

SRC ENERGY

**WELD COUNTY (NAD83, TRUE NORTH)
5N-66W-29 SANFORD 21-29 PAD
SANFORD 31N-30C-M**

**Wellbore #1
Design #1**

Anticollision Report

25 October, 2018

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,200.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	10/25/2018	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,800.00	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:crustal field declination	
1,800.00	15,471.14	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:Rockies, crustal dec + 3-axis correction	

Summary						
	Reference	Offset	Distance		Separation	Warning
Site Name	Measured	Measured	Between	Between	Factor	
Offset Well - Wellbore - Design	Depth	Depth	Centres	Ellipses		
	(usft)	(usft)	(usft)	(usft)		
5N-66W-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,305.86	2,157.29	1,003.88	980.72	43.363	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	6,700.00	6,727.93	1,046.44	1,004.79	25.126	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,402.39	7,276.10	79.32	33.87	1.745	CC, ES, SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,612.56	6,539.73	445.29	197.74	1.799	CC, ES
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,700.00	6,626.86	449.01	198.22	1.790	SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,620.59	6,547.71	478.75	230.91	1.932	CC, ES
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,700.00	6,626.86	482.09	231.31	1.922	SF
CARLSON 10-29 - Noble SI Well - Actual VES Surveys						Out of range
HSR-MILLARD 9-29 - Noble SI Well - No Surveys						Out of range
KAMMERZELL 1 - XOG P&A Well - No Surveys						Out of range
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	200.00	201.00	201.26	190.88	19.403	CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	7,975.70	7,241.93	381.79	106.05	1.385	Level 3, ES, SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,325.19	7,265.58	582.48	288.84	1.984	CC, ES, SF
KAMMERZELL 29-5 - XOG PR Well - No Surveys	9,708.99	7,248.48	557.06	258.23	1.864	CC, ES, SF
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	7,957.07	7,235.93	623.63	348.26	2.265	CC, ES, SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,800.08	7,260.93	144.30	95.16	2.936	CC, ES, SF
UPRC 29-7C - Noble T/A Well - No Surveys	6,855.99	6,782.85	786.97	531.26	3.078	CC
UPRC 29-7C - Noble T/A Well - No Surveys	6,900.00	6,824.42	787.46	530.28	3.062	ES
UPRC 29-7C - Noble T/A Well - No Surveys	7,000.00	6,914.59	792.89	532.57	3.046	SF
UPRC 29-8C - Noble SI Well - No Surveys						Out of range
UPV 29-1H6 - Noble PR Well - No Surveys						Out of range
UPV 29-2H6 - Noble SI Well - No Surveys	6,630.35	6,544.42	485.27	237.36	1.957	CC, ES
UPV 29-2H6 - Noble SI Well - No Surveys	6,700.00	6,613.86	488.14	237.63	1.949	SF

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-29 SANFORD 21-29 PAD						
SANFORD 1C-27-XR - Wellbore #1 - Design #1	200.00	201.00	161.61	154.04	21.337	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	7,734.58	7,329.05	481.32	441.83	12.188	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	155.51	147.94	20.531	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	7,094.45	7,606.58	450.38	413.10	12.081	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	170.20	162.63	22.471	CC, ES
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	7,200.00	7,669.54	724.41	687.37	19.556	SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	151.41	143.83	19.990	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	7,718.60	7,355.04	242.28	207.05	6.877	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	205.35	197.77	27.111	CC, ES
SANFORD 26C-27-XR - Wellbore #1 - Design #1	7,300.00	7,786.18	1,154.73	1,111.01	26.417	SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	192.33	184.76	25.393	CC, ES, SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	180.38	172.80	23.815	CC, ES
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	7,300.00	7,658.70	897.58	853.94	20.567	SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	120.22	112.64	15.872	CC, ES
SANFORD 30C-30-M - Wellbore #1 - Design #1	15,471.99	15,587.02	923.48	655.20	3.442	SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	100.18	92.61	13.228	CC, ES
SANFORD 30N-30A-M - Wellbore #1 - Design #1	15,471.99	15,252.07	881.58	610.52	3.252	SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	140.26	132.68	18.519	CC, ES
SANFORD 30N-30B-M - Wellbore #1 - Design #1	15,471.99	15,408.38	1,101.75	827.07	4.011	SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.46	2.645	CC
SANFORD 31N-30B-M - Wellbore #1 - Design #1	15,471.99	15,410.68	227.02	-41.42	0.846	Level 1, ES, SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	315.17	312.81	119.35	111.68	15.561	CC, ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	500.00	490.92	121.78	113.87	15.389	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	99.82	92.24	13.179	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	15,471.99	15,604.27	1,098.78	824.03	3.999	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	180.46	172.89	23.826	CC, ES
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	300.00	297.29	182.27	174.62	23.818	SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	192.17	184.60	25.372	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	300.00	296.67	193.94	186.28	25.345	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	7,355.96	7,550.44	12.37	-23.67	0.343	Level 1, CC, ES, SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	151.32	143.75	19.979	CC
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	7,531.07	7,458.23	153.31	117.62	4.296	ES, SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.291	CC
SANFORD 4C-30-M - Wellbore #1 - Design #1	15,471.99	15,582.95	280.52	27.77	1.110	Level 2, ES, SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.47	2.646	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	15,471.99	15,270.96	275.93	51.94	1.232	Level 2, SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	60.12	52.54	7.937	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	15,471.99	15,390.83	379.78	107.50	1.395	Level 3, SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	80.14	72.57	10.581	CC, ES
SANFORD 4N-30C-M - Wellbore #1 - Design #1	15,471.99	15,467.55	720.18	445.55	2.622	SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	59.75	52.18	7.889	CC, ES
SANFORD 5C-30-M - Wellbore #1 - Design #1	15,471.99	15,671.25	617.11	346.58	2.281	SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	200.00	79.78	72.21	10.534	CC, ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	15,471.99	15,492.61	881.03	606.57	3.210	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	39.71	32.13	5.243	CC, ES
SANFORD 5N-30C-M - Wellbore #1 - Design #1	15,471.99	15,505.64	439.09	164.50	1.599	SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.00	201.00	155.35	147.77	20.510	CC, ES
SANFORD 8C-27-XR - Wellbore #1 - Design #1	7,800.00	7,313.43	418.59	381.99	11.438	SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	161.51	153.94	21.324	CC, ES
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	7,300.00	7,661.16	649.16	611.76	17.355	SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	170.07	162.50	22.454	CC, ES, SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
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Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-30 Offsets Incomplete						
HOMYAK 1 - XOG PR Well - No Surveys	12,236.78	7,303.83	539.44	198.21	1.581	CC, ES, SF
HOMYAK 2 - XOG SI Well - No Surveys	10,793.19	7,272.20	770.94	454.24	2.434	CC
HOMYAK 2 - XOG SI Well - No Surveys	10,800.00	7,272.20	770.97	454.14	2.433	ES, SF
LUNDVALL 3 - Noble PR Well - No Surveys	14,869.52	7,303.85	737.82	353.21	1.918	CC, ES
LUNDVALL 3 - Noble PR Well - No Surveys	14,900.00	7,303.85	738.45	353.34	1.917	SF
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range
LUNDVALL 4 - Noble PR Well - No Surveys	13,539.90	7,327.50	572.19	208.71	1.574	CC, ES, SF
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,204.28	7,455.37	113.84	-43.16	0.725	Level 1, CC, ES, SF
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys						Out of range
MOSSBERG-PM J30-9 - Noble PR Well - No Surveys						Out of range
RICKS-PM J30-12 - Noble PR Well - No Surveys						Out of range
STEVE J 30-4J - Noble PR Well - Actual Multishot Surve						Out of range
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey	13,414.84	7,497.59	733.70	588.33	5.047	CC, ES, SF

Offset Design													5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLEJ 29-17D - Noble PR Well - Actual En		Offset Site Error:		0.00 usft
Survey Program:													100-SRC Energy_2" CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD		Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
400.00	399.84	388.84	388.84	3.41	12.22	-25.92	-81.57	1,202.49	1,198.97	1,182.54	16.42	73.000					
500.00	499.45	488.50	488.50	3.50	14.99	-26.17	-81.55	1,202.49	1,191.13	1,171.85	19.28	61.793					
600.00	598.70	586.10	586.10	3.61	15.49	-26.53	-81.41	1,202.54	1,180.24	1,160.35	19.89	59.348					
700.00	697.70	682.78	682.77	3.76	15.49	-26.85	-81.33	1,202.77	1,167.80	1,147.78	20.03	58.313					
800.00	796.69	780.62	780.62	3.94	15.50	-27.16	-81.34	1,203.15	1,155.55	1,135.36	20.19	57.231					
900.00	895.68	879.53	879.53	4.14	15.52	-27.48	-81.42	1,203.62	1,143.42	1,123.04	20.38	56.114					
1,000.00	994.67	982.10	982.10	4.36	15.54	-27.81	-81.64	1,203.92	1,131.14	1,110.56	20.59	54.947					
1,100.00	1,093.67	1,082.71	1,082.70	4.60	15.56	-28.14	-81.95	1,203.94	1,118.64	1,097.83	20.81	53.748					
1,200.00	1,192.66	1,181.67	1,181.67	4.86	15.59	-28.48	-82.08	1,203.93	1,106.14	1,085.09	21.06	52.535					
1,300.00	1,291.65	1,277.41	1,277.41	5.12	15.61	-28.80	-82.50	1,204.04	1,093.81	1,072.49	21.31	51.321					
1,400.00	1,390.64	1,383.22	1,383.15	5.40	15.65	-29.00	-85.90	1,204.01	1,081.42	1,059.83	21.59	50.090					
1,500.00	1,489.64	1,476.57	1,476.23	5.68	15.69	-28.97	-92.88	1,203.94	1,069.03	1,047.15	21.88	48.868					
1,600.00	1,588.63	1,585.61	1,584.78	5.98	15.75	-28.81	-103.18	1,203.96	1,056.82	1,034.64	22.18	47.643					
1,700.00	1,687.62	1,688.15	1,686.45	6.28	15.81	-28.47	-116.35	1,202.33	1,043.04	1,020.54	22.50	46.355					
1,800.00	1,786.61	1,773.40	1,770.63	6.58	15.88	-28.03	-129.85	1,201.74	1,030.29	1,007.46	22.83	45.129					
1,900.00	1,885.61	1,846.88	1,843.06	6.75	15.94	-27.61	-142.19	1,202.45	1,019.35	996.53	22.82	44.674					
2,000.00	1,984.60	1,914.65	1,909.87	6.78	16.01	-27.24	-153.19	1,205.14	1,011.41	988.54	22.87	44.220					
2,100.00	2,083.59	1,983.43	1,977.61	6.83	16.07	-26.89	-164.02	1,210.11	1,006.72	983.80	22.93	43.912					
2,200.00	2,182.58	2,063.88	2,056.88	6.89	16.16	-26.57	-175.22	1,217.94	1,004.53	981.51	23.01	43.649					
2,300.00	2,281.58	2,152.03	2,143.70	6.97	16.26	-26.25	-186.81	1,227.88	1,003.88	980.74	23.14	43.380					
2,305.86	2,287.38	2,157.29	2,148.88	6.97	16.26	-26.23	-187.52	1,228.50	1,003.88	980.72	23.15	43.363	CC, ES				
2,400.00	2,380.57	2,239.26	2,229.35	7.06	16.38	-25.88	-199.39	1,238.57	1,004.36	981.07	23.29	43.123					
2,500.00	2,479.56	2,315.08	2,303.47	7.17	16.49	-25.51	-211.32	1,249.24	1,006.83	983.41	23.41	43.004					
2,600.00	2,578.55	2,401.82	2,388.01	7.28	16.64	-25.09	-224.90	1,263.04	1,011.20	987.61	23.59	42.864					
2,700.00	2,677.55	2,500.67	2,484.25	7.42	16.82	-24.60	-240.80	1,279.09	1,016.02	992.18	23.84	42.616					
2,800.00	2,776.54	2,580.50	2,561.56	7.56	16.99	-24.13	-255.03	1,293.00	1,022.29	998.27	24.03	42.548					
2,900.00	2,875.53	2,678.14	2,655.79	7.71	17.23	-23.50	-273.64	1,310.52	1,029.39	1,005.06	24.33	42.318					
3,000.00	2,974.52	2,765.38	2,739.59	7.88	17.47	-22.88	-291.60	1,326.78	1,037.51	1,012.92	24.59	42.190					
3,100.00	3,073.52	2,859.57	2,829.77	8.05	17.76	-22.16	-311.93	1,344.84	1,046.51	1,021.59	24.92	42.000					
3,200.00	3,172.51	2,976.82	2,942.18	8.23	18.11	-21.31	-336.73	1,367.14	1,055.54	1,030.17	25.37	41.606					

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Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
3,300.00	3,271.50	3,077.89	3,039.52	8.43	18.43	-20.62	-357.41	1,384.79	1,062.96	1,037.21	25.75	41.282	
3,400.00	3,370.49	3,178.51	3,136.42	8.63	18.76	-19.95	-377.87	1,402.57	1,070.72	1,044.58	26.14	40.955	
3,500.00	3,469.49	3,291.63	3,245.87	8.83	19.12	-19.29	-399.15	1,421.63	1,077.45	1,050.85	26.60	40.509	
3,600.00	3,568.48	3,379.66	3,331.29	9.05	19.41	-18.86	-414.16	1,436.75	1,084.30	1,057.36	26.93	40.262	
3,700.00	3,667.47	3,479.96	3,428.51	9.27	19.76	-18.45	-430.30	1,455.34	1,092.34	1,065.00	27.34	39.954	
3,800.00	3,766.46	3,580.54	3,526.17	9.50	20.11	-18.03	-446.49	1,473.17	1,099.63	1,071.87	27.76	39.612	
3,900.00	3,865.46	3,696.38	3,638.55	9.73	20.54	-17.48	-466.50	1,492.87	1,106.57	1,078.29	28.28	39.132	
4,000.00	3,964.45	3,785.93	3,725.53	9.97	20.88	-17.07	-481.65	1,507.79	1,113.12	1,084.46	28.66	38.839	
4,100.00	4,063.44	3,866.17	3,803.31	10.21	21.20	-16.74	-494.97	1,522.36	1,121.13	1,092.13	29.00	38.659	
4,200.00	4,162.43	3,957.49	3,891.50	10.46	21.59	-16.32	-511.11	1,539.74	1,130.35	1,100.93	29.42	38.424	
4,300.00	4,261.43	4,056.34	3,986.77	10.71	22.04	-15.84	-529.26	1,558.80	1,140.07	1,110.18	29.89	38.142	
4,400.00	4,360.42	4,158.42	4,085.21	10.97	22.49	-15.35	-548.14	1,578.14	1,149.57	1,119.19	30.38	37.845	
4,500.00	4,459.41	4,265.07	4,188.30	11.23	22.95	-14.91	-566.42	1,598.46	1,158.88	1,128.00	30.88	37.527	
4,600.00	4,558.40	4,366.91	4,306.58	11.49	23.46	-14.44	-586.49	1,619.70	1,166.39	1,134.92	31.47	37.065	
4,700.00	4,657.40	4,461.80	4,398.61	11.75	23.87	-14.05	-602.57	1,636.31	1,174.21	1,142.29	31.92	36.784	
4,800.00	4,756.39	4,561.10	4,505.13	12.02	24.34	-13.70	-619.02	1,654.44	1,180.60	1,148.14	32.45	36.377	
4,900.00	4,855.38	4,676.51	4,588.10	12.29	24.72	-13.37	-633.20	1,668.93	1,187.92	1,155.06	32.87	36.145	
5,000.00	4,954.37	4,778.05	4,686.74	12.57	25.17	-13.06	-648.75	1,687.29	1,195.99	1,162.63	33.36	35.848	
5,500.00	5,449.34	5,507.11	5,405.19	13.97	27.62	-11.47	-730.72	1,766.06	1,198.96	1,162.54	36.42	32.916	
5,600.00	5,548.33	5,633.01	5,531.07	14.26	27.79	-11.67	-730.85	1,767.81	1,186.35	1,149.49	36.86	32.184	
5,700.00	5,647.32	5,743.11	5,641.16	14.55	27.91	-11.88	-729.65	1,768.29	1,172.56	1,135.27	37.28	31.451	
5,800.00	5,746.31	5,848.78	5,746.81	14.84	28.02	-12.13	-727.68	1,767.85	1,157.73	1,120.03	37.70	30.706	
5,900.00	5,845.31	5,937.37	5,835.39	15.13	28.12	-12.31	-726.55	1,767.70	1,143.35	1,105.22	38.13	29.983	
6,000.00	5,944.30	6,028.47	5,926.49	15.42	28.23	-12.47	-726.26	1,768.09	1,129.82	1,091.25	38.57	29.296	
6,100.00	6,043.29	6,122.58	6,020.60	15.72	28.36	-12.63	-726.41	1,768.86	1,116.81	1,077.80	39.01	28.631	
6,200.00	6,142.28	6,221.46	6,119.48	16.01	28.50	-12.77	-726.94	1,769.87	1,104.12	1,064.66	39.46	27.984	
6,300.00	6,241.28	6,323.15	6,221.16	16.31	28.65	-12.91	-727.85	1,770.61	1,091.25	1,051.34	39.91	27.345	
6,400.00	6,340.27	6,425.40	6,323.40	16.61	28.80	-13.03	-728.92	1,771.03	1,078.13	1,037.77	40.36	26.713	
6,500.00	6,439.26	6,527.02	6,425.02	16.90	28.95	-13.16	-729.83	1,771.18	1,064.73	1,023.92	40.81	26.088	
6,600.00	6,538.26	6,627.04	6,525.04	17.20	29.09	-16.27	-730.62	1,771.22	1,051.26	1,009.99	41.27	25.475	
6,682.15	6,620.07	6,709.87	6,607.86	17.35	29.21	-89.09	-731.19	1,771.20	1,046.20	1,004.63	41.58	25.163	
6,700.00	6,637.86	6,727.93	6,625.92	17.38	29.23	-107.77	-731.28	1,771.19	1,046.44	1,004.79	41.65	25.126 SF	
6,800.00	6,736.73	6,833.47	6,731.46	17.50	29.38	-145.16	-731.79	1,770.98	1,056.55	1,014.54	42.02	25.146	
6,900.00	6,832.42	6,928.78	6,826.76	17.58	29.52	-153.11	-732.94	1,770.08	1,081.12	1,038.76	42.36	25.520	
7,000.00	6,922.59	7,017.07	6,915.04	17.62	29.65	-156.11	-733.71	1,769.52	1,120.37	1,077.69	42.69	26.247	
7,100.00	7,005.01	7,100.58	6,998.55	17.63	29.77	-157.27	-734.33	1,769.07	1,173.31	1,130.33	42.98	27.298	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens			Offset Site Error: 0.00 usft	
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD											Offset Well Error: 3.28 usft				
Reference		Offset		Semi Major Axis			Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	94.79	-84.86	1,013.59	1,017.19						
100.00	100.00	89.00	89.00	3.28	3.56	94.79	-84.86	1,013.59	1,017.13	1,009.50	7.63	133.314			
200.00	200.00	189.00	189.00	3.31	5.73	94.79	-84.86	1,013.59	1,017.13	1,007.31	9.82	103.536			
300.00	299.98	288.98	288.98	3.35	8.87	-24.87	-84.86	1,013.59	1,015.55	1,002.55	13.00	78.093			
400.00	399.84	388.84	388.84	3.41	12.22	-25.03	-84.86	1,013.59	1,010.80	994.38	16.42	61.544			
500.00	499.45	488.47	488.47	3.50	14.99	-25.31	-84.84	1,013.59	1,002.91	983.63	19.28	52.030			
600.00	598.70	587.92	587.92	3.61	16.12	-25.72	-84.59	1,013.60	991.89	971.36	20.53	48.323			
700.00	697.70	687.49	687.49	3.76	16.13	-26.09	-84.67	1,013.54	979.09	958.42	20.67	47.375			
800.00	796.69	786.03	786.02	3.94	16.14	-26.44	-84.90	1,013.47	966.31	945.48	20.83	46.392			
900.00	895.68	884.90	884.90	4.14	16.15	-26.81	-84.97	1,013.45	953.61	932.60	21.01	45.381			
1,000.00	994.67	984.71	984.71	4.36	16.17	-27.19	-85.27	1,013.37	940.90	919.68	21.22	44.338			
1,100.00	1,093.67	1,084.47	1,084.47	4.60	16.20	-27.55	-85.90	1,013.19	928.15	906.70	21.45	43.276			
1,200.00	1,192.66	1,184.17	1,184.16	4.86	16.22	-27.92	-86.54	1,012.94	915.36	893.67	21.69	42.203			
1,300.00	1,291.65	1,283.38	1,283.37	5.12	16.25	-28.29	-87.28	1,012.62	902.55	880.60	21.95	41.119			
1,400.00	1,390.64	1,383.16	1,383.14	5.40	16.29	-28.66	-88.32	1,012.28	889.76	867.54	22.22	40.040			
1,500.00	1,489.64	1,487.66	1,487.63	5.68	16.33	-29.05	-89.51	1,011.52	876.62	854.11	22.51	38.943			
1,600.00	1,588.63	1,605.64	1,605.58	5.98	16.38	-29.48	-91.16	1,009.39	862.53	839.72	22.81	37.820			
1,700.00	1,687.62	1,736.94	1,736.60	6.28	16.45	-29.78	-95.91	1,002.47	844.95	821.86	23.09	36.593			
1,800.00	1,786.61	1,861.90	1,860.81	6.58	16.53	-29.82	-104.17	991.73	824.20	800.84	23.36	35.275			
1,900.00	1,885.61	1,990.63	1,988.20	6.75	16.63	-29.79	-113.55	975.82	799.69	776.41	23.29	34.342			
2,000.00	1,984.60	2,107.97	2,103.44	6.78	16.76	-29.47	-125.74	957.48	772.01	748.69	23.32	33.107			
2,100.00	2,083.59	2,243.21	2,235.00	6.83	16.94	-28.79	-143.09	931.44	740.97	717.69	23.28	31.829			
2,200.00	2,182.58	2,337.72	2,326.01	6.89	17.11	-28.06	-157.37	910.39	706.98	683.53	23.45	30.150			
2,300.00	2,281.58	2,420.24	2,405.21	6.97	17.26	-27.15	-172.31	892.66	673.91	650.21	23.70	28.436			
2,400.00	2,380.57	2,513.56	2,494.91	7.06	17.44	-25.97	-189.77	873.78	642.28	618.36	23.92	26.847			
2,500.00	2,479.56	2,617.63	2,594.43	7.17	17.68	-24.43	-209.95	851.01	609.37	585.24	24.14	25.247			
2,600.00	2,578.55	2,734.02	2,705.67	7.28	17.98	-22.69	-230.31	823.53	575.18	550.88	24.30	23.668			
2,700.00	2,677.55	2,830.35	2,796.76	7.42	18.30	-20.86	-248.21	797.78	538.38	513.75	24.63	21.856			
2,800.00	2,776.54	2,917.67	2,879.41	7.56	18.58	-19.02	-264.05	774.51	502.11	477.07	25.04	20.053			
2,900.00	2,875.53	2,996.04	2,954.13	7.71	18.82	-17.27	-277.73	755.23	468.20	442.68	25.52	18.347			
3,000.00	2,974.52	3,079.69	3,034.09	7.88	19.10	-15.06	-293.56	736.48	437.27	411.26	26.01	16.809			
3,100.00	3,073.52	3,180.99	3,130.47	8.05	19.48	-11.72	-314.57	713.42	407.37	380.86	26.51	15.364			
3,200.00	3,172.51	3,278.73	3,223.72	8.23	19.85	-8.30	-332.40	690.24	377.14	350.09	27.05	13.941			
3,300.00	3,271.50	3,370.07	3,311.32	8.43	20.19	-4.97	-346.71	668.70	347.46	319.82	27.64	12.573			
3,400.00	3,370.49	3,456.69	3,394.93	8.63	20.50	-1.53	-359.83	650.23	320.85	292.58	28.26	11.352			
3,500.00	3,469.49	3,548.74	3,484.27	8.83	20.82	2.38	-373.16	632.51	297.16	268.26	28.89	10.285			
3,600.00	3,568.48	3,641.59	3,574.57	9.05	21.15	6.78	-386.21	615.38	275.57	246.03	29.54	9.329			
3,700.00	3,667.47	3,733.76	3,665.07	9.27	21.44	10.93	-396.84	601.44	256.82	226.67	30.15	8.517			
3,800.00	3,766.46	3,834.78	3,764.09	9.50	21.78	16.31	-409.23	585.89	240.13	209.34	30.80	7.798			
3,900.00	3,865.46	3,932.49	3,858.59	9.73	22.19	23.60	-423.06	565.36	223.74	192.21	31.54	7.095			
4,000.00	3,964.45	4,026.50	3,948.52	9.97	22.65	32.46	-437.98	542.37	211.39	179.14	32.26	6.554			
4,100.00	4,063.44	4,114.85	4,032.68	10.21	23.10	41.69	-453.17	520.17	206.15	173.41	32.74	6.297			
4,116.33	4,079.61	4,130.33	4,047.39	10.25	23.18	43.35	-455.95	516.26	206.06	173.26	32.80	6.282			
4,200.00	4,162.43	4,210.50	4,123.76	10.46	23.58	51.82	-469.80	496.16	208.11	175.08	33.03	6.301			
4,300.00	4,261.43	4,311.59	4,220.89	10.71	24.04	61.61	-484.67	472.47	214.30	181.10	33.20	6.455			
4,400.00	4,360.42	4,409.42	4,316.10	10.97	24.45	69.69	-495.70	452.90	222.20	188.95	33.25	6.683			
4,500.00	4,459.41	4,509.28	4,413.50	11.23	24.85	76.98	-507.20	434.14	234.20	200.90	33.30	7.033			
