831.87	4,748.00	83.87	57.614		
10,400.00	7,233.94	7,100.83	7,137.86	94.19	30.37	87.69	-195.32	-7,728.52	4,738.64	4,653.65	84.99	55.754		
10,500.00	7,233.35	7,103.03	7,140.06	96.84	30.38	87.76	-195.33	-7,728.57	4,645.70	4,559.51	86.19	53.902		
10,600.00	7,232.75	7,105.22	7,142.25	99.50	30.39	87.83	-195.34	-7,728.62	4,553.05	4,465.59	87.46	52.060		
10,700.00	7,232.16	7,107.39	7,144.42	102.17	30.40	87.91	-195.35	-7,728.67	4,460.72	4,371.92	88.80	50.233		
10,800.00	7,231.56	7,109.54	7,146.57	104.85	30.41	87.98	-195.35	-7,728.72	4,368.73	4,278.50	90.22	48.420		
10,900.00	7,230.96	7,111.67	7,148.70	107.53	30.42	88.05	-195.36	-7,728.77	4,277.09	4,185.36	91.73	46.626		
11,000.00	7,230.37	7,113.79	7,150.81	110.23	30.43	88.12	-195.37	-7,728.81	4,185.84	4,092.51	93.33	44.850		
11,100.00	7,229.77	7,115.88	7,152.90	112.93	30.44	88.19	-195.38	-7,728.86	4,094.99	3,999.98	95.02	43.097		
11,200.00	7,229.18	7,117.96	7,154.98	115.65	30.45	88.26	-195.39	-7,728.91	4,004.59	3,907.78	96.81	41.367		
11,300.00	7,228.58	7,120.02	7,157.04	118.37	30.46	88.32	-195.40	-7,728.95	3,914.64	3,815.94	98.70	39.663		
11,400.00	7,227.99	7,122.06	7,159.08	121.09	30.46	88.39	-195.40	-7,729.00	3,825.20	3,724.50	100.70	37.987		
11,500.00	7,227.39	7,124.08	7,161.11	123.82	30.47	88.46	-195.41	-7,729.04	3,736.29	3,633.47	102.81	36.341		
11,600.00	7,226.79	7,126.09	7,163.11	126.56	30.48	88.52	-195.42	-7,729.09	3,647.95	3,542.90	105.05	34.726		
11,700.00	7,226.20	7,128.08	7,165.10	129.30	30.49	88.59	-195.43	-7,729.13	3,560.23	3,452.82	107.41	33.145		
11,800.00	7,225.60	7,130.05	7,167.08	132.05	30.50	88.66	-195.44	-7,729.18	3,473.17	3,363.26	109.91	31.600		
11,900.00	7,225.01	7,132.01	7,169.03	134.80	30.51	88.72	-195.45	-7,729.22	3,386.83	3,274.28	112.55	30.092		
12,000.00	7,224.41	7,133.95	7,170.97	137.56	30.52	88.79	-195.46	-7,729.26	3,301.25	3,185.91	115.34	28.623		
12,100.00	7,223.81	7,135.88	7,172.90	140.32	30.52	88.85	-195.47	-7,729.30	3,216.51	3,098.23	118.28	27.194		
12,200.00	7,223.22	7,137.79	7,174.81	143.08	30.53	88.91	-195.48	-7,729.34	3,132.66	3,011.28	121.39	25.807		
12,300.00	7,222.62	7,139.68	7,176.70	145.85	30.54	88.97	-195.49	-7,729.39	3,049.79	2,925.13	124.67	24.463		
12,400.00	7,222.03	7,141.56	7,178.58	148.62	30.55	89.04	-195.50	-7,729.43	2,967.98	2,839.85	128.13	23.165		
12,500.00	7,221.43	7,143.43	7,180.44	151.40	30.56	89.10	-195.51	-7,729.47	2,887.30	2,755.53	131.77	21.912		
12,600.00	7,220.83	7,145.28	7,182.29	154.18	30.56	89.16	-195.52	-7,729.51	2,807.88	2,672.27	135.61	20.706		
12,700.00	7,220.24	7,147.11	7,184.13	156.96	30.57	89.22	-195.53	-7,729.55	2,729.80	2,590.15	139.65	19.547		
12,800.00	7,219.64	7,148.93	7,185.94	159.74	30.58	89.28	-195.53	-7,729.58	2,653.19	2,509.29	143.90	18.438		
12,900.00	7,219.05	7,150.73	7,187.75	162.53	30.59	89.34	-195.54	-7,729.62	2,578.18	2,429.83	148.35	17.379		
13,000.00	7,218.45	7,152.52	7,189.54	165.32	30.59	89.40	-195.56	-7,729.66	2,504.93	2,351.90	153.02	16.370		
13,100.00	7,217.86	7,154.30	7,191.31	168.11	30.60	89.46	-195.57	-7,729.70	2,433.57	2,275.66	157.90	15.412		
13,200.00	7,217.26	7,156.06	7,193.08	170.90	30.61	89.52	-195.58	-7,729.74	2,364.29	2,201.29	163.00	14.505		
13,300.00	7,216.66	7,157.81	7,194.82	173.70	30.62	89.57	-195.59	-7,729.77	2,297.27	2,128.98	168.29	13.650		
13,400.00	7,216.07	7,159.55	7,196.56	176.49	30.62	89.63	-195.60	-7,729.81	2,232.72	2,058.94	173.78	12.848		
13,500.00	7,215.47	7,161.27	7,198.28	179.29	30.63	89.69	-195.61	-7,729.85	2,170.86	1,991.42	179.44	12.098		
13,600.00	7,214.88	7,162.97	7,199.99	182.09	30.64	89.75	-195.62	-7,729.88	2,111.92	1,926.67	185.26	11.400		
13,700.00	7,214.28	7,164.67	7,201.68	184.90	30.65	89.80	-195.63	-7,729.92	2,056.16	1,864.98	191.18	10.755		
13,800.00	7,213.68	7,166.35	7,203.36	187.70	30.65	89.86	-195.64	-7,729.95	2,003.84	1,806.65	197.19	10.162		
13,900.00	7,213.09	7,168.02	7,205.03	190.51	30.66	89.91	-195.65	-7,729.99	1,955.23	1,752.01	203.22	9.621		
14,000.00	7,212.49	7,169.68	7,206.69	193.32	30.67	89.97	-195.66	-7,730.02	1,910.63	1,701.41	209.21	9.132		
14,100.00	7,211.90	7,171.32	7,208.33	196.13	30.67	90.02	-195.67	-7,730.05	1,870.31	1,655.21	215.10	8.695		
14,200.00	7,211.30	7,172.95	7,209.96	198.94	30.68	90.08	-195.68	-7,730.09	1,834.56	1,613.75	220.81	8.308		
14,300.00	7,210.71	7,174.57	7,211.58	201.75	30.69	90.13	-195.69	-7,730.12	1,803.65	1,577.40	226.24	7.972		
14,400.00	7,210.11	7,176.18	7,213.19	204.56	30.70	90.18	-195.70	-7,730.15	1,777.83	1,546.51	231.33	7.685		
14,500.00	7,209.51	7,177.77	7,214.78	207.38	30.70	90.24	-195.71	-7,730.19	1,757.34	1,521.37	235.96	7.448		
14,600.00	7,208.92	7,179.35	7,216.36	210.19	30.71	90.29	-195.72	-7,730.22	1,742.34	1,502.27	240.08	7.257		
14,700.00	7,208.32	7,180.92	7,217.93	213.01	30.72	90.34	-195.73	-7,730.25	1,733.00	1,489.41	243.60	7.114		
14,800.00	7,207.73	7,182.48	7,219.49	215.83	30.72	90.39	-195.75	-7,730.28	1,729.40	1,482.93	246.46	7.017		
14,812.39	7,207.65	7,182.68	7,219.68	216.18	30.72	90.40	-195.75	-7,730.29	1,729.35	1,482.58	246.77	7.008 CC, ES		
14,900.00	7,207.13	7,184.03	7,221.04	218.65	30.73	90.44	-195.76	-7,730.31	1,731.57	1,482.93	248.64	6.964		
15,000.00	7,206.53	7,185.57	7,222.58	221.47	30.74	90.49	-195.77	-7,730.34	1,739.50	1,489.38	250.11	6.955 SF		
15,100.00	7,205.94	7,187.09	7,224.10	224.29	30.74	90.54	-195.78	-7,730.37	1,753.10	1,502.22	250.88	6.988		
15,200.00	7,205.34	7,188.61	7,225.61	227.11	30.75	90.60	-195.79	-7,730.40	1,772.25	1,521.27	250.98	7.061		
15,258.04	7,205.00	7,189.48	7,226.49	228.75	30.75	90.62	-195.80	-7,730.42	1,785.84	1,535.10	250.74	7.122		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	61.00	3.28	3.28	-110.11	-1,305.40	-3,565.95	3,797.87					
100.00	100.00	39.00	100.00	3.28	3.35	-110.11	-1,305.40	-3,565.95	3,797.38	3,790.74	6.63	572.358		
200.00	200.00	139.00	200.00	3.34	4.52	-110.11	-1,305.40	-3,565.95	3,797.38	3,789.52	7.85	483.436		
300.00	299.98	238.98	299.98	3.44	7.37	65.18	-1,305.40	-3,565.95	3,796.64	3,785.84	10.81	351.310		
400.00	399.84	338.84	399.84	3.59	10.60	65.29	-1,305.40	-3,565.95	3,794.45	3,780.26	14.19	267.358		
500.00	499.45	438.45	499.45	3.79	13.95	65.47	-1,305.40	-3,565.95	3,790.81	3,773.07	17.74	213.698		
600.00	598.70	537.70	598.70	4.03	17.34	65.73	-1,305.40	-3,565.95	3,785.74	3,764.37	21.37	177.164		
700.00	697.47	636.47	697.47	4.31	20.73	66.07	-1,305.40	-3,565.95	3,779.29	3,754.24	25.05	150.883		
800.00	795.62	734.62	795.62	4.64	24.12	66.47	-1,305.40	-3,565.95	3,771.49	3,742.73	28.76	131.142		
900.00	893.06	832.06	893.06	5.00	27.50	66.94	-1,305.40	-3,565.95	3,762.40	3,729.91	32.49	115.804		
1,000.00	989.65	928.65	989.65	5.40	30.85	67.47	-1,305.40	-3,565.95	3,752.08	3,715.85	36.23	103.560		
1,100.00	1,085.85	1,024.85	1,085.85	5.82	34.19	67.85	-1,305.40	-3,565.95	3,741.36	3,701.37	39.99	93.561		
1,200.00	1,182.06	1,121.06	1,182.06	6.27	37.53	68.22	-1,305.40	-3,565.95	3,730.81	3,687.04	43.77	85.239		
1,300.00	1,278.26	1,217.26	1,278.26	6.73	40.88	68.60	-1,305.40	-3,565.95	3,720.43	3,672.86	47.57	78.212		
1,400.00	1,374.47	1,313.47	1,374.47	7.20	44.23	68.98	-1,305.40	-3,565.95	3,710.22	3,658.84	51.38	72.207		
1,500.00	1,470.67	1,409.67	1,470.67	7.69	47.58	69.36	-1,305.40	-3,565.95	3,700.18	3,644.98	55.21	67.021		
1,600.00	1,566.88	1,505.88	1,566.88	8.18	50.93	69.74	-1,305.40	-3,565.95	3,690.32	3,631.28	59.05	62.498		
1,700.00	1,663.08	1,602.08	1,663.08	8.68	54.28	70.13	-1,305.40	-3,565.95	3,680.64	3,617.75	62.89	58.522		
1,800.00	1,759.29	1,701.71	1,759.29	9.19	57.75	70.52	-1,305.40	-3,565.95	3,671.13	3,604.27	66.87	54.903		
1,900.00	1,855.49	1,805.51	1,855.49	9.70	61.37	70.90	-1,305.40	-3,565.95	3,661.80	3,590.81	70.99	51.582		
2,000.00	1,951.70	1,909.30	1,951.70	10.22	64.99	71.29	-1,305.40	-3,565.95	3,652.65	3,577.53	75.12	48.624		
2,100.00	2,047.90	1,986.90	2,047.90	10.73	67.70	71.69	-1,305.40	-3,565.95	3,643.69	3,565.34	78.34	46.510		
2,200.00	2,144.11	2,083.11	2,144.11	11.26	71.05	72.08	-1,305.40	-3,565.95	3,634.90	3,552.68	82.22	44.212		
2,300.00	2,240.31	2,179.31	2,240.31	11.78	74.41	72.48	-1,305.40	-3,565.95	3,626.30	3,540.21	86.09	42.121		
2,400.00	2,336.52	2,275.52	2,336.52	12.31	77.76	72.88	-1,305.40	-3,565.95	3,617.88	3,527.91	89.97	40.210		
2,500.00	2,432.72	2,371.72	2,432.72	12.84	81.12	73.28	-1,305.40	-3,565.95	3,609.65	3,515.80	93.86	38.459		
2,600.00	2,528.93	2,467.93	2,528.93	13.37	84.47	73.68	-1,305.40	-3,565.95	3,601.61	3,503.87	97.74	36.847		
2,700.00	2,625.13	2,564.13	2,625.13	13.91	87.83	74.08	-1,305.40	-3,565.95	3,593.76	3,492.13	101.63	35.360		
2,800.00	2,721.34	2,660.34	2,721.34	14.44	91.19	74.48	-1,305.40	-3,565.95	3,586.10	3,480.58	105.52	33.984		
2,900.00	2,817.54	2,756.54	2,817.54	14.98	94.54	74.89	-1,305.40	-3,565.95	3,578.63	3,469.21	109.42	32.706		
3,000.00	2,913.75	2,852.75	2,913.75	15.52	97.90	75.30	-1,305.40	-3,565.95	3,571.35	3,458.04	113.31	31.518		
3,100.00	3,009.95	2,948.95	3,009.95	16.06	101.26	75.71	-1,305.40	-3,565.95	3,564.27	3,447.06	117.21	30.410		
3,200.00	3,106.16	3,045.16	3,106.16	16.60	104.61	76.12	-1,305.40	-3,565.95	3,557.38	3,436.28	121.11	29.374		
3,300.00	3,202.37	3,141.37	3,202.37	17.14	107.97	76.53	-1,305.40	-3,565.95	3,550.69	3,425.69	125.00	28.405		
3,400.00	3,298.57	3,237.57	3,298.57	17.68	111.33	76.94	-1,305.40	-3,565.95	3,544.20	3,415.29	128.90	27.495		
3,500.00	3,394.78	3,333.78	3,394.78	18.22	114.68	77.36	-1,305.40	-3,565.95	3,537.90	3,405.10	132.81	26.640		
3,600.00	3,490.98	3,429.98	3,490.98	18.76	118.04	77.77	-1,305.40	-3,565.95	3,531.81	3,395.10	136.71	25.835		
3,700.00	3,587.19	3,526.19	3,587.19	19.31	121.40	78.19	-1,305.40	-3,565.95	3,525.91	3,385.30	140.61	25.076		
3,800.00	3,683.39	3,622.39	3,683.39	19.85	124.76	78.61	-1,305.40	-3,565.95	3,520.22	3,375.70	144.52	24.359		
3,900.00	3,779.60	3,718.60	3,779.60	20.39	128.11	79.03	-1,305.40	-3,565.95	3,514.73	3,366.31	148.42	23.681		
4,000.00	3,875.80	3,814.80	3,875.80	20.94	131.47	79.45	-1,305.40	-3,565.95	3,509.44	3,357.11	152.33	23.039		
4,100.00	3,972.01	3,911.01	3,972.01	21.48	134.83	79.87	-1,305.40	-3,565.95	3,504.36	3,348.13	156.23	22.430		
4,200.00	4,068.21	4,007.21	4,068.21	22.03	138.19	80.30	-1,305.40	-3,565.95	3,499.48	3,339.34	160.14	21.853		
4,300.00	4,164.42	4,103.42	4,164.42	22.57	141.54	80.72	-1,305.40	-3,565.95	3,494.81	3,330.76	164.05	21.304		
4,400.00	4,260.62	4,200.38	4,260.62	23.12	144.93	81.15	-1,305.40	-3,565.95	3,490.35	3,322.36	167.98	20.778		
4,500.00	4,356.83	4,304.17	4,356.83	23.67	148.55	81.58	-1,305.40	-3,565.95	3,486.09	3,313.93	172.16	20.250		
4,600.00	4,453.03	4,407.97	4,453.03	24.21	152.17	82.00	-1,305.40	-3,565.95	3,482.04	3,305.71	176.33	19.747		
4,700.00	4,549.24	4,488.24	4,549.24	24.76	154.97	82.43	-1,305.40	-3,565.95	3,478.20	3,298.52	179.68	19.358		
4,800.00	4,645.44	4,584.44	4,645.44	25.31	158.33	82.86	-1,305.40	-3,565.95	3,474.58	3,290.98	183.59	18.926		
4,900.00	4,741.65	4,680.65	4,741.65	25.86	161.69	83.29	-1,305.40	-3,565.95	3,471.16	3,283.66	187.50	18.513		
5,000.00	4,837.85	4,776.85	4,837.85	26.40	165.05	83.72	-1,305.40	-3,565.95	3,467.95	3,276.54	191.41	18.118		
5,100.00	4,934.06	4,873.06	4,934.06	26.95	168.41	84.15	-1,305.40	-3,565.95	3,464.96	3,269.64	195.32	17.740		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	5,030.26	4,969.26	5,030.26	27.50	171.76	84.59	-1,305.40	-3,565.95	3,462.18	3,262.94	199.23	17.378	