4,600.00	4,558.40	4,615.14	4,517.78	11.49	25.21	83.28	-516.34	418.40	245.33	211.87	33.46	7.333			
4,700.00	4,657.40	4,718.73	4,620.49	11.75	25.50	88.16	-523.83	407.38	255.60	221.98	33.62	7.602			
4,800.00	4,756.39	4,823.94	4,725.22	12.02	25.75	92.39	-529.52	399.10	264.43	230.59	33.84	7.815			
4,900.00	4,855.38	4,923.73	4,824.71	12.29	25.96	95.95	-534.06	392.93	272.79	238.73	34.05	8.011			
5,000.00	4,954.37	5,025.67	4,926.41	12.57	26.17	98.98	-539.47	388.44	281.62	247.29	34.33	8.204			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens			Offset Site Error:		0.00 usft
Survey Program:											100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD			Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	5,053.37	5,126.36	5,026.94	12.85	26.35	101.56	-544.52	385.79	289.74	255.11	34.63	8.368				
5,200.00	5,152.36	5,238.38	5,138.89	13.12	26.52	104.68	-546.59	383.17	295.94	261.00	34.94	8.469				
5,300.00	5,251.35	5,341.23	5,241.73	13.41	26.64	107.62	-545.66	382.28	299.91	264.65	35.26	8.506				
5,400.00	5,350.34	5,440.96	5,341.46	13.69	26.75	110.30	-544.72	382.21	303.98	268.37	35.61	8.537				
5,500.00	5,449.34	5,539.33	5,439.82	13.97	26.86	112.78	-544.07	382.53	308.55	272.56	35.99	8.574				
5,600.00	5,548.33	5,636.99	5,537.48	14.26	26.98	115.10	-543.99	382.79	314.08	277.69	36.39	8.631				
5,700.00	5,647.32	5,741.50	5,641.98	14.55	27.09	117.36	-544.16	383.93	319.58	282.78	36.80	8.685				
5,800.00	5,746.31	5,842.78	5,743.22	14.84	27.19	119.33	-544.12	386.97	323.77	286.54	37.23	8.697				
5,900.00	5,845.31	5,933.12	5,833.54	15.13	27.30	121.06	-544.71	388.46	329.83	292.14	37.69	8.751				
6,000.00	5,944.30	6,027.45	5,927.86	15.42	27.43	122.84	-546.17	387.82	338.69	300.53	38.16	8.876				
6,100.00	6,043.29	6,128.28	6,028.67	15.72	27.58	124.67	-547.60	387.04	347.94	309.30	38.64	9.006				
6,200.00	6,142.28	6,228.71	6,129.10	16.01	27.73	126.40	-548.85	386.72	357.04	317.92	39.12	9.127				
6,300.00	6,241.28	6,329.11	6,229.48	16.31	27.87	127.96	-550.38	386.91	366.07	326.46	39.61	9.242				
6,400.00	6,340.27	6,428.59	6,328.95	16.61	28.02	129.44	-551.81	387.31	375.12	335.02	40.10	9.354				
6,500.00	6,439.26	6,528.07	6,428.43	16.90	28.16	130.92	-552.75	387.63	384.34	343.74	40.60	9.466				
6,600.00	6,538.26	6,627.76	6,528.11	17.20	28.30	129.42	-553.60	388.05	393.61	352.51	41.10	9.577				
6,700.00	6,637.86	6,727.93	6,628.28	17.38	28.44	39.32	-554.48	388.63	394.22	352.74	41.48	9.504				
6,800.00	6,736.73	6,827.17	6,727.51	17.50	28.58	2.16	-555.38	389.33	379.82	338.02	41.80	9.087				
6,900.00	6,832.42	6,922.35	6,822.69	17.58	28.72	-6.98	-556.20	390.00	350.78	308.73	42.05	8.343				
7,000.00	6,922.59	7,011.92	6,912.26	17.62	28.85	-13.05	-556.80	390.46	308.07	265.85	42.22	7.297				
7,100.00	7,005.01	7,094.58	6,994.91	17.63	28.96	-20.55	-557.20	390.85	253.02	210.71	42.31	5.980				
7,200.00	7,077.65	7,167.19	7,067.52	17.64	29.07	-33.44	-557.43	391.28	188.22	145.89	42.32	4.447				
7,300.00	7,138.73	7,227.78	7,128.11	17.64	29.16	-57.63	-557.57	391.69	120.46	77.92	42.54	2.832				
7,400.00	7,186.74	7,275.15	7,175.47	17.69	29.23	-89.13	-557.71	392.02	79.35	34.00	45.36	1.750				
7,402.39	7,187.71	7,276.10	7,176.43	17.69	29.23	-89.78	-557.72	392.03	79.32	33.87	45.45	1.745 CC, ES, SF				
7,500.00	7,220.49	7,308.19	7,208.51	17.80	29.27	-106.59	-557.83	392.26	121.89	75.82	46.08	2.646				
7,600.00	7,239.17	7,326.12	7,226.44	18.02	29.30	-104.02	-557.90	392.39	207.07	161.84	45.23	4.578				
7,700.00	7,243.00	7,329.20	7,229.52	18.40	29.30	-88.07	-557.91	392.41	302.17	257.36	44.81	6.743				
7,800.00	7,242.97	7,328.44	7,228.76	18.96	29.30	-87.49	-557.91	392.41	399.77	355.18	44.59	8.965				
7,900.00	7,242.95	7,327.67	7,228.00	19.67	29.30	-86.91	-557.91	392.40	498.32	453.86	44.46	11.208				
8,000.00	7,242.92	7,326.91	7,227.23	20.51	29.30	-86.34	-557.90	392.39	597.35	552.98	44.38	13.461				
8,100.00	7,242.89	7,326.15	7,226.47	21.45	29.30	-85.76	-557.90	392.39	696.66	652.34	44.32	15.718				
8,200.00	7,242.87	7,325.39	7,225.71	22.48	29.30	-85.19	-557.90	392.38	796.14	751.86	44.29	17.977				
8,300.00	7,242.84	7,324.63	7,224.95	23.59	29.30	-84.62	-557.89	392.38	895.74	851.48	44.26	20.237				
8,400.00	7,242.82	7,323.87	7,224.19	24.76	29.30	-84.05	-557.89	392.37	995.41	951.17	44.25	22.496				
8,500.00	7,242.79	7,323.11	7,223.44	25.98	29.30	-83.48	-557.89	392.37	1,095.15	1,050.91	44.24	24.754				
8,600.00	7,242.77	7,322.35	7,222.68	27.25	29.29	-82.91	-557.89	392.36	1,194.93	1,150.69	44.24	27.009				

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	94.57	-83.05	1,037.83	1,041.20				
100.00	100.00	89.00	89.00	3.28	3.56	94.57	-83.05	1,037.83	1,041.14	1,033.51	7.63	136.461	
200.00	200.00	189.00	189.00	3.31	5.73	94.57	-83.05	1,037.83	1,041.14	1,031.32	9.82	105.980	
300.00	299.98	288.98	288.98	3.35	8.87	-25.08	-83.05	1,037.83	1,039.56	1,026.56	13.00	79.939	
400.00	399.84	388.84	388.84	3.41	12.22	-25.24	-83.05	1,037.83	1,034.82	1,018.40	16.42	63.006	
500.00	499.45	488.45	488.45	3.50	15.65	-25.52	-83.05	1,037.83	1,026.94	1,007.00	19.94	51.500	
600.00	598.70	587.70	587.70	3.61	19.11	-25.91	-83.05	1,037.83	1,015.95	992.44	23.51	43.219	
700.00	697.70	686.70	686.70	3.76	22.57	-26.27	-83.05	1,037.83	1,003.22	976.11	27.11	37.011	
800.00	796.69	785.69	785.69	3.94	26.04	-26.63	-83.05	1,037.83	990.51	959.78	30.73	32.230	
900.00	895.68	884.68	884.68	4.14	29.53	-27.00	-83.05	1,037.83	977.85	943.46	34.39	28.437	
1,000.00	994.67	983.67	983.67	4.36	33.02	-27.38	-83.05	1,037.83	965.23	927.17	38.06	25.358	
1,100.00	1,093.67	1,082.67	1,082.67	4.60	36.51	-27.77	-83.05	1,037.83	952.65	910.89	41.76	22.813	
1,200.00	1,192.66	1,181.66	1,181.66	4.86	40.00	-28.18	-83.05	1,037.83	940.12	894.65	45.47	20.675	
1,300.00	1,291.65	1,280.65	1,280.65	5.12	43.50	-28.59	-83.05	1,037.83	927.64	878.44	49.20	18.856	
1,400.00	1,390.64	1,379.64	1,379.64	5.40	47.00	-29.01	-83.05	1,037.83	915.20	862.27	52.93	17.290	
1,500.00	1,489.64	1,478.64	1,478.64	5.68	50.50	-29.45	-83.05	1,037.83	902.81	846.13	56.68	15.928	
1,600.00	1,588.63	1,577.63	1,577.63	5.98	54.00	-29.89	-83.05	1,037.83	890.48	830.04	60.44	14.734	
1,700.00	1,687.62	1,676.62	1,676.62	6.28	57.50	-30.35	-83.05	1,037.83	878.20	814.00	64.20	13.678	
1,800.00	1,786.61	1,775.61	1,775.61	6.58	61.00	-30.82	-83.05	1,037.83	865.98	798.00	67.98	12.739	
1,900.00	1,885.61	1,874.61	1,874.61	6.75	64.50	-31.31	-83.05	1,037.83	853.82	782.40	71.42	11.955	
2,000.00	1,984.60	1,973.60	1,973.60	6.78	68.01	-31.81	-83.05	1,037.83	841.72	766.77	74.95	11.231	
2,100.00	2,083.59	2,072.59	2,072.59	6.83	71.51	-32.32	-83.05	1,037.83	829.69	751.19	78.49	10.570	
2,200.00	2,182.58	2,171.58	2,171.58	6.89	75.01	-32.85	-83.05	1,037.83	817.72	735.67	82.06	9.965	
2,300.00	2,281.58	2,270.58	2,270.58	6.97	78.52	-33.40	-83.05	1,037.83	805.83	720.20	85.63	9.410	
2,400.00	2,380.57	2,369.57	2,369.57	7.06	82.02	-33.96	-83.05	1,037.83	794.01	704.78	89.22	8.899	
2,500.00	2,479.56	2,468.56	2,468.56	7.17	85.53	-34.53	-83.05	1,037.83	782.27	689.44	92.83	8.427	
2,600.00	2,578.55	2,567.55	2,567.55	7.28	89.03	-35.13	-83.05	1,037.83	770.61	674.15	96.45	7.990	
2,700.00	2,677.55	2,666.55	2,666.55	7.42	92.54	-35.74	-83.05	1,037.83	759.03	658.95	100.08	7.584	
2,800.00	2,776.54	2,765.54	2,765.54	7.56	96.04	-36.37	-83.05	1,037.83	747.54	643.81	103.73	7.207	
2,900.00	2,875.53	2,864.53	2,864.53	7.71	99.55	-37.02	-83.05	1,037.83	736.15	628.76	107.39	6.855	
3,000.00	2,974.52	2,963.52	2,963.52	7.88	103.05	-37.70	-83.05	1,037.83	724.85	613.79	111.06	6.527	
3,100.00	3,073.52	3,062.52	3,062.52	8.05	106.56	-38.39	-83.05	1,037.83	713.66	598.92	114.74	6.220	
3,200.00	3,172.51	3,161.51	3,161.51	8.23	110.07	-39.10	-83.05	1,037.83	702.57	584.14	118.43	5.932	
3,300.00	3,271.50	3,260.50	3,260.50	8.43	113.57	-39.84	-83.05	1,037.83	691.60	569.47	122.13	5.663	
3,400.00	3,370.49	3,359.49	3,359.49	8.63	117.08	-40.60	-83.05	1,037.83	680.74	554.90	125.84	5.410	
3,500.00	3,469.49	3,458.49	3,458.49	8.83	120.59	-41.38	-83.05	1,037.83	670.01	540.45	129.56	5.171	
3,600.00	3,568.48	3,557.48	3,557.48	9.05	124.09	-42.19	-83.05	1,037.83	659.40	526.12	133.29	4.947	
3,700.00	3,667.47	3,656.47	3,656.47	9.27	127.60	-43.03	-83.05	1,037.83	648.93	511.91	137.02	4.736	
3,800.00	3,766.46	3,755.46	3,755.46	9.50	131.10	-43.89	-83.05	1,037.83	638.61	497.84	140.76	4.537	
3,900.00	3,865.46	3,854.46	3,854.46	9.73	134.61	-44.78	-83.05	1,037.83	628.43	483.92	144.51	4.349	
4,000.00	3,964.45	3,953.45	3,953.45	9.97	138.12	-45.70	-83.05	1,037.83	618.41	470.14	148.26	4.171	
4,100.00	4,063.44	4,052.44	4,052.44	10.21	141.62	-46.65	-83.05	1,037.83	608.55	456.53	152.02	4.003	
4,200.00	4,162.43	4,151.43	4,151.43	10.46	145.13	-47.63	-83.05	1,037.83	598.87	443.08	155.79	3.844	
4,300.00	4,261.43	4,250.43	4,250.43	10.71	148.64	-48.64	-83.05	1,037.83	589.37	429.80	159.56	3.694	
4,400.00	4,360.42	4,349.42	4,349.42	10.97	152.14	-49.69	-83.05	1,037.83	580.05	416.72	163.34	3.551	
4,500.00	4,459.41	4,448.41	4,448.41	11.23	155.65	-50.76	-83.05	1,037.83	570.94	403.82	167.12	3.416	
4,600.00	4,558.40	4,547.40	4,547.40	11.49	159.16	-51.87	-83.05	1,037.83	562.04	391.13	170.90	3.289	
4,700.00	4,657.40	4,646.40	4,646.40	11.75	162.66	-53.02	-83.05	1,037.83	553.35	378.66	174.69	3.168	
4,800.00	4,756.39	4,745.39	4,745.39	12.02	166.17	-54.20	-83.05	1,037.83	544.89	366.41	178.49	3.053	
4,900.00	4,855.38	4,844.38	4,844.38	12.29	169.68	-55.42	-83.05	1,037.83	536.68	354.40	182.28	2.944	
5,000.00	4,954.37	4,943.37	4,943.37	12.57	173.18	-56.67	-83.05	1,037.83	528.72	342.63	186.08	2.841	
5,100.00	5,053.37	5,042.37	5,042.37	12.85	176.69	-57.97	-83.05	1,037.83	521.02	331.13	189.89	2.744	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,152.36	5,141.36	5,141.36	13.12	180.20	-59.30	-83.05	1,037.83	513.59	319.90	193.69	2.652	
5,300.00	5,251.35	5,240.35	5,240.35	13.41	183.71	-60.66	-83.05	1,037.83	506.45	308.95	197.50	2.564	
5,400.00	5,350.34	5,339.34	5,339.34	13.69	187.21	-62.07	-83.05	1,037.83	499.61	298.30	201.31	2.482	
5,500.00	5,449.34	5,438.34	5,438.34	13.97	190.72	-63.51	-83.05	1,037.83	493.08	287.96	205.13	2.404	
5,600.00	5,548.33	5,537.33	5,537.33	14.26	194.23	-64.99	-83.05	1,037.83	486.88	277.94	208.94	2.330	
5,700.00	5,647.32	5,636.32	5,636.32	14.55	197.73	-66.50	-83.05	1,037.83	481.02	268.26	212.76	2.261	
5,800.00	5,746.31	5,735.31	5,735.31	14.84	201.24	-68.06	-83.05	1,037.83	475.50	258.93	216.57	2.196	
5,900.00	5,845.31	5,834.31	5,834.31	15.13	204.75	-69.64	-83.05	1,037.83	470.34	249.96	220.39	2.134	
6,000.00	5,944.30	5,933.30	5,933.30	15.42	208.25	-71.26	-83.05	1,037.83	465.56	241.36	224.21	2.077	
6,100.00	6,043.29	6,032.29	6,032.29	15.72	211.76	-72.91	-83.05	1,037.83	461.17	233.15	228.02	2.022	
6,200.00	6,142.28	6,131.28	6,131.28	16.01	215.27	-74.59	-83.05	1,037.83	457.17	225.33	231.84	1.972	
6,300.00	6,241.28	6,230.28	6,230.28	16.31	218.78	-76.30	-83.05	1,037.83	453.58	217.92	235.65	1.925	
6,400.00	6,340.27	6,329.27	6,329.27	16.61	222.28	-78.03	-83.05	1,037.83	450.40	210.94	239.46	1.881	
6,500.00	6,439.26	6,428.26	6,428.26	16.90	225.79	-79.79	-83.05	1,037.83	447.65	204.37	243.28	1.840	
6,600.00	6,538.26	6,527.26	6,527.26	17.20	229.30	-84.49	-83.05	1,037.83	445.37	198.29	247.08	1.803	
6,612.56	6,550.73	6,539.73	6,539.73	17.22	229.74	-90.00	-83.05	1,037.83	445.29	197.74	247.55	1.799 CC, ES	
6,700.00	6,637.86	6,626.86	6,626.86	17.38	232.83	-176.70	-83.05	1,037.83	449.01	198.22	250.79	1.790 SF	
6,800.00	6,736.73	6,725.73	6,725.73	17.50	236.33	145.98	-83.05	1,037.83	462.16	207.74	254.42	1.817	
6,900.00	6,832.42	6,821.42	6,821.42	17.58	239.72	138.55	-83.05	1,037.83	484.91	227.03	257.88	1.880	
7,000.00	6,922.59	6,911.59	6,911.59	17.62	242.91	136.08	-83.05	1,037.83	517.89	256.78	261.11	1.983	
7,100.00	7,005.01	7,005.99	6,994.01	17.63	246.26	134.82	-83.05	1,037.83	561.74	297.28	264.45	2.124	
7,200.00	7,077.65	7,066.65	7,066.65	17.64	248.41	133.33	-83.05	1,037.83	616.67	350.10	266.57	2.313	
7,300.00	7,138.73	7,127.73	7,127.73	17.64	250.57	130.63	-83.05	1,037.83	682.23	413.54	268.68	2.539	
7,400.00	7,186.74	7,175.74	7,175.74	17.69	252.27	125.67	-83.05	1,037.83	757.22	486.90	270.32	2.801	
7,500.00	7,220.49	7,209.49	7,209.49	17.80	253.47	117.07	-83.05	1,037.83	839.86	568.42	271.45	3.094	
7,600.00	7,239.17	7,228.17	7,228.17	18.02	254.13	103.15	-83.05	1,037.83	927.95	655.92	272.03	3.411	
7,700.00	7,243.00	7,232.00	7,232.00	18.40	254.27	89.97	-83.05	1,037.83	1,019.06	746.97	272.10	3.745	
7,800.00	7,242.97	7,231.97	7,231.97	18.96	254.27	89.96	-83.05	1,037.83	1,111.71	839.67	272.04	4.087	

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)		Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448														Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	94.22	-80.13	1,086.30	1,089.31						
100.00	100.00	89.00	89.00	3.28	3.56	94.22	-80.13	1,086.30	1,089.26	1,081.63	7.63	142.767			
200.00	200.00	189.00	189.00	3.31	5.73	94.22	-80.13	1,086.30	1,089.26	1,079.43	9.82	110.878			
300.00	299.98	288.98	288.98	3.35	8.87	-25.43	-80.13	1,086.30	1,087.68	1,074.67	13.00	83.639			
400.00	399.84	388.84	388.84	3.41	12.22	-25.59	-80.13	1,086.30	1,082.96	1,066.53	16.42	65.937			
500.00	499.45	488.45	488.45	3.50	15.65	-25.86	-80.13	1,086.30	1,075.10	1,055.16	19.94	53.915			
600.00	598.70	587.70	587.70	3.61	19.11	-26.25	-80.13	1,086.30	1,064.13	1,040.63	23.51	45.268			
700.00	697.70	686.70	686.70	3.76	22.57	-26.59	-80.13	1,086.30	1,051.44	1,024.33	27.11	38.790			
800.00	796.69	785.69	785.69	3.94	26.04	-26.94	-80.13	1,086.30	1,038.77	1,008.04	30.73	33.799			
900.00	895.68	884.68	884.68	4.14	29.53	-27.30	-80.13	1,086.30	1,026.14	991.75	34.39	29.840			
1,000.00	994.67	983.67	983.67	4.36	33.02	-27.67	-80.13	1,086.30	1,013.55	975.49	38.06	26.627			
1,100.00	1,093.67	1,082.67	1,082.67	4.60	36.51	-28.04	-80.13	1,086.30	1,001.01	959.25	41.76	23.971			
1,200.00	1,192.66	1,181.66	1,181.66	4.86	40.00	-28.43	-80.13	1,086.30	988.50	943.03	45.47	21.739			
1,300.00	1,291.65	1,280.65	1,280.65	5.12	43.50	-28.82	-80.13	1,086.30	976.05	926.85	49.20	19.840			
1,400.00	1,390.64	1,379.64	1,379.64	5.40	47.00	-29.23	-80.13	1,086.30	963.64	910.70	52.93	18.204			
1,500.00	1,489.64	1,478.64	1,478.64	5.68	50.50	-29.64	-80.13	1,086.30	951.27	894.59	56.68	16.782			
1,600.00	1,588.63	1,577.63	1,577.63	5.98	54.00	-30.07	-80.13	1,086.30	938.96	878.52	60.44	15.536			
1,700.00	1,687.62	1,676.62	1,676.62	6.28	57.50	-30.51	-80.13	1,086.30	926.71	862.50	64.21	14.434			
1,800.00	1,786.61	1,775.61	1,775.61	6.58	61.00	-30.96	-80.13	1,086.30	914.50	846.53	67.98	13.453			
1,900.00	1,885.61	1,874.61	1,874.61	6.75	64.50	-31.42	-80.13	1,086.30	902.36	830.94	71.42	12.634			
2,000.00	1,984.60	1,973.60	1,973.60	6.78	68.01	-31.89	-80.13	1,086.30	890.27	815.32	74.95	11.878			
2,100.00	2,083.59	2,072.59	2,072.59	6.83	71.51	-32.38	-80.13	1,086.30	878.25	799.75	78.50	11.189			
2,200.00	2,182.58	2,171.58	2,171.58	6.89	75.01	-32.88	-80.13	1,086.30	866.29	784.23	82.06	10.557			
2,300.00	2,281.58	2,270.58	2,270.58	6.97	78.52	-33.39	-80.13	1,086.30	854.39	768.76	85.63	9.977			
2,400.00	2,380.57	2,369.57	2,369.57	7.06	82.02	-33.92	-80.13	1,086.30	842.57	753.35	89.22	9.443			
2,500.00	2,479.56	2,468.56	2,468.56	7.17	85.53	-34.46	-80.13	1,086.30	830.82	737.99	92.83	8.950			
2,600.00	2,578.55	2,567.55	2,567.55	7.28	89.03	-35.02	-80.13	1,086.30	819.15	722.70	96.45	8.493			
2,700.00	2,677.55	2,666.55	2,666.55	7.42	92.54	-35.60	-80.13	1,086.30	807.56	707.47	100.08	8.069			
2,800.00	2,776.54	2,765.54	2,765.54	7.56	96.04	-36.19	-80.13	1,086.30	796.04	692.32	103.73	7.674			
2,900.00	2,875.53	2,864.53	2,864.53	7.71	99.55	-36.80	-80.13	1,086.30	784.62	677.24	107.39	7.307			
3,000.00	2,974.52	2,963.52	2,963.52	7.88	103.05	-37.42	-80.13	1,086.30	773.29	662.23	111.05	6.963			
3,100.00	3,073.52	3,062.52	3,062.52	8.05	106.56	-38.07	-80.13	1,086.30	762.05	647.31	114.73	6.642			
3,200.00	3,172.51	3,161.51	3,161.51	8.23	110.07	-38.73	-80.13	1,086.30	750.91	632.48	118.42	6.341			
3,300.00	3,271.50	3,260.50	3,260.50	8.43	113.57	-39.41	-80.13	1,086.30	739.87	617.75	122.12	6.058			
3,400.00	3,370.49	3,359.49	3,359.49	8.63	117.08	-40.12	-80.13	1,086.30	728.94	603.11	125.83	5.793			
3,500.00	3,469.49	3,458.49	3,458.49	8.83	120.59	-40.84	-80.13	1,086.30	718.13	588.58	129.55	5.543			
3,600.00	3,568.48	3,557.48	3,557.48	9.05	124.09	-41.59	-80.13	1,086.30	707.43	574.15	133.27	5.308			
3,700.00	3,667.47	3,656.47	3,656.47	9.27	127.60	-42.36	-80.13	1,086.30	696.85	559.85	137.01	5.086			
3,800.00	3,766.46	3,755.46	3,755.46	9.50	131.10	-43.15	-80.13	1,086.30	686.41	545.66	140.75	4.877			
3,900.00	3,865.46	3,854.46	3,854.46	9.73	134.61	-43.97	-80.13	1,086.30	676.10	531.60	144.49	4.679			
4,000.00	3,964.45	3,953.45	3,953.45	9.97	138.12	-44.81	-80.13	1,086.30	665.93	517.68	148.25	4.492			
4,100.00	4,063.44	4,052.44	4,052.44	10.21	141.62	-45.68	-80.13	1,086.30	655.91	503.90	152.01	4.315			
4,200.00	4,162.43	4,151.43	4,151.43	10.46	145.13	-46.57	-80.13	1,086.30	646.04	490.27	155.77	4.147			
4,300.00	4,261.43	4,250.43	4,250.43	10.71	148.64	-47.49	-80.13	1,086.30	636.34	476.80	159.54	3.989			
4,400.00	4,360.42	4,349.42	4,349.42	10.97	152.14	-48.44	-80.13	1,086.30	626.80	463.49	163.31	3.838			
4,500.00	4,459.41	4,448.41	4,448.41	11.23	155.65	-49.42	-80.13	1,086.30	617.45	450.35	167.09	3.695			
4,600.00	4,558.40	4,547.40	4,547.40	11.49	159.16	-50.42	-80.13	1,086.30	608.28	437.40	170.88	3.560			
4,700.00	4,657.40	4,646.40	4,646.40	11.75	162.66	-51.46	-80.13	1,086.30	599.30	424.64	174.66	3.431			
4,800.00	4,756.39	4,745.39	4,745.39	12.02	166.17	-52.53	-80.13	1,086.30	590.53	412.07	178.46	3.309			
4,900.00	4,855.38	4,844.38	4,844.38	12.29	169.68	-53.63	-80.13	1,086.30	581.96	399.71	182.25	3.193			
5,000.00	4,954.37	4,943.37	4,943.37	12.57	173.18	-54.76	-80.13	1,086.30	573.62	387.57	186.05	3.083			
5,100.00	5,053.37	5,042.37	5,042.37	12.85	176.69	-55.92	-80.13	1,086.30	565.52	375.66	189.85	2.979			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,152.36	5,141.36	5,141.36	13.12	180.20	-57.12	-80.13	1,086.30	557.65	363.99	193.66	2.880	
5,300.00	5,251.35	5,240.35	5,240.35	13.41	183.71	-58.35	-80.13	1,086.30	550.04	352.57	197.46	2.786	
5,400.00	5,350.34	5,339.34	5,339.34	13.69	187.21	-59.61	-80.13	1,086.30	542.68	341.41	201.27	2.696	
5,500.00	5,449.34	5,438.34	5,438.34	13.97	190.72	-60.91	-80.13	1,086.30	535.61	330.52	205.08	2.612	
5,600.00	5,548.33	5,537.33	5,537.33	14.26	194.23	-62.24	-80.13	1,086.30	528.81	319.91	208.90	2.531	
5,700.00	5,647.32	5,636.32	5,636.32	14.55	197.73	-63.60	-80.13	1,086.30	522.31	309.60	212.71	2.455	
5,800.00	5,746.31	5,735.31	5,735.31	14.84	201.24	-65.00	-80.13	1,086.30	516.12	299.59	216.53	2.384	
5,900.00	5,845.31	5,834.31	5,834.31	15.13	204.75	-66.43	-80.13	1,086.30	510.25	289.90	220.35	2.316	
6,000.00	5,944.30	5,933.30	5,933.30	15.42	208.25	-67.89	-80.13	1,086.30	504.70	280.54	224.17	2.251	
6,100.00	6,043.29	6,032.29	6,032.29	15.72	211.76	-69.38	-80.13	1,086.30	499.50	271.51	227.99	2.191	
6,200.00	6,142.28	6,131.28	6,131.28	16.01	215.27	-70.90	-80.13	1,086.30	494.64	262.84	231.81	2.134	
6,300.00	6,241.28	6,230.28	6,230.28	16.31	218.78	-72.45	-80.13	1,086.30	490.15	254.53	235.62	2.080	
6,400.00	6,340.27	6,329.27	6,329.27	16.61	222.28	-74.03	-80.13	1,086.30	486.03	246.59	239.44	2.030	
6,500.00	6,439.26	6,428.26	6,428.26	16.90	225.79	-75.63	-80.13	1,086.30	482.29	239.03	243.26	1.983	
6,600.00	6,538.26	6,527.26	6,527.26	17.20	229.30	-80.18	-80.13	1,086.30	478.98	231.91	247.07	1.939	
6,620.59	6,558.71	6,547.71	6,547.71	17.24	230.02	-90.00	-80.13	1,086.30	478.75	230.91	247.83	1.932 CC, ES	
6,700.00	6,637.86	6,626.86	6,626.86	17.38	232.83	-172.31	-80.13	1,086.30	482.09	231.31	250.78	1.922 SF	
6,800.00	6,736.73	6,725.73	6,725.73	17.50	236.33	150.24	-80.13	1,086.30	495.63	241.22	254.41	1.948	
6,900.00	6,832.42	6,821.42	6,821.42	17.58	239.72	142.50	-80.13	1,086.30	519.56	261.69	257.87	2.015	
7,000.00	6,922.59	6,911.59	6,911.59	17.62	242.91	139.61	-80.13	1,086.30	554.23	293.14	261.09	2.123	
7,100.00	7,005.01	7,005.99	6,994.01	17.63	246.26	137.90	-80.13	1,086.30	599.99	335.56	264.43	2.269	
7,200.00	7,077.65	7,066.65	7,066.65	17.64	248.41	135.98	-80.13	1,086.30	656.80	390.25	266.54	2.464	
7,300.00	7,138.73	7,127.73	7,127.73	17.64	250.57	132.88	-80.13	1,086.30	724.02	455.37	268.65	2.695	
7,400.00	7,186.74	7,175.74	7,175.74	17.69	252.27	127.52	-80.13	1,086.30	800.42	530.13	270.29	2.961	
7,500.00	7,220.49	7,209.49	7,209.49	17.80	253.47	118.42	-80.13	1,086.30	884.18	612.77	271.42	3.258	
7,600.00	7,239.17	7,228.17	7,228.17	18.02	254.13	103.79	-80.13	1,086.30	973.16	701.15	272.01	3.578	
7,700.00	7,243.00	7,232.00	7,232.00	18.40	254.27	89.96	-80.13	1,086.30	1,064.94	792.87	272.07	3.914	