5,300.00	5,126.47	5,065.47	5,126.47	28.05	175.12	85.02	-1,305.40	-3,565.95	3,459.61	3,256.47	203.14	17.030	
5,400.00	5,222.67	5,161.67	5,222.67	28.60	178.48	85.45	-1,305.40	-3,565.95	3,457.25	3,250.20	207.05	16.697	
5,500.00	5,318.88	5,257.88	5,318.88	29.15	181.84	85.89	-1,305.40	-3,565.95	3,455.11	3,244.15	210.96	16.378	
5,600.00	5,415.08	5,354.08	5,415.08	29.70	185.19	86.32	-1,305.40	-3,565.95	3,453.19	3,238.31	214.87	16.071	
5,700.00	5,511.29	5,450.29	5,511.29	30.25	188.55	86.76	-1,305.40	-3,565.95	3,451.47	3,232.69	218.78	15.776	
5,800.00	5,607.49	5,546.49	5,607.49	30.79	191.91	87.19	-1,305.40	-3,565.95	3,449.98	3,227.28	222.69	15.492	
5,900.00	5,703.70	5,642.70	5,703.70	31.34	195.27	87.63	-1,305.40	-3,565.95	3,448.69	3,222.09	226.60	15.219	
6,000.00	5,799.90	5,738.90	5,799.90	31.89	198.63	88.06	-1,305.40	-3,565.95	3,447.63	3,217.11	230.51	14.956	
6,100.00	5,896.11	5,835.11	5,896.11	32.44	201.99	88.50	-1,305.40	-3,565.95	3,446.78	3,212.35	234.42	14.703	
6,200.00	5,992.32	5,931.32	5,992.32	32.99	205.34	88.94	-1,305.40	-3,565.95	3,446.14	3,207.81	238.33	14.459	
6,300.00	6,088.52	6,027.52	6,088.52	33.54	208.70	89.37	-1,305.40	-3,565.95	3,445.72	3,203.48	242.24	14.224	
6,400.00	6,184.73	6,123.73	6,184.73	34.09	212.06	89.81	-1,305.40	-3,565.95	3,445.52	3,199.37	246.15	13.998	
6,443.95	6,227.01	6,166.01	6,227.01	34.33	213.54	90.00	-1,305.40	-3,565.95	3,445.50	3,197.63	247.87	13.900	
6,500.00	6,280.93	6,219.93	6,280.93	34.64	215.42	90.24	-1,305.40	-3,565.95	3,445.53	3,195.47	250.06	13.779	
6,600.00	6,377.14	6,316.14	6,377.14	35.19	218.78	90.68	-1,305.40	-3,565.95	3,445.76	3,191.79	253.97	13.568	
6,700.00	6,473.34	6,412.34	6,473.34	35.74	222.13	91.12	-1,305.40	-3,565.95	3,446.21	3,188.33	257.88	13.364	
6,800.00	6,569.55	6,508.55	6,569.55	36.29	225.49	91.55	-1,305.40	-3,565.95	3,446.87	3,185.08	261.78	13.167	
6,900.00	6,665.75	6,604.75	6,665.75	36.84	228.85	91.98	-1,305.40	-3,565.95	3,447.57	3,181.88	265.69	12.976	
7,000.00	6,761.95	6,700.95	6,761.95	37.39	232.18	92.41	-1,305.40	-3,565.95	3,448.31	3,178.71	269.56	12.756	
7,100.00	6,858.15	6,797.15	6,858.15	37.94	235.51	92.84	-1,305.40	-3,565.95	3,449.09	3,175.57	273.41	12.540	
7,200.00	6,954.35	6,893.35	6,954.35	38.49	238.84	93.27	-1,305.40	-3,565.95	3,449.91	3,172.42	277.22	12.328	
7,300.00	7,050.55	6,989.55	7,050.55	39.04	242.17	93.70	-1,305.40	-3,565.95	3,450.76	3,169.31	281.00	12.120	
7,400.00	7,146.75	7,085.75	7,146.75	39.59	245.50	94.13	-1,305.40	-3,565.95	3,451.64	3,166.20	284.75	11.916	
7,500.00	7,242.95	7,181.95	7,242.95	40.14	248.83	94.56	-1,305.40	-3,565.95	3,452.55	3,163.08	288.47	11.716	
7,600.00	7,339.15	7,278.15	7,339.15	40.69	252.16	94.99	-1,305.40	-3,565.95	3,453.48	3,159.95	292.16	11.519	
7,700.00	7,435.35	7,374.35	7,435.35	41.24	255.49	95.42	-1,305.40	-3,565.95	3,454.43	3,156.81	295.82	11.325	
7,800.00	7,531.55	7,470.55	7,531.55	41.79	258.82	95.85	-1,305.40	-3,565.95	3,455.40	3,153.66	299.45	11.134	
7,900.00	7,627.75	7,566.75	7,627.75	42.34	262.15	96.28	-1,305.40	-3,565.95	3,456.39	3,150.50	303.05	10.945	
8,000.00	7,723.95	7,662.95	7,723.95	42.89	265.48	96.71	-1,305.40	-3,565.95	3,457.39	3,147.33	306.62	10.758	
8,100.00	7,820.15	7,759.15	7,820.15	43.44	268.81	97.14	-1,305.40	-3,565.95	3,458.40	3,144.15	310.16	10.573	
8,200.00	7,916.35	7,855.35	7,916.35	43.99	272.14	97.57	-1,305.40	-3,565.95	3,459.42	3,140.96	313.66	10.389	
8,300.00	8,012.55	7,951.55	8,012.55	44.54	275.47	98.00	-1,305.40	-3,565.95	3,460.45	3,137.76	317.13	10.206	
8,400.00	8,108.75	8,047.75	8,108.75	45.09	278.80	98.43	-1,305.40	-3,565.95	3,461.49	3,134.55	320.57	10.024	
8,500.00	8,204.95	8,143.95	8,204.95	45.64	282.13	98.86	-1,305.40	-3,565.95	3,462.54	3,131.33	323.98	9.843	
8,600.00	8,301.15	8,240.15	8,301.15	46.19	285.46	99.29	-1,305.40	-3,565.95	3,463.59	3,128.11	327.36	9.663	
8,700.00	8,397.35	8,336.35	8,397.35	46.74	288.79	99.72	-1,305.40	-3,565.95	3,464.64	3,124.88	330.72	9.484	
8,800.00	8,493.55	8,432.55	8,493.55	47.29	292.12	100.15	-1,305.40	-3,565.95	3,465.69	3,121.64	334.06	9.306	
8,900.00	8,589.75	8,528.75	8,589.75	47.84	295.45	100.58	-1,305.40	-3,565.95	3,466.74	3,118.40	337.38	9.129	
9,000.00	8,685.95	8,624.95	8,685.95	48.39	298.78	101.01	-1,305.40	-3,565.95	3,467.79	3,115.15	340.68	8.953	
9,100.00	8,782.15	8,721.15	8,782.15	48.94	302.11	101.44	-1,305.40	-3,565.95	3,468.84	3,111.90	343.96	8.778	
9,200.00	8,878.35	8,817.35	8,878.35	49.49	305.44	101.87	-1,305.40	-3,565.95	3,469.89	3,108.65	347.22	8.603	
9,300.00	8,974.55	8,913.55	8,974.55	50.04	308.77	102.30	-1,305.40	-3,565.95	3,470.94	3,105.40	350.47	8.429	
9,400.00	9,070.75	9,009.75	9,070.75	50.59	312.10	102.73	-1,305.40	-3,565.95	3,471.99	3,102.15	353.71	8.255	
9,500.00	9,166.95	9,105.95	9,166.95	51.14	315.43	103.16	-1,305.40	-3,565.95	3,473.04	3,098.90	356.93	8.082	
9,600.00	9,263.15	9,202.15	9,263.15	51.69	318.76	103.59	-1,305.40	-3,565.95	3,474.09	3,095.65	360.15	7.910	
9,700.00	9,359.35	9,298.35	9,359.35	52.24	322.09	104.02	-1,305.40	-3,565.95	3,475.14	3,092.40	363.36	7.738	
9,800.00	9,455.55	9,394.55	9,455.55	52.79	325.42	104.45	-1,305.40	-3,565.95	3,476.19	3,089.15	366.56	7.566	
9,900.00	9,551.75	9,490.75	9,551.75	53.34	328.75	104.88	-1,305.40	-3,565.95	3,477.24	3,085.90	369.75	7.395	
10,000.00	9,647.95	9,586.95	9,647.95	53.89	332.08	105.31	-1,305.40	-3,565.95	3,478.29	3,082.65	372.93	7.224	
10,100.00	9,744.15	9,683.15	9,744.15	54.44	335.41	105.74	-1,305.40	-3,565.95	3,479.34	3,079.40	376.10	7.053	
10,200.00	9,840.35	9,779.35	9,840.35	54.99	338.74	106.17	-1,305.40	-3,565.95	3,480.39	3,076.15	379.26	6.882	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,173.54	7,234.54	91.56	248.70	90.20	-1,305.40	-3,565.95	692.97	360.03	332.93	2.081		
10,400.00	7,233.94	7,172.94	7,233.94	94.19	248.68	90.15	-1,305.40	-3,565.95	647.52	308.56	338.97	1.910		
10,500.00	7,233.35	7,172.35	7,233.35	96.84	248.66	90.09	-1,305.40	-3,565.95	615.11	270.81	344.31	1.787		
10,600.00	7,232.75	7,171.75	7,232.75	99.50	248.64	90.03	-1,305.40	-3,565.95	597.87	249.73	348.13	1.717		
10,654.61	7,232.43	7,171.43	7,232.43	100.96	248.63	90.00	-1,305.40	-3,565.95	595.37	246.04	349.33	1.704	CC, ES, SF	
10,700.00	7,232.16	7,171.16	7,232.16	102.17	248.62	89.97	-1,305.40	-3,565.95	597.10	247.31	349.78	1.707		
10,800.00	7,231.56	7,170.56	7,231.56	104.85	248.60	89.92	-1,305.40	-3,565.95	612.86	263.78	349.09	1.756		
10,900.00	7,230.96	7,169.96	7,230.96	107.53	248.58	89.86	-1,305.40	-3,565.95	643.96	297.52	346.43	1.859		
11,000.00	7,230.37	7,169.37	7,230.37	110.23	248.56	89.80	-1,305.40	-3,565.95	688.30	345.78	342.52	2.010		
11,100.00	7,229.77	7,168.77	7,229.77	112.93	248.54	89.74	-1,305.40	-3,565.95	743.53	405.49	338.04	2.200		
11,200.00	7,229.18	7,168.18	7,229.18	115.65	248.52	89.69	-1,305.40	-3,565.95	807.41	473.91	333.50	2.421		
11,300.00	7,228.58	7,167.58	7,228.58	118.37	248.50	89.63	-1,305.40	-3,565.95	878.06	548.84	329.21	2.667		
11,400.00	7,227.99	7,166.99	7,227.99	121.09	248.48	89.57	-1,305.40	-3,565.95	953.97	628.66	325.31	2.932		
11,500.00	7,227.39	7,166.39	7,227.39	123.82	248.46	89.52	-1,305.40	-3,565.95	1,033.99	712.15	321.83	3.213		
11,600.00	7,226.79	7,165.79	7,226.79	126.56	248.43	89.46	-1,305.40	-3,565.95	1,117.23	798.45	318.78	3.505		
11,700.00	7,226.20	7,165.20	7,226.20	129.30	248.41	89.40	-1,305.40	-3,565.95	1,203.03	886.92	316.10	3.806		
11,800.00	7,225.60	7,164.60	7,225.60	132.05	248.39	89.34	-1,305.40	-3,565.95	1,290.87	977.10	313.77	4.114		
11,900.00	7,225.01	7,164.01	7,225.01	134.80	248.37	89.29	-1,305.40	-3,565.95	1,380.37	1,068.64	311.73	4.428		
12,000.00	7,224.41	7,163.41	7,224.41	137.56	248.35	89.23	-1,305.40	-3,565.95	1,471.22	1,161.28	309.94	4.747		
12,100.00	7,223.81	7,162.81	7,223.81	140.32	248.33	89.17	-1,305.40	-3,565.95	1,563.19	1,254.81	308.37	5.069		
12,200.00	7,223.22	7,162.22	7,223.22	143.08	248.31	89.11	-1,305.40	-3,565.95	1,656.09	1,349.09	306.99	5.395		
12,300.00	7,222.62	7,161.62	7,222.62	145.85	248.29	89.06	-1,305.40	-3,565.95	1,749.77	1,443.99	305.77	5.722		
12,400.00	7,222.03	7,161.03	7,222.03	148.62	248.27	89.00	-1,305.40	-3,565.95	1,844.11	1,539.42	304.69	6.052		
12,500.00	7,221.43	7,160.43	7,221.43	151.40	248.25	88.94	-1,305.40	-3,565.95	1,939.03	1,635.29	303.73	6.384		
12,600.00	7,220.83	7,159.83	7,220.83	154.18	248.23	88.88	-1,305.40	-3,565.95	2,034.43	1,731.55	302.87	6.717		
12,700.00	7,220.24	7,159.24	7,220.24	156.96	248.21	88.83	-1,305.40	-3,565.95	2,130.25	1,828.14	302.11	7.051		
12,800.00	7,219.64	7,158.64	7,219.64	159.74	248.18	88.77	-1,305.40	-3,565.95	2,226.44	1,925.02	301.41	7.387		
12,900.00	7,219.05	7,158.05	7,219.05	162.53	248.16	88.71	-1,305.40	-3,565.95	2,322.95	2,022.15	300.79	7.723		
13,000.00	7,218.45	7,157.45	7,218.45	165.32	248.14	88.66	-1,305.40	-3,565.95	2,419.74	2,119.51	300.23	8.060		
13,100.00	7,217.86	7,156.86	7,217.86	168.11	248.12	88.60	-1,305.40	-3,565.95	2,516.78	2,217.06	299.72	8.397		
13,200.00	7,217.26	7,156.26	7,217.26	170.90	248.10	88.54	-1,305.40	-3,565.95	2,614.05	2,314.79	299.26	8.735		
13,300.00	7,216.66	7,155.66	7,216.66	173.70	248.08	88.48	-1,305.40	-3,565.95	2,711.52	2,412.67	298.84	9.073		
13,400.00	7,216.07	7,155.07	7,216.07	176.49	248.06	88.43	-1,305.40	-3,565.95	2,809.16	2,510.70	298.46	9.412		
13,500.00	7,215.47	7,154.47	7,215.47	179.29	248.04	88.37	-1,305.40	-3,565.95	2,906.97	2,608.85	298.11	9.751		
13,600.00	7,214.88	7,153.88	7,214.88	182.09	248.02	88.31	-1,305.40	-3,565.95	3,004.91	2,707.12	297.79	10.091		
13,700.00	7,214.28	7,153.28	7,214.28	184.90	248.00	88.25	-1,305.40	-3,565.95	3,102.99	2,805.49	297.50	10.430		
13,800.00	7,213.68	7,152.68	7,213.68	187.70	247.98	88.20	-1,305.40	-3,565.95	3,201.19	2,903.96	297.23	10.770		
13,900.00	7,213.09	7,152.09	7,213.09	190.51	247.96	88.14	-1,305.40	-3,565.95	3,299.50	3,002.51	296.99	11.110		
14,000.00	7,212.49	7,151.49	7,212.49	193.32	247.94	88.08	-1,305.40	-3,565.95	3,397.90	3,101.14	296.76	11.450		
14,100.00	7,211.90	7,150.90	7,211.90	196.13	247.91	88.03	-1,305.40	-3,565.95	3,496.40	3,199.84	296.56	11.790		
14,200.00	7,211.30	7,150.30	7,211.30	198.94	247.89	87.97	-1,305.40	-3,565.95	3,594.97	3,298.61	296.37	12.130		
14,300.00	7,210.71	7,149.71	7,210.71	201.75	247.87	87.91	-1,305.40	-3,565.95	3,693.63	3,397.44	296.19	12.470		
14,400.00	7,210.11	7,149.11	7,210.11	204.56	247.85	87.85	-1,305.40	-3,565.95	3,792.35	3,496.32	296.03	12.811		
14,500.00	7,209.51	7,148.51	7,209.51	207.38	247.83	87.80	-1,305.40	-3,565.95	3,891.14	3,595.26	295.88	13.151		
14,600.00	7,208.92	7,147.92	7,208.92	210.19	247.81	87.74	-1,305.40	-3,565.95	3,989.99	3,694.25	295.74	13.491		
14,700.00	7,208.32	7,147.32	7,208.32	213.01	247.79	87.68	-1,305.40	-3,565.95	4,088.90	3,793.28	295.62	13.832		
14,800.00	7,207.73	7,146.73	7,207.73	215.83	247.77	87.62	-1,305.40	-3,565.95	4,187.86	3,892.35	295.50	14.172		
14,900.00	7,207.13	7,146.13	7,207.13	218.65	247.75	87.57	-1,305.40	-3,565.95	4,286.86	3,991.47	295.40	14.512		
15,000.00	7,206.53	7,145.53	7,206.53	221.47	247.73	87.51	-1,305.40	-3,565.95	4,385.91	4,090.61	295.30	14.852		
15,100.00	7,205.94	7,144.94	7,205.94	224.29	247.71	87.45	-1,305.40	-3,565.95	4,485.01	4,189.80	295.21	15.193		
15,200.00	7,205.34	7,144.34	7,205.34	227.11	247.69	87.40	-1,305.40	-3,565.95	4,584.14	4,289.01	295.13	15.533		
15,258.04	7,205.00	7,144.00	7,205.00	228.75	247.67	87.36	-1,305.40	-3,565.95	4,641.70	4,346.61	295.09	15.730		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	58.17	3.28	3.28	-90.59	-93.87	-9,142.87	9,143.53					