7,800.00	7,242.97	7,231.97	7,231.97	18.96	254.27	89.96	-80.13	1,086.30	1,158.11	886.09	272.02	4.258	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-119.61	-99.45	-174.97	201.26				
100.00	100.00	101.00	99.00	3.28	3.74	-119.61	-99.45	-174.97	201.26	193.44	7.82	25.739	
200.00	200.00	201.00	199.00	3.31	6.28	-119.61	-99.45	-174.97	201.26	190.88	10.37	19.403 CC	
300.00	299.98	301.02	298.98	3.35	9.48	121.20	-99.45	-174.97	202.16	188.54	13.62	14.845	
400.00	399.84	401.16	398.84	3.41	12.87	122.40	-99.45	-174.97	204.92	187.85	17.07	12.007	
500.00	499.45	501.55	498.45	3.50	16.33	124.33	-99.45	-174.97	209.72	189.10	20.62	10.171	
600.00	598.70	602.30	597.70	3.61	19.84	126.86	-99.45	-174.97	216.85	192.61	24.25	8.944	
700.00	697.70	703.30	696.70	3.76	23.38	129.71	-99.45	-174.97	225.68	197.75	27.93	8.081	
800.00	796.69	804.31	795.69	3.94	26.93	132.35	-99.45	-174.97	235.03	203.39	31.64	7.429	
900.00	895.68	905.32	894.68	4.14	30.48	134.79	-99.45	-174.97	244.84	209.47	35.38	6.921	
1,000.00	994.67	1,006.33	993.67	4.36	34.04	137.03	-99.45	-174.97	255.06	215.93	39.13	6.518	
1,100.00	1,093.67	1,107.33	1,092.67	4.60	37.61	139.11	-99.45	-174.97	265.65	222.74	42.90	6.192	
1,200.00	1,192.66	1,208.34	1,191.66	4.86	41.17	141.02	-99.45	-174.97	276.55	229.86	46.69	5.923	
1,300.00	1,291.65	1,309.35	1,290.65	5.12	44.74	142.79	-99.45	-174.97	287.74	237.25	50.48	5.699	
1,400.00	1,390.64	1,389.64	1,389.64	5.40	47.58	144.42	-99.45	-174.97	299.17	245.62	53.56	5.586	
1,500.00	1,489.64	1,488.64	1,488.64	5.68	51.08	145.94	-99.45	-174.97	310.84	253.54	57.30	5.425	
1,600.00	1,588.63	1,587.63	1,587.63	5.98	54.58	147.34	-99.45	-174.97	322.70	261.66	61.04	5.286	
1,700.00	1,687.62	1,686.62	1,686.62	6.28	58.08	148.64	-99.45	-174.97	334.74	269.95	64.80	5.166	
1,800.00	1,786.61	1,785.61	1,785.61	6.58	61.58	149.86	-99.45	-174.97	346.94	278.39	68.55	5.061	
1,900.00	1,885.61	1,884.61	1,884.61	6.75	65.09	150.99	-99.45	-174.97	359.29	287.31	71.98	4.992	
2,000.00	1,984.60	1,983.60	1,983.60	6.78	68.59	152.05	-99.45	-174.97	371.76	296.27	75.49	4.925	
2,100.00	2,083.59	2,082.59	2,082.59	6.83	72.09	153.03	-99.45	-174.97	384.35	305.33	79.02	4.864	
2,200.00	2,182.58	2,181.58	2,181.58	6.89	75.60	153.96	-99.45	-174.97	397.05	314.49	82.56	4.809	
2,300.00	2,281.58	2,280.58	2,280.58	6.97	79.10	154.83	-99.45	-174.97	409.84	323.72	86.12	4.759	
2,400.00	2,380.57	2,379.57	2,379.57	7.06	82.61	155.64	-99.45	-174.97	422.72	333.03	89.69	4.713	
2,500.00	2,479.56	2,478.56	2,478.56	7.17	86.11	156.41	-99.45	-174.97	435.68	342.40	93.28	4.671	
2,600.00	2,578.55	2,577.55	2,577.55	7.28	89.62	157.13	-99.45	-174.97	448.71	351.83	96.88	4.632	
2,700.00	2,677.55	2,676.55	2,676.55	7.42	93.12	157.81	-99.45	-174.97	461.81	361.32	100.50	4.595	
2,800.00	2,776.54	2,775.54	2,775.54	7.56	96.63	158.46	-99.45	-174.97	474.97	370.85	104.12	4.562	
2,900.00	2,875.53	2,874.53	2,874.53	7.71	100.13	159.07	-99.45	-174.97	488.19	380.43	107.76	4.530	
3,000.00	2,974.52	2,973.52	2,973.52	7.88	103.64	159.64	-99.45	-174.97	501.45	390.05	111.40	4.501	
3,100.00	3,073.52	3,072.52	3,072.52	8.05	107.15	160.19	-99.45	-174.97	514.77	399.71	115.06	4.474	
3,200.00	3,172.51	3,171.51	3,171.51	8.23	110.65	160.71	-99.45	-174.97	528.13	409.40	118.73	4.448	
3,300.00	3,271.50	3,270.50	3,270.50	8.43	114.16	161.20	-99.45	-174.97	541.52	419.12	122.40	4.424	
3,400.00	3,370.49	3,369.49	3,369.49	8.63	117.66	161.67	-99.45	-174.97	554.96	428.88	126.08	4.401	
3,500.00	3,469.49	3,468.49	3,468.49	8.83	121.17	162.12	-99.45	-174.97	568.43	438.66	129.78	4.380	
3,600.00	3,568.48	3,567.48	3,567.48	9.05	124.68	162.55	-99.45	-174.97	581.94	448.46	133.47	4.360	
3,700.00	3,667.47	3,666.47	3,666.47	9.27	128.18	162.96	-99.45	-174.97	595.47	458.29	137.18	4.341	
3,800.00	3,766.46	3,765.46	3,765.46	9.50	131.69	163.35	-99.45	-174.97	609.03	468.15	140.89	4.323	
3,900.00	3,865.46	3,864.46	3,864.46	9.73	135.20	163.72	-99.45	-174.97	622.62	478.02	144.60	4.306	
4,000.00	3,964.45	3,963.45	3,963.45	9.97	138.70	164.08	-99.45	-174.97	636.24	487.91	148.33	4.289	
4,100.00	4,063.44	4,062.44	4,062.44	10.21	142.21	164.42	-99.45	-174.97	649.88	497.82	152.05	4.274	
4,200.00	4,162.43	4,161.43	4,161.43	10.46	145.71	164.75	-99.45	-174.97	663.54	507.75	155.78	4.259	
4,300.00	4,261.43	4,260.43	4,260.43	10.71	149.22	165.06	-99.45	-174.97	677.22	517.70	159.52	4.245	
4,400.00	4,360.42	4,359.42	4,359.42	10.97	152.73	165.37	-99.45	-174.97	690.92	527.66	163.26	4.232	
4,500.00	4,459.41	4,458.41	4,458.41	11.23	156.23	165.66	-99.45	-174.97	704.63	537.63	167.00	4.219	
4,600.00	4,558.40	4,557.40	4,557.40	11.49	159.74	165.94	-99.45	-174.97	718.37	547.62	170.75	4.207	
4,700.00	4,657.40	4,656.40	4,656.40	11.75	163.25	166.21	-99.45	-174.97	732.12	557.62	174.50	4.196	
4,800.00	4,756.39	4,755.39	4,755.39	12.02	166.76	166.47	-99.45	-174.97	745.89	567.64	178.25	4.185	
4,900.00	4,855.38	4,854.38	4,854.38	12.29	170.26	166.72	-99.45	-174.97	759.67	577.66	182.00	4.174	
5,000.00	4,954.37	4,953.37	4,953.37	12.57	173.77	166.96	-99.45	-174.97	773.46	587.70	185.76	4.164	
5,100.00	5,053.37	5,052.37	5,052.37	12.85	177.28	167.19	-99.45	-174.97	787.27	597.75	189.52	4.154	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,152.36	5,151.36	5,151.36	13.12	180.78	167.41	-99.45	-174.97	801.09	607.80	193.28	4.145	
5,300.00	5,251.35	5,250.35	5,250.35	13.41	184.29	167.63	-99.45	-174.97	814.92	617.87	197.05	4.136	
5,400.00	5,350.34	5,349.34	5,349.34	13.69	187.80	167.84	-99.45	-174.97	828.76	627.95	200.81	4.127	
5,500.00	5,449.34	5,448.34	5,448.34	13.97	191.30	168.04	-99.45	-174.97	842.61	638.03	204.58	4.119	
5,600.00	5,548.33	5,547.33	5,547.33	14.26	194.81	168.24	-99.45	-174.97	856.48	648.12	208.35	4.111	
5,700.00	5,647.32	5,646.32	5,646.32	14.55	198.32	168.43	-99.45	-174.97	870.35	658.22	212.13	4.103	
5,800.00	5,746.31	5,745.31	5,745.31	14.84	201.83	168.61	-99.45	-174.97	884.23	668.33	215.90	4.096	
5,900.00	5,845.31	5,844.31	5,844.31	15.13	205.33	168.79	-99.45	-174.97	898.12	678.45	219.67	4.088	
6,000.00	5,944.30	5,943.30	5,943.30	15.42	208.84	168.96	-99.45	-174.97	912.02	688.57	223.45	4.082	
6,100.00	6,043.29	6,042.29	6,042.29	15.72	212.35	169.13	-99.45	-174.97	925.93	698.70	227.23	4.075	
6,200.00	6,142.28	6,141.28	6,141.28	16.01	215.85	169.29	-99.45	-174.97	939.84	708.83	231.01	4.068	
6,300.00	6,241.28	6,240.28	6,240.28	16.31	219.36	169.45	-99.45	-174.97	953.76	718.97	234.79	4.062	
6,400.00	6,340.27	6,339.27	6,339.27	16.61	222.87	169.61	-99.45	-174.97	967.69	729.12	238.57	4.056	
6,500.00	6,439.26	6,438.26	6,438.26	16.90	226.38	169.75	-99.45	-174.97	981.62	739.27	242.35	4.050	
6,600.00	6,538.26	6,537.26	6,537.26	17.20	229.88	166.92	-99.45	-174.97	995.51	749.38	246.13	4.045	
6,700.00	6,637.86	6,636.86	6,636.86	17.38	233.41	75.99	-99.45	-174.97	1,000.82	750.98	249.84	4.006	
6,800.00	6,736.73	6,735.73	6,735.73	17.50	236.91	39.83	-99.45	-174.97	991.46	737.99	253.48	3.911	
6,900.00	6,832.42	6,831.42	6,831.42	17.58	240.30	33.72	-99.45	-174.97	967.83	710.88	256.95	3.767	
7,000.00	6,922.59	6,921.59	6,921.59	17.62	243.50	33.38	-99.45	-174.97	930.79	670.60	260.19	3.577	
7,100.00	7,005.01	7,004.01	7,004.01	17.63	246.42	35.97	-99.45	-174.97	881.65	618.52	263.13	3.351	
7,200.00	7,077.65	7,076.65	7,076.65	17.64	248.99	41.17	-99.45	-174.97	822.18	556.47	265.71	3.094	
7,300.00	7,138.73	7,137.73	7,137.73	17.64	251.16	49.19	-99.45	-174.97	754.66	486.76	267.90	2.817	
7,400.00	7,186.74	7,185.74	7,185.74	17.69	252.86	60.05	-99.45	-174.97	681.91	412.23	269.69	2.529	
7,500.00	7,220.49	7,219.49	7,219.49	17.80	254.05	72.50	-99.45	-174.97	607.40	336.32	271.08	2.241	
7,600.00	7,239.17	7,238.17	7,238.17	18.02	254.72	83.94	-99.45	-174.97	535.35	263.23	272.12	1.967	
7,700.00	7,243.00	7,242.00	7,242.00	18.40	254.85	90.01	-99.45	-174.97	470.93	198.03	272.90	1.726	
7,800.00	7,242.97	7,241.97	7,241.97	18.96	254.85	90.01	-99.45	-174.97	420.28	146.43	273.84	1.535	
7,900.00	7,242.95	7,241.95	7,241.95	19.67	254.85	90.00	-99.45	-174.97	389.22	114.26	274.97	1.416	Level 3
7,975.70	7,242.93	7,241.93	7,241.93	20.31	254.85	90.00	-99.45	-174.97	381.79	106.05	275.74	1.385	Level 3, ES, SF
8,000.00	7,242.92	7,241.92	7,241.92	20.51	254.85	90.00	-99.45	-174.97	382.56	106.63	275.93	1.386	Level 3
8,100.00	7,242.89	7,241.89	7,241.89	21.45	254.85	90.00	-99.45	-174.97	401.51	125.11	276.40	1.453	Level 3
8,200.00	7,242.87	7,241.87	7,241.87	22.48	254.85	89.99	-99.45	-174.97	442.80	166.41	276.39	1.602	
8,300.00	7,242.84	7,241.84	7,241.84	23.59	254.85	89.99	-99.45	-174.97	500.93	224.84	276.09	1.814	
8,400.00	7,242.82	7,241.82	7,241.82	24.76	254.84	89.98	-99.45	-174.97	570.78	295.07	275.71	2.070	
8,500.00	7,242.79	7,241.79	7,241.79	25.98	254.84	89.98	-99.45	-174.97	648.58	373.24	275.34	2.356	
8,600.00	7,242.77	7,241.77	7,241.77	27.25	254.84	89.98	-99.45	-174.97	731.79	456.77	275.01	2.661	
8,700.00	7,242.74	7,241.74	7,241.74	28.56	254.84	89.97	-99.45	-174.97	818.76	544.02	274.74	2.980	
8,800.00	7,242.71	7,241.71	7,241.71	29.91	254.84	89.97	-99.45	-174.97	908.42	633.90	274.52	3.309	
8,900.00	7,242.69	7,241.69	7,241.69	31.29	254.84	89.96	-99.45	-174.97	1,000.05	725.70	274.34	3.645	
9,000.00	7,242.66	7,241.66	7,241.66	32.69	254.84	89.96	-99.45	-174.97	1,093.14	818.94	274.20	3.987	
9,100.00	7,242.64	7,241.64	7,241.64	34.12	254.84	89.96	-99.45	-174.97	1,187.35	913.28	274.08	4.332	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-4H6 - XOG PR Well - No Sur												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,300.00	7,242.84	7,265.84	7,265.84	23.59	255.70	-90.03	-1,061.14	-1,526.29	1,179.11	904.49	274.62	4.294	
8,400.00	7,242.82	7,265.82	7,265.82	24.76	255.69	-90.02	-1,061.14	-1,526.29	1,093.28	818.05	275.23	3.972	
8,500.00	7,242.79	7,265.79	7,265.79	25.98	255.69	-90.02	-1,061.14	-1,526.29	1,010.06	734.00	276.06	3.659	
8,600.00	7,242.77	7,265.77	7,265.77	27.25	255.69	-90.02	-1,061.14	-1,526.29	930.15	652.99	277.16	3.356	
8,700.00	7,242.74	7,265.74	7,265.74	28.56	255.69	-90.02	-1,061.14	-1,526.29	854.48	575.87	278.61	3.067	
8,800.00	7,242.71	7,265.71	7,265.71	29.91	255.69	-90.01	-1,061.14	-1,526.29	784.29	503.84	280.45	2.797	
8,900.00	7,242.69	7,265.69	7,265.69	31.29	255.69	-90.01	-1,061.14	-1,526.29	721.16	438.46	282.70	2.551	
9,000.00	7,242.66	7,265.66	7,265.66	32.69	255.69	-90.01	-1,061.14	-1,526.29	667.11	381.80	285.31	2.338	
9,100.00	7,242.64	7,265.64	7,265.64	34.12	255.69	-90.01	-1,061.14	-1,526.29	624.50	336.36	288.13	2.167	
9,200.00	7,242.61	7,265.61	7,265.61	35.57	255.69	-90.00	-1,061.14	-1,526.29	595.78	304.90	290.88	2.048	
9,300.00	7,242.59	7,265.59	7,265.59	37.04	255.69	-90.00	-1,061.14	-1,526.29	583.03	289.85	293.18	1.989	
9,325.19	7,242.58	7,265.58	7,265.58	37.42	255.69	-90.00	-1,061.14	-1,526.29	582.48	288.84	293.65	1.984 CC, ES, SF	
9,400.00	7,242.56	7,265.56	7,265.56	38.53	255.69	-90.00	-1,061.14	-1,526.29	587.27	292.56	294.71	1.993	
9,500.00	7,242.53	7,265.53	7,265.53	40.03	255.68	-90.00	-1,061.14	-1,526.29	608.15	312.80	295.35	2.059	
9,600.00	7,242.51	7,265.51	7,265.51	41.54	255.68	-89.99	-1,061.14	-1,526.29	644.06	348.84	295.21	2.182	
9,700.00	7,242.48	7,265.48	7,265.48	43.07	255.68	-89.99	-1,061.14	-1,526.29	692.66	398.13	294.53	2.352	
9,800.00	7,242.46	7,265.46	7,265.46	44.60	255.68	-89.99	-1,061.14	-1,526.29	751.49	457.95	293.54	2.560	
9,900.00	7,242.43	7,265.43	7,265.43	46.14	255.68	-89.99	-1,061.14	-1,526.29	818.35	525.92	292.43	2.798	
10,000.00	7,242.41	7,265.41	7,265.41	47.70	255.68	-89.98	-1,061.14	-1,526.29	891.44	600.12	291.32	3.060	
10,100.00	7,242.38	7,265.38	7,265.38	49.26	255.68	-89.98	-1,061.14	-1,526.29	969.34	679.07	290.27	3.339	
10,200.00	7,242.35	7,265.35	7,265.35	50.83	255.68	-89.98	-1,061.14	-1,526.29	1,050.99	761.68	289.31	3.633	
10,300.00	7,242.33	7,265.33	7,265.33	52.40	255.68	-89.98	-1,061.14	-1,526.29	1,135.58	847.14	288.45	3.937	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-5 - XOG PR Well - No Survey												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,700.00	7,242.74	7,248.74	7,248.74	28.56	255.09	90.03	79.13	-1,907.92	1,152.55	876.03	276.51	4.168	
8,800.00	7,242.71	7,248.71	7,248.71	29.91	255.09	90.02	79.13	-1,907.92	1,066.10	788.46	277.64	3.840	
8,900.00	7,242.69	7,248.69	7,248.69	31.29	255.09	90.02	79.13	-1,907.92	982.23	703.20	279.03	3.520	
9,000.00	7,242.66	7,248.66	7,248.66	32.69	255.09	90.02	79.13	-1,907.92	901.65	620.93	280.72	3.212	
9,100.00	7,242.64	7,248.64	7,248.64	34.12	255.09	90.02	79.13	-1,907.92	825.33	542.56	282.77	2.919	
9,200.00	7,242.61	7,248.61	7,248.61	35.57	255.09	90.01	79.13	-1,907.92	754.57	469.36	285.21	2.646	
9,300.00	7,242.59	7,248.59	7,248.59	37.04	255.08	90.01	79.13	-1,907.92	691.07	403.06	288.01	2.399	
9,400.00	7,242.56	7,248.56	7,248.56	38.53	255.08	90.01	79.13	-1,907.92	637.01	345.93	291.08	2.188	
9,500.00	7,242.53	7,248.53	7,248.53	40.03	255.08	90.01	79.13	-1,907.92	594.97	300.81	294.16	2.023	
9,600.00	7,242.51	7,248.51	7,248.51	41.54	255.08	90.00	79.13	-1,907.92	567.62	270.77	296.85	1.912	
9,700.00	7,242.48	7,248.48	7,248.48	43.07	255.08	90.00	79.13	-1,907.92	557.13	258.42	298.71	1.865	
9,708.99	7,242.48	7,248.48	7,248.48	43.20	255.08	90.00	79.13	-1,907.92	557.06	258.23	298.83	1.864 CC, ES, SF	
9,800.00	7,242.46	7,248.46	7,248.46	44.60	255.08	90.00	79.13	-1,907.92	564.44	265.00	299.44	1.885	
9,900.00	7,242.43	7,248.43	7,248.43	46.14	255.08	89.99	79.13	-1,907.92	588.89	289.85	299.04	1.969	
10,000.00	7,242.41	7,248.41	7,248.41	47.70	255.08	89.99	79.13	-1,907.92	628.49	330.69	297.80	2.110	
10,100.00	7,242.38	7,248.38	7,248.38	49.26	255.08	89.99	79.13	-1,907.92	680.59	384.49	296.10	2.299	
10,200.00	7,242.35	7,248.35	7,248.35	50.83	255.08	89.99	79.13	-1,907.92	742.57	448.33	294.23	2.524	
10,300.00	7,242.33	7,248.33	7,248.33	52.40	255.08	89.98	79.13	-1,907.92	812.16	519.76	292.41	2.778	
10,400.00	7,242.30	7,248.30	7,248.30	53.98	255.07	89.98	79.13	-1,907.92	887.59	596.87	290.72	3.053	
10,500.00	7,242.28	7,248.28	7,248.28	55.57	255.07	89.98	79.13	-1,907.92	967.48	678.27	289.20	3.345	
10,600.00	7,242.25	7,248.25	7,248.25	57.16	255.07	89.98	79.13	-1,907.92	1,050.82	762.94	287.87	3.650	
10,700.00	7,242.23	7,248.23	7,248.23	58.75	255.07	89.97	79.13	-1,907.92	1,136.84	850.13	286.71	3.965	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	7.00	-7.00	3.28	3.28	-171.85	-1,104.91	-158.26	1,116.18				
100.00	100.00	107.00	93.00	3.28	3.85	-171.85	-1,104.91	-158.26	1,116.18	1,108.26	7.93	140.821	
200.00	200.00	207.00	193.00	3.31	6.46	-171.85	-1,104.91	-158.26	1,116.18	1,105.63	10.55	105.752	
300.00	299.98	307.02	292.98	3.35	9.68	68.65	-1,104.91	-158.26	1,115.55	1,101.73	13.82	80.735	
400.00	399.84	407.16	392.84	3.41	13.07	68.93	-1,104.91	-158.26	1,113.65	1,096.38	17.27	64.478	
500.00	499.45	507.55	492.45	3.50	16.54	69.41	-1,104.91	-158.26	1,110.54	1,089.71	20.83	53.325	
600.00	598.70	608.30	591.70	3.61	20.05	70.08	-1,104.91	-158.26	1,106.29	1,081.84	24.45	45.239	
700.00	697.70	709.30	690.70	3.76	23.59	70.77	-1,104.91	-158.26	1,101.51	1,073.37	28.14	39.144	
800.00	796.69	789.69	789.69	3.94	26.41	71.46	-1,104.91	-158.26	1,096.88	1,065.75	31.14	35.229	
900.00	895.68	888.68	888.68	4.14	29.90	72.16	-1,104.91	-158.26	1,092.42	1,057.61	34.82	31.377	
1,000.00	994.67	987.67	987.67	4.36	33.39	72.86	-1,104.91	-158.26	1,088.13	1,049.61	38.52	28.248	
1,100.00	1,093.67	1,086.67	1,086.67	4.60	36.88	73.57	-1,104.91	-158.26	1,084.00	1,041.75	42.25	25.659	
1,200.00	1,192.66	1,185.66	1,185.66	4.86	40.37	74.28	-1,104.91	-158.26	1,080.04	1,034.05	45.99	23.485	
1,300.00	1,291.65	1,284.65	1,284.65	5.12	43.87	75.00	-1,104.91	-158.26	1,076.26	1,026.51	49.75	21.634	
1,400.00	1,390.64	1,383.64	1,383.64	5.40	47.37	75.73	-1,104.91	-158.26	1,072.64	1,019.13	53.52	20.042	
1,500.00	1,489.64	1,482.64	1,482.64	5.68	50.87	76.45	-1,104.91	-158.26	1,069.21	1,011.91	57.30	18.659	
1,600.00	1,588.63	1,581.63	1,581.63	5.98	54.37	77.19	-1,104.91	-158.26	1,065.95	1,004.85	61.09	17.448	
1,700.00	1,687.62	1,680.62	1,680.62	6.28	57.87	77.92	-1,104.91	-158.26	1,062.87	997.97	64.89	16.379	
1,800.00	1,786.61	1,779.61	1,779.61	6.58	61.37	78.66	-1,104.91	-158.26	1,059.97	991.27	68.70	15.429	
1,900.00	1,885.61	1,878.61	1,878.61	6.75	64.87	79.41	-1,104.91	-158.26	1,057.25	985.09	72.16	14.651	
2,000.00	1,984.60	1,977.60	1,977.60	6.78	68.38	80.16	-1,104.91	-158.26	1,054.71	979.01	75.70	13.933	
2,100.00	2,083.59	2,076.59	2,076.59	6.83	71.88	80.91	-1,104.91	-158.26	1,052.36	973.10	79.26	13.278	
2,200.00	2,182.58	2,175.58	2,175.58	6.89	75.39	81.67	-1,104.91	-158.26	1,050.19	967.37	82.83	12.679	
2,300.00	2,281.58	2,274.58	2,274.58	6.97	78.89	82.42	-1,104.91	-158.26	1,048.21	961.80	86.41	12.130	
2,400.00	2,380.57	2,373.57	2,373.57	7.06	82.39	83.19	-1,104.91	-158.26	1,046.42	956.41	90.01	11.625	
2,500.00	2,479.56	2,472.56	2,472.56	7.17	85.90	83.95	-1,104.91	-158.26	1,044.82	951.20	93.62	11.160	
2,600.00	2,578.55	2,571.55	2,571.55	7.28	89.40	84.71	-1,104.91	-158.26	1,043.41	946.16	97.25	10.729	
2,700.00	2,677.55	2,670.55	2,670.55	7.42	92.91	85.48	-1,104.91	-158.26	1,042.19	941.30	100.89	10.330	
2,800.00	2,776.54	2,769.54	2,769.54	7.56	96.42	86.25	-1,104.91	-158.26	1,041.15	936.61	104.54	9.959	
2,900.00	2,875.53	2,868.53	2,868.53	7.71	99.92	87.02	-1,104.91	-158.26	1,040.32	932.11	108.20	9.615	
3,000.00	2,974.52	2,967.52	2,967.52	7.88	103.43	87.79	-1,104.91	-158.26	1,039.67	927.79	111.87	9.293	
3,100.00	3,073.52	3,066.52	3,066.52	8.05	106.93	88.56	-1,104.91	-158.26	1,039.21	923.66	115.56	8.993	
3,200.00	3,172.51	3,165.51	3,165.51	8.23	110.44	89.34	-1,104.91	-158.26	1,038.95	919.70	119.25	8.713	
3,285.76	3,257.41	3,250.41	3,250.41	8.40	113.45	90.00	-1,104.91	-158.26	1,038.88	916.46	122.42	8.486	
3,300.00	3,271.50	3,264.50	3,264.50	8.43	113.94	90.11	-1,104.91	-158.26	1,038.88	915.93	122.95	8.450	
3,400.00	3,370.49	3,363.49	3,363.49	8.63	117.45	90.88	-1,104.91	-158.26	1,039.01	912.35	126.66	8.203	
3,500.00	3,469.49	3,462.49	3,462.49	8.83	120.96	91.66	-1,104.91	-158.26	1,039.32	908.95	130.37	7.972	
3,600.00	3,568.48	3,561.48	3,561.48	9.05	124.46	92.43	-1,104.91	-158.26	1,039.83	905.74	134.09	7.755	
3,700.00	3,667.47	3,660.47	3,660.47	9.27	127.97	93.20	-1,104.91	-158.26	1,040.53	902.71	137.82	7.550	
3,800.00	3,766.46	3,759.46	3,759.46	9.50	131.48	93.97	-1,104.91	-158.26	1,041.43	899.87	141.56	7.357	
3,900.00	3,865.46	3,858.46	3,858.46	9.73	134.98	94.74	-1,104.91	-158.26	1,042.51	897.22	145.30	7.175	
4,000.00	3,964.45	3,957.45	3,957.45	9.97	138.49	95.50	-1,104.91	-158.26	1,043.79	894.75	149.04	7.003	
4,100.00	4,063.44	4,056.44	4,056.44	10.21	142.00	96.27	-1,104.91	-158.26	1,045.26	892.47	152.79	6.841	
4,200.00	4,162.43	4,155.43	4,155.43	10.46	145.50	97.03	-1,104.91	-158.26	1,046.91	890.37	156.54	6.688	
4,300.00	4,261.43	4,254.43	4,254.43	10.71	149.01	97.79	-1,104.91	-158.26	1,048.76	888.46	160.30	6.542	
4,400.00	4,360.42	4,353.42	4,353.42	10.97	152.52	98.55	-1,104.91	-158.26	1,050.79	886.73	164.06	6.405	
4,500.00	4,459.41	4,452.41	4,452.41	11.23	156.02	99.30	-1,104.91	-158.26	1,053.01	885.18	167.83	6.274	
4,600.00	4,558.40	4,551.40	4,551.40	11.49	159.53	100.06	-1,104.91	-158.26	1,055.41	883.82	171.60	6.151	
4,700.00	4,657.40	4,650.40	4,650.40	11.75	163.04	100.80	-1,104.91	-158.26	1,058.00	882.64	175.37	6.033	
4,800.00	4,756.39	4,749.39	4,749.39	12.02	166.54	101.55	-1,104.91	-158.26	1,060.77	881.63	179.14	5.921	
4,900.00	4,855.38	4,848.38	4,848.38	12.29	170.05	102.29	-1,104.91	-158.26	1,063.73	880.81	182.92	5.815	
5,000.00	4,954.37	4,947.37	4,947.37	12.57	173.56	103.02	-1,104.91	-158.26	1,066.86	880.16	186.69	5.714	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,053.37	5,046.37	5,046.37	12.85	177.06	103.75	-1,104.91	-158.26	1,070.17	879.69	190.47	5.618	
5,200.00	5,152.36	5,145.36	5,145.36	13.12	180.57	104.48	-1,104.91	-158.26	1,073.66	879.40	194.26	5.527	
5,300.00	5,251.35	5,244.35	5,244.35	13.41	184.08	105.20	-1,104.91	-158.26	1,077.32	879.28	198.04	5.440	
5,400.00	5,350.34	5,343.34	5,343.34	13.69	187.58	105.92	-1,104.91	-158.26	1,081.15	879.33	201.83	5.357	
5,500.00	5,449.34	5,442.34	5,442.34	13.97	191.09	106.63	-1,104.91	-158.26	1,085.16	879.55	205.61	5.278	
5,600.00	5,548.33	5,541.33	5,541.33	14.26	194.60	107.34	-1,104.91	-158.26	1,089.33	879.93	209.40	5.202	
5,700.00	5,647.32	5,640.32	5,640.32	14.55	198.11	108.04	-1,104.91	-158.26	1,093.67	880.49	213.19	5.130	
5,800.00	5,746.31	5,739.31	5,739.31	14.84	201.61	108.74	-1,104.91	-158.26	1,098.18	881.20	216.98	5.061	
5,900.00	5,845.31	5,838.31	5,838.31	15.13	205.12	109.43	-1,104.91	-158.26	1,102.85	882.08	220.77	4.995	
6,000.00	5,944.30	5,937.30	5,937.30	15.42	208.63	110.11	-1,104.91	-158.26	1,107.69	883.12	224.56	4.933	
6,100.00	6,043.29	6,036.29	6,036.29	15.72	212.13	110.79	-1,104.91	-158.26	1,112.68	884.32	228.36	4.873	