100.00	100.00	184.64	209.62	3.28	3.34	-90.58	-92.42	-9,141.30	9,142.43	9,135.80	6.62	1,380.678		
200.00	200.00	289.45	314.42	3.34	3.45	-90.58	-91.91	-9,139.97	9,141.14	9,134.36	6.79	1,346.758		
300.00	299.98	369.70	394.67	3.44	3.58	84.71	-91.73	-9,139.06	9,139.85	9,132.83	7.01	1,303.092		
400.00	399.84	464.97	489.93	3.59	3.76	84.77	-91.50	-9,138.10	9,138.35	9,131.00	7.35	1,243.587		
500.00	499.45	547.94	572.90	3.79	3.95	84.85	-91.28	-9,137.34	9,136.65	9,128.91	7.74	1,181.145		
600.00	598.70	624.38	649.33	4.03	4.15	84.94	-91.40	-9,136.81	9,134.86	9,126.69	8.17	1,117.768		
700.00	697.47	737.18	762.14	4.31	4.46	85.09	-91.55	-9,136.25	9,133.00	9,124.22	8.77	1,040.964		
800.00	795.62	845.25	870.20	4.64	4.80	85.27	-91.41	-9,135.42	9,130.59	9,121.16	9.43	968.153		
900.00	893.06	926.36	951.31	5.00	5.06	85.44	-91.28	-9,134.82	9,127.96	9,117.90	10.06	907.697		
1,000.00	989.65	984.00	1,008.95	5.40	5.26	85.58	-91.33	-9,134.50	9,125.34	9,114.70	10.65	857.112		
1,100.00	1,085.85	984.00	1,008.95	5.82	5.26	85.58	-91.33	-9,134.50	9,123.48	9,112.41	11.07	823.988		
1,200.00	1,182.06	1,045.19	1,070.14	6.27	5.46	85.68	-91.34	-9,134.72	9,121.99	9,110.27	11.72	778.353		
1,300.00	1,278.26	1,112.00	1,136.93	6.73	5.68	85.80	-91.10	-9,136.17	9,121.84	9,109.43	12.41	735.265		
1,342.79	1,319.43	1,112.00	1,136.93	6.93	5.68	85.80	-91.10	-9,136.17	9,121.74	9,109.13	12.61	723.485		
1,400.00	1,374.47	1,112.00	1,136.93	7.20	5.68	85.80	-91.10	-9,136.17	9,121.92	9,109.04	12.88	708.200		
1,500.00	1,470.67	1,112.00	1,136.93	7.69	5.68	85.80	-91.10	-9,136.17	9,123.09	9,109.73	13.36	682.629		
1,600.00	1,566.88	1,112.00	1,136.93	8.18	5.68	85.80	-91.10	-9,136.17	9,125.37	9,111.51	13.86	658.555		
1,700.00	1,663.08	1,172.92	1,197.80	8.68	5.89	85.90	-90.81	-9,138.66	9,127.92	9,113.36	14.56	626.987		
1,800.00	1,759.29	1,241.00	1,265.74	9.19	6.12	86.02	-90.58	-9,142.88	9,132.04	9,116.74	15.29	597.092		
1,900.00	1,855.49	1,241.00	1,265.74	9.70	6.12	86.02	-90.58	-9,142.88	9,136.23	9,120.43	15.80	578.207		
2,000.00	1,951.70	1,241.00	1,265.74	10.22	6.12	86.02	-90.58	-9,142.88	9,141.52	9,125.21	16.31	560.475		
2,100.00	2,047.90	1,241.00	1,265.74	10.73	6.12	86.02	-90.58	-9,142.88	9,147.90	9,131.08	16.82	543.825		
2,200.00	2,144.11	1,290.15	1,314.72	11.26	6.29	86.10	-90.46	-9,146.91	9,154.80	9,137.30	17.51	522.872		
2,300.00	2,240.31	1,312.74	1,337.21	11.78	6.37	86.14	-90.41	-9,149.04	9,162.72	9,144.62	18.10	506.140		
2,400.00	2,336.52	1,369.00	1,393.14	12.31	6.58	86.24	-90.26	-9,155.15	9,171.75	9,152.93	18.82	487.305		
2,500.00	2,432.72	1,369.00	1,393.14	12.84	6.58	86.24	-90.26	-9,155.15	9,181.13	9,161.80	19.33	474.856		
2,600.00	2,528.93	1,369.00	1,393.14	13.37	6.58	86.24	-90.26	-9,155.15	9,191.59	9,171.74	19.85	463.130		
2,700.00	2,625.13	1,369.00	1,393.14	13.91	6.58	86.24	-90.26	-9,155.15	9,203.12	9,182.76	20.36	452.077		
2,800.00	2,721.34	1,432.38	1,456.00	14.44	6.82	86.34	-90.32	-9,163.26	9,214.89	9,193.79	21.11	436.580		
2,900.00	2,817.54	1,498.00	1,520.90	14.98	7.07	86.45	-90.83	-9,172.96	9,228.11	9,206.24	21.87	421.931		
3,000.00	2,913.75	1,498.00	1,520.90	15.52	7.07	86.45	-90.83	-9,172.96	9,241.50	9,219.12	22.38	412.973		
3,100.00	3,009.95	1,498.00	1,520.90	16.06	7.07	86.45	-90.83	-9,172.96	9,255.96	9,233.08	22.88	404.504		
3,200.00	3,106.16	1,498.00	1,520.90	16.60	7.07	86.45	-90.83	-9,172.96	9,271.47	9,248.09	23.38	396.493		
3,300.00	3,202.37	1,553.75	1,575.86	17.14	7.30	86.54	-91.50	-9,182.27	9,287.34	9,263.24	24.11	385.229		
3,400.00	3,298.57	1,576.84	1,598.57	17.68	7.40	86.57	-91.81	-9,186.44	9,304.26	9,279.56	24.70	376.688		
3,500.00	3,394.78	1,626.00	1,646.80	18.22	7.60	86.65	-92.51	-9,195.89	9,322.14	9,296.74	25.40	367.027		
3,600.00	3,490.98	1,626.00	1,646.80	18.76	7.60	86.65	-92.51	-9,195.89	9,340.52	9,314.63	25.89	360.777		
3,700.00	3,587.19	1,626.00	1,646.80	19.31	7.60	86.65	-92.51	-9,195.89	9,359.93	9,333.55	26.38	354.850		
3,800.00	3,683.39	1,626.00	1,646.80	19.85	7.60	86.65	-92.51	-9,195.89	9,380.37	9,353.51	26.86	349.229		
3,900.00	3,779.60	1,688.41	1,707.79	20.39	7.89	86.75	-93.56	-9,209.10	9,400.92	9,373.30	27.61	340.450		
4,000.00	3,875.80	1,754.00	1,771.54	20.94	8.19	86.84	-94.92	-9,224.47	9,423.10	9,394.71	28.38	332.006		
4,100.00	3,972.01	1,754.00	1,771.54	21.48	8.19	86.84	-94.92	-9,224.47	9,445.29	9,416.43	28.86	327.321		
4,200.00	4,068.21	1,754.00	1,771.54	22.03	8.19	86.84	-94.92	-9,224.47	9,468.49	9,439.16	29.33	322.872		
4,300.00	4,164.42	1,754.00	1,771.54	22.57	8.19	86.84	-94.92	-9,224.47	9,492.68	9,462.89	29.79	318.646		
4,400.00	4,260.62	1,806.44	1,822.26	23.12	8.46	86.92	-96.03	-9,237.72	9,517.35	9,486.85	30.50	312.075		
4,500.00	4,356.83	1,832.92	1,847.81	23.67	8.60	86.96	-96.52	-9,244.67	9,542.87	9,511.79	31.08	307.040		
4,600.00	4,453.03	1,883.00	1,895.99	24.21	8.86	87.04	-97.32	-9,258.31	9,569.21	9,537.43	31.78	301.153		
4,700.00	4,549.24	1,883.00	1,895.99	24.76	8.86	87.04	-97.32	-9,258.31	9,596.05	9,563.83	32.22	297.783		
4,800.00	4,645.44	1,883.00	1,895.99	25.31	8.86	87.04	-97.32	-9,258.31	9,623.86	9,591.19	32.67	294.582		
4,900.00	4,741.65	1,946.90	1,957.23	25.86	9.23	87.13	-98.29	-9,276.54	9,651.98	9,618.55	33.43	288.715		
5,000.00	4,837.85	2,011.00	2,018.39	26.40	9.60	87.22	-99.34	-9,295.68	9,681.11	9,646.92	34.20	283.110		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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   17-07D(PR_75CC) - OH - OH		Offset Site Error: 0.00 ft	
Survey Program: 78-MWD													Offset Well Error: 3.28 ft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
5,100.00	4,934.06	2,011.00	2,018.39	26.95	9.60	87.22	-99.34	-9,295.68	9,710.54	9,675.91	34.63	280.413				
5,200.00	5,030.26	2,048.46	2,054.03	27.50	9.83	87.28	-99.97	-9,307.19	9,740.75	9,705.49	35.26	276.286				
5,300.00	5,126.47	2,090.82	2,094.27	28.05	10.10	87.34	-100.68	-9,320.41	9,771.49	9,735.58	35.91	272.130				
5,400.00	5,222.67	2,412.99	2,400.89	28.60	12.23	87.80	-105.33	-9,419.17	9,802.63	9,764.53	38.10	257.307				
5,500.00	5,318.88	2,440.76	2,427.39	29.15	12.43	87.84	-105.76	-9,427.43	9,831.92	9,793.23	38.68	254.161				
5,600.00	5,415.08	2,484.42	2,469.03	29.70	12.73	87.90	-106.40	-9,440.56	9,861.72	9,822.37	39.36	250.571				
5,700.00	5,511.29	2,525.00	2,507.67	30.25	13.01	87.96	-106.93	-9,452.93	9,892.04	9,852.03	40.01	247.232				
5,800.00	5,607.49	2,579.80	2,559.79	30.79	13.41	88.04	-107.47	-9,469.86	9,922.83	9,882.08	40.75	243.522				
5,900.00	5,703.70	2,630.89	2,608.32	31.34	13.78	88.11	-107.73	-9,485.83	9,954.04	9,912.58	41.46	240.082				
6,000.00	5,799.90	2,653.00	2,629.30	31.89	13.94	88.15	-107.78	-9,492.79	9,985.77	9,943.77	42.00	237.736				
7,600.00	7,194.95	7,088.74	6,939.62	39.71	39.92	36.81	-135.06	-10,305.62	9,944.91	9,873.41	71.50	139.087				
7,700.00	7,227.43	7,123.37	6,974.23	40.01	40.05	43.56	-135.66	-10,306.63	9,855.02	9,783.13	71.89	137.091				
7,800.00	7,245.37	7,143.72	6,994.57	40.37	40.12	59.33	-135.95	-10,307.22	9,760.00	9,687.84	72.17	135.240				
7,900.00	7,248.84	7,152.81	7,003.66	40.87	40.16	84.03	-136.07	-10,307.48	9,662.22	9,589.86	72.36	133.526				
8,000.00	7,248.24	7,157.12	7,007.96	41.62	40.17	84.17	-136.13	-10,307.60	9,564.01	9,491.48	72.53	131.861				
8,100.00	7,247.65	7,161.33	7,012.17	42.66	40.19	84.30	-136.18	-10,307.72	9,465.85	9,393.13	72.71	130.184				
8,200.00	7,247.05	7,165.45	7,016.29	43.96	40.20	84.43	-136.23	-10,307.83	9,367.72	9,294.81	72.90	128.495				
8,300.00	7,246.46	7,169.48	7,020.32	45.46	40.22	84.55	-136.28	-10,307.94	9,269.63	9,196.52	73.11	126.794				
8,400.00	7,245.86	7,173.42	7,024.26	47.13	40.23	84.68	-136.33	-10,308.05	9,171.57	9,098.25	73.32	125.082				
8,500.00	7,245.27	7,177.28	7,028.11	48.93	40.24	84.80	-136.38	-10,308.15	9,073.57	9,000.01	73.55	123.359				
8,600.00	7,244.67	7,181.05	7,031.89	50.84	40.26	84.92	-136.42	-10,308.25	8,975.60	8,901.80	73.80	121.624				
8,700.00	7,244.07	7,184.75	7,035.58	52.85	40.27	85.03	-136.47	-10,308.35	8,877.68	8,803.62	74.06	119.878				
8,800.00	7,243.48	7,188.37	7,039.20	54.94	40.28	85.15	-136.51	-10,308.44	8,779.80	8,705.48	74.33	118.121				
8,900.00	7,242.88	7,191.92	7,042.75	57.10	40.30	85.26	-136.55	-10,308.54	8,681.98	8,607.36	74.62	116.354				
9,000.00	7,242.29	7,195.40	7,046.22	59.32	40.31	85.37	-136.59	-10,308.63	8,584.20	8,509.28	74.92	114.576				
9,100.00	7,241.69	7,198.80	7,049.63	61.60	40.32	85.48	-136.63	-10,308.71	8,486.47	8,411.23	75.24	112.787				
9,200.00	7,241.09	7,202.14	7,052.97	63.92	40.33	85.58	-136.67	-10,308.80	8,388.80	8,313.21	75.58	110.989				
9,300.00	7,240.50	7,205.41	7,056.24	66.29	40.34	85.69	-136.70	-10,308.88	8,291.18	8,215.24	75.94	109.182				
9,400.00	7,239.90	7,208.62	7,059.45	68.70	40.36	85.79	-136.74	-10,308.96	8,193.61	8,117.30	76.32	107.365				
9,500.00	7,239.31	7,211.77	7,062.60	71.14	40.37	85.89	-136.77	-10,309.04	8,096.11	8,019.40	76.71	105.539				
9,600.00	7,238.71	7,214.86	7,065.68	73.61	40.38	85.98	-136.81	-10,309.12	7,998.66	7,921.54	77.13	103.706				
9,700.00	7,238.11	7,217.89	7,068.71	76.11	40.39	86.08	-136.84	-10,309.19	7,901.28	7,823.72	77.57	101.865				
9,800.00	7,237.52	7,220.86	7,071.68	78.64	40.40	86.17	-136.87	-10,309.26	7,803.97	7,725.94	78.03	100.016				
9,900.00	7,236.92	7,223.78	7,074.60	81.19	40.41	86.27	-136.90	-10,309.33	7,706.72	7,628.21	78.51	98.162				
10,000.00	7,236.33	7,226.65	7,077.46	83.75	40.42	86.36	-136.93	-10,309.40	7,609.54	7,530.53	79.02	96.301				
10,100.00	7,235.73	7,229.46	7,080.28	86.34	40.43	86.45	-136.96	-10,309.47	7,512.44	7,432.89	79.55	94.435				
10,200.00	7,235.14	7,232.22	7,083.04	88.94	40.44	86.53	-136.99	-10,309.53	7,415.41	7,335.30	80.11	92.565				
10,300.00	7,234.54	7,234.93	7,085.75	91.56	40.45	86.62	-137.01	-10,309.60	7,318.47	7,237.77	80.70	90.691				
10,400.00	7,233.94	7,237.60	7,088.41	94.19	40.46	86.70	-137.04	-10,309.66	7,221.60	7,140.29	81.31	88.814				
10,500.00	7,233.35	7,240.22	7,091.03	96.84	40.47	86.79	-137.07	-10,309.72	7,124.82	7,042.87	81.96	86.936				
10,600.00	7,232.75	7,242.79	7,093.60	99.50	40.48	86.87	-137.09	-10,309.78	7,028.14	6,945.51	82.63	85.056				
10,700.00	7,232.16	7,245.32	7,096.13	102.17	40.49	86.95	-137.12	-10,309.84	6,931.54	6,848.20	83.34	83.176				
10,800.00	7,231.56	7,247.80	7,098.61	104.85	40.50	87.03	-137.14	-10,309.89	6,835.04	6,750.97	84.08	81.296				
10,900.00	7,230.96	7,250.24	7,101.05	107.53	40.51	87.10	-137.16	-10,309.95	6,738.64	6,653.79	84.85	79.418				
11,000.00	7,230.37	7,252.64	7,103.45	110.23	40.51	87.18	-137.19	-10,310.00	6,642.35	6,556.69	85.66	77.543				
11,100.00	7,229.77	7,255.01	7,105.81	112.93	40.52	87.25	-137.21	-10,310.06	6,546.17	6,459.67	86.51	75.672				
11,200.00	7,229.18	7,257.33	7,108.14	115.65	40.53	87.33	-137.23	-10,310.11	6,450.11	6,362.71	87.39	73.805				
11,300.00	7,228.58	7,259.61	7,110.42	118.37	40.54	87.40	-137.25	-10,310.16	6,354.16	6,265.84	88.32	71.944				
11,400.00	7,227.99	7,261.86	7,112.67	121.09	40.55	87.47	-137.27	-10,310.21	6,258.35	6,169.06	89.29	70.090				
11,500.00	7,227.39	7,264.07	7,114.88	123.82	40.55	87.54	-137.29	-10,310.25	6,162.66	6,072.36	90.30	68.244				
11,600.00	7,226.79	7,266.25	7,117.05	126.56	40.56	87.61	-137.31	-10,310.30	6,067.11	5,975.75	91.36	66.406				
11,700.00	7,226.20	7,268.39	7,119.19	129.30	40.57	87.68	-137.33	-10,310.35	5,971.71	5,879.24	92.47	64.579				