6,200.00	6,142.28	6,135.28	6,135.28	16.01	215.64	111.46	-1,104.91	-158.26	1,117.83	885.68	232.15	4.815	
6,300.00	6,241.28	6,234.28	6,234.28	16.31	219.15	112.13	-1,104.91	-158.26	1,123.13	887.19	235.94	4.760	
6,400.00	6,340.27	6,333.27	6,333.27	16.61	222.66	112.79	-1,104.91	-158.26	1,128.59	888.85	239.74	4.708	
6,500.00	6,439.26	6,432.26	6,432.26	16.90	226.16	113.44	-1,104.91	-158.26	1,134.20	890.66	243.54	4.657	
6,600.00	6,538.26	6,531.26	6,531.26	17.20	229.67	111.17	-1,104.91	-158.26	1,139.90	892.58	247.33	4.609	
6,700.00	6,637.86	6,630.86	6,630.86	17.38	233.20	20.38	-1,104.91	-158.26	1,138.32	887.29	251.03	4.535	
6,800.00	6,736.73	6,729.73	6,729.73	17.50	236.70	-17.55	-1,104.91	-158.26	1,124.10	869.43	254.66	4.414	
6,900.00	6,832.42	6,825.42	6,825.42	17.58	240.09	-27.54	-1,104.91	-158.26	1,097.62	839.47	258.15	4.252	
7,000.00	6,922.59	6,915.59	6,915.59	17.62	243.29	-34.26	-1,104.91	-158.26	1,059.84	798.43	261.41	4.054	
7,100.00	7,005.01	7,001.99	6,998.01	17.63	246.35	-41.16	-1,104.91	-158.26	1,012.23	747.72	264.51	3.827	
7,200.00	7,077.65	7,070.65	7,070.65	17.64	248.78	-49.27	-1,104.91	-158.26	956.84	689.88	266.96	3.584	
7,300.00	7,138.73	7,131.73	7,131.73	17.64	250.94	-58.78	-1,104.91	-158.26	896.31	627.16	269.15	3.330	
7,400.00	7,186.74	7,179.74	7,179.74	17.69	252.64	-69.05	-1,104.91	-158.26	833.87	562.97	270.90	3.078	
7,500.00	7,220.49	7,213.49	7,213.49	17.80	253.84	-78.72	-1,104.91	-158.26	773.29	501.09	272.20	2.841	
7,600.00	7,239.17	7,232.17	7,232.17	18.02	254.50	-86.35	-1,104.91	-158.26	718.79	445.71	273.07	2.632	
7,700.00	7,243.00	7,236.00	7,236.00	18.40	254.64	-90.01	-1,104.91	-158.26	674.54	400.97	273.57	2.466	
7,800.00	7,242.97	7,235.97	7,235.97	18.96	254.64	-90.00	-1,104.91	-158.26	643.11	368.97	274.13	2.346	
7,900.00	7,242.95	7,235.95	7,235.95	19.67	254.64	-90.00	-1,104.91	-158.26	626.24	351.35	274.88	2.278	
7,957.07	7,242.93	7,235.93	7,235.93	20.15	254.64	-90.00	-1,104.91	-158.26	623.63	348.26	275.37	2.265 CC, ES, SF	
8,000.00	7,242.92	7,235.92	7,235.92	20.51	254.64	-90.00	-1,104.91	-158.26	625.11	349.39	275.72	2.267	
8,100.00	7,242.89	7,235.89	7,235.89	21.45	254.63	-90.00	-1,104.91	-158.26	639.80	363.29	276.51	2.314	
8,200.00	7,242.87	7,235.87	7,235.87	22.48	254.63	-89.99	-1,104.91	-158.26	669.28	392.10	277.17	2.415	
8,300.00	7,242.84	7,235.84	7,235.84	23.59	254.63	-89.99	-1,104.91	-158.26	711.70	434.04	277.66	2.563	
8,400.00	7,242.82	7,235.82	7,235.82	24.76	254.63	-89.99	-1,104.91	-158.26	764.92	486.93	277.99	2.752	
8,500.00	7,242.79	7,235.79	7,235.79	25.98	254.63	-89.99	-1,104.91	-158.26	826.85	548.67	278.18	2.972	
8,600.00	7,242.77	7,235.77	7,235.77	27.25	254.63	-89.98	-1,104.91	-158.26	895.70	617.41	278.28	3.219	
8,700.00	7,242.74	7,235.74	7,235.74	28.56	254.63	-89.98	-1,104.91	-158.26	969.98	691.66	278.32	3.485	
8,800.00	7,242.71	7,235.71	7,235.71	29.91	254.63	-89.98	-1,104.91	-158.26	1,048.55	770.22	278.32	3.767	
8,900.00	7,242.69	7,235.69	7,235.69	31.29	254.63	-89.98	-1,104.91	-158.26	1,130.50	852.21	278.30	4.062	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL J 29-19 - Noble SI Well - Actual										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_NS-GYRO-MS, 7350-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	13.75	13.75	3.28	3.28	-120.07	-569.01	-982.69	1,135.54				
100.00	100.00	105.89	105.89	3.28	3.29	-120.07	-569.22	-983.08	1,136.02	1,128.66	7.36	154.367	
200.00	200.00	205.87	205.86	3.31	3.32	-120.08	-569.69	-983.73	1,136.82	1,129.40	7.42	153.307	
300.00	299.98	304.47	304.46	3.35	3.38	120.36	-570.36	-984.35	1,138.58	1,131.06	7.52	151.430	
400.00	399.84	410.09	410.08	3.41	3.47	120.51	-571.11	-984.73	1,141.91	1,134.23	7.67	148.818	
500.00	499.45	506.78	506.77	3.50	3.58	120.76	-571.93	-984.93	1,146.96	1,139.09	7.87	145.760	
600.00	598.70	610.06	610.04	3.61	3.72	121.15	-572.76	-985.06	1,153.76	1,145.64	8.12	142.015	
700.00	697.70	706.54	706.51	3.76	3.87	121.68	-573.60	-985.10	1,161.65	1,153.23	8.42	137.980	
800.00	796.69	806.33	806.30	3.94	4.04	122.23	-574.62	-985.13	1,169.71	1,160.95	8.76	133.524	
900.00	895.68	908.69	908.65	4.14	4.23	122.79	-575.58	-984.99	1,177.69	1,168.55	9.14	128.877	
1,000.00	994.67	1,009.11	1,009.07	4.36	4.41	123.32	-576.40	-984.71	1,185.59	1,176.05	9.54	124.331	
1,100.00	1,093.67	1,108.96	1,108.92	4.60	4.61	123.85	-577.13	-984.36	1,193.49	1,183.54	9.96	119.875	
7,700.00	7,243.00	7,308.23	7,307.16	18.40	18.79	-109.00	-623.23	-998.33	1,108.49	1,072.22	36.27	30.562	
7,800.00	7,242.97	7,303.93	7,302.86	18.96	18.79	-107.45	-623.30	-998.51	1,009.52	973.25	36.27	27.834	
7,900.00	7,242.95	7,299.63	7,298.57	19.67	18.78	-105.87	-623.36	-998.69	910.75	874.47	36.28	25.105	
8,000.00	7,242.92	7,295.33	7,294.27	20.51	18.77	-104.27	-623.43	-998.88	812.26	775.96	36.30	22.377	
8,100.00	7,242.89	7,291.03	7,289.98	21.45	18.77	-102.64	-623.49	-999.06	714.16	677.82	36.34	19.650	
8,200.00	7,242.87	7,286.73	7,285.68	22.48	18.76	-101.00	-623.56	-999.24	616.64	580.21	36.43	16.925	
8,300.00	7,242.84	7,282.43	7,281.39	23.59	18.75	-99.34	-623.62	-999.43	520.04	483.42	36.61	14.203	
8,400.00	7,242.82	7,278.13	7,277.09	24.76	18.75	-97.66	-623.69	-999.61	424.96	387.97	36.98	11.490	
8,500.00	7,242.79	7,273.83	7,272.80	25.98	18.74	-95.98	-623.75	-999.80	332.72	294.92	37.80	8.802	
8,600.00	7,242.77	7,269.53	7,268.50	27.25	18.74	-94.28	-623.82	-999.98	246.54	206.82	39.72	6.207	
8,700.00	7,242.74	7,265.23	7,264.21	28.56	18.73	-92.58	-623.89	-1,000.16	175.56	131.51	44.05	3.986	
8,800.00	7,242.71	7,260.93	7,259.92	29.91	18.72	-90.87	-623.95	-1,000.35	144.30	95.16	49.14	2.936	
8,800.08	7,242.71	7,260.93	7,259.91	29.91	18.72	-90.87	-623.95	-1,000.35	144.30	95.16	49.15	2.936 CC, ES, SF	
8,900.00	7,242.69	7,256.63	7,255.62	31.29	18.72	-89.17	-624.02	-1,000.53	175.47	128.01	47.46	3.697	
9,000.00	7,242.66	7,252.34	7,251.33	32.69	18.71	-87.47	-624.08	-1,000.72	246.41	202.58	43.83	5.622	
9,100.00	7,242.64	7,251.96	7,247.03	34.12	18.71	-85.77	-624.15	-1,000.90	332.58	290.98	41.61	7.994	
9,200.00	7,242.61	7,256.26	7,242.74	35.57	18.72	-84.08	-624.21	-1,001.08	424.81	384.45	40.36	10.526	
9,300.00	7,242.59	7,240.33	7,239.33	37.04	18.70	-82.76	-624.27	-1,001.22	519.90	480.30	39.59	13.131	
9,400.00	7,242.56	7,236.55	7,235.56	38.53	18.70	-81.29	-624.34	-1,001.38	616.51	577.39	39.12	15.758	
9,500.00	7,242.53	7,232.87	7,231.88	40.03	18.69	-79.88	-624.40	-1,001.53	714.04	675.22	38.81	18.397	
9,600.00	7,242.51	7,229.27	7,228.28	41.54	18.69	-78.51	-624.47	-1,001.67	812.15	773.54	38.60	21.038	
9,700.00	7,242.48	7,225.75	7,224.77	43.07	18.69	-77.19	-624.54	-1,001.81	910.65	872.19	38.46	23.679	
9,800.00	7,242.46	7,222.31	7,221.33	44.60	18.69	-75.91	-624.61	-1,001.95	1,009.44	971.08	38.36	26.316	
9,900.00	7,242.43	7,218.95	7,217.97	46.14	18.68	-74.67	-624.67	-1,002.08	1,108.43	1,070.14	38.29	28.947	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
3,000.00	2,974.52	2,966.52	2,966.52	7.88	103.39	30.68	-1,217.82	917.23	1,196.14	1,084.98	111.16	10.760	
3,100.00	3,073.52	3,065.52	3,065.52	8.05	106.90	31.03	-1,217.82	917.23	1,183.95	1,069.13	114.83	10.311	
3,200.00	3,172.51	3,164.51	3,164.51	8.23	110.40	31.39	-1,217.82	917.23	1,171.81	1,053.31	118.50	9.889	
3,300.00	3,271.50	3,263.50	3,263.50	8.43	113.91	31.75	-1,217.82	917.23	1,159.71	1,037.53	122.18	9.491	
3,400.00	3,370.49	3,362.49	3,362.49	8.63	117.42	32.12	-1,217.82	917.23	1,147.66	1,021.79	125.88	9.117	
3,500.00	3,469.49	3,461.49	3,461.49	8.83	120.92	32.50	-1,217.82	917.23	1,135.66	1,006.08	129.58	8.764	
3,600.00	3,568.48	3,560.48	3,560.48	9.05	124.43	32.89	-1,217.82	917.23	1,123.71	990.43	133.28	8.431	
3,700.00	3,667.47	3,659.47	3,659.47	9.27	127.93	33.28	-1,217.82	917.23	1,111.81	974.81	137.00	8.116	
3,800.00	3,766.46	3,758.46	3,758.46	9.50	131.44	33.69	-1,217.82	917.23	1,099.97	959.25	140.72	7.817	
3,900.00	3,865.46	3,857.46	3,857.46	9.73	134.95	34.10	-1,217.82	917.23	1,088.18	943.73	144.44	7.534	
4,000.00	3,964.45	3,956.45	3,956.45	9.97	138.45	34.52	-1,217.82	917.23	1,076.44	928.27	148.17	7.265	
4,100.00	4,063.44	4,055.44	4,055.44	10.21	141.96	34.95	-1,217.82	917.23	1,064.77	912.86	151.91	7.009	
4,200.00	4,162.43	4,154.43	4,154.43	10.46	145.47	35.39	-1,217.82	917.23	1,053.16	897.50	155.65	6.766	
4,300.00	4,261.43	4,253.43	4,253.43	10.71	148.97	35.84	-1,217.82	917.23	1,041.61	882.21	159.40	6.535	
4,400.00	4,360.42	4,352.42	4,352.42	10.97	152.48	36.30	-1,217.82	917.23	1,030.12	866.97	163.15	6.314	
4,500.00	4,459.41	4,451.41	4,451.41	11.23	155.99	36.77	-1,217.82	917.23	1,018.70	851.80	166.90	6.103	
4,600.00	4,558.40	4,550.40	4,550.40	11.49	159.49	37.25	-1,217.82	917.23	1,007.35	836.69	170.66	5.903	
4,700.00	4,657.40	4,649.40	4,649.40	11.75	163.00	37.74	-1,217.82	917.23	996.08	821.65	174.43	5.711	
4,800.00	4,756.39	4,748.39	4,748.39	12.02	166.51	38.24	-1,217.82	917.23	984.88	806.68	178.19	5.527	
4,900.00	4,855.38	4,847.38	4,847.38	12.29	170.01	38.76	-1,217.82	917.23	973.75	791.79	181.96	5.351	
5,000.00	4,954.37	4,946.37	4,946.37	12.57	173.52	39.28	-1,217.82	917.23	962.71	776.97	185.74	5.183	
5,100.00	5,053.37	5,045.37	5,045.37	12.85	177.03	39.82	-1,217.82	917.23	951.75	762.23	189.51	5.022	
5,200.00	5,152.36	5,144.36	5,144.36	13.12	180.54	40.37	-1,217.82	917.23	940.87	747.58	193.29	4.868	
5,300.00	5,251.35	5,243.35	5,243.35	13.41	184.04	40.93	-1,217.82	917.23	930.08	733.01	197.07	4.719	
5,400.00	5,350.34	5,342.34	5,342.34	13.69	187.55	41.51	-1,217.82	917.23	919.38	718.53	200.86	4.577	
5,500.00	5,449.34	5,441.34	5,441.34	13.97	191.06	42.10	-1,217.82	917.23	908.78	704.14	204.65	4.441	
5,600.00	5,548.33	5,540.33	5,540.33	14.26	194.56	42.70	-1,217.82	917.23	898.28	689.84	208.44	4.310	
5,700.00	5,647.32	5,639.32	5,639.32	14.55	198.07	43.32	-1,217.82	917.23	887.87	675.64	212.23	4.184	
5,800.00	5,746.31	5,738.31	5,738.31	14.84	201.58	43.95	-1,217.82	917.23	877.58	661.55	216.02	4.062	
5,900.00	5,845.31	5,837.31	5,837.31	15.13	205.08	44.59	-1,217.82	917.23	867.39	647.57	219.82	3.946	
6,000.00	5,944.30	5,936.30	5,936.30	15.42	208.59	45.25	-1,217.82	917.23	857.31	633.69	223.62	3.834	
6,100.00	6,043.29	6,035.29	6,035.29	15.72	212.10	45.93	-1,217.82	917.23	847.35	619.93	227.42	3.726	
6,200.00	6,142.28	6,134.28	6,134.28	16.01	215.61	46.62	-1,217.82	917.23	837.51	606.28	231.23	3.622	
6,300.00	6,241.28	6,233.28	6,233.28	16.31	219.11	47.33	-1,217.82	917.23	827.80	592.76	235.04	3.522	
6,400.00	6,340.27	6,332.27	6,332.27	16.61	222.62	48.06	-1,217.82	917.23	818.22	579.37	238.85	3.426	
6,500.00	6,439.26	6,431.26	6,431.26	16.90	226.13	48.80	-1,217.82	917.23	808.77	566.11	242.66	3.333	
6,600.00	6,538.26	6,530.26	6,530.26	17.20	229.63	46.54	-1,217.82	917.23	799.47	553.00	246.47	3.244	
6,700.00	6,637.86	6,629.86	6,629.86	17.38	233.16	-45.09	-1,217.82	917.23	791.98	541.79	250.19	3.166	
6,800.00	6,736.73	6,728.73	6,728.73	17.50	236.67	-83.52	-1,217.82	917.23	787.68	533.90	253.78	3.104	
6,855.99	6,790.85	6,782.85	6,782.85	17.55	238.58	-90.00	-1,217.82	917.23	786.97	531.26	255.71	3.078 CC	
6,900.00	6,832.42	6,824.42	6,824.42	17.58	240.06	-93.42	-1,217.82	917.23	787.46	530.28	257.18	3.062 ES	
7,000.00	6,922.59	6,914.59	6,914.59	17.62	243.25	-98.92	-1,217.82	917.23	792.89	532.57	260.32	3.046 SF	
7,100.00	7,005.01	7,002.99	6,997.01	17.63	246.38	-102.76	-1,217.82	917.23	805.94	542.57	263.37	3.060	
7,200.00	7,077.65	7,069.65	7,069.65	17.64	248.74	-105.26	-1,217.82	917.23	828.53	562.86	265.66	3.119	
7,300.00	7,138.73	7,130.73	7,130.73	17.64	250.91	-106.22	-1,217.82	917.23	862.06	594.24	267.82	3.219	
7,400.00	7,186.74	7,178.74	7,178.74	17.69	252.61	-105.30	-1,217.82	917.23	907.02	637.41	269.61	3.364	
7,500.00	7,220.49	7,212.49	7,212.49	17.80	253.81	-102.05	-1,217.82	917.23	962.82	691.84	270.97	3.553	
7,600.00	7,239.17	7,231.17	7,231.17	18.02	254.47	-96.02	-1,217.82	917.23	1,027.87	755.99	271.88	3.781	
7,700.00	7,243.00	7,235.00	7,235.00	18.40	254.60	-89.98	-1,217.82	917.23	1,099.83	827.54	272.30	4.039	
7,800.00	7,242.97	7,234.97	7,234.97	18.96	254.60	-89.98	-1,217.82	917.23	1,176.16	903.57	272.59	4.315	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	95.77	-114.00	1,128.93	1,134.93					
100.00	100.00	76.00	76.00	3.28	3.55	95.77	-114.00	1,128.93	1,134.67	1,127.06	7.62	148.909		
200.00	200.00	176.00	176.00	3.31	5.54	95.77	-114.00	1,128.93	1,134.67	1,125.04	9.64	117.745		
300.00	299.98	275.98	275.98	3.35	8.65	-23.88	-114.00	1,128.93	1,133.08	1,120.29	12.79	88.585		
400.00	399.84	375.84	375.84	3.41	12.00	-24.03	-114.00	1,128.93	1,128.30	1,112.09	16.20	69.637		
500.00	499.45	475.45	475.45	3.50	15.43	-24.28	-114.00	1,128.93	1,120.34	1,100.62	19.72	56.825		
600.00	598.70	574.70	574.70	3.61	18.88	-24.63	-114.00	1,128.93	1,109.23	1,085.95	23.28	47.647		
700.00	697.70	673.70	673.70	3.76	22.34	-24.94	-114.00	1,128.93	1,096.36	1,069.48	26.88	40.791		
800.00	796.69	772.69	772.69	3.94	25.82	-25.26	-114.00	1,128.93	1,083.51	1,053.01	30.50	35.521		
900.00	895.68	871.68	871.68	4.14	29.30	-25.58	-114.00	1,128.93	1,070.70	1,036.55	34.16	31.347		
1,000.00	994.67	970.67	970.67	4.36	32.79	-25.91	-114.00	1,128.93	1,057.92	1,020.09	37.83	27.964		
1,100.00	1,093.67	1,069.67	1,069.67	4.60	36.28	-26.25	-114.00	1,128.93	1,045.18	1,003.66	41.52	25.170		
1,200.00	1,192.66	1,168.66	1,168.66	4.86	39.77	-26.60	-114.00	1,128.93	1,032.48	987.24	45.23	22.825		
1,300.00	1,291.65	1,267.65	1,267.65	5.12	43.27	-26.95	-114.00	1,128.93	1,019.81	970.85	48.96	20.830		
1,400.00	1,390.64	1,366.64	1,366.64	5.40	46.77	-27.32	-114.00	1,128.93	1,007.18	954.49	52.69	19.114		
1,500.00	1,489.64	1,465.64	1,465.64	5.68	50.27	-27.69	-114.00	1,128.93	994.60	938.16	56.44	17.622		
1,600.00	1,588.63	1,564.63	1,564.63	5.98	53.77	-28.07	-114.00	1,128.93	982.05	921.86	60.19	16.315		
1,700.00	1,687.62	1,663.62	1,663.62	6.28	57.27	-28.47	-114.00	1,128.93	969.55	905.60	63.96	15.159		
1,800.00	1,786.61	1,762.61	1,762.61	6.58	60.77	-28.87	-114.00	1,128.93	957.10	889.38	67.73	14.132		
1,900.00	1,885.61	1,861.61	1,861.61	6.75	64.27	-29.28	-114.00	1,128.93	944.70	873.53	71.17	13.274		
2,000.00	1,984.60	1,960.60	1,960.60	6.78	67.78	-29.71	-114.00	1,128.93	932.34	857.65	74.70	12.482		
2,100.00	2,083.59	2,059.59	2,059.59	6.83	71.28	-30.14	-114.00	1,128.93	920.04	841.80	78.24	11.759		
2,200.00	2,182.58	2,158.58	2,158.58	6.89	74.78	-30.59	-114.00	1,128.93	907.79	825.99	81.80	11.098		
2,300.00	2,281.58	2,257.58	2,257.58	6.97	78.29	-31.05	-114.00	1,128.93	895.60	810.23	85.37	10.490		
2,400.00	2,380.57	2,356.57	2,356.57	7.06	81.79	-31.52	-114.00	1,128.93	883.47	794.50	88.96	9.931		
2,500.00	2,479.56	2,455.56	2,455.56	7.17	85.30	-32.01	-114.00	1,128.93	871.40	778.83	92.57	9.414		
2,600.00	2,578.55	2,554.55	2,554.55	7.28	88.80	-32.51	-114.00	1,128.93	859.39	763.20	96.19	8.935		
2,700.00	2,677.55	2,653.55	2,653.55	7.42	92.31	-33.02	-114.00	1,128.93	847.45	747.63	99.82	8.490		
2,800.00	2,776.54	2,752.54	2,752.54	7.56	95.81	-33.55	-114.00	1,128.93	835.57	732.11	103.46	8.076		
2,900.00	2,875.53	2,851.53	2,851.53	7.71	99.32	-34.09	-114.00	1,128.93	823.77	716.66	107.12	7.690		
3,000.00	2,974.52	2,950.52	2,950.52	7.88	102.82	-34.65	-114.00	1,128.93	812.05	701.26	110.78	7.330		
3,100.00	3,073.52	3,049.52	3,049.52	8.05	106.33	-35.22	-114.00	1,128.93	800.40	685.94	114.46	6.993		
3,200.00	3,172.51	3,148.51	3,148.51	8.23	109.84	-35.81	-114.00	1,128.93	788.84	670.69	118.15	6.677		
3,300.00	3,271.50	3,247.50	3,247.50	8.43	113.34	-36.42	-114.00	1,128.93	777.36	655.51	121.85	6.380		
3,400.00	3,370.49	3,346.49	3,346.49	8.63	116.85	-37.05	-114.00	1,128.93	765.97	640.42	125.55	6.101		
3,500.00	3,469.49	3,445.49	3,445.49	8.83	120.35	-37.69	-114.00	1,128.93	754.68	625.41	129.27	5.838		
3,600.00	3,568.48	3,544.48	3,544.48	9.05	123.86	-38.36	-114.00	1,128.93	743.48	610.49	132.99	5.591		
3,700.00	3,667.47	3,643.47	3,643.47	9.27	127.37	-39.04	-114.00	1,128.93	732.38	595.67	136.72	5.357		
3,800.00	3,766.46	3,742.46	3,742.46	9.50	130.87	-39.75	-114.00	1,128.93	721.40	580.94	140.46	5.136		
3,900.00	3,865.46	3,841.46	3,841.46	9.73	134.38	-40.48	-114.00	1,128.93	710.52	566.32	144.20	4.927		
4,000.00	3,964.45	3,940.45	3,940.45	9.97	137.89	-41.22	-114.00	1,128.93	699.77	551.82	147.95	4.730		
4,100.00	4,063.44	4,039.44	4,039.44	10.21	141.39	-42.00	-114.00	1,128.93	689.13	537.43	151.71	4.543		
4,200.00	4,162.43	4,138.43	4,138.43	10.46	144.90	-42.79	-114.00	1,128.93	678.63	523.16	155.47	4.365		
4,300.00	4,261.43	4,237.43	4,237.43	10.71	148.41	-43.61	-114.00	1,128.93	668.26	509.02	159.23	4.197		
4,400.00	4,360.42	4,336.42	4,336.42	10.97	151.91	-44.46	-114.00	1,128.93	658.03	495.02	163.01	4.037		
4,500.00	4,459.41	4,435.41	4,435.41	11.23	155.42	-45.33	-114.00	1,128.93	647.95	481.17	166.78	3.885		
4,600.00	4,558.40	4,534.40	4,534.40	11.49	158.93	-46.23	-114.00	1,128.93	638.02	467.46	170.56	3.741		
4,700.00	4,657.40	4,633.40	4,633.40	11.75	162.43	-47.16	-114.00	1,128.93	628.26	453.91	174.35	3.603		
4,800.00	4,756.39	4,732.39	4,732.39	12.02	165.94	-48.12	-114.00	1,128.93	618.66	440.53	178.14	3.473		
4,900.00	4,855.38	4,831.38	4,831.38	12.29	169.45	-49.10	-114.00	1,128.93	609.25	427.32	181.93	3.349		
5,000.00	4,954.37	4,930.37	4,930.37	12.57	172.95	-50.12	-114.00	1,128.93	600.02	414.29	185.73	3.231		
5,100.00	5,053.37	5,029.37	5,029.37	12.85	176.46	-51.16	-114.00	1,128.93	590.98	401.46	189.53	3.118		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,152.36	5,128.36	5,128.36	13.12	179.97	-52.24	-114.00	1,128.93	582.15	388.82	193.33	3.011	
5,300.00	5,251.35	5,227.35	5,227.35	13.41	183.48	-53.35	-114.00	1,128.93	573.54	376.40	197.14	2.909	
5,400.00	5,350.34	5,326.34	5,326.34	13.69	186.98	-54.50	-114.00	1,128.93	565.15	364.20	200.95	2.812	
5,500.00	5,449.34	5,425.34	5,425.34	13.97	190.49	-55.68	-114.00	1,128.93	556.99	352.23	204.76	2.720	
5,600.00	5,548.33	5,524.33	5,524.33	14.26	194.00	-56.89	-114.00	1,128.93	549.07	340.50	208.57	2.633	
5,700.00	5,647.32	5,623.32	5,623.32	14.55	197.50	-58.13	-114.00	1,128.93	541.41	329.02	212.39	2.549	
5,800.00	5,746.31	5,722.31	5,722.31	14.84	201.01	-59.41	-114.00	1,128.93	534.02	317.81	216.21	2.470	
5,900.00	5,845.31	5,821.31	5,821.31	15.13	204.52	-60.73	-114.00	1,128.93	526.90	306.87	220.03	2.395	
6,000.00	5,944.30	5,920.30	5,920.30	15.42	208.02	-62.08	-114.00	1,128.93	520.07	296.22	223.85	2.323	
6,100.00	6,043.29	6,019.29	6,019.29	15.72	211.53	-63.47	-114.00	1,128.93	513.54	285.86	227.67	2.256	
6,200.00	6,142.28	6,118.28	6,118.28	16.01	215.04	-64.88	-114.00	1,128.93	507.32	275.82	231.50	2.191	
6,300.00	6,241.28	6,217.28	6,217.28	16.31	218.55	-66.34	-114.00	1,128.93	501.42	266.10	235.32	2.131	
6,400.00	6,340.27	6,316.27	6,316.27	16.61	222.05	-67.82	-114.00	1,128.93	495.86	256.71	239.15	2.073	
6,500.00	6,439.26	6,415.26	6,415.26	16.90	225.56	-69.34	-114.00	1,128.93	490.64	247.67	242.97	2.019	
6,600.00	6,538.26	6,514.26	6,514.26	17.20	229.07	-73.81	-114.00	1,128.93	485.83	239.04	246.79	1.969	
6,630.35	6,568.42	6,544.42	6,544.42	17.25	230.14	-90.00	-114.00	1,128.93	485.27	237.36	247.92	1.957 CC, ES	
6,700.00	6,637.86	6,613.86	6,613.86	17.38	232.60	-165.89	-114.00	1,128.93	488.14	237.63	250.51	1.949 SF	
6,800.00	6,736.73	6,712.73	6,712.73	17.50	236.10	156.54	-114.00	1,128.93	502.11	247.97	254.13	1.976	
6,900.00	6,832.42	6,808.42	6,808.42	17.58	239.49	148.55	-114.00	1,128.93	527.57	269.97	257.59	2.048	
7,000.00	6,922.59	6,901.41	6,898.59	17.62	242.78	145.34	-114.00	1,128.93	564.59	303.68	260.91	2.164	
7,100.00	7,005.01	6,981.01	6,981.01	17.63	245.60	143.29	-114.00	1,128.93	613.17	349.46	263.72	2.325	
7,200.00	7,077.65	7,053.65	7,053.65	17.64	248.18	141.05	-114.00	1,128.93	672.95	406.71	266.25	2.528	
7,300.00	7,138.73	7,114.73	7,114.73	17.64	250.34	137.63	-114.00	1,128.93	743.07	474.71	268.36	2.769	
7,400.00	7,186.74	7,162.74	7,162.74	17.69	252.04	131.88	-114.00	1,128.93	822.10	552.11	269.99	3.045	
7,500.00	7,220.49	7,203.51	7,196.49	17.80	253.49	122.04	-114.00	1,128.93	908.20	636.84	271.36	3.347	
7,600.00	7,239.17	7,215.17	7,215.17	18.02	253.90	105.72	-114.00	1,128.93	999.18	727.48	271.70	3.677	
7,700.00	7,243.00	7,219.00	7,219.00	18.40	254.04	89.96	-114.00	1,128.93	1,092.68	820.91	271.77	4.021	
7,800.00	7,242.97	7,218.97	7,218.97	18.96	254.03	89.96	-114.00	1,128.93	1,187.26	915.55	271.72	4.370	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-68.58	59.02	-150.45	161.61					
100.00	100.00	101.00	101.00	3.28	3.28	-68.58	59.02	-150.45	161.61	154.08	7.53	21.465		
200.00	200.00	201.00	201.00	3.31	3.31	-68.58	59.02	-150.45	161.61	154.04	7.57	21.337	CC, ES	
300.00	299.98	300.39	300.38	3.35	3.34	171.58	58.29	-151.06	163.64	155.99	7.65	21.382		
400.00	399.84	400.23	400.22	3.41	3.40	171.46	57.42	-151.79	169.19	161.41	7.77	21.761		
500.00	499.45	500.18	499.80	3.50	3.48	171.51	56.55	-152.52	178.17	170.23	7.94	22.434		
600.00	598.70	600.96	599.01	3.61	3.58	171.69	55.69	-153.24	190.59	182.44	8.15	23.373		