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
11,800.00	7,225.60	7,270.49	7,121.30	132.05	40.58	87.75	-137.35	-10,310.39	5,876.46	5,782.84	93.63	62.764		
11,900.00	7,225.01	7,272.57	7,123.37	134.80	40.59	87.81	-137.36	-10,310.44	5,781.37	5,686.54	94.84	60.961		
12,000.00	7,224.41	7,274.61	7,125.41	137.56	40.59	87.88	-137.38	-10,310.48	5,686.45	5,590.35	96.10	59.171		
12,100.00	7,223.81	7,276.68	7,127.48	140.32	40.60	87.94	-137.40	-10,310.52	5,591.71	5,494.29	97.42	57.396		
12,200.00	7,223.22	7,278.82	7,129.63	143.08	40.61	88.01	-137.42	-10,310.57	5,497.15	5,398.34	98.80	55.636		
12,300.00	7,222.62	7,280.94	7,131.74	145.85	40.62	88.08	-137.44	-10,310.61	5,402.79	5,302.54	100.25	53.894		
12,400.00	7,222.03	7,283.02	7,133.82	148.62	40.62	88.14	-137.45	-10,310.66	5,308.63	5,206.87	101.76	52.170		
12,500.00	7,221.43	7,285.06	7,135.86	151.40	40.63	88.21	-137.47	-10,310.70	5,214.69	5,111.35	103.33	50.464		
12,600.00	7,220.83	7,287.07	7,137.87	154.18	40.64	88.27	-137.49	-10,310.74	5,120.97	5,015.99	104.98	48.780		
12,700.00	7,220.24	7,289.05	7,139.85	156.96	40.64	88.33	-137.50	-10,310.78	5,027.50	4,920.80	106.70	47.116		
12,800.00	7,219.64	7,291.00	7,141.80	159.74	40.65	88.40	-137.52	-10,310.82	4,934.29	4,825.78	108.51	45.475		
12,900.00	7,219.05	7,292.92	7,143.72	162.53	40.66	88.46	-137.54	-10,310.86	4,841.34	4,730.95	110.39	43.857		
13,000.00	7,218.45	7,294.80	7,145.60	165.32	40.66	88.52	-137.55	-10,310.89	4,748.69	4,636.33	112.36	42.264		
13,100.00	7,217.86	7,296.66	7,147.46	168.11	40.67	88.58	-137.57	-10,310.93	4,656.33	4,541.91	114.42	40.696		
13,200.00	7,217.26	7,298.49	7,149.29	170.90	40.68	88.63	-137.58	-10,310.97	4,564.30	4,447.72	116.57	39.154		
13,300.00	7,216.66	7,300.29	7,151.09	173.70	40.68	88.69	-137.60	-10,311.00	4,472.60	4,353.78	118.83	37.639		
13,400.00	7,216.07	7,302.07	7,152.86	176.49	40.69	88.75	-137.61	-10,311.04	4,381.27	4,260.09	121.19	36.153		
13,500.00	7,215.47	7,303.81	7,154.61	179.29	40.70	88.80	-137.63	-10,311.07	4,290.33	4,166.67	123.66	34.695		
13,600.00	7,214.88	7,305.54	7,156.33	182.09	40.70	88.86	-137.64	-10,311.11	4,199.80	4,073.56	126.24	33.268		
13,700.00	7,214.28	7,307.23	7,158.03	184.90	40.71	88.91	-137.66	-10,311.14	4,109.70	3,980.75	128.95	31.871		
13,800.00	7,213.68	7,308.90	7,159.70	187.70	40.71	88.96	-137.67	-10,311.17	4,020.08	3,888.29	131.78	30.505		
13,900.00	7,213.09	7,310.55	7,161.34	190.51	40.72	89.02	-137.68	-10,311.20	3,930.95	3,796.20	134.75	29.171		
14,000.00	7,212.49	7,312.17	7,162.96	193.32	40.72	89.07	-137.70	-10,311.23	3,842.36	3,704.49	137.87	27.870		
14,100.00	7,211.90	7,313.77	7,164.56	196.13	40.73	89.12	-137.71	-10,311.26	3,754.34	3,613.21	141.13	26.602		
14,200.00	7,211.30	7,315.35	7,166.14	198.94	40.74	89.17	-137.72	-10,311.29	3,666.94	3,522.39	144.55	25.369		
14,300.00	7,210.71	7,316.90	7,167.69	201.75	40.74	89.22	-137.74	-10,311.32	3,580.19	3,432.06	148.13	24.169		
14,400.00	7,210.11	7,318.43	7,169.22	204.56	40.75	89.27	-137.75	-10,311.35	3,494.15	3,342.27	151.89	23.005		
14,500.00	7,209.51	7,319.94	7,170.73	207.38	40.75	89.32	-137.76	-10,311.38	3,408.88	3,253.05	155.82	21.877		
14,600.00	7,208.92	7,321.43	7,172.22	210.19	40.76	89.36	-137.77	-10,311.40	3,324.42	3,164.47	159.95	20.784		
14,700.00	7,208.32	7,322.90	7,173.69	213.01	40.76	89.41	-137.79	-10,311.43	3,240.85	3,076.57	164.28	19.728		
14,800.00	7,207.73	7,324.35	7,175.14	215.83	40.77	89.46	-137.80	-10,311.46	3,158.23	2,989.42	168.81	18.708		
14,900.00	7,207.13	7,325.78	7,176.57	218.65	40.77	89.50	-137.81	-10,311.48	3,076.64	2,903.08	173.57	17.726		
15,000.00	7,206.53	7,327.19	7,177.98	221.47	40.78	89.55	-137.82	-10,311.51	2,996.17	2,817.63	178.54	16.781		
15,100.00	7,205.94	7,328.58	7,179.37	224.29	40.78	89.59	-137.83	-10,311.53	2,916.91	2,733.15	183.75	15.874		
15,200.00	7,205.34	7,329.95	7,180.74	227.11	40.79	89.63	-137.85	-10,311.56	2,838.96	2,649.75	189.20	15.005		
15,258.04	7,205.00	7,330.74	7,181.53	228.75	40.79	89.66	-137.85	-10,311.57	2,794.35	2,601.87	192.48	14.518 CC, ES, SF		



# Anticollision Report



<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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												Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	38.00	3.28	3.28	-90.25	-39.46	-9,145.84	9,146.00				
100.00	100.00	62.00	100.00	3.28	3.45	-90.25	-39.46	-9,145.84	9,145.92	9,139.18	6.74	1,357.234	
200.00	200.00	162.00	200.00	3.34	5.10	-90.25	-39.46	-9,145.84	9,145.92	9,137.48	8.44	1,083.570	
300.00	299.98	261.98	299.98	3.44	8.09	85.01	-39.46	-9,145.84	9,145.77	9,134.23	11.53	792.951	
400.00	399.84	361.84	399.84	3.59	11.37	85.05	-39.46	-9,145.84	9,145.31	9,130.36	14.96	611.400	
500.00	499.45	461.45	499.45	3.79	14.73	85.12	-39.46	-9,145.84	9,144.57	9,126.05	18.52	493.776	
600.00	598.70	560.70	598.70	4.03	18.13	85.22	-39.46	-9,145.84	9,143.53	9,121.38	22.16	412.673	
700.00	697.47	659.47	697.47	4.31	21.53	85.34	-39.46	-9,145.84	9,142.23	9,116.39	25.84	353.781	
800.00	795.62	757.62	795.62	4.64	24.92	85.49	-39.46	-9,145.84	9,140.68	9,111.12	29.56	309.250	
900.00	893.06	855.06	893.06	5.00	28.30	85.66	-39.46	-9,145.84	9,138.90	9,105.60	33.29	274.492	
1,000.00	989.65	951.65	989.65	5.40	31.65	85.86	-39.46	-9,145.84	9,136.92	9,099.87	37.04	246.666	
1,100.00	1,085.85	1,047.85	1,085.85	5.82	34.99	86.02	-39.46	-9,145.84	9,134.91	9,094.10	40.81	223.847	
1,200.00	1,182.06	1,144.06	1,182.06	6.27	38.33	86.18	-39.46	-9,145.84	9,132.98	9,088.38	44.60	204.781	
1,300.00	1,278.26	1,240.26	1,278.26	6.73	41.68	86.35	-39.46	-9,145.84	9,131.13	9,082.72	48.41	188.632	
1,400.00	1,374.47	1,336.47	1,374.47	7.20	45.03	86.51	-39.46	-9,145.84	9,129.37	9,077.14	52.23	174.791	
1,500.00	1,470.67	1,432.67	1,470.67	7.69	48.38	86.68	-39.46	-9,145.84	9,127.68	9,071.62	56.06	162.806	
1,600.00	1,566.88	1,528.88	1,566.88	8.18	51.73	86.84	-39.46	-9,145.84	9,126.08	9,066.17	59.91	152.331	
1,700.00	1,663.08	1,625.08	1,663.08	8.68	55.08	87.01	-39.46	-9,145.84	9,124.56	9,060.79	63.76	143.102	
1,800.00	1,759.29	1,721.29	1,759.29	9.19	58.44	87.17	-39.46	-9,145.84	9,123.12	9,055.49	67.62	134.913	
1,900.00	1,855.49	1,817.49	1,855.49	9.70	61.79	87.34	-39.46	-9,145.84	9,121.76	9,050.27	71.49	127.600	
2,000.00	1,951.70	1,913.70	1,951.70	10.22	65.14	87.50	-39.46	-9,145.84	9,120.48	9,045.12	75.36	121.030	
2,100.00	2,047.90	2,009.90	2,047.90	10.73	68.50	87.66	-39.46	-9,145.84	9,119.28	9,040.05	79.23	115.096	
2,200.00	2,144.11	2,106.11	2,144.11	11.26	71.85	87.83	-39.46	-9,145.84	9,118.17	9,035.06	83.11	109.712	
2,300.00	2,240.31	2,202.31	2,240.31	11.78	75.21	87.99	-39.46	-9,145.84	9,117.13	9,030.14	86.99	104.806	
2,400.00	2,336.52	2,301.48	2,336.52	12.31	78.67	88.16	-39.46	-9,145.84	9,116.18	9,025.20	90.98	100.202	
2,500.00	2,432.72	2,405.28	2,432.72	12.84	82.29	88.32	-39.46	-9,145.84	9,115.31	9,020.18	95.13	95.821	
2,600.00	2,528.93	2,509.07	2,528.93	13.37	85.91	88.49	-39.46	-9,145.84	9,114.52	9,015.24	99.28	91.805	
2,700.00	2,625.13	2,587.13	2,625.13	13.91	88.63	88.65	-39.46	-9,145.84	9,113.82	9,011.28	102.54	88.882	
2,800.00	2,721.34	2,683.34	2,721.34	14.44	91.99	88.82	-39.46	-9,145.84	9,113.19	9,006.76	106.43	85.626	
2,900.00	2,817.54	2,779.54	2,817.54	14.98	95.35	88.98	-39.46	-9,145.84	9,112.65	9,002.33	110.32	82.599	
3,000.00	2,913.75	2,875.75	2,913.75	15.52	98.70	89.15	-39.46	-9,145.84	9,112.19	8,997.97	114.22	79.779	
3,100.00	3,009.95	2,971.95	3,009.95	16.06	102.06	89.31	-39.46	-9,145.84	9,111.81	8,993.69	118.11	77.144	
3,200.00	3,106.16	3,068.16	3,106.16	16.60	105.42	89.48	-39.46	-9,145.84	9,111.51	8,989.50	122.01	74.678	
3,300.00	3,202.37	3,164.37	3,202.37	17.14	108.77	89.64	-39.46	-9,145.84	9,111.29	8,985.38	125.91	72.365	
3,400.00	3,298.57	3,260.57	3,298.57	17.68	112.13	89.81	-39.46	-9,145.84	9,111.16	8,981.35	129.81	70.190	
3,500.00	3,394.78	3,356.78	3,394.78	18.22	115.49	89.97	-39.46	-9,145.84	9,111.10	8,977.40	133.71	68.143	
3,515.25	3,409.44	3,371.44	3,409.44	18.30	116.00	90.00	-39.46	-9,145.84	9,111.10	8,976.80	134.30	67.841	
3,600.00	3,490.98	3,452.98	3,490.98	18.76	118.84	90.14	-39.46	-9,145.84	9,111.13	8,973.53	137.61	66.212	
3,700.00	3,587.19	3,549.19	3,587.19	19.31	122.20	90.30	-39.46	-9,145.84	9,111.24	8,969.74	141.51	64.388	
3,800.00	3,683.39	3,645.39	3,683.39	19.85	125.56	90.47	-39.46	-9,145.84	9,111.43	8,966.03	145.41	62.662	
3,900.00	3,779.60	3,741.60	3,779.60	20.39	128.92	90.64	-39.46	-9,145.84	9,111.71	8,962.40	149.31	61.026	
4,000.00	3,875.80	3,837.80	3,875.80	20.94	132.27	90.80	-39.46	-9,145.84	9,112.06	8,958.85	153.21	59.474	
4,100.00	3,972.01	3,934.01	3,972.01	21.48	135.63	90.97	-39.46	-9,145.84	9,112.50	8,955.39	157.11	58.000	
4,200.00	4,068.21	4,030.21	4,068.21	22.03	138.99	91.13	-39.46	-9,145.84	9,113.02	8,952.00	161.02	56.597	
4,300.00	4,164.42	4,126.42	4,164.42	22.57	142.35	91.30	-39.46	-9,145.84	9,113.62	8,948.70	164.92	55.261	
4,400.00	4,260.62	4,222.62	4,260.62	23.12	145.70	91.46	-39.46	-9,145.84	9,114.30	8,945.48	168.82	53.987	
4,500.00	4,356.83	4,318.83	4,356.83	23.67	149.06	91.63	-39.46	-9,145.84	9,115.06	8,942.34	172.73	52.771	
4,600.00	4,453.03	4,415.03	4,453.03	24.21	152.42	91.79	-39.46	-9,145.84	9,115.91	8,939.28	176.63	51.610	
4,700.00	4,549.24	4,511.24	4,549.24	24.76	155.78	91.96	-39.46	-9,145.84	9,116.84	8,936.30	180.54	50.499	
4,800.00	4,645.44	4,607.44	4,645.44	25.31	159.13	92.12	-39.46	-9,145.84	9,117.84	8,933.40	184.44	49.435	
4,900.00	4,741.65	4,703.65	4,741.65	25.86	162.49	92.28	-39.46	-9,145.84	9,118.93	8,930.59	188.35	48.416	
5,000.00	4,837.85	4,800.15	4,837.85	26.40	165.86	92.45	-39.46	-9,145.84	9,120.11	8,927.84	192.26	47.436	