700.00	697.70	702.01	697.96	3.76	3.70	171.96	54.83	-153.96	204.96	196.55	8.40	24.389		
800.00	796.69	803.05	796.91	3.94	3.84	172.19	53.97	-154.68	219.34	210.65	8.68	25.261		
900.00	895.68	904.09	895.86	4.14	3.99	172.40	53.11	-155.41	233.72	224.72	8.99	25.985		
1,000.00	994.67	1,005.14	994.82	4.36	4.15	172.58	52.25	-156.13	248.10	238.77	9.33	26.579		
1,100.00	1,093.67	1,106.18	1,093.77	4.60	4.33	172.75	51.39	-156.85	262.49	252.79	9.70	27.060		
1,200.00	1,192.66	1,207.22	1,192.72	4.86	4.51	172.89	50.53	-157.57	276.88	266.79	10.09	27.446		
1,300.00	1,291.65	1,308.26	1,291.67	5.12	4.71	173.03	49.67	-158.29	291.27	280.77	10.50	27.752		
1,400.00	1,390.64	1,390.69	1,390.62	5.40	4.87	173.14	48.81	-159.01	305.66	294.78	10.88	28.089		
1,500.00	1,489.64	1,489.65	1,489.57	5.68	5.08	173.25	47.95	-159.73	320.05	308.73	11.32	28.284		
1,600.00	1,588.63	1,588.61	1,588.52	5.98	5.29	173.35	47.09	-160.46	334.44	322.68	11.76	28.433		
1,700.00	1,687.62	1,687.56	1,687.47	6.28	5.51	173.44	46.23	-161.18	348.84	336.62	12.22	28.544		
1,800.00	1,786.61	1,786.52	1,786.42	6.58	5.73	173.53	45.37	-161.90	363.23	350.54	12.69	28.624		
1,900.00	1,885.61	1,885.48	1,885.37	6.75	5.95	173.60	44.51	-162.62	377.63	364.96	12.67	29.810		
2,000.00	1,984.60	1,984.44	1,984.32	6.78	6.18	173.68	43.65	-163.34	392.02	379.11	12.91	30.357		
2,100.00	2,083.59	2,083.39	2,083.27	6.83	6.42	173.74	42.79	-164.06	406.42	393.24	13.18	30.842		
2,200.00	2,182.58	2,182.35	2,182.22	6.89	6.65	173.81	41.93	-164.79	420.82	407.36	13.46	31.267		
2,300.00	2,281.58	2,281.31	2,281.18	6.97	6.89	173.86	41.07	-165.51	435.22	421.46	13.76	31.636		
2,400.00	2,380.57	2,380.26	2,380.13	7.06	7.13	173.92	40.21	-166.23	449.62	435.54	14.07	31.952		
2,500.00	2,479.56	2,479.22	2,479.08	7.17	7.38	173.97	39.35	-166.95	464.01	449.61	14.40	32.220		
2,600.00	2,578.55	2,578.18	2,578.03	7.28	7.62	174.02	38.49	-167.67	478.41	463.67	14.75	32.444		
2,700.00	2,677.55	2,677.14	2,676.98	7.42	7.87	174.06	37.63	-168.39	492.81	477.71	15.10	32.627		
2,800.00	2,776.54	2,776.09	2,775.93	7.56	8.12	174.10	36.77	-169.12	507.21	491.74	15.48	32.773		
2,900.00	2,875.53	2,875.05	2,874.88	7.71	8.37	174.14	35.91	-169.84	521.61	505.75	15.86	32.887		
3,000.00	2,974.52	2,974.01	2,973.83	7.88	8.62	174.18	35.05	-170.56	536.01	519.76	16.26	32.972		
3,100.00	3,073.52	3,072.96	3,072.78	8.05	8.88	174.22	34.19	-171.28	550.41	533.75	16.66	33.031		
3,200.00	3,172.51	3,171.92	3,171.73	8.23	9.13	174.25	33.33	-172.00	564.81	547.73	17.08	33.067		
3,300.00	3,271.50	3,270.88	3,270.68	8.43	9.39	174.28	32.47	-172.72	579.21	561.71	17.51	33.084		
3,400.00	3,370.49	3,369.84	3,369.63	8.63	9.64	174.32	31.61	-173.45	593.62	575.67	17.94	33.083		
3,500.00	3,469.49	3,468.79	3,468.58	8.83	9.90	174.34	30.75	-174.17	608.02	589.63	18.39	33.068		
3,600.00	3,568.48	3,567.75	3,567.54	9.05	10.16	174.37	29.89	-174.89	622.42	603.58	18.84	33.039		
3,700.00	3,667.47	3,666.71	3,666.49	9.27	10.42	174.40	29.03	-175.61	636.82	617.52	19.30	33.000		
3,800.00	3,766.46	3,765.66	3,765.44	9.50	10.68	174.43	28.17	-176.33	651.22	631.46	19.76	32.951		
3,900.00	3,865.46	3,864.62	3,864.39	9.73	10.94	174.45	27.31	-177.05	665.62	645.39	20.24	32.894		
4,000.00	3,964.45	3,963.58	3,963.34	9.97	11.20	174.47	26.45	-177.78	680.02	659.31	20.71	32.831		
4,100.00	4,063.44	4,062.54	4,062.29	10.21	11.46	174.50	25.59	-178.50	694.43	673.23	21.20	32.762		
4,200.00	4,162.43	4,161.49	4,161.24	10.46	11.73	174.52	24.73	-179.22	708.83	687.14	21.68	32.689		
4,300.00	4,261.43	4,260.45	4,260.19	10.71	11.99	174.54	23.87	-179.94	723.23	701.05	22.18	32.612		
4,400.00	4,360.42	4,359.41	4,359.14	10.97	12.25	174.56	23.01	-180.66	737.63	714.96	22.67	32.532		
4,500.00	4,459.41	4,458.36	4,458.09	11.23	12.52	174.58	22.15	-181.38	752.03	728.86	23.17	32.450		
4,600.00	4,558.40	4,557.32	4,557.04	11.49	12.78	174.60	21.29	-182.10	766.44	742.76	23.68	32.367		
4,700.00	4,657.40	4,656.28	4,655.99	11.75	13.04	174.61	20.43	-182.83	780.84	756.65	24.19	32.282		
4,800.00	4,756.39	4,755.24	4,754.94	12.02	13.31	174.63	19.57	-183.55	795.24	770.54	24.70	32.196		
4,900.00	4,855.38	4,854.19	4,853.90	12.29	13.57	174.65	18.71	-184.27	809.64	784.43	25.21	32.110		
5,000.00	4,954.37	4,953.15	4,952.85	12.57	13.84	174.66	17.85	-184.99	824.05	798.31	25.73	32.024		
5,100.00	5,053.37	5,052.11	5,051.80	12.85	14.11	174.68	16.99	-185.71	838.45	812.20	26.25	31.938		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,200.00	5,152.36	5,151.06	5,150.75	13.12	14.37	174.69	16.13	-186.43	852.85	826.08	26.78	31.853			
5,300.00	5,251.35	5,250.02	5,249.70	13.41	14.64	174.71	15.27	-187.16	867.25	839.95	27.30	31.767			
5,400.00	5,350.34	5,348.98	5,348.65	13.69	14.91	174.72	14.41	-187.88	881.66	853.83	27.83	31.683			
5,500.00	5,449.34	5,447.94	5,447.60	13.97	15.17	174.73	13.55	-188.60	896.06	867.70	28.36	31.599			
5,600.00	5,548.33	5,546.89	5,546.55	14.26	15.44	174.75	12.69	-189.32	910.46	881.57	28.89	31.516			
5,700.00	5,647.32	5,645.85	5,645.50	14.55	15.71	174.76	11.83	-190.04	924.87	895.44	29.42	31.435			
5,800.00	5,746.31	5,744.81	5,744.45	14.84	15.97	174.77	10.97	-190.76	939.27	909.31	29.96	31.354			
5,900.00	5,845.31	5,843.76	5,843.40	15.13	16.24	174.78	10.11	-191.49	953.67	923.18	30.49	31.274			
6,000.00	5,944.30	5,942.72	5,942.35	15.42	16.51	174.80	9.25	-192.21	968.08	937.04	31.03	31.196			
6,100.00	6,043.29	6,041.68	6,041.30	15.72	16.78	174.81	8.39	-192.93	982.48	950.91	31.57	31.119			
6,200.00	6,142.28	6,140.64	6,140.26	16.01	17.05	174.82	7.53	-193.65	996.88	964.77	32.11	31.043			
6,300.00	6,241.28	6,239.59	6,239.21	16.31	17.32	174.83	6.67	-194.37	1,011.28	978.63	32.66	30.968			
6,400.00	6,340.27	6,338.55	6,338.16	16.61	17.58	174.84	5.81	-195.09	1,025.69	992.49	33.20	30.895			
6,500.00	6,439.26	8,037.06	7,362.66	16.90	26.79	-132.56	2.82	748.96	1,017.37	985.71	31.66	32.132			
6,600.00	6,538.26	8,049.16	7,362.65	17.20	26.83	-132.96	2.89	761.06	931.83	899.13	32.70	28.496			
6,700.00	6,637.86	8,052.13	7,362.64	17.38	26.85	-149.68	2.91	764.03	848.76	814.88	33.88	25.051			
6,800.00	6,736.73	8,039.45	7,362.66	17.50	26.80	122.51	2.83	751.35	770.20	735.00	35.20	21.879			
6,900.00	6,832.42	8,011.42	7,362.69	17.58	26.68	120.55	2.66	723.32	699.07	662.44	36.63	19.083			
7,000.00	6,922.59	7,968.74	7,362.74	17.62	26.55	120.00	2.39	680.64	637.92	599.80	38.13	16.731			
7,100.00	7,005.01	7,912.45	7,362.80	17.63	26.38	118.48	2.04	624.35	588.54	548.97	39.56	14.875			
7,200.00	7,077.65	7,843.95	7,362.87	17.64	26.24	115.84	1.61	555.85	551.50	510.64	40.85	13.499			
7,300.00	7,138.73	7,764.91	7,362.96	17.64	25.81	112.47	1.12	476.82	525.99	484.36	41.63	12.634			
7,400.00	7,186.74	7,659.08	7,359.40	17.69	24.25	107.80	0.50	371.12	509.12	468.04	41.08	12.394			
7,500.00	7,220.49	7,548.38	7,338.16	17.80	22.58	102.36	0.01	262.62	495.79	455.52	40.26	12.314			
7,600.00	7,239.17	7,448.71	7,303.21	18.02	21.38	97.06	-0.27	169.38	486.48	446.73	39.75	12.237			
7,700.00	7,243.00	7,357.70	7,258.96	18.40	20.57	91.78	-0.38	89.94	481.73	442.23	39.50	12.196			
7,734.58	7,242.99	7,329.05	7,242.73	18.59	20.37	89.85	-0.39	66.34	481.32	441.83	39.49	12.188 SF			
7,800.00	7,242.97	7,279.58	7,212.26	18.96	20.07	86.23	-0.36	27.38	483.03	443.55	39.48	12.234			
7,900.00	7,242.95	7,214.85	7,168.00	19.67	19.77	81.03	-0.27	-19.81	493.62	454.04	39.58	12.470			
8,000.00	7,242.92	7,161.37	7,127.97	20.51	19.59	76.45	-0.15	-55.25	515.56	475.84	39.72	12.981			
8,100.00	7,242.89	7,117.03	7,092.62	21.45	19.48	72.55	-0.01	-82.00	549.33	509.49	39.83	13.791			
8,200.00	7,242.87	7,080.01	7,061.74	22.48	19.40	69.27	0.13	-102.41	594.17	554.25	39.92	14.884			
8,300.00	7,242.84	7,050.00	7,035.87	23.59	19.33	66.63	0.26	-117.61	648.63	608.64	39.98	16.222			
8,400.00	7,242.82	7,022.33	7,011.41	24.76	19.28	64.23	0.39	-130.53	711.06	671.05	40.01	17.772			
8,500.00	7,242.79	7,000.00	6,991.27	25.98	19.23	62.33	0.51	-140.18	779.92	739.90	40.03	19.485			
8,600.00	7,242.77	6,979.95	6,972.91	27.25	19.19	60.65	0.61	-148.23	853.93	813.90	40.03	21.334			
8,700.00	7,242.74	6,962.81	6,957.02	28.56	19.15	59.24	0.71	-154.66	932.03	892.01	40.02	23.288			
8,800.00	7,242.71	6,950.00	6,945.03	29.91	19.12	58.20	0.79	-159.18	1,013.42	973.41	40.01	25.327			
8,900.00	7,242.69	6,934.44	6,930.35	31.29	19.09	56.96	0.88	-164.34	1,097.44	1,057.44	40.00	27.436			
9,000.00	7,242.66	6,922.58	6,919.09	32.69	19.07	56.03	0.96	-168.04	1,183.60	1,143.62	39.99	29.600			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-75.34	39.35	-150.45	155.51				
100.00	100.00	101.00	101.00	3.28	3.28	-75.34	39.35	-150.45	155.51	147.98	7.53	20.655	
200.00	200.00	201.00	201.00	3.31	3.31	-75.34	39.35	-150.45	155.51	147.94	7.57	20.531	CC, ES
300.00	299.98	300.05	299.95	3.35	3.34	164.96	38.83	-151.16	157.76	150.10	7.65	20.611	
400.00	399.84	400.22	399.77	3.41	3.40	165.13	38.23	-151.99	163.46	155.69	7.78	21.020	
500.00	499.45	500.65	499.34	3.50	3.48	165.56	37.63	-152.82	172.54	164.60	7.95	21.717	
600.00	598.70	601.45	598.53	3.61	3.59	166.20	37.03	-153.65	185.00	176.84	8.16	22.675	
700.00	697.70	702.52	697.45	3.76	3.70	166.93	36.43	-154.47	199.40	190.99	8.41	23.710	
800.00	796.69	803.60	796.37	3.94	3.84	167.57	35.83	-155.29	213.83	205.14	8.69	24.604	
900.00	895.68	904.67	895.29	4.14	3.99	168.12	35.23	-156.12	228.28	219.28	9.00	25.354	
1,000.00	994.67	1,005.74	994.22	4.36	4.16	168.62	34.63	-156.94	242.75	233.41	9.35	25.975	
1,100.00	1,093.67	1,106.82	1,093.14	4.60	4.33	169.05	34.03	-157.77	257.24	247.53	9.71	26.486	
1,200.00	1,192.66	1,207.89	1,192.06	4.86	4.52	169.44	33.43	-158.59	271.74	261.64	10.10	26.901	
1,300.00	1,291.65	1,308.96	1,290.98	5.12	4.71	169.79	32.83	-159.42	286.26	275.75	10.51	27.237	
1,400.00	1,390.64	1,389.96	1,389.90	5.40	4.88	170.11	32.24	-160.24	300.78	289.88	10.89	27.609	
1,500.00	1,489.64	1,488.89	1,488.82	5.68	5.08	170.40	31.64	-161.06	315.31	303.98	11.33	27.833	
1,600.00	1,588.63	1,587.82	1,587.75	5.98	5.29	170.66	31.04	-161.89	329.84	318.07	11.78	28.010	
1,700.00	1,687.62	1,686.75	1,686.67	6.28	5.51	170.90	30.44	-162.71	344.39	332.15	12.23	28.149	
1,800.00	1,786.61	1,785.67	1,785.59	6.58	5.73	171.12	29.84	-163.54	358.93	346.23	12.70	28.255	
1,900.00	1,885.61	1,884.60	1,884.51	6.75	5.86	171.32	29.24	-164.36	373.49	360.90	12.59	29.676	
2,000.00	1,984.60	1,983.53	1,983.43	6.78	5.89	171.51	28.64	-165.18	388.04	375.41	12.63	30.724	
2,100.00	2,083.59	2,082.45	2,082.35	6.83	5.91	171.68	28.04	-166.01	402.61	389.92	12.68	31.742	
2,200.00	2,182.58	2,181.38	2,181.28	6.89	5.95	171.85	27.45	-166.83	417.17	404.41	12.76	32.682	
2,300.00	2,281.58	2,280.31	2,280.20	6.97	6.00	172.00	26.85	-167.66	431.74	418.87	12.87	33.542	
2,400.00	2,380.57	2,379.23	2,379.12	7.06	6.06	172.14	26.25	-168.48	446.31	433.30	13.00	34.321	
2,500.00	2,479.56	2,478.16	2,478.04	7.17	6.13	172.27	25.65	-169.31	460.88	447.72	13.16	35.017	
2,600.00	2,578.55	2,577.09	2,576.96	7.28	6.21	172.39	25.05	-170.13	475.46	462.11	13.34	35.633	
2,700.00	2,677.55	2,676.02	2,675.89	7.42	6.31	172.51	24.45	-170.95	490.03	476.49	13.55	36.172	
2,800.00	2,776.54	2,774.94	2,774.81	7.56	6.41	172.62	23.85	-171.78	504.61	490.84	13.77	36.636	
2,900.00	2,875.53	2,873.87	2,873.73	7.71	6.52	172.73	23.25	-172.60	519.19	505.17	14.02	37.031	
3,000.00	2,974.52	2,972.80	2,972.65	7.88	6.65	172.82	22.66	-173.43	533.78	519.49	14.29	37.361	
3,100.00	3,073.52	3,071.72	3,071.57	8.05	6.78	172.92	22.06	-174.25	548.36	533.79	14.57	37.631	
3,200.00	3,172.51	3,170.65	3,170.49	8.23	6.92	173.01	21.46	-175.07	562.94	548.07	14.87	37.846	
3,300.00	3,271.50	3,269.58	3,269.42	8.43	7.07	173.09	20.86	-175.90	577.53	562.34	15.19	38.012	
3,400.00	3,370.49	3,368.51	3,368.34	8.63	7.22	173.17	20.26	-176.72	592.12	576.59	15.53	38.134	
3,500.00	3,469.49	3,467.43	3,467.26	8.83	7.38	173.24	19.66	-177.55	606.71	590.83	15.88	38.217	
3,600.00	3,568.48	3,566.36	3,566.18	9.05	7.55	173.32	19.06	-178.37	621.30	605.06	16.24	38.264	
3,700.00	3,667.47	3,665.29	3,665.10	9.27	7.73	173.39	18.46	-179.19	635.89	619.28	16.61	38.281	
3,800.00	3,766.46	3,764.21	3,764.03	9.50	7.91	173.45	17.87	-180.02	650.48	633.48	17.00	38.272	
3,900.00	3,865.46	3,863.14	3,862.95	9.73	8.09	173.51	17.27	-180.84	665.07	647.68	17.39	38.239	
4,000.00	3,964.45	3,962.07	3,961.87	9.97	8.28	173.58	16.67	-181.67	679.66	661.86	17.80	38.186	
4,100.00	4,063.44	4,060.99	4,060.79	10.21	8.48	173.63	16.07	-182.49	694.26	676.04	18.21	38.115	
4,200.00	4,162.43	4,159.92	4,159.71	10.46	8.68	173.69	15.47	-183.32	708.85	690.21	18.64	38.031	
4,300.00	4,261.43	4,258.85	4,258.63	10.71	8.88	173.74	14.87	-184.14	723.45	704.38	19.07	37.934	
4,400.00	4,360.42	4,357.78	4,357.56	10.97	9.08	173.79	14.27	-184.96	738.04	718.53	19.51	37.826	
4,500.00	4,459.41	4,456.70	4,456.48	11.23	9.29	173.84	13.67	-185.79	752.64	732.68	19.96	37.710	
4,600.00	4,558.40	4,555.63	4,555.40	11.49	9.51	173.89	13.08	-186.61	767.24	746.82	20.41	37.587	
4,700.00	4,657.40	4,654.56	4,654.32	11.75	9.72	173.93	12.48	-187.44	781.83	760.96	20.87	37.459	
4,800.00	4,756.39	4,753.48	4,753.24	12.02	9.94	173.98	11.88	-188.26	796.43	775.09	21.34	37.326	
4,900.00	4,855.38	4,852.41	4,852.16	12.29	10.16	174.02	11.28	-189.08	811.03	789.22	21.81	37.189	
5,000.00	4,954.37	4,951.34	4,951.09	12.57	10.39	174.06	10.68	-189.91	825.63	803.34	22.28	37.050	
5,100.00	5,053.37	5,050.26	5,050.01	12.85	10.61	174.10	10.08	-190.73	840.22	817.46	22.76	36.910	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,149.19	5,148.93	13.12	10.84	174.14	9.48	-191.56	854.82	831.57	23.25	36.768		
5,300.00	5,251.35	5,248.12	5,247.85	13.41	11.07	174.17	8.88	-192.38	869.42	845.69	23.74	36.625		
5,400.00	5,350.34	5,347.05	5,346.77	13.69	11.31	174.21	8.29	-193.20	884.02	859.79	24.23	36.483		
5,500.00	5,449.34	5,445.97	5,445.70	13.97	11.54	174.24	7.69	-194.03	898.62	873.90	24.73	36.341		
5,600.00	5,548.33	5,544.90	5,544.62	14.26	11.78	174.28	7.09	-194.85	913.22	888.00	25.23	36.199		
5,700.00	5,647.32	5,643.83	5,643.54	14.55	12.01	174.31	6.49	-195.68	927.82	902.09	25.73	36.059		
5,800.00	5,746.31	5,742.75	5,742.46	14.84	12.25	174.34	5.89	-196.50	942.43	916.19	26.24	35.920		
5,900.00	5,845.31	5,841.68	5,841.38	15.13	12.49	174.37	5.29	-197.33	957.03	930.28	26.75	35.782		
6,000.00	5,944.30	5,940.61	5,940.30	15.42	12.73	174.40	4.69	-198.15	971.63	944.37	27.26	35.646		
6,100.00	6,043.29	6,039.53	6,039.23	15.72	12.98	174.43	4.09	-198.97	986.23	958.46	27.77	35.512		
6,200.00	6,142.28	7,689.33	7,038.84	16.01	20.62	-132.32	-18.41	721.03	975.63	946.67	28.96	33.689		
6,300.00	6,241.28	7,701.71	7,038.84	16.31	20.76	-130.82	-18.62	733.41	888.61	858.91	29.71	29.912		
6,400.00	6,340.27	7,714.09	7,038.83	16.61	20.90	-129.31	-18.84	745.79	804.42	773.82	30.60	26.288		
6,500.00	6,439.26	7,726.46	7,038.82	16.90	21.05	-127.78	-19.06	758.16	724.06	692.38	31.67	22.859		
6,600.00	6,538.26	7,738.78	7,038.81	17.20	21.20	-128.38	-19.28	770.48	648.93	615.95	32.98	19.679		
6,700.00	6,637.86	7,741.98	7,038.81	17.38	21.23	149.33	-19.34	773.67	580.80	546.40	34.40	16.884		
6,800.00	6,736.73	7,729.51	7,038.82	17.50	21.09	116.97	-19.12	761.21	523.55	487.75	35.80	14.625		
6,900.00	6,832.42	7,701.70	7,038.84	17.58	20.76	109.90	-18.62	733.40	481.50	444.59	36.91	13.044		
7,000.00	6,922.59	7,659.22	7,038.86	17.62	20.29	104.15	-17.87	690.93	457.28	419.82	37.46	12.209		
7,094.45	7,000.67	7,606.58	7,038.89	17.63	19.70	97.65	-16.94	638.29	450.38	413.10	37.28	12.081 SF		
7,100.00	7,005.01	7,603.13	7,038.89	17.63	19.67	97.23	-16.88	634.84	450.40	413.15	37.25	12.091		
7,200.00	7,077.65	7,534.79	7,038.93	17.64	18.96	89.35	-15.67	566.52	457.12	420.64	36.49	12.528		
7,300.00	7,138.73	7,455.90	7,038.97	17.64	18.20	81.51	-14.27	487.64	471.83	436.36	35.47	13.301		
7,400.00	7,186.74	7,375.09	7,038.40	17.69	17.48	75.02	-12.84	406.85	489.11	454.55	34.57	14.149		
7,500.00	7,220.49	7,304.25	7,031.40	17.80	16.90	69.92	-11.54	336.40	507.53	473.54	33.98	14.935		
7,600.00	7,239.17	7,235.35	7,017.13	18.02	16.40	65.58	-10.26	269.04	526.09	492.47	33.63	15.645		
7,700.00	7,243.00	7,168.13	6,996.27	18.40	15.97	62.35	-9.00	205.19	544.01	510.53	33.48	16.249		
7,800.00	7,242.97	7,105.25	6,970.76	18.96	15.62	60.04	-7.83	147.75	566.49	533.00	33.50	16.912		
7,900.00	7,242.95	7,050.00	6,943.77	19.67	15.36	57.70	-6.80	99.58	595.96	562.31	33.65	17.710		
8,000.00	7,242.92	7,000.00	6,915.82	20.51	15.17	55.40	-5.90	58.15	632.61	598.73	33.88	18.673		
8,100.00	7,242.89	6,950.00	6,884.70	21.45	15.01	52.99	-5.01	19.03	676.29	642.17	34.12	19.821		
8,200.00	7,242.87	6,909.74	6,857.48	22.48	14.90	51.00	-4.32	-10.61	726.61	692.21	34.41	21.119		
8,300.00	7,242.84	6,873.41	6,831.35	23.59	14.82	49.19	-3.71	-35.83	782.97	748.29	34.68	22.577		
8,400.00	7,242.82	6,850.00	6,813.77	24.76	14.77	48.02	-3.33	-51.28	844.78	809.84	34.95	24.172		
8,500.00	7,242.79	6,812.36	6,784.33	25.98	14.69	46.17	-2.73	-74.74	911.08	875.92	35.16	25.915		
8,600.00	7,242.77	6,786.69	6,763.50	27.25	14.64	44.92	-2.33	-89.71	981.52	946.16	35.35	27.762		
8,700.00	7,242.74	6,763.71	6,744.34	28.56	14.59	43.82	-1.99	-102.40	1,055.42	1,019.90	35.53	29.709		
8,800.00	7,242.71	6,750.00	6,732.70	29.91	14.56	43.17	-1.79	-109.64	1,132.36	1,096.70	35.67	31.749		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-62.32	79.05	-150.73	170.20					
100.00	100.00	101.00	101.00	3.28	3.28	-62.32	79.05	-150.73	170.20	162.67	7.53	22.606		
200.00	200.00	201.00	201.00	3.31	3.31	-62.32	79.05	-150.73	170.20	162.63	7.57	22.471	CC, ES	
300.00	299.98	302.32	297.66	3.35	3.35	178.45	80.54	-151.24	173.13	165.46	7.66	22.597		
400.00	399.84	402.60	397.35	3.41	3.42	179.06	83.01	-152.09	180.28	172.49	7.79	23.135		
500.00	499.45	503.19	496.72	3.50	3.51	179.63	85.47	-152.94	190.93	182.96	7.97	23.959		
600.00	598.70	604.22	595.67	3.61	3.62	-179.86	87.92	-153.78	205.06	196.87	8.19	25.040		
700.00	697.70	705.53	694.31	3.76	3.74	-179.42	90.36	-154.62	221.16	212.72	8.44	26.190		
800.00	796.69	806.85	792.96	3.94	3.88	-179.04	92.81	-155.46	237.28	228.56	8.73	27.187		
900.00	895.68	908.17	891.61	4.14	4.04	-178.71	95.25	-156.30	253.41	244.37	9.04	28.024		
1,000.00	994.67	1,009.49	990.25	4.36	4.21	-178.42	97.69	-157.14	269.55	260.17	9.39	28.721		
1,100.00	1,093.67	1,089.19	1,088.90	4.60	4.35	-178.16	100.13	-157.99	285.70	275.98	9.71	29.413		
1,200.00	1,192.66	1,187.87	1,187.55	4.86	4.54	-177.93	102.57	-158.83	301.85	291.75	10.10	29.900		
1,300.00	1,291.65	1,286.55	1,286.19	5.12	4.73	-177.73	105.02	-159.67	318.00	307.50	10.50	30.297		
1,400.00	1,390.64	1,385.23	1,384.84	5.40	4.93	-177.54	107.46	-160.51	334.16	323.24	10.91	30.620		
1,500.00	1,489.64	1,483.91	1,483.49	5.68	5.14	-177.37	109.90	-161.35	350.32	338.97	11.34	30.879		
1,600.00	1,588.63	1,582.59	1,582.13	5.98	5.35	-177.22	112.34	-162.19	366.48	354.69	11.79	31.085		
1,700.00	1,687.62	1,681.27	1,680.78	6.28	5.57	-177.07	114.79	-163.03	382.64	370.40	12.25	31.248		
1,800.00	1,786.61	1,779.95	1,779.43	6.58	5.79	-176.94	117.23	-163.87	398.81	386.10	12.71	31.375		
1,900.00	1,885.61	1,878.63	1,878.08	6.75	5.93	-176.82	119.67	-164.71	414.98	402.38	12.60	32.936		
2,000.00	1,984.60	1,977.31	1,976.72	6.78	5.96	-176.71	122.11	-165.55	431.15	418.50	12.65	34.081		
2,100.00	2,083.59	2,075.99	2,075.37	6.83	5.98	-176.61	124.56	-166.40	447.32	434.62	12.70	35.212		
2,200.00	2,182.58	2,174.67	2,174.02	6.89	6.02	-176.51	127.00	-167.24	463.50	450.71	12.78	36.258		
2,300.00	2,281.58	2,273.36	2,272.66	6.97	6.07	-176.42	129.44	-168.08	479.67	466.78	12.89	37.216		
2,400.00	2,380.57	2,372.04	2,371.31	7.06	6.12	-176.34	131.88	-168.92	495.85	482.83	13.02	38.085		
2,500.00	2,479.56	2,470.72	2,469.96	7.17	6.19	-176.26	134.33	-169.76	512.02	498.85	13.17	38.865		
2,600.00	2,578.55	2,569.40	2,568.60	7.28	6.28	-176.19	136.77	-170.60	528.20	514.85	13.35	39.556		
2,700.00	2,677.55	2,668.08	2,667.25	7.42	6.37	-176.12	139.21	-171.44	544.38	530.82	13.55	40.162		
2,800.00	2,776.54	2,766.76	2,765.90	7.56	6.47	-176.05	141.65	-172.28	560.56	546.78	13.78	40.687		
2,900.00	2,875.53	2,865.44	2,864.54	7.71	6.58	-175.99	144.10	-173.12	576.74	562.72	14.02	41.135		
3,000.00	2,974.52	2,964.12	2,963.19	7.88	6.70	-175.93	146.54	-173.96	592.92	578.63	14.28	41.511		
3,100.00	3,073.52	3,062.80	3,061.84	8.05	6.83	-175.88	148.98	-174.81	609.10	594.53	14.56	41.821		
3,200.00	3,172.51	3,161.48	3,160.48	8.23	6.97	-175.83	151.42	-175.65	625.28	610.42	14.86	42.071		
3,300.00	3,271.50	3,260.16	3,259.13	8.43	7.11	-175.78	153.87	-176.49	641.46	626.29	15.18	42.265		
3,400.00	3,370.49	3,358.84	3,357.78	8.63	7.27	-175.73	156.31	-177.33	657.64	642.14	15.51	42.411		
3,500.00	3,469.49	3,457.52	3,456.42	8.83	7.43	-175.69	158.75	-178.17	673.83	657.98	15.85	42.512		
3,600.00	3,568.48	3,556.20	3,555.07	9.05	7.59	-175.64	161.19	-179.01	690.01	673.80	16.21	42.574		