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	4,903.94	4,934.06	26.95	169.48	92.61	-39.46	-9,145.84	9,121.36	8,924.93	196.43	46.435		
5,200.00	5,030.26	5,007.74	5,030.26	27.50	173.11	92.78	-39.46	-9,145.84	9,122.69	8,922.09	200.60	45.477		
5,300.00	5,126.47	5,088.47	5,126.47	28.05	175.92	92.94	-39.46	-9,145.84	9,124.11	8,920.14	203.97	44.733		
5,400.00	5,222.67	5,184.67	5,222.67	28.60	179.28	93.11	-39.46	-9,145.84	9,125.61	8,917.73	207.87	43.900		
5,500.00	5,318.88	5,280.88	5,318.88	29.15	182.64	93.27	-39.46	-9,145.84	9,127.18	8,915.41	211.78	43.098		
5,600.00	5,415.08	5,377.08	5,415.08	29.70	186.00	93.44	-39.46	-9,145.84	9,128.84	8,913.16	215.68	42.325		
5,700.00	5,511.29	5,473.29	5,511.29	30.25	189.36	93.60	-39.46	-9,145.84	9,130.58	8,910.99	219.59	41.580		
5,800.00	5,607.49	5,569.49	5,607.49	30.79	192.71	93.77	-39.46	-9,145.84	9,132.41	8,908.91	223.50	40.862		
5,900.00	5,703.70	5,665.70	5,703.70	31.34	196.07	93.93	-39.46	-9,145.84	9,134.31	8,906.91	227.40	40.168		
6,000.00	5,799.90	5,761.90	5,799.90	31.89	199.43	94.09	-39.46	-9,145.84	9,136.29	8,904.99	231.31	39.498		
6,100.00	5,896.11	5,858.11	5,896.11	32.44	202.79	94.26	-39.46	-9,145.84	9,138.36	8,903.15	235.21	38.851		
6,200.00	5,992.32	5,954.32	5,992.32	32.99	206.15	94.42	-39.46	-9,145.84	9,140.51	8,901.39	239.12	38.226		
6,300.00	6,088.52	6,050.52	6,088.52	33.54	209.50	94.59	-39.46	-9,145.84	9,142.73	8,899.71	243.03	37.620		
6,400.00	6,184.73	6,146.73	6,184.73	34.09	212.86	94.75	-39.46	-9,145.84	9,145.04	8,898.11	246.93	37.035		
6,500.00	6,280.93	6,242.93	6,280.93	34.64	216.22	94.92	-39.46	-9,145.84	9,147.43	8,896.59	250.84	36.468		
6,600.00	6,377.14	6,339.14	6,377.14	35.19	219.58	95.08	-39.46	-9,145.84	9,149.90	8,895.16	254.74	35.918		
6,700.00	6,473.34	6,435.34	6,473.34	35.74	222.94	95.24	-39.46	-9,145.84	9,152.45	8,893.80	258.65	35.386		
6,800.00	6,569.55	6,531.55	6,569.55	36.29	226.29	95.41	-39.46	-9,145.84	9,155.08	8,892.53	262.56	34.869		
6,900.00	6,665.75	6,627.75	6,665.75	36.84	229.65	95.57	-39.46	-9,145.84	9,157.77	8,891.16	266.46	34.368		
7,000.00	6,761.96	6,723.96	6,761.96	37.39	233.01	95.73	-39.46	-9,145.84	9,160.51	8,889.91	270.33	33.849		
7,100.00	6,858.16	6,820.16	6,858.16	37.94	236.37	95.89	-39.46	-9,145.84	9,163.30	8,888.74	274.19	33.307		
7,200.00	6,954.37	6,916.37	6,954.37	38.49	239.73	96.05	-39.46	-9,145.84	9,166.14	8,887.64	278.04	32.755		
7,300.00	7,050.57	7,012.57	7,050.57	39.04	243.09	96.21	-39.46	-9,145.84	9,169.03	8,886.60	281.89	32.203		
7,400.00	7,146.78	7,108.78	7,146.78	39.59	246.45	96.37	-39.46	-9,145.84	9,171.97	8,885.63	285.74	31.662		
7,500.00	7,242.98	7,204.98	7,242.98	40.14	249.81	96.53	-39.46	-9,145.84	9,174.96	8,884.72	289.59	31.141		
7,600.00	7,339.19	7,301.19	7,339.19	40.69	253.17	96.69	-39.46	-9,145.84	9,178.00	8,883.86	293.44	30.648		
7,700.00	7,435.39	7,397.39	7,435.39	41.24	256.53	96.85	-39.46	-9,145.84	9,181.09	8,883.05	297.29	30.191		
7,800.00	7,531.60	7,493.60	7,531.60	41.79	259.89	97.01	-39.46	-9,145.84	9,184.23	8,882.29	301.14	29.778		
7,900.00	7,627.80	7,589.80	7,627.80	42.34	263.25	97.17	-39.46	-9,145.84	9,187.42	8,881.58	304.99	29.412		
8,000.00	7,724.01	7,686.01	7,724.01	42.89	266.61	97.33	-39.46	-9,145.84	9,190.66	8,880.91	308.84	29.061		
8,100.00	7,820.21	7,782.21	7,820.21	43.44	270.00	97.49	-39.46	-9,145.84	9,193.95	8,880.29	312.69	28.708		
8,200.00	7,916.42	7,878.42	7,916.42	43.99	273.36	97.65	-39.46	-9,145.84	9,197.29	8,879.72	316.54	28.355		
8,300.00	8,012.62	7,974.62	8,012.62	44.54	276.72	97.81	-39.46	-9,145.84	9,200.68	8,879.19	320.39	28.001		
8,400.00	8,108.83	8,070.83	8,108.83	45.09	280.08	97.97	-39.46	-9,145.84	9,204.12	8,878.70	324.24	27.645		
8,500.00	8,205.03	8,167.03	8,205.03	45.64	283.44	98.13	-39.46	-9,145.84	9,207.61	8,878.25	328.09	27.289		
8,600.00	8,301.24	8,263.24	8,301.24	46.19	286.80	98.29	-39.46	-9,145.84	9,211.15	8,877.84	331.94	26.932		
8,700.00	8,397.44	8,359.44	8,397.44	46.74	290.16	98.45	-39.46	-9,145.84	9,214.74	8,877.47	335.79	26.573		
8,800.00	8,493.65	8,455.65	8,493.65	47.29	293.52	98.61	-39.46	-9,145.84	9,218.38	8,877.14	339.64	26.214		
8,900.00	8,589.85	8,551.85	8,589.85	47.84	296.88	98.77	-39.46	-9,145.84	9,222.07	8,876.85	343.49	25.854		
9,000.00	8,686.06	8,648.06	8,686.06	48.39	300.24	98.93	-39.46	-9,145.84	9,225.81	8,876.59	347.34	25.493		
9,100.00	8,782.26	8,744.26	8,782.26	48.94	303.60	99.09	-39.46	-9,145.84	9,229.60	8,876.36	351.19	25.131		
9,200.00	8,878.47	8,840.47	8,878.47	49.49	306.96	99.25	-39.46	-9,145.84	9,233.44	8,876.16	355.04	24.768		
9,300.00	8,974.67	8,936.67	8,974.67	50.04	310.32	99.41	-39.46	-9,145.84	9,237.33	8,875.99	358.89	24.404		
9,400.00	9,070.88	9,032.88	9,070.88	50.59	313.68	99.57	-39.46	-9,145.84	9,241.27	8,875.85	362.74	24.039		
9,500.00	9,167.08	9,129.08	9,167.08	51.14	317.04	99.73	-39.46	-9,145.84	9,245.26	8,875.74	366.59	23.674		
9,600.00	9,263.29	9,225.29	9,263.29	51.69	320.40	99.89	-39.46	-9,145.84	9,249.30	8,875.66	370.44	23.307		
9,700.00	9,359.49	9,321.49	9,359.49	52.24	323.76	99.99	-39.46	-9,145.84	9,253.39	8,875.61	374.29	22.940		
9,800.00	9,455.70	9,417.70	9,455.70	52.79	327.12	100.00	-39.46	-9,145.84	9,257.53	8,875.59	378.14	22.569		
9,900.00	9,551.90	9,513.90	9,551.90	53.34	330.48	100.00	-39.46	-9,145.84	9,261.72	8,875.59	381.99	22.198		
10,000.00	9,648.11	9,610.11	9,648.11	53.89	333.84	100.00	-39.46	-9,145.84	9,265.96	8,875.61	385.84	21.825		
10,100.00	9,744.31	9,706.31	9,744.31	54.44	337.20	100.00	-39.46	-9,145.84	9,270.25	8,875.66	389.69	21.453		
10,200.00	9,840.52	9,802.52	9,840.52	54.99	340.56	100.00	-39.46	-9,145.84	9,274.59	8,875.74	393.54	21.079		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
10,300.00	7,234.54	7,203.46	7,234.54	91.56	249.75	91.07	-39.46	-9,145.84	6,222.22	5,921.71	300.51	20.706		
10,400.00	7,233.94	7,204.06	7,233.94	94.19	249.77	91.05	-39.46	-9,145.84	6,127.04	5,825.68	301.36	20.332		
10,500.00	7,233.35	7,204.65	7,233.35	96.84	249.79	91.03	-39.46	-9,145.84	6,032.02	5,729.77	302.25	19.957		
10,600.00	7,232.75	7,205.25	7,232.75	99.50	249.81	91.01	-39.46	-9,145.84	5,937.16	5,633.98	303.18	19.583		
10,700.00	7,232.16	7,205.84	7,232.16	102.17	249.83	91.00	-39.46	-9,145.84	5,842.47	5,538.31	304.17	19.208		
10,800.00	7,231.56	7,206.44	7,231.56	104.85	249.85	90.98	-39.46	-9,145.84	5,747.97	5,442.76	305.20	18.833		
10,900.00	7,230.96	7,207.04	7,230.96	107.53	249.87	90.96	-39.46	-9,145.84	5,653.65	5,347.36	306.29	18.459		
11,000.00	7,230.37	7,207.63	7,230.37	110.23	249.89	90.94	-39.46	-9,145.84	5,559.53	5,252.10	307.43	18.084		
11,100.00	7,229.77	7,208.23	7,229.77	112.93	249.92	90.92	-39.46	-9,145.84	5,465.62	5,156.99	308.62	17.710		
11,200.00	7,229.18	7,208.82	7,229.18	115.65	249.94	90.91	-39.46	-9,145.84	5,371.92	5,062.05	309.88	17.336		
11,300.00	7,228.58	7,209.42	7,228.58	118.37	249.96	90.89	-39.46	-9,145.84	5,278.46	4,967.27	311.20	16.962		
11,400.00	7,227.99	7,189.99	7,227.99	121.09	249.28	90.87	-39.46	-9,145.84	5,185.25	4,873.37	311.88	16.626		
11,500.00	7,227.39	7,189.39	7,227.39	123.82	249.26	90.85	-39.46	-9,145.84	5,092.29	4,779.00	313.29	16.254		
11,600.00	7,226.79	7,188.79	7,226.79	126.56	249.24	90.83	-39.46	-9,145.84	4,999.60	4,684.84	314.76	15.884		
11,700.00	7,226.20	7,188.20	7,226.20	129.30	249.22	90.82	-39.46	-9,145.84	4,907.20	4,590.89	316.31	15.514		
11,800.00	7,225.60	7,187.60	7,225.60	132.05	249.20	90.80	-39.46	-9,145.84	4,815.11	4,497.16	317.94	15.145		
11,900.00	7,225.01	7,187.01	7,225.01	134.80	249.17	90.78	-39.46	-9,145.84	4,723.33	4,403.68	319.65	14.776		
12,000.00	7,224.41	7,186.41	7,224.41	137.56	249.15	90.76	-39.46	-9,145.84	4,631.90	4,310.45	321.44	14.410		
12,100.00	7,223.81	7,185.81	7,223.81	140.32	249.13	90.74	-39.46	-9,145.84	4,540.82	4,217.50	323.33	14.044		
12,200.00	7,223.22	7,185.22	7,223.22	143.08	249.11	90.73	-39.46	-9,145.84	4,450.13	4,124.83	325.30	13.680		
12,300.00	7,222.62	7,184.62	7,222.62	145.85	249.09	90.71	-39.46	-9,145.84	4,359.85	4,032.48	327.37	13.318		
12,400.00	7,222.03	7,184.03	7,222.03	148.62	249.07	90.69	-39.46	-9,145.84	4,270.00	3,940.46	329.54	12.957		
12,500.00	7,221.43	7,183.43	7,221.43	151.40	249.05	90.67	-39.46	-9,145.84	4,180.61	3,848.79	331.82	12.599		
12,600.00	7,220.83	7,182.83	7,220.83	154.18	249.03	90.65	-39.46	-9,145.84	4,091.71	3,757.50	334.21	12.243		
12,700.00	7,220.24	7,182.24	7,220.24	156.96	249.01	90.64	-39.46	-9,145.84	4,003.34	3,666.62	336.72	11.889		
12,800.00	7,219.64	7,181.64	7,219.64	159.74	248.99	90.62	-39.46	-9,145.84	3,915.52	3,576.17	339.35	11.538		
12,900.00	7,219.05	7,181.05	7,219.05	162.53	248.97	90.60	-39.46	-9,145.84	3,828.31	3,486.20	342.11	11.190		
13,000.00	7,218.45	7,180.45	7,218.45	165.32	248.95	90.58	-39.46	-9,145.84	3,741.73	3,396.72	345.00	10.845		
13,100.00	7,217.86	7,179.86	7,217.86	168.11	248.93	90.56	-39.46	-9,145.84	3,655.84	3,307.80	348.04	10.504		
13,200.00	7,217.26	7,179.26	7,217.26	170.90	248.90	90.55	-39.46	-9,145.84	3,570.68	3,219.46	351.22	10.166		
13,300.00	7,216.66	7,178.66	7,216.66	173.70	248.88	90.53	-39.46	-9,145.84	3,486.31	3,131.75	354.56	9.833		
13,400.00	7,216.07	7,178.07	7,216.07	176.49	248.86	90.51	-39.46	-9,145.84	3,402.78	3,044.73	358.06	9.504		
13,500.00	7,215.47	7,177.47	7,215.47	179.29	248.84	90.49	-39.46	-9,145.84	3,320.17	2,958.45	361.72	9.179		
13,600.00	7,214.88	7,176.88	7,214.88	182.09	248.82	90.47	-39.46	-9,145.84	3,238.54	2,872.98	365.56	8.859		
13,700.00	7,214.28	7,176.28	7,214.28	184.90	248.80	90.46	-39.46	-9,145.84	3,157.96	2,788.38	369.58	8.545		
13,800.00	7,213.68	7,175.68	7,213.68	187.70	248.78	90.44	-39.46	-9,145.84	3,078.53	2,704.74	373.79	8.236		
13,900.00	7,213.09	7,175.09	7,213.09	190.51	248.76	90.42	-39.46	-9,145.84	3,000.32	2,622.13	378.19	7.933		
14,000.00	7,212.49	7,174.49	7,212.49	193.32	248.74	90.40	-39.46	-9,145.84	2,923.44	2,540.66	382.79	7.637		
14,100.00	7,211.90	7,173.90	7,211.90	196.13	248.72	90.38	-39.46	-9,145.84	2,848.00	2,460.42	387.59	7.348		
14,200.00	7,211.30	7,173.30	7,211.30	198.94	248.70	90.37	-39.46	-9,145.84	2,774.11	2,381.52	392.59	7.066		
14,300.00	7,210.71	7,172.71	7,210.71	201.75	248.68	90.35	-39.46	-9,145.84	2,701.91	2,304.11	397.80	6.792		
14,400.00	7,210.11	7,172.11	7,210.11	204.56	248.65	90.33	-39.46	-9,145.84	2,631.52	2,228.31	403.21	6.526		
14,500.00	7,209.51	7,171.51	7,209.51	207.38	248.63	90.31	-39.46	-9,145.84	2,563.10	2,154.29	408.82	6.270		
14,600.00	7,208.92	7,170.92	7,208.92	210.19	248.61	90.29	-39.46	-9,145.84	2,496.81	2,082.20	414.61	6.022		
14,700.00	7,208.32	7,170.32	7,208.32	213.01	248.59	90.28	-39.46	-9,145.84	2,432.83	2,012.25	420.59	5.784		
14,800.00	7,207.73	7,169.73	7,207.73	215.83	248.57	90.26	-39.46	-9,145.84	2,371.34	1,944.62	426.72	5.557		
14,900.00	7,207.13	7,169.13	7,207.13	218.65	248.55	90.24	-39.46	-9,145.84	2,312.54	1,879.56	432.99	5.341		
15,000.00	7,206.53	7,168.53	7,206.53	221.47	248.53	90.22	-39.46	-9,145.84	2,256.64	1,817.28	439.36	5.136		
15,100.00	7,205.94	7,167.94	7,205.94	224.29	248.51	90.20	-39.46	-9,145.84	2,203.87	1,758.07	445.80	4.944		
15,200.00	7,205.34	7,167.34	7,205.34	227.11	248.49	90.19	-39.46	-9,145.84	2,154.44	1,702.18	452.26	4.764		
15,258.04	7,205.00	7,167.00	7,205.00	228.75	248.48	90.17	-39.46	-9,145.84	2,127.38	1,671.38	456.00	4.665 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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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	25.00	3.28	3.28	-90.43	-68.60	-9,143.06	9,143.36					
100.00	100.00	111.49	136.49	3.28	3.29	-90.43	-68.89	-9,142.70	9,143.03	9,136.46	6.58	1,390.069		
200.00	200.00	185.67	210.66	3.34	3.34	-90.43	-68.80	-9,142.51	9,142.78	9,136.10	6.67	1,370.231		
300.00	299.98	260.43	285.43	3.44	3.41	84.83	-68.76	-9,142.53	9,142.64	9,135.80	6.85	1,335.400		
400.00	399.84	347.38	372.38	3.59	3.53	84.86	-68.84	-9,142.73	9,142.40	9,135.29	7.11	1,285.196		
500.00	499.45	435.53	460.53	3.79	3.68	84.91	-68.97	-9,143.05	9,141.99	9,134.52	7.47	1,224.183		
600.00	598.70	612.28	637.27	4.03	4.08	85.07	-69.46	-9,143.34	9,141.21	9,133.10	8.11	1,126.835		
700.00	697.47	678.68	703.68	4.31	4.26	85.16	-69.80	-9,143.16	9,139.59	9,131.02	8.57	1,066.020		
800.00	795.62	727.00	751.99	4.64	4.40	85.25	-70.03	-9,143.20	9,138.12	9,129.08	9.03	1,011.585		
900.00	893.06	727.00	751.99	5.00	4.40	85.26	-70.03	-9,143.20	9,137.25	9,127.85	9.40	972.488		
1,000.00	989.65	796.50	821.49	5.40	4.60	85.38	-69.94	-9,143.92	9,136.36	9,126.36	10.00	913.936		
1,047.93	1,035.76	811.28	836.26	5.60	4.65	85.41	-69.81	-9,144.22	9,136.27	9,126.03	10.24	891.904		
1,100.00	1,085.85	856.00	880.96	5.82	4.78	85.49	-69.19	-9,145.42	9,136.52	9,125.91	10.61	861.514		
1,200.00	1,182.06	856.00	880.96	6.27	4.78	85.49	-69.19	-9,145.42	9,137.17	9,126.11	11.05	826.793		
1,300.00	1,278.26	856.00	880.96	6.73	4.78	85.49	-69.19	-9,145.42	9,138.91	9,127.39	11.51	793.770		
1,400.00	1,374.47	904.30	929.21	7.20	4.94	85.58	-68.16	-9,147.36	9,141.22	9,129.08	12.14	753.018		
1,500.00	1,470.67	927.59	952.46	7.69	5.01	85.62	-67.53	-9,148.58	9,144.52	9,131.82	12.70	720.141		
1,600.00	1,566.88	984.00	1,008.72	8.18	5.20	85.73	-65.68	-9,152.27	9,148.92	9,135.55	13.38	684.016		
1,700.00	1,663.08	984.00	1,008.72	8.68	5.20	85.73	-65.68	-9,152.27	9,153.70	9,139.82	13.87	659.830		
1,800.00	1,759.29	984.00	1,008.72	9.19	5.20	85.73	-65.68	-9,152.27	9,159.56	9,145.19	14.37	637.190		
1,900.00	1,855.49	984.00	1,008.72	9.70	5.20	85.73	-65.68	-9,152.27	9,166.52	9,151.64	14.88	616.011		
2,000.00	1,951.70	1,049.55	1,073.96	10.22	5.43	85.86	-62.62	-9,157.80	9,173.68	9,158.07	15.61	587.521		
2,100.00	2,047.90	1,112.00	1,135.95	10.73	5.65	85.99	-58.53	-9,164.20	9,182.28	9,165.93	16.35	561.773		
2,200.00	2,144.11	1,112.00	1,135.95	11.26	5.65	85.99	-58.53	-9,164.20	9,191.16	9,174.31	16.86	545.264		
2,300.00	2,240.31	1,112.00	1,135.95	11.78	5.65	85.99	-58.53	-9,164.20	9,201.13	9,183.76	17.37	529.778		
2,400.00	2,336.52	1,166.52	1,189.91	12.31	5.86	86.11	-54.08	-9,170.50	9,211.75	9,193.67	18.08	509.448		
2,500.00	2,432.72	1,202.08	1,225.06	12.84	6.00	86.19	-50.77	-9,174.87	9,223.13	9,204.40	18.73	492.475		
2,600.00	2,528.93	1,241.00	1,263.44	13.37	6.15	86.28	-46.76	-9,179.88	9,235.23	9,215.84	19.39	476.311		
2,700.00	2,625.13	1,291.22	1,312.86	13.91	6.36	86.39	-40.84	-9,186.54	9,247.95	9,227.85	20.10	460.057		
2,800.00	2,721.34	1,346.22	1,366.82	14.44	6.60	86.53	-33.20	-9,193.95	9,261.19	9,240.35	20.84	444.465		
2,900.00	2,817.54	1,369.00	1,389.11	14.98	6.70	86.59	-29.68	-9,197.05	9,275.05	9,253.61	21.44	432.623		
3,000.00	2,913.75	1,426.31	1,445.05	15.52	6.96	86.74	-20.16	-9,205.10	9,289.47	9,267.27	22.20	418.473		
3,100.00	3,009.95	1,462.12	1,479.90	16.06	7.13	86.84	-13.80	-9,210.36	9,304.67	9,281.80	22.86	406.976		
3,200.00	3,106.16	1,498.00	1,514.73	16.60	7.31	86.94	-7.11	-9,215.80	9,320.57	9,297.04	23.53	396.163		
3,300.00	3,202.37	1,498.00	1,514.73	17.14	7.31	86.94	-7.11	-9,215.80	9,337.34	9,313.31	24.03	388.632		
3,400.00	3,298.57	1,564.98	1,579.52	17.68	7.65	87.12	6.05	-9,226.45	9,354.52	9,329.68	24.85	376.477		
3,500.00	3,394.78	1,626.00	1,638.33	18.22	7.98	87.30	18.69	-9,236.75	9,372.69	9,347.05	25.64	365.531		
3,600.00	3,490.98	1,626.00	1,638.33	18.76	7.98	87.30	18.69	-9,236.75	9,391.37	9,365.24	26.13	359.377		
3,700.00	3,587.19	1,667.10	1,677.79	19.31	8.21	87.42	27.65	-9,243.98	9,410.85	9,384.02	26.84	350.662		
3,800.00	3,683.39	1,701.95	1,711.12	19.85	8.42	87.52	35.64	-9,250.25	9,431.04	9,403.53	27.51	342.854		
3,900.00	3,779.60	1,754.00	1,760.70	20.39	8.72	87.67	48.23	-9,259.88	9,451.97	9,423.70	28.27	334.371		
4,000.00	3,875.80	1,754.00	1,760.70	20.94	8.72	87.67	48.23	-9,259.88	9,473.55	9,444.80	28.75	329.568		
4,100.00	3,972.01	1,754.00	1,760.70	21.48	8.72	87.67	48.23	-9,259.88	9,496.13	9,466.91	29.22	325.006		
4,200.00	4,068.21	1,811.58	1,815.23	22.03	9.09	87.85	62.90	-9,271.10	9,519.08	9,489.05	30.02	317.063		
4,300.00	4,164.42	1,834.47	1,836.82	22.57	9.24	87.92	68.90	-9,275.79	9,543.04	9,512.42	30.62	311.640		
4,400.00	4,260.62	1,883.00	1,882.40	23.12	9.56	88.07	81.94	-9,286.15	9,567.92	9,536.55	31.37	305.012		
4,500.00	4,356.83	1,883.00	1,882.40	23.67	9.56	88.07	81.94	-9,286.15	9,593.32	9,561.49	31.83	301.432		
4,600.00	4,453.03	2,059.02	2,047.39	24.21	10.81	88.63	130.56	-9,323.56	9,618.90	9,585.51	33.39	288.086		
4,700.00	4,549.24	2,160.09	2,142.44	24.76	11.55	88.94	157.72	-9,344.60	9,644.24	9,609.75	34.49	279.594		
4,800.00	4,645.44	2,229.47	2,207.83	25.31	12.06	89.15	175.74	-9,359.18	9,669.86	9,634.46	35.39	273.202		
4,900.00	4,741.65	2,343.10	2,315.14	25.86	12.90	89.49	204.25	-9,383.29	9,695.75	9,659.16	36.58	265.035		
5,000.00	4,837.85	2,427.88	2,395.43	26.40	13.54	89.73	224.88	-9,401.10	9,721.51	9,683.92	37.59	258.650		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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		
5,100.00	4,934.06	2,473.89	2,438.91	26.95	13.89	89.87	236.36	-9,410.85	9,747.78	9,709.44	38.33	254.292		
5,200.00	5,030.26	2,525.00	2,487.06	27.50	14.28	90.02	249.49	-9,421.82	9,774.60	9,735.49	39.11	249.916		
5,300.00	5,126.47	2,617.24	2,573.85	28.05	15.00	90.30	273.66	-9,441.62	9,801.78	9,761.60	40.18	243.955		
5,400.00	5,222.67	2,653.00	2,607.50	28.60	15.28	90.40	283.08	-9,449.24	9,829.21	9,788.36	40.85	240.592		
5,500.00	5,318.88	2,707.64	2,658.80	29.15	15.72	90.57	297.71	-9,461.03	9,857.14	9,815.47	41.67	236.575		
5,600.00	5,415.08	2,740.20	2,689.28	29.70	15.98	90.66	306.64	-9,468.23	9,885.79	9,843.47	42.32	233.609		
5,700.00	5,511.29	2,782.00	2,728.29	30.25	16.32	90.79	318.33	-9,477.66	9,915.10	9,872.07	43.03	230.419		
5,800.00	5,607.49	2,800.00	2,740.43	30.79	16.32	91.46	379.64	-9,527.70	9,944.06	9,881.41	62.65	158.731		
5,900.00	5,703.70	3,089.55	3,016.74	31.34	18.84	91.70	400.95	-9,545.08	9,972.57	9,926.51	46.06	216.501		
7,200.00	6,940.36	7,292.11	7,137.01	38.34	38.92	46.34	762.41	-9,865.26	9,974.82	9,902.63	72.19	138.184		
7,300.00	7,019.83	7,341.63	7,186.53	38.74	39.07	42.67	761.62	-9,864.57	9,925.15	9,852.38	72.77	136.395		
7,400.00	7,089.85	7,391.05	7,235.93	39.10	39.23	41.82	760.82	-9,863.97	9,863.44	9,790.13	73.31	134.553		
7,500.00	7,148.71	7,463.39	7,308.26	39.42	39.46	43.62	759.68	-9,863.15	9,791.09	9,717.21	73.88	132.531		
7,600.00	7,194.95	7,530.16	7,375.02	39.71	39.67	48.56	758.69	-9,862.22	9,709.72	9,635.32	74.40	130.514		
7,700.00	7,227.43	7,562.25	7,407.10	40.01	39.77	58.07	758.24	-9,861.73	9,621.42	9,546.65	74.77	128.679		
7,800.00	7,245.37	7,578.76	7,423.60	40.37	39.82	75.50	758.00	-9,861.47	9,528.39	9,453.33	75.07	126.933		
7,900.00	7,248.84	7,580.72	7,425.57	40.87	39.83	94.89	757.97	-9,861.44	9,432.93	9,357.64	75.29	125.289		
8,000.00	7,248.24	7,578.60	7,423.44	41.62	39.82	94.84	758.00	-9,861.47	9,337.18	9,261.67	75.51	123.661		
8,100.00	7,247.65	7,576.47	7,421.32	42.66	39.81	94.80	758.03	-9,861.51	9,241.51	9,165.77	75.75	122.008		
8,200.00	7,247.05	7,574.35	7,419.20	43.96	39.81	94.75	758.06	-9,861.54	9,145.94	9,069.93	76.01	120.329		
8,300.00	7,246.46	7,572.23	7,417.07	45.46	39.80	94.71	758.09	-9,861.57	9,050.46	8,974.17	76.30	118.624		
8,400.00	7,245.86	7,570.10	7,414.95	47.13	39.79	94.66	758.12	-9,861.60	8,955.08	8,878.47	76.61	116.896		
8,500.00	7,245.27	7,567.98	7,412.83	48.93	39.79	94.62	758.15	-9,861.64	8,859.80	8,782.85	76.95	115.144		
8,600.00	7,244.67	7,565.86	7,410.70	50.84	39.78	94.58	758.18	-9,861.67	8,764.63	8,687.32	77.31	113.369		
8,700.00	7,244.07	7,563.73	7,408.58	52.85	39.77	94.53	758.22	-9,861.70	8,669.56	8,591.86	77.70	111.572		
8,800.00	7,243.48	7,561.61	7,406.46	54.94	39.77	94.49	758.25	-9,861.74	8,574.61	8,496.48	78.13	109.754		
8,900.00	7,242.88	7,559.49	7,404.34	57.10	39.76	94.44	758.28	-9,861.77	8,479.77	8,401.19	78.58	107.916		
9,000.00	7,242.29	7,557.36	7,402.21	59.32	39.75	94.40	758.31	-9,861.80	8,385.05	8,305.99	79.06	106.060		
9,100.00	7,241.69	7,555.24	7,400.09	61.60	39.75	94.35	758.34	-9,861.83	8,290.45	8,210.88	79.57	104.187		
9,200.00	7,241.09	7,553.11	7,397.97	63.92	39.74	94.31	758.37	-9,861.87	8,195.98	8,115.86	80.12	102.297		
9,300.00	7,240.50	7,551.07	7,402.02	66.29	39.75	94.39	758.31	-9,861.79	8,101.64	8,020.92	80.72	100.369		
9,400.00	7,239.90	7,549.17	7,399.06	68.70	39.74	94.33	758.35	-9,861.84	8,007.44	7,926.11	81.33	98.456		
9,500.00	7,239.31	7,547.27	7,396.13	71.14	39.73	94.27	758.39	-9,861.89	7,913.38	7,831.41	81.98	96.532		
9,600.00	7,238.71	7,545.37	7,393.23	73.61	39.73	94.21	758.44	-9,861.93	7,819.47	7,736.81	82.66	94.598		
9,700.00	7,238.11	7,543.50	7,390.35	76.11	39.72	94.14	758.48	-9,861.98	7,725.72	7,642.34	83.38	92.655		
9,800.00	7,237.52	7,541.66	7,387.51	78.64	39.71	94.08	758.52	-9,862.02	7,632.12	7,547.98	84.14	90.706		
9,900.00	7,236.92	7,539.84	7,384.70	81.19	39.70	94.03	758.56	-9,862.07	7,538.68	7,453.74	84.94	88.752		
10,000.00	7,236.33	7,537.05	7,381.91	83.75	39.69	93.97	758.60	-9,862.11	7,445.41	7,359.63	85.78	86.796		
10,100.00	7,235.73	7,534.29	7,379.15	86.34	39.68	93.91	758.63	-9,862.15	7,352.32	7,265.66	86.66	84.838		
10,200.00	7,235.14	7,531.56	7,376.42	88.94	39.67	93.85	758.67	-9,862.20	7,259.42	7,171.83	87.59	82.882		
10,300.00	7,234.54	7,528.86	7,373.72	91.56	39.66	93.79	758.71	-9,862.24	7,166.70	7,078.14	88.56	80.928		
10,400.00	7,233.94	7,526.18	7,371.04	94.19	39.65	93.74	758.75	-9,862.28	7,074.18	6,984.61	89.57	78.978		
10,500.00	7,233.35	7,523.53	7,368.39	96.84	39.65	93.68	758.79	-9,862.32	6,981.87	6,891.23	90.63	77.035		
10,600.00	7,232.75	7,520.90	7,365.76	99.50	39.64	93.62	758.83	-9,862.36	6,889.76	6,798.02	91.74	75.100		
10,700.00	7,232.16	7,518.30	7,363.16	102.17	39.63	93.57	758.86	-9,862.40	6,797.89	6,704.99	92.90	73.174		
10,800.00	7,231.56	7,515.72	7,360.58	104.85	39.62	93.51	758.90	-9,862.43	6,706.24	6,612.13	94.11	71.261		
10,900.00	7,230.96	7,513.17	7,358.03	107.53	39.61	93.46	758.94	-9,862.47	6,614.84	6,519.47	95.37	69.360		
11,000.00	7,230.37	7,510.65	7,355.51	110.23	39.61	93.41	758.97	-9,862.51	6,523.68	6,427.00	96.68	67.474		
11,100.00	7,229.77	7,508.14	7,353.00	112.93	39.60	93.35	759.01	-9,862.54	6,432.79	6,334.74	98.05	65.605		
11,200.00	7,229.18	7,505.66	7,350.52	115.65	39.59	93.30	759.05	-9,862.58	6,342.17	6,242.69	99.48	63.753		
11,300.00	7,228.58	7,503.21	7,348.07	118.37	39.58	93.25	759.08	-9,862.62	6,251.84	6,150.87	100.96	61.921		
11,400.00	7,227.99	7,500.77	7,345.64	121.09	39.57	93.20	759.12	-9,862.65	6,161.80	6,059.29	102.51	60.110		