3,700.00	3,667.47	3,654.88	3,653.72	9.27	7.77	-175.60	163.64	-179.85	706.19	689.62	16.58	42.602		
3,800.00	3,766.46	3,753.56	3,752.36	9.50	7.94	-175.56	166.08	-180.69	722.38	705.42	16.96	42.599		
3,900.00	3,865.46	3,852.24	3,851.01	9.73	8.13	-175.53	168.52	-181.53	738.56	721.21	17.35	42.570		
4,000.00	3,964.45	3,950.93	3,949.66	9.97	8.31	-175.49	170.96	-182.37	754.75	737.00	17.75	42.519		
4,100.00	4,063.44	4,049.61	4,048.30	10.21	8.51	-175.46	173.41	-183.22	770.93	752.77	18.16	42.448		
4,200.00	4,162.43	4,148.29	4,146.95	10.46	8.70	-175.42	175.85	-184.06	787.12	768.53	18.58	42.360		
4,300.00	4,261.43	4,246.97	4,245.60	10.71	8.90	-175.39	178.29	-184.90	803.30	784.29	19.01	42.258		
4,400.00	4,360.42	4,345.65	4,344.24	10.97	9.11	-175.36	180.73	-185.74	819.49	800.04	19.44	42.144		
4,500.00	4,459.41	4,444.33	4,442.89	11.23	9.32	-175.33	183.18	-186.58	835.67	815.79	19.89	42.021		
4,600.00	4,558.40	4,543.01	4,541.54	11.49	9.53	-175.30	185.62	-187.42	851.86	831.52	20.34	41.889		
4,700.00	4,657.40	4,641.69	4,640.18	11.75	9.74	-175.28	188.06	-188.26	868.04	847.25	20.79	41.750		
4,800.00	4,756.39	4,740.37	4,738.83	12.02	9.96	-175.25	190.50	-189.10	884.23	862.98	21.25	41.606		
4,900.00	4,855.38	4,839.05	4,837.48	12.29	10.18	-175.23	192.94	-189.94	900.42	878.70	21.72	41.458		
5,000.00	4,954.37	4,937.73	4,936.12	12.57	10.40	-175.20	195.39	-190.78	916.60	894.41	22.19	41.307		
5,100.00	5,053.37	5,036.41	5,034.77	12.85	10.63	-175.18	197.83	-191.63	932.79	910.12	22.67	41.154		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,135.09	5,133.42	13.12	10.85	-175.16	200.27	-192.47	948.98	925.83	23.15	40.999		
5,300.00	5,251.35	5,233.77	5,232.06	13.41	11.08	-175.13	202.71	-193.31	965.16	941.53	23.63	40.843		
5,400.00	5,350.34	5,332.45	5,330.71	13.69	11.31	-175.11	205.16	-194.15	981.35	957.23	24.12	40.687		
5,500.00	5,449.34	5,431.13	5,429.36	13.97	11.55	-175.09	207.60	-194.99	997.54	972.93	24.61	40.531		
5,600.00	5,548.33	5,529.81	5,528.00	14.26	11.78	-175.07	210.04	-195.83	1,013.73	988.62	25.11	40.375		
5,700.00	5,647.32	5,628.49	5,626.65	14.55	12.02	-175.05	212.48	-196.67	1,029.91	1,004.31	25.61	40.221		
5,800.00	5,746.31	5,727.18	5,725.30	14.84	12.25	-175.04	214.93	-197.51	1,046.10	1,019.99	26.11	40.068		
5,900.00	5,845.31	5,825.86	5,823.94	15.13	12.49	-175.02	217.37	-198.35	1,062.29	1,035.68	26.61	39.916		
6,000.00	5,944.30	5,924.54	5,922.59	15.42	12.73	-175.00	219.81	-199.19	1,078.48	1,051.36	27.12	39.766		
6,100.00	6,043.29	6,023.22	6,021.24	15.72	12.97	-174.98	222.25	-200.03	1,094.66	1,067.03	27.63	39.617		
6,200.00	6,142.28	6,121.90	6,119.89	16.01	13.22	-174.97	224.70	-200.88	1,110.85	1,082.71	28.14	39.471		
6,300.00	6,241.28	6,220.58	6,218.53	16.31	13.46	-174.95	227.14	-201.72	1,127.04	1,098.38	28.66	39.326		
6,400.00	6,340.27	7,850.45	7,173.44	16.61	21.49	-127.09	246.27	742.99	1,065.67	1,033.54	32.13	33.168		
6,500.00	6,439.26	7,862.61	7,173.41	16.90	21.63	-126.14	246.22	755.15	994.96	961.79	33.17	29.996		
6,600.00	6,538.26	7,874.72	7,173.39	17.20	21.76	-127.52	246.16	767.26	929.48	895.16	34.32	27.079		
6,700.00	6,637.86	7,877.70	7,173.39	17.38	21.80	148.27	246.14	770.24	870.11	834.68	35.44	24.552		
6,800.00	6,736.73	7,865.02	7,173.41	17.50	21.66	115.55	246.20	757.56	819.06	782.66	36.40	22.503		
6,900.00	6,832.42	7,837.00	7,173.46	17.58	21.34	109.53	246.34	729.54	778.57	741.48	37.09	20.992		
7,000.00	6,922.59	7,805.68	7,173.54	17.62	20.99	106.05	246.54	686.86	749.75	712.21	37.54	19.974		
7,100.00	7,005.01	7,738.04	7,173.64	17.63	20.29	102.36	246.81	630.58	732.27	694.88	37.39	19.582		
7,200.00	7,077.65	7,669.54	7,173.76	17.64	19.60	98.16	247.14	562.08	724.41	687.37	37.04	19.556 SF		
7,265.58	7,119.11	7,618.78	7,173.86	17.64	19.12	95.29	247.38	511.32	723.20	686.50	36.70	19.704		
7,300.00	7,138.73	7,609.50	7,173.91	17.64	19.03	93.81	247.51	483.05	723.47	686.81	36.66	19.732		
7,400.00	7,186.74	7,502.68	7,172.92	17.69	18.12	89.74	247.91	395.24	726.42	690.51	35.91	20.228		
7,500.00	7,220.49	7,416.26	7,162.07	17.80	17.46	86.00	248.04	309.57	731.11	695.65	35.46	20.619		
7,600.00	7,239.17	7,334.30	7,141.15	18.02	16.90	82.61	247.90	230.38	736.91	701.73	35.18	20.945		
7,700.00	7,243.00	7,256.09	7,111.87	18.40	16.43	79.73	247.52	157.92	743.42	708.34	35.08	21.192		
7,800.00	7,242.97	7,185.11	7,077.79	18.96	16.07	77.15	246.97	95.70	753.36	718.20	35.17	21.423		
7,900.00	7,242.95	7,122.75	7,042.29	19.67	15.80	74.51	246.34	44.47	768.84	733.44	35.39	21.723		
8,000.00	7,242.92	7,068.52	7,007.48	20.51	15.59	71.99	245.67	2.91	790.83	755.12	35.71	22.145		
8,100.00	7,242.89	7,021.58	6,974.58	21.45	15.42	69.66	245.02	-30.55	819.90	783.83	36.07	22.729		
8,200.00	7,242.87	6,980.96	6,944.20	22.48	15.30	67.56	244.39	-57.48	856.18	819.74	36.44	23.495		
8,300.00	7,242.84	6,950.00	6,919.91	23.59	15.21	65.93	243.88	-76.68	899.46	862.66	36.80	24.443		
8,400.00	7,242.82	6,915.10	6,891.46	24.76	15.11	64.06	243.28	-96.88	949.23	912.14	37.09	25.591		
8,500.00	7,242.79	6,888.31	6,868.89	25.98	15.04	62.62	242.79	-111.31	1,004.92	967.57	37.35	26.903		
8,600.00	7,242.77	6,864.76	6,848.57	27.25	14.98	61.35	242.34	-123.19	1,065.87	1,028.30	37.57	28.370		
8,700.00	7,242.74	6,850.00	6,835.62	28.56	14.94	60.56	242.05	-130.26	1,131.47	1,093.72	37.75	29.972		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-82.67	19.30	-150.17	151.41					
100.00	100.00	101.00	101.00	3.28	3.28	-82.67	19.30	-150.17	151.41	143.88	7.53	20.110		
200.00	200.00	201.00	201.00	3.31	3.31	-82.67	19.30	-150.17	151.41	143.83	7.57	19.990	CC, ES	
300.00	299.98	314.51	300.47	3.35	3.35	157.30	17.59	-150.54	153.17	145.51	7.66	19.992		
400.00	399.84	400.34	400.25	3.41	3.40	156.64	13.92	-151.31	158.34	150.57	7.77	20.369		
500.00	499.45	500.02	499.82	3.50	3.48	156.48	10.27	-152.09	166.71	158.78	7.94	20.998		
600.00	598.70	600.70	599.07	3.61	3.58	156.76	6.62	-152.87	178.28	170.13	8.15	21.866		
700.00	697.70	701.62	698.08	3.76	3.70	157.30	2.99	-153.64	191.66	183.26	8.41	22.798		
800.00	796.69	802.53	797.10	3.94	3.84	157.78	-0.65	-154.41	205.07	196.38	8.69	23.589		
900.00	895.68	903.45	896.11	4.14	3.99	158.21	-4.28	-155.18	218.49	209.47	9.01	24.239		
1,000.00	994.67	1,004.37	995.12	4.36	4.16	158.58	-7.92	-155.96	231.92	222.55	9.36	24.767		
1,100.00	1,093.67	1,105.28	1,094.14	4.60	4.34	158.92	-11.56	-156.73	245.36	235.61	9.74	25.188		
1,200.00	1,192.66	1,206.20	1,193.15	4.86	4.53	159.21	-15.19	-157.50	258.80	248.66	10.14	25.521		
1,300.00	1,291.65	1,307.12	1,292.16	5.12	4.73	159.48	-18.83	-158.28	272.25	261.69	10.56	25.781		
1,400.00	1,390.64	1,408.03	1,391.18	5.40	4.94	159.73	-22.46	-159.05	285.71	274.71	11.00	25.979		
1,500.00	1,489.64	1,508.95	1,490.19	5.68	5.15	159.95	-26.10	-159.82	299.17	287.72	11.45	26.127		
1,600.00	1,588.63	1,609.87	1,589.21	5.98	5.38	160.15	-29.74	-160.59	312.64	300.72	11.92	26.235		
1,700.00	1,687.62	1,689.22	1,688.22	6.28	5.56	160.34	-33.37	-161.37	326.11	313.76	12.35	26.415		
1,800.00	1,786.61	1,788.30	1,787.23	6.58	5.79	160.51	-37.01	-162.14	339.58	326.75	12.83	26.470		
1,900.00	1,885.61	1,887.38	1,886.25	6.75	5.92	160.67	-40.64	-162.91	353.05	340.34	12.72	27.764		
2,000.00	1,984.60	1,986.47	1,985.26	6.78	5.95	160.81	-44.28	-163.69	366.53	353.77	12.76	28.722		
2,100.00	2,083.59	2,085.55	2,084.27	6.83	5.97	160.95	-47.92	-164.46	380.01	367.19	12.82	29.644		
2,200.00	2,182.58	2,184.63	2,183.29	6.89	6.01	161.08	-51.55	-165.23	393.49	380.59	12.90	30.493		
2,300.00	2,281.58	2,283.72	2,282.30	6.97	6.06	161.20	-55.19	-166.00	406.98	393.96	13.02	31.266		
2,400.00	2,380.57	2,382.80	2,381.32	7.06	6.13	161.31	-58.82	-166.78	420.46	407.31	13.15	31.962		
2,500.00	2,479.56	2,481.89	2,480.33	7.17	6.20	161.41	-62.46	-167.55	433.95	420.63	13.32	32.582		
2,600.00	2,578.55	2,580.97	2,579.34	7.28	6.29	161.51	-66.10	-168.32	447.43	433.93	13.51	33.127		
2,700.00	2,677.55	2,680.05	2,678.36	7.42	6.39	161.60	-69.73	-169.10	460.92	447.21	13.72	33.600		
2,800.00	2,776.54	2,779.14	2,777.37	7.56	6.49	161.69	-73.37	-169.87	474.41	460.46	13.95	34.005		
2,900.00	2,875.53	2,878.22	2,876.38	7.71	6.61	161.77	-77.00	-170.64	487.90	473.70	14.21	34.345		
3,000.00	2,974.52	2,977.30	2,975.40	7.88	6.74	161.85	-80.64	-171.42	501.40	486.92	14.48	34.626		
3,100.00	3,073.52	3,076.39	3,074.41	8.05	6.88	161.92	-84.28	-172.19	514.89	500.12	14.77	34.852		
3,200.00	3,172.51	3,175.47	3,173.42	8.23	7.02	161.99	-87.91	-172.96	528.38	513.30	15.08	35.028		
3,300.00	3,271.50	3,274.55	3,272.44	8.43	7.18	162.06	-91.55	-173.73	541.88	526.47	15.41	35.160		
3,400.00	3,370.49	3,373.64	3,371.45	8.63	7.34	162.12	-95.18	-174.51	555.37	539.62	15.75	35.252		
3,500.00	3,469.49	3,472.72	3,470.47	8.83	7.51	162.18	-98.82	-175.28	568.87	552.76	16.11	35.308		
3,600.00	3,568.48	3,571.80	3,569.48	9.05	7.68	162.24	-102.46	-176.05	582.36	565.88	16.48	35.333		
3,700.00	3,667.47	3,670.89	3,668.49	9.27	7.86	162.29	-106.09	-176.83	595.86	579.00	16.87	35.331		
3,800.00	3,766.46	3,769.97	3,767.51	9.50	8.05	162.34	-109.73	-177.60	609.36	592.10	17.26	35.305		
3,900.00	3,865.46	3,869.05	3,866.52	9.73	8.24	162.39	-113.36	-178.37	622.86	605.19	17.67	35.259		
4,000.00	3,964.45	3,968.14	3,965.53	9.97	8.43	162.44	-117.00	-179.14	636.35	618.27	18.08	35.195		
4,100.00	4,063.44	4,067.22	4,064.55	10.21	8.63	162.49	-120.64	-179.92	649.85	631.35	18.51	35.116		
4,200.00	4,162.43	4,166.30	4,163.56	10.46	8.84	162.53	-124.27	-180.69	663.35	644.41	18.94	35.024		
4,300.00	4,261.43	4,265.39	4,262.58	10.71	9.05	162.57	-127.91	-181.46	676.85	657.47	19.38	34.922		
4,400.00	4,360.42	4,364.47	4,361.59	10.97	9.26	162.61	-131.54	-182.24	690.35	670.52	19.83	34.812		
4,500.00	4,459.41	4,463.55	4,460.60	11.23	9.48	162.65	-135.18	-183.01	703.85	683.56	20.29	34.694		
4,600.00	4,558.40	4,562.64	4,559.62	11.49	9.70	162.69	-138.81	-183.78	717.35	696.60	20.75	34.570		
4,700.00	4,657.40	4,661.72	4,658.63	11.75	9.92	162.73	-142.45	-184.55	730.85	709.63	21.22	34.442		
4,800.00	4,756.39	4,760.80	4,757.64	12.02	10.14	162.76	-146.09	-185.33	744.35	722.66	21.70	34.310		
4,900.00	4,855.38	4,859.89	4,856.66	12.29	10.37	162.80	-149.72	-186.10	757.85	735.68	22.18	34.175		
5,000.00	4,954.37	4,958.97	4,955.67	12.57	10.60	162.83	-153.36	-186.87	771.36	748.69	22.66	34.039		
5,100.00	5,053.37	5,058.05	5,054.68	12.85	10.83	162.86	-156.99	-187.65	784.86	761.71	23.15	33.902		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,157.14	5,153.70	13.12	11.07	162.89	-160.63	-188.42	798.36	774.71	23.65	33.764		
5,300.00	5,251.35	5,256.22	5,252.71	13.41	11.30	162.92	-164.27	-189.19	811.86	787.72	24.14	33.626		
5,400.00	5,350.34	5,355.30	5,351.73	13.69	11.54	162.95	-167.90	-189.96	825.36	800.72	24.65	33.488		
5,500.00	5,449.34	5,454.39	5,450.74	13.97	11.78	162.97	-171.54	-190.74	838.87	813.71	25.15	33.351		
5,600.00	5,548.33	5,553.47	5,549.75	14.26	12.02	163.00	-175.17	-191.51	852.37	826.71	25.66	33.215		
5,700.00	5,647.32	5,652.55	5,648.77	14.55	12.27	163.03	-178.81	-192.28	865.87	839.70	26.17	33.080		
5,800.00	5,746.31	5,751.64	5,747.78	14.84	12.51	163.05	-182.45	-193.06	879.37	852.68	26.69	32.947		
5,900.00	5,845.31	5,850.72	5,846.79	15.13	12.76	163.08	-186.08	-193.83	892.88	865.67	27.21	32.815		
6,000.00	5,944.30	5,949.81	5,945.81	15.42	13.01	163.10	-189.72	-194.60	906.38	878.65	27.73	32.685		
6,100.00	6,043.29	6,048.89	6,044.82	15.72	13.26	163.12	-193.35	-195.37	919.88	891.63	28.25	32.557		
6,200.00	6,142.28	6,147.97	6,143.84	16.01	13.51	163.14	-196.99	-196.15	933.39	904.61	28.78	32.431		
6,300.00	6,241.28	6,247.06	6,242.85	16.31	13.76	163.17	-200.63	-196.92	946.89	917.58	29.31	32.307		
6,400.00	6,340.27	6,346.14	6,341.86	16.61	14.01	163.19	-204.26	-197.69	960.40	930.56	29.84	32.185		
6,500.00	6,439.26	8,046.89	7,361.83	16.90	21.63	-144.21	-248.08	752.30	938.66	909.20	29.47	31.857		
6,600.00	6,538.26	8,059.13	7,361.82	17.20	21.77	-142.48	-248.16	764.54	843.16	813.21	29.95	28.155		
6,700.00	6,637.86	8,062.25	7,361.82	17.38	21.81	154.35	-248.18	767.66	748.08	717.63	30.45	24.566		
6,800.00	6,736.73	8,049.71	7,361.83	17.50	21.66	136.35	-248.10	755.12	655.14	624.18	30.95	21.165		
6,900.00	6,832.42	8,021.82	7,361.84	17.58	21.35	138.19	-247.91	727.23	567.20	535.73	31.47	18.021		
7,000.00	6,922.59	7,979.27	7,361.87	17.62	20.89	138.97	-247.63	684.68	487.16	455.11	32.05	15.202		
7,100.00	7,005.01	7,923.10	7,361.90	17.63	20.30	137.68	-247.26	628.51	417.74	385.07	32.68	12.784		
7,200.00	7,077.65	7,854.70	7,361.93	17.64	19.63	134.58	-246.81	560.12	361.26	327.92	33.34	10.835		
7,300.00	7,138.73	7,775.75	7,361.98	17.64	18.90	130.09	-246.28	481.17	319.02	285.08	33.94	9.399		
7,400.00	7,186.74	7,673.41	7,359.46	17.69	18.05	123.46	-245.51	378.91	289.61	255.33	34.28	8.447		
7,500.00	7,220.49	7,562.58	7,340.04	17.80	17.26	114.52	-244.07	269.94	266.01	231.41	34.61	7.686		
7,600.00	7,239.17	7,462.45	7,306.49	18.02	16.69	104.83	-242.22	175.72	249.66	214.70	34.95	7.143		
7,700.00	7,243.00	7,370.81	7,263.21	18.40	16.32	94.55	-240.09	95.07	242.49	207.30	35.19	6.891		
7,718.60	7,242.99	7,355.04	7,254.61	18.50	16.29	92.51	-239.68	81.86	242.28	207.05	35.23	6.877 SF		
7,800.00	7,242.97	7,291.89	7,216.98	18.96	16.16	83.68	-237.96	31.20	247.08	211.78	35.30	6.999		
7,900.00	7,242.95	7,226.30	7,172.79	19.67	16.03	73.83	-236.02	-17.19	268.56	233.32	35.24	7.620		
8,000.00	7,242.92	7,172.00	7,132.60	20.51	15.93	65.75	-234.30	-53.63	307.85	272.73	35.12	8.765		
8,100.00	7,242.89	7,126.93	7,096.98	21.45	15.84	59.41	-232.80	-81.19	362.03	327.01	35.02	10.338		
8,200.00	7,242.87	7,089.27	7,065.78	22.48	15.77	54.51	-231.52	-102.24	427.23	392.27	34.96	12.220		
8,300.00	7,242.84	7,057.54	7,038.57	23.59	15.70	50.70	-230.41	-118.51	500.28	465.34	34.94	14.320		
8,400.00	7,242.82	7,030.57	7,014.83	24.76	15.64	47.71	-229.45	-131.26	578.91	543.98	34.93	16.573		
8,500.00	7,242.79	7,000.00	6,987.29	25.98	15.58	44.58	-228.35	-144.48	661.69	626.75	34.94	18.939		
8,600.00	7,242.77	6,987.44	6,975.79	27.25	15.55	43.38	-227.89	-149.53	747.33	712.38	34.94	21.387		
8,700.00	7,242.74	6,969.99	6,959.67	28.56	15.52	41.78	-227.26	-156.16	835.34	800.39	34.95	23.899		
8,800.00	7,242.71	6,950.00	6,940.98	29.91	15.47	40.06	-226.52	-163.21	925.17	890.20	34.97	26.453		
8,900.00	7,242.69	6,950.00	6,940.98	31.29	15.47	40.06	-226.52	-163.21	1,016.46	981.50	34.95	29.081		
9,000.00	7,242.66	6,929.07	6,921.18	32.69	15.43	38.37	-225.75	-169.96	1,108.71	1,073.72	34.99	31.687		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-47.34	139.16	-151.01	205.35				
100.00	100.00	101.00	101.00	3.28	3.28	-47.34	139.16	-151.01	205.35	197.82	7.53	27.274	
200.00	200.00	201.00	201.00	3.31	3.31	-47.34	139.16	-151.01	205.35	197.77	7.57	27.111	CC, ES
300.00	299.98	295.79	295.78	3.35	3.35	-166.73	140.75	-151.16	208.31	200.65	7.66	27.201	
400.00	399.84	390.12	389.98	3.41	3.41	-166.16	145.43	-151.61	217.13	209.35	7.78	27.896	
500.00	499.45	487.84	487.44	3.50	3.50	-165.43	152.54	-152.29	231.08	223.13	7.96	29.039	
600.00	598.70	586.30	585.63	3.61	3.61	-164.94	159.79	-152.99	248.46	240.28	8.18	30.384	
700.00	697.70	684.43	683.49	3.76	3.73	-164.70	167.01	-153.69	267.73	259.30	8.43	31.757	
800.00	796.69	782.55	781.34	3.94	3.87	-164.50	174.23	-154.38	287.01	278.29	8.71	32.946	
900.00	895.68	880.67	879.19	4.14	4.03	-164.33	181.45	-155.08	306.29	297.26	9.02	33.940	
1,000.00	994.67	978.78	977.04	4.36	4.20	-164.18	188.67	-155.77	325.57	316.20	9.37	34.763	
1,100.00	1,093.67	1,076.90	1,074.89	4.60	4.38	-164.04	195.89	-156.47	344.86	335.12	9.73	35.436	
1,200.00	1,192.66	1,175.02	1,172.74	4.86	4.58	-163.92	203.12	-157.16	364.14	354.02	10.12	35.982	
1,300.00	1,291.65	1,273.14	1,270.59	5.12	4.78	-163.81	210.34	-157.86	383.43	372.90	10.53	36.421	
1,400.00	1,390.64	1,371.26	1,368.44	5.40	4.99	-163.71	217.56	-158.55	402.72	391.77	10.95	36.771	
1,500.00	1,489.64	1,469.38	1,466.30	5.68	5.21	-163.62	224.78	-159.25	422.01	410.62	11.39	37.045	
1,600.00	1,588.63	1,567.50	1,564.15	5.98	5.43	-163.54	232.00	-159.95	441.30	429.46	11.84	37.258	
1,700.00	1,687.62	1,665.62	1,662.00	6.28	5.66	-163.46	239.22	-160.64	460.60	448.29	12.31	37.420	
1,800.00	1,786.61	1,763.74	1,759.85	6.58	5.90	-163.39	246.44	-161.34	479.89	467.10	12.78	37.540	
1,900.00	1,885.61	1,861.86	1,857.70	6.75	6.14	-163.33	253.66	-162.03	499.18	486.41	12.77	39.088	
2,000.00	1,984.60	1,959.98	1,955.55	6.78	6.38	-163.27	260.88	-162.73	518.48	505.45	13.03	39.802	
2,100.00	2,083.59	2,058.10	2,053.40	6.83	6.63	-163.21	268.10	-163.42	537.77	524.47	13.30	40.435	
2,200.00	2,182.58	2,156.22	2,151.25	6.89	6.88	-163.16	275.33	-164.12	557.07	543.48	13.59	40.992	
2,300.00	2,281.58	2,254.34	2,249.10	6.97	7.13	-163.11	282.55	-164.81	576.36	562.47	13.90	41.476	
2,400.00	2,380.57	2,352.46	2,346.96	7.06	7.38	-163.07	289.77	-165.51	595.66	581.44	14.22	41.893	
2,500.00	2,479.56	2,450.58	2,444.81	7.17	7.64	-163.03	296.99	-166.20	614.95	600.40	14.56	42.248	
2,600.00	2,578.55	2,548.70	2,542.66	7.28	7.90	-162.99	304.21	-166.90	634.25	619.34	14.91	42.546	
2,700.00	2,677.55	2,646.82	2,640.51	7.42	8.16	-162.95	311.43	-167.59	653.55	638.28	15.27	42.792	
2,800.00	2,776.54	2,744.94	2,738.36	7.56	8.42	-162.92	318.65	-168.29	672.85	657.19	15.65	42.991	
2,900.00	2,875.53	2,843.06	2,836.21	7.71	8.68	-162.88	325.87	-168.98	692.14	676.10	16.04	43.148	
3,000.00	2,974.52	2,941.18	2,934.06	7.88	8.95	-162.85	333.09	-169.68	711.44	695.00	16.44	43.268	
3,100.00	3,073.52	3,039.30	3,031.91	8.05	9.22	-162.82	340.32	-170.37	730.74	713.88	16.85	43.354	
3,200.00	3,172.51	3,137.42	3,129.76	8.23	9.48	-162.80	347.54	-171.07	750.04	732.76	17.28	43.412	
3,300.00	3,271.50	3,235.54	3,227.62	8.43	9.75	-162.77	354.76	-171.76	769.33	751.63	17.71	43.443	
3,400.00	3,370.49	3,333.66	3,325.47	8.63	10.02	-162.74	361.98	-172.46	788.63	770.48	18.15	43.452	
3,500.00	3,469.49	3,431.78	3,423.32	8.83	10.29	-162.72	369.20	-173.16	807.93	789.33	18.60	43.442	
3,600.00	3,568.48	3,529.90	3,521.17	9.05	10.56	-162.70	376.42	-173.85	827.23	808.18	19.05	43.415	
3,700.00	3,667.47	3,628.01	3,619.02	9.27	10.84	-162.67	383.64	-174.55	846.53	827.01	19.52	43.373	
3,800.00	3,766.46	3,726.13	3,716.87	9.50	11.11	-162.65	390.86	-175.24	865.83	845.84	19.99	43.319	
3,900.00	3,865.46	3,824.25	3,814.72	9.73	11.38	-162.63	398.08	-175.94	885.13	864.66	20.46	43.255	
4,000.00	3,964.45	3,922.37	3,912.57	9.97	11.65	-162.61	405.30	-176.63	904.43	883.48	20.94	43.182	
4,100.00	4,063.44	4,020.49	4,010.42	10.21	11.93	-162.60	412.53	-177.33	923.72	902.29	21.43	43.101	
4,200.00	4,162.43	4,118.61	4,108.27	10.46	12.20	-162.58	419.75	-178.02	943.02	921.10	21.92	43.015	
4,300.00	4,261.43	4,216.73	4,206.13	10.71	12.48	-162.56	426.97	-178.72	962.32	939.90	22.42	42.923	
4,400.00	4,360.42	4,314.85	4,303.98	10.97	12.76	-162.55	434.19	-179.41	981.62	958.70	22.92	42.828	
4,500.00	4,459.41	4,412.97	4,401.83	11.23	13.03	-162.53	441.41	-180.11	1,000.92	977.50	23.42	42.729	
4,600.00	4,558.40	4,511.09	4,499.68	11.49	13.31	-162.51	448.63	-180.80	1,020.22	996.29	23.93	42.627	
4,700.00	4,657.40	4,609.21	4,597.53	11.75	13.59	-162.50	455.85	-181.50	1,039.52	1,015.08	24.45	42.524	
4,800.00	4,756.39	4,707.33	4,695.38	12.02	13.86	-162.49	463.07	-182.19	1,058.82	1,033.86	24.96	42.420	
4,900.00	4,855.38	4,805.45	4,793.23	12.29	14.14	-162.47	470.29	-182.89	1,078.12	1,052.64	25.48	42.314	
5,000.00	4,954.37	4,903.57	4,891.08	12.57	14.42	-162.46	477.51	-183.58	1,097.42	1,071.42	26.00	42.209	
5,100.00	5,053.37	5,001.69	4,988.93	12.85	14.70	-162.45	484.74	-184.28	1,116.72	1,090.20	26.52	42.103	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,152.36	5,100.19	5,086.79	13.12	14.98	-162.44	491.96	-184.97	1,136.02	1,108.97	27.05	41.995	
5,300.00	5,251.35	5,202.07	5,184.64	13.41	15.27	-162.42	499.18	-185.67	1,155.32	1,127.73	27.59	41.874	
5,400.00	5,350.34	5,303.95	5,282.49	13.69	15.56	-162.41	506.40	-186.36	1,174.62	1,146.49	28.13	41.754	
5,500.00	5,449.34	5,405.83	5,380.34	13.97	15.85	-162.40	513.62	-187.06	1,193.92	1,165.24	28.68	41.636	
7,100.00	7,005.01	7,933.71	7,360.69	17.63	27.65	105.00	657.83	630.20	1,178.48	1,135.31	43.17	27.296	
7,200.00	7,077.65	7,865.21	7,360.80	17.64	27.51	102.91	658.00	561.70	1,163.72	1,120.18	43.53	26.731	
7,300.00	7,138.73	7,786.18	7,360.93	17.64	27.05	100.72	658.19	482.67	1,154.73	1,111.01	43.71	26.417 SF	
7,400.00	7,186.74	7,667.80	7,356.50	17.69	25.14	97.84	658.14	364.47	1,149.29	1,106.82	42.48	27.058	
7,500.00	7,220.49	7,536.59	7,327.72	17.80	23.26	94.60	656.31	236.70	1,143.47	1,102.41	41.06	27.851	
7,600.00	7,239.17	7,423.61	7,282.46	18.02	22.02	91.79	653.21	133.40	1,137.63	1,097.33	40.30	28.228	
7,700.00	7,243.00	7,324.28	7,228.17	18.40	21.25	89.20	649.40	50.43	1,132.36	1,092.35	40.02	28.297	
7,800.00	7,242.97	7,242.53	7,174.27	18.96	20.86	86.46	645.57	-10.85	1,129.35	1,089.23	40.12	28.150	
7,825.63	7,242.96	7,224.41	7,161.29	19.14	20.81	85.80	644.64	-23.45	1,129.20	1,088.99	40.21	28.085	
7,900.00	7,242.95	7,177.46	7,126.04	19.67	20.69	84.01	642.11	-54.35	1,130.59	1,090.10	40.49	27.926	
8,000.00	7,242.92	7,125.46	7,084.48	20.51	20.57	81.90	639.11	-85.43	1,137.38	1,096.37	41.01	27.736	
8,100.00	7,242.89	7,083.46	7,049.15	21.45	20.48	80.12	636.56	-107.98	1,150.54	1,108.92	41.62	27.647	
8,200.00	7,242.87	7,050.00	7,019.99	22.48	20.41	78.65	634.45	-124.25	1,170.45	1,128.18	42.27	27.690	
8,300.00	7,242.84	7,020.66	6,993.75	23.59	20.34	77.34	632.54	-137.23	1,197.19	1,154.28	42.92	27.896	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-51.73	119.12	-151.01	192.33					
100.00	100.00	101.00	101.00	3.28	3.28	-51.73	119.12	-151.01	192.33	184.81	7.53	25.546		
200.00	200.00	201.00	201.00	3.31	3.31	-51.73	119.12	-151.01	192.33	184.76	7.57	25.393	CC, ES, SF	
300.00	299.98	296.39	296.37	3.35	3.35	-171.06	120.73	-151.18	195.25	187.59	7.66	25.495		
400.00	399.84	391.30	391.16	3.41	3.41	-170.29	125.47	-151.67	203.95	196.17	7.78	26.199		
500.00	499.45	489.47	489.07	3.50	3.50	-169.30	132.49	-152.41	217.65	209.69	7.96	27.344		
600.00	598.70	587.94	587.29	3.61	3.61	-168.57	139.58	-153.16	234.82	226.64	8.18	28.709		
700.00	697.70	686.08	685.17	3.76	3.73	-168.08	146.64	-153.90	253.92	245.49	8.43	30.112		
800.00	796.69	784.22	783.05	3.94	3.87	-167.66	153.70	-154.64	273.04	264.33	8.71	31.337		
900.00	895.68	882.36	880.93	4.14	4.03	-167.30	160.77	-155.38	292.18	283.15	9.03	32.373		
1,000.00	994.67	980.49	978.81	4.36	4.20	-166.99	167.83	-156.13	311.33	301.96	9.37	33.240		
1,100.00	1,093.67	1,078.63	1,076.69	4.60	4.38	-166.71	174.89	-156.87	330.48	320.75	9.73	33.959		
1,200.00	1,192.66	1,176.77	1,174.57	4.86	4.58	-166.46	181.96	-157.61	349.64	339.52	10.12	34.552		
1,300.00	1,291.65	1,274.90	1,272.45	5.12	4.78	-166.23	189.02	-158.35	368.81	358.28	10.53	35.037		
1,400.00	1,390.64	1,373.04	1,370.33	5.40	4.99	-166.03	196.08	-159.09	387.98	377.03	10.95	35.432		
1,500.00	1,489.64	1,471.17	1,468.20	5.68	5.21	-165.85	203.15	-159.84	407.15	395.76	11.39	35.750		
1,600.00	1,588.63	1,569.31	1,566.08	5.98	5.43	-165.68	210.21	-160.58	426.33	414.49	11.84	36.005		
1,700.00	1,687.62	1,667.45	1,663.96	6.28	5.66	-165.53	217.27	-161.32	445.51	433.21	12.30	36.208		
1,800.00	1,786.61	1,765.58	1,761.84	6.58	5.89	-165.39	224.33	-162.06	464.70	451.92	12.78	36.367		
1,900.00	1,885.61	1,863.72	1,859.72	6.75	6.06	-165.27	231.40	-162.81	483.89	471.20	12.69	38.130		
2,000.00	1,984.60	1,961.86	1,957.60	6.78	6.11	-165.15	238.46	-163.55	503.08	490.31	12.76	39.419		
2,100.00	2,083.59	2,059.99	2,055.48	6.83	6.14	-165.04	245.52	-164.29	522.27	509.45	12.82	40.747		
2,200.00	2,182.58	2,158.13	2,153.36	6.89	6.18	-164.94	252.59	-165.03	541.46	528.56	12.90	41.977		
2,300.00	2,281.58	2,256.27	2,251.24	6.97	6.23	-164.84	259.65	-165.78	560.65	547.65	13.01	43.106		
2,400.00	2,380.57	2,354.40	2,349.12	7.06	6.29	-164.75	266.71	-166.52	579.85	566.71	13.14	44.131		
2,500.00	2,479.56	2,452.54	2,447.00	7.17	6.36	-164.67	273.78	-167.26	599.05	585.75	13.30	45.054		
2,600.00	2,578.55	2,550.68	2,544.88	7.28	6.45	-164.59	280.84	-168.00	618.25	604.77	13.48	45.874		
2,700.00	2,677.55	2,648.81	2,642.75	7.42	6.54	-164.52	287.90	-168.74	637.45	623.77	13.68	46.596		
2,800.00	2,776.54	2,746.95	2,740.63	7.56	6.65	-164.45	294.96	-169.49	656.65	642.74	13.91	47.223		
2,900.00	2,875.53	2,845.09	2,838.51	7.71	6.76	-164.39	302.03	-170.23	675.85	661.70	14.15	47.761		
3,000.00	2,974.52	2,943.22	2,936.39	7.88	6.89	-164.32	309.09	-170.97	695.05	680.63	14.42	48.216		
3,100.00	3,073.52	3,041.36	3,034.27	8.05	7.02	-164.27	316.15	-171.71	714.25	699.55	14.70	48.593		
3,200.00	3,172.51	3,139.49	3,132.15	8.23	7.16	-164.21	323.22	-172.46	733.46	718.46	15.00	48.900		
3,300.00	3,271.50	3,237.63	3,230.03	8.43	7.31	-164.16	330.28	-173.20	752.66	737.34	15.32	49.144		
3,400.00	3,370.49	3,335.77	3,327.91	8.63	7.46	-164.11	337.34	-173.94	771.86	756.22	15.65	49.329		
3,500.00	3,469.49	3,433.90	3,425.79	8.83	7.63	-164.06	344.41	-174.68	791.07	775.08	15.99	49.462		
3,600.00	3,568.48	3,532.04	3,523.67	9.05	7.80	-164.02	351.47	-175.43	810.27	793.92	16.35	49.550		
3,700.00	3,667.47	3,630.18	3,621.55	9.27	7.97	-163.97	358.53	-176.17	829.48	812.76	16.72	49.597		
3,800.00	3,766.46	3,728.31	3,719.42	9.50	8.15	-163.93	365.59	-176.91	848.69	831.58	17.11	49.609		
3,900.00	3,865.46	3,826.45	3,817.30	9.73	8.34	-163.89	372.66	-177.65	867.89	850.39	17.50	49.589		
4,000.00	3,964.45	3,924.59	3,915.18	9.97	8.53	-163.86	379.72	-178.39	887.10	869.20	17.91	49.543		
4,100.00	4,063.44	4,022.72	4,013.06	10.21	8.72	-163.82	386.78	-179.14	906.31	887.99	18.32	49.473		
4,200.00	4,162.43	4,120.86	4,110.94	10.46	8.92	-163.79	393.85	-179.88	925.52	906.77	18.74	49.383		
4,300.00	4,261.43	4,219.00	4,208.82	10.71	9.13	-163.75	400.91	-180.62	944.72	925.55	19.17	49.276		
4,400.00	4,360.42	4,317.13	4,306.70	10.97	9.34	-163.72	407.97	-181.36	963.93	944.32	19.61	49.155		
4,500.00	4,459.41	4,415.27	4,404.58	11.23	9.55	-163.69	415.04	-182.11	983.14	963.09	20.06	49.021		
4,600.00	4,558.40	4,513.41	4,502.46	11.49	9.76	-163.66	422.10	-182.85	1,002.35	981.84	20.51	48.878		
4,700.00	4,657.40	4,611.54	4,600.34	11.75	9.98	-163.63	429.16	-183.59	1,021.56	1,000.59	20.97	48.726		
4,800.00	4,756.39	4,709.68	4,698.22	12.02	10.20	-163.61	436.23	-184.33	1,040.77	1,019.34	21.43	48.568		
4,900.00	4,855.38	4,807.81	4,796.10	12.29	10.42	-163.58	443.29	-185.08	1,059.98	1,038.08	21.90	48.404		
5,000.00	4,954.37	4,905.95	4,893.97	12.57	10.65	-163.56	450.35	-185.82	1,079.19	1,056.82	22.37	48.237		
5,100.00	5,053.37	5,004.09	4,991.85	12.85	10.88	-163.53	457.41	-186.56	1,098.40	1,075.55	22.85	48.066		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,152.36	5,102.22	5,089.73	13.12	11.11	-163.51	464.48	-187.30	1,117.61	1,094.27	23.34	47.893	
5,300.00	5,251.35	5,200.36	5,187.61	13.41	11.34	-163.49	471.54	-188.04	1,136.82	1,113.00	23.82	47.719	
5,400.00	5,350.34	5,301.50	5,285.49	13.69	11.58	-163.46	478.60	-188.79	1,156.03	1,131.71	24.32	47.530	
5,500.00	5,449.34	5,403.37	5,383.37	13.97	11.83	-163.44	485.67	-189.53	1,175.24	1,150.41	24.83	47.338	
5,600.00	5,548.33	5,505.23	5,481.25	14.26	12.07	-163.42	492.73	-190.27	1,194.45	1,169.12	25.34	47.146	
6,500.00	6,439.26	7,733.99	7,038.56	16.90	21.72	-123.15	603.34	753.46	1,190.94	1,155.38	35.56	33.487	
6,600.00	6,538.26	7,746.12	7,038.54	17.20	21.86	-125.14	603.32	765.59	1,150.68	1,114.04	36.64	31.406	
6,700.00	6,637.86	7,749.12	7,038.53	17.38	21.89	147.08	603.31	768.59	1,117.64	1,080.13	37.51	29.797	
6,800.00	6,736.73	7,736.46	7,038.55	17.50	21.75	111.63	603.34	755.93	1,092.91	1,054.84	38.08	28.702	
6,900.00	6,832.42	7,708.45	7,038.59	17.58	21.43	103.75	603.39	727.92	1,077.16	1,038.86	38.30	28.126	
7,000.00	6,922.59	7,665.79	7,038.65	17.62	20.97	99.16	603.48	685.26	1,069.99	1,031.80	38.19	28.019	
7,047.07	6,962.47	7,640.93	7,038.69	17.63	20.71	97.20	603.53	660.40	1,069.25	1,031.22	38.03	28.116	
7,100.00	7,005.01	7,609.52	7,038.73	17.63	20.38	95.01	603.59	629.00	1,070.10	1,032.32	37.78	28.325	
7,200.00	7,077.65	7,541.04	7,038.83	17.64	19.71	90.88	603.72	560.51	1,075.45	1,038.26	37.19	28.918	
7,300.00	7,138.73	7,462.02	7,038.94	17.64	18.97	86.97	603.87	481.49	1,083.72	1,047.20	36.51	29.682	
7,400.00	7,186.74	7,379.10	7,037.69	17.69	18.27	83.62	603.94	398.60	1,092.67	1,056.76	35.90	30.433	
7,500.00	7,220.49	7,301.48	7,028.04	17.80	17.66	80.80	603.38	321.64	1,101.32	1,065.84	35.48	31.041	
7,600.00	7,239.17	7,226.88	7,010.02	18.02	17.13	78.39	602.21	249.29	1,109.17	1,073.93	35.24	31.478	
7,700.00	7,243.00	7,154.86	6,984.73	18.40	16.67	76.53	600.51	181.92	1,115.91	1,080.75	35.16	31.739	
7,800.00	7,242.97	7,088.53	6,954.87	18.96	16.30	75.02	598.47	122.76	1,124.79	1,089.51	35.28	31.886	
7,900.00	7,242.95	7,029.25	6,923.12	19.67	16.02	73.42	596.27	72.78	1,137.60	1,102.04	35.55	31.997	
8,000.00	7,242.92	6,976.83	6,891.28	20.51	15.79	71.85	594.05	31.22	1,154.97	1,119.02	35.95	32.125	
8,100.00	7,242.89	6,930.74	6,860.55	21.45	15.61	70.34	591.90	-3.06	1,177.39	1,140.95	36.43	32.316	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-56.68	99.08	-150.73	180.38					
100.00	100.00	101.00	101.00	3.28	3.28	-56.68	99.08	-150.73	180.38	172.85	7.53	23.958		
200.00	200.00	201.00	201.00	3.31	3.31	-56.68	99.08	-150.73	180.38	172.80	7.57	23.815	CC, ES	
300.00	299.98	296.76	296.74	3.35	3.35	-175.93	100.70	-151.00	183.28	175.62	7.66	23.932		
400.00	399.84	405.20	394.68	3.41	3.42	-175.09	104.95	-151.71	191.52	183.73	7.80	24.568		
500.00	499.45	505.95	493.83	3.50	3.51	-174.34	109.47	-152.47	203.42	195.44	7.97	25.510		
600.00	598.70	592.84	592.51	3.61	3.61	-173.76	113.98	-153.22	218.78	210.60	8.18	26.745		
700.00	697.70	708.68	690.88	3.76	3.75	-173.34	118.47	-153.97	236.10	227.64	8.45	27.925		
800.00	796.69	789.79	789.25	3.94	3.87	-172.98	122.96	-154.72	253.44	244.73	8.71	29.097		
900.00	895.68	888.26	887.62	4.14	4.02	-172.67	127.45	-155.47	270.78	261.76	9.02	30.022		
1,000.00	994.67	986.74	985.99	4.36	4.18	-172.39	131.94	-156.23	288.14	278.78	9.36	30.795		
1,100.00	1,093.67	1,085.21	1,084.36	4.60	4.36	-172.15	136.43	-156.98	305.50	295.78	9.72	31.435		
1,200.00	1,192.66	1,183.68	1,182.73	4.86	4.55	-171.93	140.92	-157.73	322.86	312.76	10.10	31.961		
1,300.00	1,291.65	1,282.16	1,281.10	5.12	4.74	-171.74	145.41	-158.48	340.23	329.73	10.50	32.391		
1,400.00	1,390.64	1,380.63	1,379.46	5.40	4.94	-171.56	149.90	-159.23	357.60	346.68	10.92	32.739		
1,500.00	1,489.64	1,479.11	1,477.83	5.68	5.15	-171.40	154.39	-159.98	374.98	363.62	11.36	33.019		
1,600.00	1,588.63	1,577.58	1,576.20	5.98	5.37	-171.25	158.88	-160.73	392.36	380.55	11.80	33.242		
1,700.00	1,687.62	1,676.05	1,674.57	6.28	5.59	-171.12	163.37	-161.49	409.74	397.48	12.26	33.418		
1,800.00	1,786.61	1,774.53	1,772.94	6.58	5.82	-171.00	167.86	-162.24	427.12	414.39	12.73	33.555		
1,900.00	1,885.61	1,873.00	1,871.31	6.75	6.05	-170.88	172.35	-162.99	444.50	431.79	12.71	34.975		
2,000.00	1,984.60	1,971.47	1,969.67	6.78	6.28	-170.78	176.84	-163.74	461.89	448.93	12.96	35.646		
2,100.00	2,083.59	2,069.95	2,068.04	6.83	6.52	-170.68	181.34	-164.49	479.27	466.05	13.22	36.243		
2,200.00	2,182.58	2,168.42	2,166.41	6.89	6.76	-170.59	185.83	-165.24	496.66	483.15	13.51	36.769		
2,300.00	2,281.58	2,266.90	2,264.78	6.97	7.00	-170.51	190.32	-165.99	514.05	500.24	13.81	37.230		
2,400.00	2,380.57	2,365.37	2,363.15	7.06	7.24	-170.43	194.81	-166.75	531.44	517.32	14.12	37.629		
2,500.00	2,479.56	2,463.84	2,461.52	7.17	7.49	-170.35	199.30	-167.50	548.83	534.38	14.45	37.971		
2,600.00	2,578.55	2,562.32	2,559.89	7.28	7.74	-170.29	203.79	-168.25	566.22	551.43	14.80	38.260		
2,700.00	2,677.55	2,660.79	2,658.25	7.42	7.99	-170.22	208.28	-169.00	583.62	568.46	15.16	38.502		
2,800.00	2,776.54	2,759.26	2,756.62	7.56	8.24	-170.16	212.77	-169.75	601.01	585.48	15.53	38.700		
2,900.00	2,875.53	2,857.74	2,854.99	7.71	8.50	-170.10	217.26	-170.50	618.40	602.49	15.91	38.858		
3,000.00	2,974.52	2,956.21	2,953.36	7.88	8.75	-170.05	221.75	-171.25	635.80	619.49	16.31	38.982		
3,100.00	3,073.52	3,054.69	3,051.73	8.05	9.01	-169.99	226.24	-172.01	653.19	636.48	16.72	39.075		
3,200.00	3,172.51	3,153.16	3,150.10	8.23	9.27	-169.95	230.73	-172.76	670.59	653.46	17.13	39.141		
3,300.00	3,271.50	3,251.63	3,248.46	8.43	9.53	-169.90	235.22	-173.51	687.99	670.43	17.56	39.182		
3,400.00	3,370.49	3,350.11	3,346.83	8.63	9.79	-169.85	239.71	-174.26	705.38	687.39	17.99	39.202		
3,500.00	3,469.49	3,448.58	3,445.20	8.83	10.05	-169.81	244.20	-175.01	722.78	704.34	18.44	39.204		
3,600.00	3,568.48	3,547.05	3,543.57	9.05	10.31	-169.77	248.69	-175.76	740.18	721.29	18.89	39.190		
3,700.00	3,667.47	3,645.53	3,641.94	9.27	10.57	-169.73	253.18	-176.51	757.57	738.23	19.34	39.163		
3,800.00	3,766.46	3,744.00	3,740.31	9.50	10.83	-169.70	257.67	-177.27	774.97	755.16	19.81	39.123		
3,900.00	3,865.46	3,842.48	3,838.68	9.73	11.10	-169.66	262.16	-178.02	792.37	772.09	20.28	39.074		
4,000.00	3,964.45	3,940.95	3,937.04	9.97	11.36	-169.63	266.65	-178.77	809.77	789.01	20.75	39.016		
4,100.00	4,063.44	4,039.42	4,035.41	10.21	11.62	-169.60	271.14	-179.52	827.17	805.93	21.24	38.951		
4,200.00	4,162.43	4,137.90	4,133.78	10.46	11.89	-169.57	275.63	-180.27	844.56	822.84	21.72	38.880		
4,300.00	4,261.43	4,236.37	4,232.15	10.71	12.15	-169.54	280.13	-181.02	861.96	839.75	22.21	38.804		
4,400.00	4,360.42	4,334.84	4,330.52	10.97	12.42	-169.51	284.62	-181.77	879.36	856.65	22.71	38.724		
4,500.00	4,459.41	4,433.32	4,428.89	11.23	12.69	-169.48	289.11	-182.53	896.76	873.55	23.21	38.640		
4,600.00	4,558.40	4,531.79	4,527.25	11.49	12.95	-169.45	293.60	-183.28	914.16	890.45	23.71	38.555		
4,700.00	4,657.40	4,630.27	4,625.62	11.75	13.22	-169.43	298.09	-184.03	931.56	907.34	24.22	38.467		
4,800.00	4,756.39	4,728.74	4,723.99	12.02	13.49	-169.41	302.58	-184.78	948.96	924.24	24.73	38.378		
4,900.00	4,855.38	4,827.21	4,822.36	12.29	13.76	-169.38	307.07	-185.53	966.36	941.12	25.24	38.287		
5,000.00	4,954.37	4,925.69	4,920.73	12.57	14.02	-169.36	311.56	-186.28	983.76	958.01	25.76	38.196		
5,100.00	5,053.37	5,024.16	5,019.10	12.85	14.29	-169.34	316.05	-187.03	1,001.16	974.89	26.27	38.105		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,152.36	5,122.64	5,117.47	13.12	14.56	-169.32	320.54	-187.79	1,018.56	991.77	26.79	38.014	
5,300.00	5,251.35	5,221.11	5,215.83	13.41	14.83	-169.30	325.03	-188.54	1,035.96	1,008.65	27.32	37.923	
5,400.00	5,350.34	5,319.58	5,314.20	13.69	15.10	-169.28	329.52	-189.29	1,053.37	1,025.52	27.84	37.832	
5,500.00	5,449.34	5,418.06	5,412.57	13.97	15.37	-169.26	334.01	-190.04	1,070.77	1,042.40	28.37	37.742	
5,600.00	5,548.33	5,516.53	5,510.94	14.26	15.64	-169.24	338.50	-190.79	1,088.17	1,059.27	28.90	37.652	
5,700.00	5,647.32	5,615.00	5,609.31	14.55	15.91	-169.22	342.99	-191.54	1,105.57	1,076.14	29.43	37.564	
5,800.00	5,746.31	5,713.48	5,707.68	14.84	16.18	-169.20	347.48	-192.29	1,122.97	1,093.01	29.96	37.476	
5,900.00	5,845.31	5,811.95	5,806.04	15.13	16.45	-169.19	351.97	-193.04	1,140.37	1,109.87	30.50	37.389	
6,000.00	5,944.30	5,910.43	5,904.41	15.42	16.72	-169.17	356.46	-193.80	1,157.77	1,126.74	31.04	37.304	
6,100.00	6,043.29	6,008.90	6,002.78	15.72	16.99	-169.15	360.95	-194.55	1,175.17	1,143.60	31.57	37.220	
6,200.00	6,142.28	6,107.37	6,101.15	16.01	17.26	-169.14	365.44	-195.30	1,192.58	1,160.46	32.11	37.136	
6,300.00	6,241.27	6,206.36	6,200.14	16.30	17.53	-169.12	369.93	-196.05	1,209.99	1,177.87	32.64	37.052	
6,400.00	6,340.26	6,305.35	6,299.13	16.59	17.80	-169.10	374.42	-196.80	1,227.40	1,195.28	33.17	36.968	
6,500.00	6,439.26	7,930.90	7,243.45	16.90	27.39	-125.48	415.85	753.60	1,163.84	1,126.97	36.86	31.572	
6,600.00	6,538.26	7,942.99	7,243.43	17.20	27.43	-127.10	415.83	765.70	1,103.20	1,064.94	38.26	28.834	
6,700.00	6,637.86	7,945.96	7,243.43	17.38	27.44	147.93	415.82	768.66	1,048.17	1,008.54	39.62	26.452	
6,800.00	6,736.73	7,933.26	7,243.45	17.50	27.39	114.94	415.85	755.97	1,000.44	959.55	40.89	24.469	
6,900.00	6,832.42	7,905.23	7,243.50	17.58	27.29	109.12	415.90	727.94	961.75	919.79	41.96	22.922	
7,000.00	6,922.59	7,862.54	7,243.57	17.62	27.16	106.22	415.98	685.25	932.89	890.09	42.80	21.796	
7,100.00	7,005.01	7,806.25	7,243.67	17.63	27.00	103.41	416.09	628.95	913.55	870.18	43.37	21.064	
7,200.00	7,077.65	7,737.74	7,243.79	17.64	26.86	100.28	416.22	560.44	902.45	858.70	43.75	20.629	
7,300.00	7,138.73	7,658.70	7,243.93	17.64	26.28	97.03	416.37	481.41	897.58	853.94	43.64	20.567 SF	
7,400.00	7,186.74	7,563.13	7,241.91	17.69	24.92	93.70	416.45	385.89	896.46	853.84	42.62	21.034	
7,500.00	7,285.73	7,462.52	7,240.89	17.73	22.42	89.37	416.53	311.36	896.38	853.74	41.59	21.501	
7,600.00	7,384.72	7,362.51	7,239.87	17.73	20.22	85.04	416.60	236.85	896.38	854.31	42.07	21.308	
7,700.00	7,483.71	7,261.50	7,238.96	17.80	23.37	90.40	415.92	288.62	896.53	855.15	41.39	21.661	
7,800.00	7,582.70	7,160.49	7,238.01	18.02	22.17	87.42	414.81	201.69	897.46	856.91	40.55	22.134	
7,900.00	7,681.69	7,059.48	7,237.06	18.40	21.27	84.77	413.28	124.81	899.13	859.08	40.06	22.446	
8,000.00	7,780.68	6,958.47	7,236.11	18.96	20.65	82.18	411.53	61.54	903.60	863.67	39.93	22.631	
8,100.00	7,879.67	6,857.46	7,235.16	19.67	20.22	79.63	409.78	11.69	912.83	872.77	40.06	22.788	
8,200.00	7,978.66	6,756.45	7,234.21	20.51	19.94	77.26	408.11	-27.15	928.01	887.65	40.36	22.992	
8,300.00	8,077.65	6,655.44	7,233.26	21.45	19.74	75.22	406.65	-56.08	949.88	909.11	40.77	23.298	
8,400.00	8,176.64	6,554.43	7,232.31	22.48	19.59	73.25	405.21	-80.99	978.77	937.57	41.19	23.760	
8,500.00	8,275.63	6,453.42	7,231.36	23.59	19.48	71.60	403.98	-99.62	1,014.64	973.01	41.63	24.373	
8,600.00	8,374.62	6,352.41	7,230.41	24.76	19.42	70.32	403.01	-112.90	1,057.21	1,015.17	42.05	25.144	
8,700.00	8,473.61	6,251.40	7,229.46	25.98	19.36	68.91	401.93	-126.35	1,105.99	1,063.59	42.39	26.088	
8,800.00	8,572.60	6,150.39	7,228.51	27.25	19.32	67.78	401.04	-136.31	1,160.42	1,117.72	42.71	27.172	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	120.21	-0.84	120.22				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	120.21	-0.84	120.22	112.69	7.53	15.967	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	120.21	-0.84	120.22	112.64	7.57	15.872	CC, ES
300.00	299.98	298.64	298.62	3.35	3.35	-119.92	120.78	0.77	121.65	113.99	7.66	15.886	
400.00	399.84	397.15	396.99	3.41	3.41	-119.69	122.46	5.56	125.94	118.16	7.78	16.183	
500.00	499.45	495.43	494.90	3.50	3.50	-119.34	125.26	13.52	133.09	125.13	7.96	16.724	
600.00	598.70	606.30	592.47	3.61	3.64	-118.92	129.14	24.57	143.04	134.84	8.21	17.431	
700.00	697.70	706.94	690.99	3.76	3.78	-118.97	133.41	36.73	154.31	145.81	8.50	18.156	
800.00	796.69	807.58	789.52	3.94	3.95	-119.03	137.67	48.89	165.58	156.75	8.84	18.737	
900.00	895.68	891.78	888.04	4.14	4.11	-119.08	141.94	61.04	176.86	167.67	9.18	19.256	
1,000.00	994.67	1,008.85	986.56	4.36	4.36	-119.13	146.21	73.20	188.13	178.50	9.63	19.529	
1,100.00	1,093.67	1,109.49	1,085.09	4.60	4.59	-119.17	150.48	85.35	199.40	189.32	10.08	19.782	
1,200.00	1,192.66	1,189.87	1,183.61	4.86	4.78	-119.21	154.75	97.51	210.67	200.17	10.51	20.054	
1,300.00	1,291.65	1,289.23	1,282.14	5.12	5.02	-119.24	159.02	109.66	221.95	210.95	11.00	20.183	
1,400.00	1,390.64	1,388.60	1,380.66	5.40	5.28	-119.27	163.29	121.82	233.22	221.71	11.51	20.265	
1,500.00	1,489.64	1,487.96	1,479.18	5.68	5.54	-119.30	167.56	133.98	244.49	232.46	12.04	20.312	
1,600.00	1,588.63	1,587.32	1,577.71	5.98	5.81	-119.32	171.82	146.13	255.77	243.19	12.58	20.331	
1,700.00	1,687.62	1,686.68	1,676.23	6.28	6.09	-119.34	176.09	158.29	267.04	253.90	13.14	20.328	
1,800.00	1,786.61	1,786.05	1,774.75	6.58	6.37	-119.36	180.36	170.44	278.31	264.61	13.70	20.309	
1,900.00	1,885.61	1,885.41	1,873.28	6.75	6.66	-119.38	184.63	182.60	289.59	275.82	13.76	21.038	
2,000.00	1,984.60	1,984.77	1,971.80	6.78	6.95	-119.40	188.90	194.75	300.86	286.77	14.08	21.362	
2,100.00	2,083.59	2,084.13	2,070.33	6.83	7.25	-119.41	193.17	206.91	312.13	297.71	14.42	21.644	
2,200.00	2,182.58	2,183.50	2,168.85	6.89	7.55	-119.43	197.44	219.07	323.40	308.63	14.78	21.886	
2,300.00	2,281.58	2,282.86	2,267.37	6.97	7.85	-119.44	201.71	231.22	334.68	319.53	15.15	22.093	
2,400.00	2,380.57	2,382.22	2,365.90	7.06	8.15	-119.46	205.97	243.38	345.95	330.41	15.54	22.266	
2,500.00	2,479.56	2,481.58	2,464.42	7.17	8.46	-119.47	210.24	255.53	357.22	341.28	15.94	22.409	
2,600.00	2,578.55	2,580.95	2,562.94	7.28	8.77	-119.48	214.51	267.69	368.50	352.14	16.36	22.524	
2,700.00	2,677.55	2,680.31	2,661.47	7.42	9.08	-119.49	218.78	279.84	379.77	362.98	16.79	22.616	
2,800.00	2,776.54	2,779.67	2,759.99	7.56	9.39	-119.50	223.05	292.00	391.04	373.81	17.24	22.685	
2,900.00	2,875.53	2,879.03	2,858.52	7.71	9.70	-119.51	227.32	304.16	402.32	384.62	17.70	22.735	
3,000.00	2,974.52	2,978.40	2,957.04	7.88	10.02	-119.52	231.59	316.31	413.59	395.43	18.16	22.769	
3,100.00	3,073.52	3,077.76	3,055.56	8.05	10.34	-119.53	235.86	328.47	424.86	406.22	18.65	22.787	
3,200.00	3,172.51	3,177.12	3,154.09	8.23	10.65	-119.54	240.12	340.62	436.14	417.00	19.14	22.792	
3,300.00	3,271.50	3,276.48	3,252.61	8.43	10.97	-119.55	244.39	352.78	447.41	427.77	19.63	22.786	
3,400.00	3,370.49	3,375.85	3,351.13	8.63	11.29	-119.55	248.66	364.93	458.68	438.54	20.14	22.771	
3,500.00	3,469.49	3,475.21	3,449.66	8.83	11.61	-119.56	252.93	377.09	469.96	449.30	20.66	22.747	
3,600.00	3,568.48	3,574.57	3,548.18	9.05	11.93	-119.57	257.20	389.25	481.23	460.05	21.18	22.717	
3,700.00	3,667.47	3,673.93	3,646.71	9.27	12.25	-119.57	261.47	401.40	492.50	470.79	21.72	22.680	
3,800.00	3,766.46	3,773.30	3,745.23	9.50	12.58	-119.58	265.74	413.56	503.78	481.52	22.25	22.638	
3,900.00	3,865.46	3,872.66	3,843.75	9.73	12.90	-119.58	270.01	425.71	515.05	492.25	22.80	22.593	