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 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
11,500.00	7,227.39	7,498.36	7,343.23	123.82	39.57	93.15	759.15	-9,862.68	6,072.08	5,967.96	104.11	58.321		
11,600.00	7,226.79	7,495.97	7,340.84	126.56	39.56	93.10	759.19	-9,862.72	5,982.68	5,876.89	105.78	56.555		
11,700.00	7,226.20	7,493.61	7,338.47	129.30	39.55	93.05	759.22	-9,862.75	5,893.62	5,786.10	107.52	54.814		
11,800.00	7,225.60	7,491.26	7,336.13	132.05	39.54	93.00	759.26	-9,862.78	5,804.92	5,695.59	109.32	53.099		
11,900.00	7,225.01	7,488.94	7,333.81	134.80	39.54	92.95	759.29	-9,862.81	5,716.58	5,605.39	111.20	51.410		
12,000.00	7,224.41	7,486.64	7,331.50	137.56	39.53	92.90	759.33	-9,862.85	5,628.64	5,515.50	113.14	49.749		
12,100.00	7,223.81	7,484.36	7,329.22	140.32	39.52	92.85	759.36	-9,862.88	5,541.11	5,425.95	115.16	48.116		
12,200.00	7,223.22	7,482.10	7,326.96	143.08	39.51	92.80	759.40	-9,862.91	5,454.00	5,336.75	117.26	46.514		
12,300.00	7,222.62	7,479.86	7,324.72	145.85	39.51	92.75	759.43	-9,862.94	5,367.34	5,247.91	119.43	44.941		
12,400.00	7,222.03	7,477.64	7,322.50	148.62	39.50	92.71	759.46	-9,862.97	5,281.16	5,159.47	121.69	43.399		
12,500.00	7,221.43	7,475.44	7,320.30	151.40	39.49	92.66	759.50	-9,863.00	5,195.47	5,071.44	124.03	41.890		
12,600.00	7,220.83	7,473.25	7,318.12	154.18	39.49	92.61	759.53	-9,863.02	5,110.29	4,983.84	126.45	40.412		
12,700.00	7,220.24	7,471.09	7,315.96	156.96	39.48	92.57	759.56	-9,863.05	5,025.66	4,896.69	128.97	38.967		
12,800.00	7,219.64	7,468.95	7,313.82	159.74	39.47	92.52	759.59	-9,863.08	4,941.61	4,810.03	131.58	37.556		
12,900.00	7,219.05	7,466.83	7,311.70	162.53	39.47	92.48	759.63	-9,863.11	4,858.16	4,723.88	134.28	36.178		
13,000.00	7,218.45	7,464.72	7,309.59	165.32	39.46	92.43	759.66	-9,863.13	4,775.34	4,638.26	137.09	34.835		
13,100.00	7,217.86	7,462.63	7,307.50	168.11	39.45	92.39	759.69	-9,863.16	4,693.20	4,553.21	139.99	33.525		
13,200.00	7,217.26	7,460.56	7,305.43	170.90	39.45	92.35	759.72	-9,863.19	4,611.75	4,468.76	143.00	32.251		
13,300.00	7,216.66	7,458.51	7,303.38	173.70	39.44	92.30	759.75	-9,863.21	4,531.05	4,384.94	146.11	31.011		
13,400.00	7,216.07	7,456.48	7,301.35	176.49	39.43	92.26	759.79	-9,863.24	4,451.14	4,301.80	149.33	29.807		
13,500.00	7,215.47	7,454.46	7,299.33	179.29	39.43	92.22	759.82	-9,863.26	4,372.04	4,219.37	152.67	28.637		
13,600.00	7,214.88	7,452.46	7,297.33	182.09	39.42	92.17	759.85	-9,863.29	4,293.82	4,137.70	156.12	27.503		
13,700.00	7,214.28	7,450.48	7,295.35	184.90	39.41	92.13	759.88	-9,863.31	4,216.52	4,056.83	159.69	26.404		
13,800.00	7,213.68	7,448.51	7,293.39	187.70	39.41	92.09	759.91	-9,863.34	4,140.19	3,976.81	163.38	25.340		
13,900.00	7,213.09	7,446.56	7,291.44	190.51	39.40	92.05	759.94	-9,863.36	4,064.89	3,897.69	167.20	24.312		
14,000.00	7,212.49	7,444.63	7,289.50	193.32	39.40	92.01	759.97	-9,863.38	3,990.67	3,819.54	171.13	23.319		
14,100.00	7,211.90	7,442.71	7,287.59	196.13	39.39	91.97	760.00	-9,863.40	3,917.59	3,742.40	175.20	22.361		
14,200.00	7,211.30	7,440.81	7,285.69	198.94	39.38	91.93	760.03	-9,863.43	3,845.73	3,666.35	179.39	21.438		
14,300.00	7,210.71	7,438.92	7,283.80	201.75	39.38	91.89	760.06	-9,863.45	3,775.15	3,591.45	183.70	20.550		
14,400.00	7,210.11	7,437.05	7,281.93	204.56	39.37	91.85	760.09	-9,863.47	3,705.92	3,517.77	188.15	19.697		
14,500.00	7,209.51	7,435.20	7,280.07	207.38	39.37	91.81	760.12	-9,863.49	3,638.12	3,445.41	192.72	18.878		
14,600.00	7,208.92	7,433.36	7,278.24	210.19	39.36	91.77	760.14	-9,863.51	3,571.84	3,374.43	197.41	18.094		
14,700.00	7,208.32	7,431.53	7,276.41	213.01	39.35	91.73	760.17	-9,863.54	3,507.15	3,304.92	202.22	17.343		
14,800.00	7,207.73	7,429.72	7,274.60	215.83	39.35	91.69	760.20	-9,863.56	3,444.15	3,236.99	207.15	16.626		
14,900.00	7,207.13	7,427.93	7,272.80	218.65	39.34	91.65	760.23	-9,863.58	3,382.93	3,170.74	212.19	15.943		
15,000.00	7,206.53	7,426.15	7,271.02	221.47	39.34	91.61	760.26	-9,863.60	3,323.59	3,106.26	217.33	15.292		
15,100.00	7,205.94	7,424.38	7,269.26	224.29	39.33	91.58	760.29	-9,863.62	3,266.24	3,043.67	222.57	14.675		
15,200.00	7,205.34	7,422.63	7,267.50	227.11	39.33	91.54	760.31	-9,863.64	3,210.97	2,983.08	227.89	14.090		
15,258.04	7,205.00	7,421.61	7,266.49	228.75	39.32	91.52	760.33	-9,863.65	3,179.90	2,948.89	231.01	13.765 CC, ES, SF		

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 @ 4820.00ft

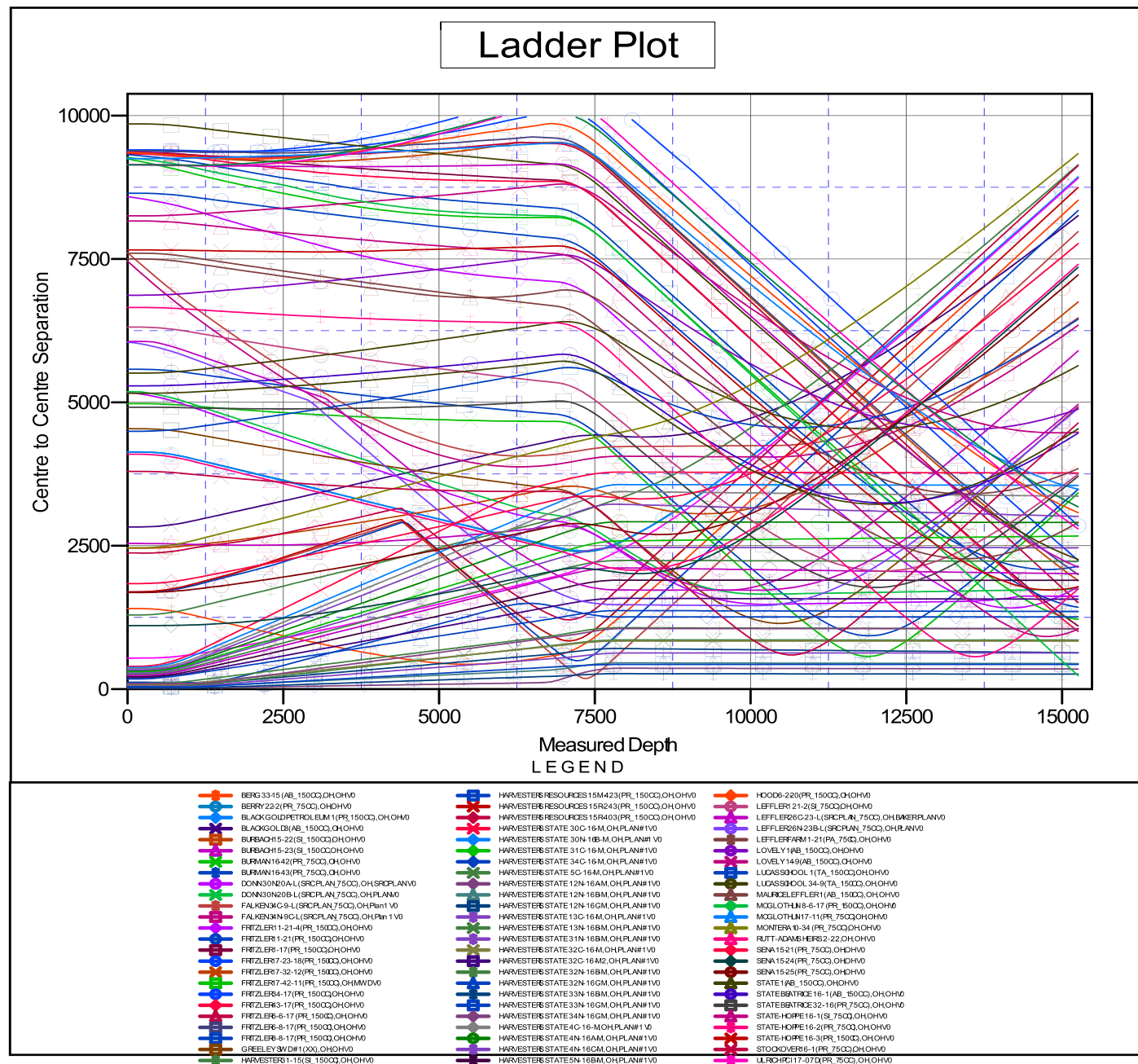
Offset Depths are relative to Offset Datum

Central Meridian is -105.5000000

Coordinates are relative to: HARVESTERS STATE 33C-16-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is:  $0.48^\circ$

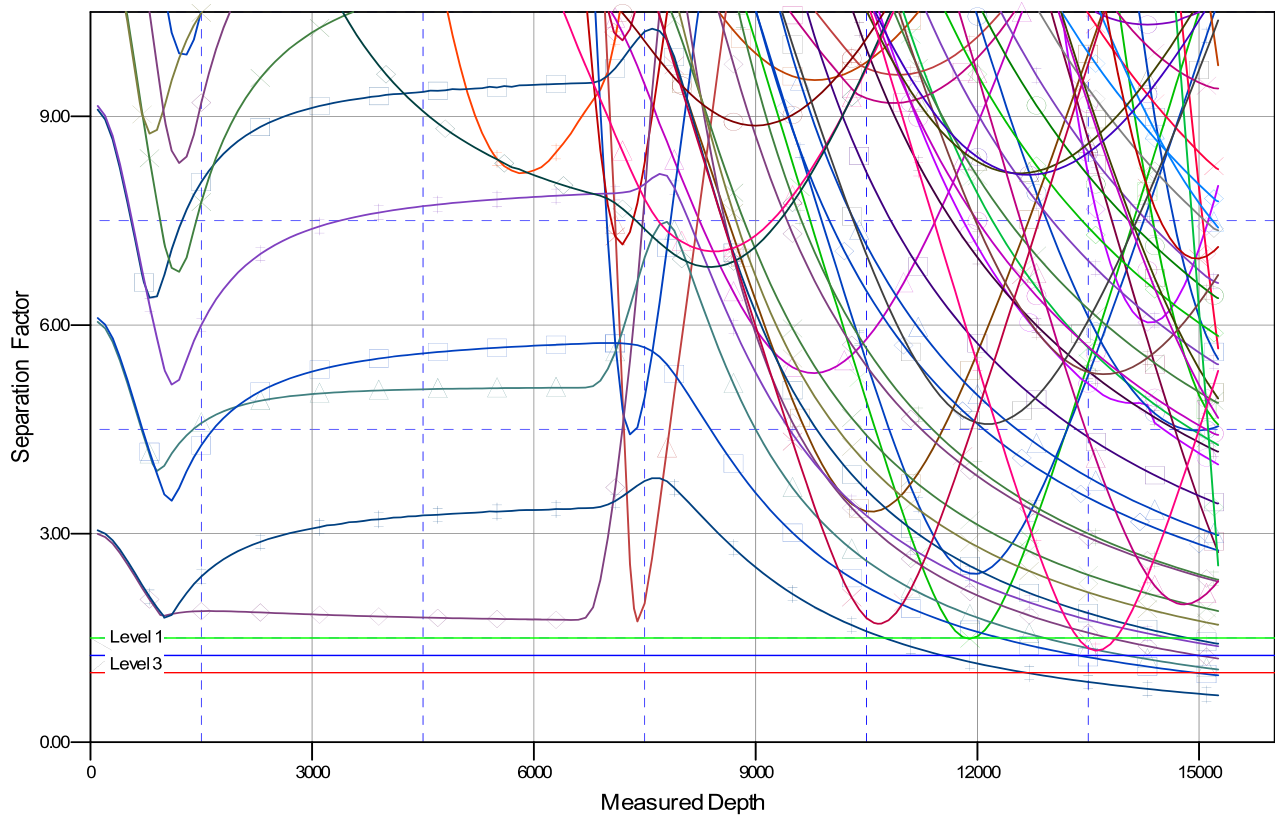


<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 33C-16-M
<b>Project:</b>	SECTION 15, T6N, R66W	<b>TVD Reference:</b>	KB @ 4820.00ft
<b>Reference Site:</b>	HARVESTERS STATE 7-15 PAD	<b>MD Reference:</b>	KB @ 4820.00ft
<b>Site Error:</b>	3.28 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HARVESTERS STATE 33C-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 @ 4820.00ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.5000000

Coordinates are relative to: HARVESTERS STATE 33C-16-M  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.48°

## Separation Factor Plot



### LEGEND

BERG 33-15 (AB, 1500Q, OH, OHV0)	HARVESTERS RESOURCES 15M423 (PR, 1500Q, OH, OHV0)	H006-220 (PR, 1500Q, OH, OHV0)
BERG 22-2 (PR, 750Q, OH, OHV0)	HARVESTERS RESOURCES 15M43 (PR, 1500Q, OH, OHV0)	LEFFLER 21-2 (SL, 750Q, OH, OHV0)
BLACK GOLD PETROLEUM 1 (PR, 1500Q, OH, OHV0)	HARVESTERS RESOURCES 15M403 (PR, 1500Q, OH, OHV0)	LEFFLER 26-23 (L, SRCP, PLAN, 750Q, OH, OHV0)
BLACK GOLD (AB, 1500Q, OH, OHV0)	HARVESTERS STATE 30C-16M, OH, PLAN#1 V0	LEFFLER 26-23B (L, SRCP, PLAN, 750Q, OH, OHV0)
BURBACH 15-22 (SL, 1500Q, OH, OHV0)	HARVESTERS STATE 30N-16M, OH, PLAN#1 V0	LOVELY 149 (AB, 1500Q, OH, OHV0)
BURBACH 15-23 (SL, 1500Q, OH, OHV0)	HARVESTERS STATE 31C-16M, OH, PLAN#1 V0	LOVELY 149 (AB, 1500Q, OH, OHV0)
BURMAN 16-42 (PR, 750Q, OH, OHV0)	HARVESTERS STATE 34C-16M, OH, PLAN#1 V0	LUCAS SCHOOL 1 (TA, 1500Q, OH, OHV0)
BURMAN 16-43 (PR, 750Q, OH, OHV0)	HARVESTERS STATE 5C-16M, OH, PLAN#1 V0	LUCAS SCHOOL 34-9 (TA, 1500Q, OH, OHV0)
DOHN 02020A-1 (SRCP, PLAN, 750Q, OH, SRCP, PLANV0)	HARVESTERS STATE 12N-16M, OH, PLAN#1 V0	MAURICE LEFFLER 1 (AB, 1500Q, OH, OHV0)
DOHN 02020B-1 (SRCP, PLAN, 750Q, OH, PLANV0)	HARVESTERS STATE 12N-16M, OH, PLAN#1 V0	MOGLOTHUN 6-17 (PR, 600Q, OH, OHV0)
FALKEN 31G-9-L (SRCP, PLAN, 750Q, OH, Plan1 V0)	HARVESTERS STATE 13C-16M, OH, PLAN#1 V0	MOGLOTHUN 17-11 (PR, 750Q, OH, OHV0)
FALKEN 31N-9C-L (SRCP, PLAN, 750Q, OH, Plan1 V0)	HARVESTERS STATE 13N-16M, OH, PLAN#1 V0	MONTEWA 10-34 (PR, 750Q, OH, OHV0)
FRTZLER 1-21 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 31N-16M, OH, PLAN#1 V0	RUTT-ADAMS HERS 2-22 (OH, OHV0)
FRTZLER 1-21 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 32C-16M, OH, PLAN#1 V0	SENA 15-21 (PR, 750Q, OH, OHV0)
FRTZLER 6-17 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 32C-16M, OH, PLAN#1 V0	SENA 15-24 (PR, 750Q, OH, OHV0)
FRTZLER 7-32-12 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 32N-16M, OH, PLAN#1 V0	SENA 15-25 (PR, 750Q, OH, OHV0)
FRTZLER 7-32-12 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 32N-16M, OH, PLAN#1 V0	STATE 1 (AB, 1500Q, OH, OHV0)
FRTZLER 7-42-11 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 33N-16M, OH, PLAN#1 V0	STATEBATRICE 16-11 (AB, 1500Q, OH, OHV0)
FRTZLER 8-17 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 33N-16M, OH, PLAN#1 V0	STATEBATRICE 32-16 (PR, 750Q, OH, OHV0)
FRTZLER 8-17 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 34N-16M, OH, PLAN#1 V0	STATEHOPE 16-1 (SL, 750Q, OH, OHV0)
FRTZLER 8-17 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 4N-16M, OH, PLAN#1 V0	STATEHOPE 16-2 (PR, 750Q, OH, OHV0)
FRTZLER 8-17 (PR, 1500Q, OH, OHV0)	HARVESTERS STATE 4N-16M, OH, PLAN#1 V0	STATEHOPE 16-3 (PR, 1500Q, OH, OHV0)
GRIFFIN 30D-1 (OH, OHV0)	HARVESTERS STATE 5N-16M, OH, PLAN#1 V0	STOCKOVER 6-11 (PR, 750Q, OH, OHV0)
HARVESTERS 1-15 (SL, 1500Q, OH, OHV0)		ULRICH 17-07 (PR, 750Q, OH, OHV0)