4,000.00	3,964.45	3,972.02	3,942.28	9.97	13.22	-119.59	274.27	437.87	526.32	502.98	23.35	22.544	
4,100.00	4,063.44	4,071.38	4,040.80	10.21	13.55	-119.60	278.54	450.02	537.60	513.69	23.90	22.492	
4,200.00	4,162.43	4,170.75	4,139.32	10.46	13.87	-119.60	282.81	462.18	548.87	524.41	24.46	22.438	
4,300.00	4,261.43	4,270.11	4,237.85	10.71	14.20	-119.61	287.08	474.33	560.14	535.12	25.03	22.382	
4,400.00	4,360.42	4,369.47	4,336.37	10.97	14.52	-119.61	291.35	486.49	571.42	545.82	25.59	22.325	
4,500.00	4,459.41	4,468.84	4,434.89	11.23	14.85	-119.61	295.62	498.65	582.69	556.52	26.17	22.268	
4,600.00	4,558.40	4,568.20	4,533.42	11.49	15.17	-119.62	299.89	510.80	593.96	567.22	26.74	22.209	
4,700.00	4,657.40	4,667.56	4,631.94	11.75	15.50	-119.62	304.16	522.96	605.24	577.91	27.32	22.150	
4,800.00	4,756.39	4,766.92	4,730.47	12.02	15.83	-119.63	308.43	535.11	616.51	588.60	27.91	22.091	
4,900.00	4,855.38	4,866.29	4,828.99	12.29	16.16	-119.63	312.69	547.27	627.78	599.29	28.49	22.032	
5,000.00	4,954.37	4,965.65	4,927.51	12.57	16.48	-119.64	316.96	559.42	639.06	609.97	29.08	21.974	
5,100.00	5,053.37	5,065.01	5,026.04	12.85	16.81	-119.64	321.23	571.58	650.33	620.66	29.67	21.915	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,164.37	5,124.56	13.12	17.14	-119.64	325.50	583.74	661.60	631.33	30.27	21.857		
5,300.00	5,251.35	5,263.74	5,223.08	13.41	17.47	-119.65	329.77	595.89	672.88	642.01	30.87	21.800		
5,400.00	5,350.34	5,363.10	5,321.61	13.69	17.80	-119.65	334.04	608.05	684.15	652.69	31.46	21.743		
5,500.00	5,449.34	5,462.46	5,420.13	13.97	18.13	-119.65	338.31	620.20	695.42	663.36	32.07	21.687		
5,600.00	5,548.33	5,561.82	5,518.66	14.26	18.45	-119.66	342.58	632.36	706.70	674.03	32.67	21.632		
5,700.00	5,647.32	5,661.19	5,617.18	14.55	18.78	-119.66	346.84	644.51	717.97	684.70	33.27	21.578		
5,800.00	5,746.31	5,760.55	5,715.70	14.84	19.11	-119.66	351.11	656.67	729.24	695.36	33.88	21.524		
5,900.00	5,845.31	5,859.91	5,814.23	15.13	19.44	-119.66	355.38	668.83	740.52	706.03	34.49	21.472		
6,000.00	5,944.30	5,959.27	5,912.75	15.42	19.77	-119.67	359.65	680.98	751.79	716.69	35.10	21.420		
6,100.00	6,043.29	6,058.64	6,011.27	15.72	20.10	-119.67	363.92	693.14	763.06	727.35	35.71	21.369		
6,200.00	6,142.28	6,158.00	6,109.80	16.01	20.43	-119.67	368.19	705.29	774.34	738.02	36.32	21.319		
6,300.00	6,241.28	6,257.36	6,208.32	16.31	20.76	-119.67	372.46	717.45	785.61	748.67	36.94	21.270		
6,400.00	6,340.27	6,356.72	6,306.85	16.61	21.09	-119.68	376.73	729.60	796.88	759.33	37.55	21.221		
6,500.00	6,439.26	6,456.09	6,405.37	16.90	21.42	-119.68	380.99	741.76	808.16	769.99	38.17	21.174		
6,600.00	6,538.26	6,555.45	6,503.89	17.20	21.75	-122.71	385.26	753.92	819.43	780.65	38.78	21.129		
6,700.00	6,637.86	6,654.29	6,601.90	17.38	22.08	145.81	389.51	766.01	830.71	791.40	39.30	21.137		
6,800.00	6,736.73	6,752.21	6,699.19	17.50	22.37	109.21	393.73	775.86	842.22	802.50	39.72	21.202		
6,900.00	6,832.42	6,853.80	6,800.51	17.58	22.54	101.90	398.16	771.89	854.06	814.08	39.98	21.364		
7,000.00	6,922.59	6,959.80	6,904.13	17.62	22.68	99.30	402.74	750.63	865.89	825.73	40.16	21.563		
7,100.00	7,005.01	7,070.64	7,007.14	17.63	22.81	98.19	407.34	710.35	877.33	837.03	40.30	21.770		
7,200.00	7,077.65	7,186.59	7,105.71	17.64	22.98	97.72	411.79	649.77	887.94	847.46	40.48	21.934		
7,300.00	7,138.73	7,307.64	7,195.14	17.64	23.28	97.55	415.91	568.57	897.26	856.43	40.83	21.977		
7,400.00	7,186.74	7,433.39	7,270.06	17.69	23.88	97.52	419.43	467.88	904.84	863.29	41.55	21.780		
7,500.00	7,220.49	7,562.98	7,325.06	17.80	24.90	97.51	422.13	350.83	910.26	867.47	42.79	21.273		
7,600.00	7,239.17	7,695.03	7,355.61	18.02	26.41	97.48	423.79	222.61	913.22	868.58	44.64	20.456		
7,700.00	7,243.00	7,815.07	7,361.12	18.40	27.72	97.43	424.34	102.81	913.78	867.36	46.42	19.684		
7,800.00	7,242.97	7,915.07	7,361.43	18.96	27.78	97.45	424.61	2.81	913.90	866.80	47.10	19.402		
7,900.00	7,242.95	8,015.07	7,361.74	19.67	27.95	97.47	424.88	-97.19	914.02	866.01	48.01	19.040		
8,000.00	7,242.92	8,115.07	7,362.05	20.51	28.21	97.49	425.15	-197.19	914.14	865.03	49.11	18.612		
8,100.00	7,242.89	8,215.07	7,362.35	21.45	28.57	97.51	425.42	-297.19	914.26	863.85	50.41	18.136		
8,200.00	7,242.87	8,315.07	7,362.66	22.48	29.03	97.53	425.69	-397.19	914.38	862.50	51.89	17.623		
8,300.00	7,242.84	8,415.07	7,362.97	23.59	29.57	97.55	425.96	-497.19	914.51	860.99	53.52	17.088		
8,400.00	7,242.82	8,515.07	7,363.27	24.76	30.19	97.57	426.23	-597.18	914.63	859.33	55.29	16.541		
8,500.00	7,242.79	8,615.07	7,363.58	25.98	30.89	97.59	426.49	-697.18	914.75	857.54	57.20	15.991		
8,600.00	7,242.77	8,715.07	7,363.89	27.25	31.67	97.61	426.76	-797.18	914.87	855.64	59.23	15.446		
8,700.00	7,242.74	8,815.06	7,364.19	28.56	32.51	97.63	427.03	-897.18	914.99	853.62	61.37	14.910		
8,800.00	7,242.71	8,915.06	7,364.50	29.91	33.41	97.65	427.30	-997.18	915.11	851.51	63.60	14.388		
8,900.00	7,242.69	9,015.06	7,364.81	31.29	34.37	97.67	427.57	-1,097.18	915.23	849.31	65.92	13.883		
9,000.00	7,242.66	9,115.06	7,365.12	32.69	35.39	97.69	427.84	-1,197.18	915.36	847.03	68.33	13.397		
9,100.00	7,242.64	9,215.06	7,365.42	34.12	36.45	97.71	428.11	-1,297.18	915.48	844.68	70.80	12.931		
9,200.00	7,242.61	9,315.06	7,365.73	35.57	37.56	97.73	428.38	-1,397.17	915.60	842.26	73.34	12.485		
9,300.00	7,242.59	9,415.06	7,366.04	37.04	38.71	97.75	428.65	-1,497.17	915.72	839.79	75.93	12.060		
9,400.00	7,242.56	9,515.06	7,366.34	38.53	39.89	97.77	428.92	-1,597.17	915.85	837.26	78.58	11.655		
9,500.00	7,242.53	9,615.06	7,366.65	40.03	41.11	97.79	429.19	-1,697.17	915.97	834.69	81.28	11.269		
9,600.00	7,242.51	9,715.06	7,366.96	41.54	42.36	97.81	429.46	-1,797.17	916.09	832.07	84.02	10.903		
9,700.00	7,242.48	9,815.06	7,367.27	43.07	43.64	97.83	429.73	-1,897.17	916.21	829.41	86.80	10.555		
9,800.00	7,242.46	9,915.06	7,367.57	44.60	44.94	97.85	429.99	-1,997.17	916.34	826.72	89.62	10.225		
9,900.00	7,242.43	10,015.06	7,367.88	46.14	46.27	97.87	430.26	-2,097.16	916.46	823.99	92.46	9.911		
10,000.00	7,242.41	10,115.06	7,368.19	47.70	47.62	97.89	430.53	-2,197.16	916.58	821.24	95.34	9.614		
10,100.00	7,242.38	10,215.06	7,368.49	49.26	48.99	97.91	430.80	-2,297.16	916.70	818.46	98.25	9.330		
10,200.00	7,242.35	10,315.06	7,368.80	50.83	50.38	97.93	431.07	-2,397.16	916.83	815.65	101.18	9.061		
10,300.00	7,242.33	10,415.06	7,369.11	52.40	51.78	97.95	431.34	-2,497.16	916.95	812.82	104.13	8.806		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,515.05	7,369.41	53.98	53.20	97.97	431.61	-2,597.16	917.07	809.97	107.11	8.562		
10,500.00	7,242.28	10,615.05	7,369.72	55.57	54.64	97.99	431.88	-2,697.16	917.20	807.10	110.10	8.331		
10,600.00	7,242.25	10,715.05	7,370.03	57.16	56.08	98.01	432.15	-2,797.15	917.32	804.21	113.11	8.110		
10,700.00	7,242.23	10,815.05	7,370.34	58.75	57.54	98.03	432.42	-2,897.15	917.45	801.31	116.14	7.900		
10,800.00	7,242.20	10,915.05	7,370.64	60.35	59.01	98.05	432.69	-2,997.15	917.57	798.39	119.18	7.699		
10,900.00	7,242.17	11,015.05	7,370.95	61.95	60.49	98.07	432.96	-3,097.15	917.69	795.46	122.23	7.508		
11,000.00	7,242.15	11,115.05	7,371.26	63.56	61.98	98.09	433.23	-3,197.15	917.82	792.51	125.30	7.325		
11,100.00	7,242.12	11,215.05	7,371.56	65.17	63.48	98.11	433.49	-3,297.15	917.94	789.56	128.38	7.150		
11,200.00	7,242.10	11,315.05	7,371.87	66.78	64.99	98.13	433.76	-3,397.15	918.07	786.59	131.48	6.983		
11,300.00	7,242.07	11,415.05	7,372.18	68.40	66.51	98.15	434.03	-3,497.14	918.19	783.61	134.58	6.823		
11,400.00	7,242.05	11,515.05	7,372.49	70.01	68.03	98.17	434.30	-3,597.14	918.32	780.63	137.69	6.669		
11,500.00	7,242.02	11,615.05	7,372.79	71.63	69.56	98.19	434.57	-3,697.14	918.44	777.63	140.81	6.523		
11,600.00	7,241.99	11,715.05	7,373.10	73.26	71.10	98.21	434.84	-3,797.14	918.57	774.63	143.94	6.382		
11,700.00	7,241.97	11,815.05	7,373.41	74.88	72.64	98.23	435.11	-3,897.14	918.69	771.61	147.08	6.246		
11,800.00	7,241.94	11,915.05	7,373.71	76.51	74.19	98.25	435.38	-3,997.14	918.82	768.59	150.22	6.116		
11,900.00	7,241.92	12,015.05	7,374.02	78.14	75.74	98.27	435.65	-4,097.14	918.94	765.57	153.37	5.992		
12,000.00	7,241.89	12,115.05	7,374.33	79.77	77.30	98.29	435.92	-4,197.13	919.07	762.54	156.53	5.872		
12,100.00	7,241.87	12,215.04	7,374.63	81.40	78.87	98.30	436.19	-4,297.13	919.19	759.50	159.69	5.756		
12,200.00	7,241.84	12,315.04	7,374.94	83.03	80.43	98.32	436.46	-4,397.13	919.32	756.46	162.86	5.645		
12,300.00	7,241.82	12,415.04	7,375.25	84.67	82.00	98.34	436.73	-4,497.13	919.44	753.41	166.03	5.538		
12,400.00	7,241.79	12,515.04	7,375.56	86.31	83.58	98.36	436.99	-4,597.13	919.57	750.35	169.21	5.434		
12,500.00	7,241.76	12,615.04	7,375.86	87.94	85.16	98.38	437.26	-4,697.13	919.69	747.30	172.40	5.335		
12,600.00	7,241.74	12,715.04	7,376.17	89.58	86.74	98.40	437.53	-4,797.13	919.82	744.23	175.59	5.239		
12,700.00	7,241.71	12,815.04	7,376.48	91.22	88.33	98.42	437.80	-4,897.12	919.95	741.17	178.78	5.146		
12,800.00	7,241.69	12,915.04	7,376.78	92.87	89.92	98.44	438.07	-4,997.12	920.07	738.10	181.97	5.056		
12,900.00	7,241.66	13,015.04	7,377.09	94.51	91.51	98.46	438.34	-5,097.12	920.20	735.02	185.17	4.969		
13,000.00	7,241.64	13,115.04	7,377.40	96.15	93.10	98.48	438.61	-5,197.12	920.32	731.95	188.38	4.886		
13,100.00	7,241.61	13,215.04	7,377.71	97.80	94.70	98.50	438.88	-5,297.12	920.45	728.87	191.58	4.804		
13,200.00	7,241.58	13,315.04	7,378.01	99.44	96.30	98.52	439.15	-5,397.12	920.58	725.78	194.79	4.726		
13,300.00	7,241.56	13,415.04	7,378.32	101.09	97.90	98.54	439.42	-5,497.12	920.70	722.70	198.01	4.650		
13,400.00	7,241.53	13,515.04	7,378.63	102.73	99.51	98.56	439.69	-5,597.11	920.83	719.61	201.22	4.576		
13,500.00	7,241.51	13,615.04	7,378.93	104.38	101.12	98.58	439.96	-5,697.11	920.96	716.52	204.44	4.505		
13,600.00	7,241.48	13,715.04	7,379.24	106.03	102.72	98.60	440.23	-5,797.11	921.08	713.42	207.66	4.436		
13,700.00	7,241.46	13,815.04	7,379.55	107.68	104.33	98.62	440.49	-5,897.11	921.21	710.33	210.88	4.368		
13,800.00	7,241.43	13,915.04	7,379.85	109.33	105.95	98.64	440.76	-5,997.11	921.34	707.23	214.11	4.303		
13,900.00	7,241.40	14,015.03	7,380.16	110.98	107.56	98.66	441.03	-6,097.11	921.47	704.13	217.34	4.240		
14,000.00	7,241.38	14,115.03	7,380.47	112.63	109.18	98.68	441.30	-6,197.11	921.59	701.03	220.57	4.178		
14,100.00	7,241.35	14,215.03	7,380.78	114.29	110.80	98.70	441.57	-6,297.10	921.72	697.92	223.80	4.119		
14,200.00	7,241.33	14,315.03	7,381.08	115.94	112.42	98.72	441.84	-6,397.10	921.85	694.82	227.03	4.060		
14,300.00	7,241.30	14,415.03	7,381.39	117.59	114.04	98.74	442.11	-6,497.10	921.98	691.71	230.27	4.004		
14,400.00	7,241.28	14,515.03	7,381.70	119.24	115.66	98.76	442.38	-6,597.10	922.10	688.60	233.50	3.949		
14,500.00	7,241.25	14,615.03	7,382.00	120.90	117.28	98.78	442.65	-6,697.10	922.23	685.49	236.74	3.896		
14,600.00	7,241.22	14,715.03	7,382.31	122.55	118.91	98.80	442.92	-6,797.10	922.36	682.38	239.98	3.843		
14,700.00	7,241.20	14,815.03	7,382.62	124.21	120.54	98.82	443.19	-6,897.10	922.49	679.27	243.22	3.793		
14,800.00	7,241.17	14,915.03	7,382.93	125.86	122.16	98.84	443.46	-6,997.09	922.62	676.15	246.47	3.743		
14,900.00	7,241.15	15,015.03	7,383.23	127.52	123.79	98.86	443.73	-7,097.09	922.75	673.04	249.71	3.695		
15,000.00	7,241.12	15,115.03	7,383.54	129.18	125.42	98.88	443.99	-7,197.09	922.87	669.92	252.96	3.648		
15,100.00	7,241.10	15,215.03	7,383.85	130.83	127.05	98.90	444.26	-7,297.09	923.00	666.80	256.20	3.603		
15,200.00	7,241.07	15,315.03	7,384.15	132.49	128.69	98.92	444.53	-7,397.09	923.13	663.68	259.45	3.558		
15,300.00	7,241.04	15,415.03	7,384.46	134.15	130.32	98.94	444.80	-7,497.09	923.26	660.56	262.70	3.515		
15,400.00	7,241.02	15,515.03	7,384.77	135.81	131.95	98.96	445.07	-7,597.09	923.39	657.44	265.95	3.472		
15,471.99	7,241.00	15,587.02	7,384.99	137.00	133.13	98.97	445.27	-7,669.08	923.48	655.20	268.28	3.442 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	-0.48	100.18	-0.84	100.18				
100.00	100.00	100.00	100.00	3.28	3.28	-0.48	100.18	-0.84	100.18	92.66	7.53	13.307	
200.00	200.00	200.00	200.00	3.31	3.31	-0.48	100.18	-0.84	100.18	92.61	7.57	13.228	CC, ES
300.00	299.98	298.94	298.92	3.35	3.35	-119.98	100.71	0.79	101.58	93.92	7.66	13.265	
400.00	399.84	397.76	397.61	3.41	3.41	-119.69	102.29	5.65	105.76	97.98	7.78	13.589	
500.00	499.45	496.36	495.83	3.50	3.50	-119.25	104.91	13.73	112.72	104.77	7.96	14.164	
600.00	598.70	594.70	593.45	3.61	3.62	-118.72	108.57	24.98	122.45	114.26	8.19	14.950	
700.00	697.70	705.92	691.92	3.76	3.78	-118.53	112.71	37.74	133.61	125.11	8.50	15.719	
800.00	796.69	806.55	790.39	3.94	3.96	-118.39	116.86	50.50	144.76	135.92	8.84	16.375	
900.00	895.68	907.17	888.85	4.14	4.15	-118.27	121.01	63.26	155.92	146.70	9.22	16.905	
1,000.00	994.67	1,007.80	987.32	4.36	4.37	-118.17	125.15	76.02	167.08	157.43	9.64	17.325	
1,100.00	1,093.67	1,108.42	1,085.78	4.60	4.60	-118.08	129.30	88.78	178.24	168.14	10.10	17.655	
1,200.00	1,192.66	1,209.05	1,184.25	4.86	4.84	-118.00	133.45	101.54	189.39	178.82	10.57	17.911	
1,300.00	1,291.65	1,290.33	1,282.71	5.12	5.05	-117.92	137.59	114.30	200.55	189.53	11.03	18.187	
1,400.00	1,390.64	1,389.70	1,381.18	5.40	5.31	-117.86	141.74	127.07	211.71	200.17	11.54	18.338	
1,500.00	1,489.64	1,489.08	1,479.64	5.68	5.58	-117.80	145.89	139.83	222.87	210.79	12.08	18.450	
1,600.00	1,588.63	1,588.45	1,578.11	5.98	5.85	-117.75	150.03	152.59	234.03	221.40	12.63	18.531	
1,700.00	1,687.62	1,687.83	1,676.57	6.28	6.13	-117.70	154.18	165.35	245.19	232.00	13.19	18.586	
1,800.00	1,786.61	1,787.20	1,775.04	6.58	6.42	-117.66	158.32	178.11	256.35	242.59	13.77	18.622	
1,900.00	1,885.61	1,886.58	1,873.50	6.75	6.60	-117.62	162.47	190.87	267.51	253.80	13.71	19.507	
2,000.00	1,984.60	1,985.95	1,971.97	6.78	6.64	-117.58	166.62	203.63	278.67	264.88	13.79	20.209	
2,100.00	2,083.59	2,085.33	2,070.43	6.83	6.69	-117.55	170.76	216.39	289.83	275.96	13.88	20.889	
2,200.00	2,182.58	2,184.70	2,168.90	6.89	6.74	-117.52	174.91	229.16	300.99	287.00	13.99	21.515	
2,300.00	2,281.58	2,284.08	2,267.36	6.97	6.81	-117.49	179.06	241.92	312.16	298.02	14.13	22.088	
2,400.00	2,380.57	2,383.45	2,365.83	7.06	6.90	-117.46	183.20	254.68	323.32	309.01	14.30	22.606	
2,500.00	2,479.56	2,482.83	2,464.29	7.17	6.99	-117.44	187.35	267.44	334.48	319.98	14.50	23.070	
2,600.00	2,578.55	2,582.20	2,562.76	7.28	7.10	-117.41	191.50	280.20	345.64	330.92	14.72	23.482	
2,700.00	2,677.55	2,681.58	2,661.22	7.42	7.22	-117.39	195.64	292.96	356.80	341.83	14.96	23.843	
2,800.00	2,776.54	2,780.95	2,759.69	7.56	7.36	-117.37	199.79	305.72	367.96	352.73	15.23	24.157	
2,900.00	2,875.53	2,880.33	2,858.15	7.71	7.50	-117.35	203.93	318.49	379.12	363.60	15.52	24.425	
3,000.00	2,974.52	2,979.70	2,956.62	7.88	7.65	-117.33	208.08	331.25	390.28	374.45	15.83	24.652	
3,100.00	3,073.52	3,079.08	3,055.08	8.05	7.81	-117.32	212.23	344.01	401.44	385.28	16.16	24.841	
3,200.00	3,172.51	3,178.45	3,153.55	8.23	7.99	-117.30	216.37	356.77	412.60	396.10	16.51	24.996	
3,300.00	3,271.50	3,277.83	3,252.01	8.43	8.17	-117.28	220.52	369.53	423.77	406.89	16.87	25.119	
3,400.00	3,370.49	3,377.21	3,350.48	8.63	8.35	-117.27	224.67	382.29	434.93	417.68	17.25	25.213	
3,500.00	3,469.49	3,476.58	3,448.94	8.83	8.55	-117.25	228.81	395.05	446.09	428.44	17.64	25.283	
3,600.00	3,568.48	3,575.96	3,547.41	9.05	8.75	-117.24	232.96	407.81	457.25	439.20	18.05	25.330	
3,700.00	3,667.47	3,675.33	3,645.87	9.27	8.96	-117.23	237.11	420.58	468.41	449.94	18.47	25.358	
3,800.00	3,766.46	3,774.71	3,744.34	9.50	9.17	-117.22	241.25	433.34	479.57	460.67	18.90	25.369	
3,900.00	3,865.46	3,874.08	3,842.80	9.73	9.39	-117.21	245.40	446.10	490.73	471.39	19.35	25.365	
4,000.00	3,964.45	3,973.46	3,941.27	9.97	9.61	-117.19	249.55	458.86	501.89	482.09	19.80	25.347	
4,100.00	4,063.44	4,072.83	4,039.73	10.21	9.84	-117.18	253.69	471.62	513.06	492.79	20.26	25.319	
4,200.00	4,162.43	4,172.21	4,138.20	10.46	10.08	-117.17	257.84	484.38	524.22	503.48	20.74	25.281	
4,300.00	4,261.43	4,271.58	4,236.66	10.71	10.31	-117.16	261.98	497.14	535.38	514.16	21.22	25.235	
4,400.00	4,360.42	4,370.96	4,335.13	10.97	10.56	-117.15	266.13	509.90	546.54	524.84	21.70	25.181	
4,500.00	4,459.41	4,470.33	4,433.59	11.23	10.80	-117.15	270.28	522.67	557.70	535.50	22.20	25.122	
4,600.00	4,558.40	4,569.71	4,532.06	11.49	11.05	-117.14	274.42	535.43	568.86	546.16	22.70	25.058	
4,700.00	4,657.40	4,669.08	4,630.52	11.75	11.30	-117.13	278.57	548.19	580.02	556.82	23.21	24.991	
4,800.00	4,756.39	4,768.46	4,728.99	12.02	11.56	-117.12	282.72	560.95	591.19	567.46	23.72	24.919	
4,900.00	4,855.38	4,867.83	4,827.45	12.29	11.81	-117.11	286.86	573.71	602.35	578.10	24.24	24.846	
5,000.00	4,954.37	4,967.21	4,925.92	12.57	12.07	-117.11	291.01	586.47	613.51	588.74	24.77	24.770	
5,100.00	5,053.37	5,066.58	5,024.38	12.85	12.33	-117.10	295.16	599.23	624.67	599.37	25.30	24.693	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,165.96	5,122.85	13.12	12.60	-117.09	299.30	611.99	635.83	610.00	25.83	24.614		
5,300.00	5,251.35	5,265.33	5,221.31	13.41	12.87	-117.09	303.45	624.76	646.99	620.62	26.37	24.535		
5,400.00	5,350.34	5,364.71	5,319.78	13.69	13.13	-117.08	307.59	637.52	658.16	631.24	26.91	24.455		
5,500.00	5,449.34	5,464.08	5,418.24	13.97	13.41	-117.07	311.74	650.28	669.32	641.86	27.46	24.375		
5,600.00	5,548.33	5,563.46	5,516.71	14.26	13.68	-117.07	315.89	663.04	680.48	652.47	28.01	24.295		
5,700.00	5,647.32	5,662.83	5,615.17	14.55	13.95	-117.06	320.03	675.80	691.64	663.08	28.56	24.216		
5,800.00	5,746.31	5,762.21	5,713.64	14.84	14.23	-117.06	324.18	688.56	702.80	673.68	29.12	24.137		
5,900.00	5,845.31	5,861.58	5,812.10	15.13	14.50	-117.05	328.33	701.32	713.96	684.29	29.68	24.058		
6,000.00	5,944.30	5,960.96	5,910.57	15.42	14.78	-117.04	332.47	714.09	725.12	694.89	30.24	23.980		
6,100.00	6,043.29	6,060.33	6,009.03	15.72	15.06	-117.04	336.62	726.85	736.29	705.48	30.80	23.903		
6,200.00	6,142.28	6,159.71	6,107.50	16.01	15.34	-117.03	340.77	739.61	747.45	716.08	31.37	23.827		
6,300.00	6,241.28	6,259.08	6,205.96	16.31	15.63	-117.03	344.91	752.37	758.61	726.67	31.94	23.752		
6,400.00	6,340.27	6,358.46	6,304.43	16.61	15.91	-117.02	349.06	765.13	769.77	737.26	32.51	23.678		
6,500.00	6,439.26	6,461.08	6,406.68	16.90	16.12	-117.56	353.38	771.00	780.73	747.73	33.00	23.658		
6,600.00	6,538.26	6,559.29	6,504.22	17.20	16.25	-122.20	357.52	761.18	791.66	758.28	33.38	23.718		
6,700.00	6,637.86	6,652.24	6,594.11	17.38	16.33	143.78	361.37	738.17	803.46	769.88	33.59	23.922		
6,800.00	6,736.73	6,741.87	6,676.74	17.50	16.37	103.92	364.93	703.81	816.01	782.32	33.69	24.219		
6,900.00	6,832.42	6,828.76	6,751.47	17.58	16.39	93.44	368.17	659.75	828.81	795.08	33.73	24.574		
7,000.00	6,922.59	6,913.39	6,817.84	17.62	16.42	87.90	371.08	607.42	841.36	807.64	33.72	24.950		
7,100.00	7,005.01	6,996.19	6,875.51	17.63	16.46	84.15	373.62	548.15	853.20	819.47	33.72	25.301		
7,200.00	7,077.65	7,077.52	6,924.22	17.64	16.54	81.37	375.80	483.12	863.88	830.09	33.79	25.570		
7,300.00	7,138.73	7,157.70	6,963.75	17.64	16.68	79.27	377.60	413.44	873.02	839.06	33.96	25.706		
7,400.00	7,186.74	7,237.02	6,993.93	17.69	16.89	77.74	379.01	340.16	880.30	846.01	34.30	25.665		
7,500.00	7,220.49	7,315.72	7,014.67	17.80	17.17	76.70	380.02	264.30	885.49	850.67	34.82	25.427		
7,600.00	7,239.17	7,394.03	7,025.86	18.02	17.51	76.13	380.63	186.85	888.41	852.86	35.54	24.997		
7,700.00	7,243.00	7,480.15	7,028.16	18.40	17.97	76.02	380.88	100.78	889.00	852.54	36.46	24.380		
7,800.00	7,242.97	7,580.15	7,028.58	18.96	18.62	76.04	381.08	0.79	888.90	851.21	37.68	23.588		
7,900.00	7,242.95	7,680.15	7,029.00	19.67	19.39	76.07	381.27	-99.21	888.79	849.65	39.14	22.708		
8,000.00	7,242.92	7,780.15	7,029.42	20.51	20.26	76.10	381.47	-199.21	888.69	847.88	40.81	21.775		
8,100.00	7,242.89	7,880.15	7,029.85	21.45	21.23	76.13	381.67	-299.21	888.59	845.91	42.68	20.822		
8,200.00	7,242.87	7,980.15	7,030.27	22.48	22.29	76.16	381.86	-399.21	888.48	843.78	44.70	19.875		
8,300.00	7,242.84	8,080.15	7,030.69	23.59	23.41	76.18	382.06	-499.20	888.38	841.50	46.88	18.951		
8,400.00	7,242.82	8,180.15	7,031.11	24.76	24.60	76.21	382.25	-599.20	888.28	839.10	49.18	18.063		
8,500.00	7,242.79	8,280.14	7,031.54	25.98	25.84	76.24	382.45	-699.20	888.18	836.59	51.58	17.218		
8,600.00	7,242.77	8,380.14	7,031.96	27.25	27.13	76.27	382.64	-799.20	888.08	833.99	54.09	16.420		
8,700.00	7,242.74	8,480.14	7,032.38	28.56	28.45	76.30	382.84	-899.20	887.97	831.31	56.67	15.670		
8,800.00	7,242.71	8,580.14	7,032.80	29.91	29.81	76.32	383.04	-999.19	887.87	828.55	59.32	14.967		
8,900.00	7,242.69	8,680.14	7,033.23	31.29	31.21	76.35	383.23	-1,099.19	887.77	825.73	62.04	14.311		
9,000.00	7,242.66	8,780.14	7,033.65	32.69	32.62	76.38	383.43	-1,199.19	887.67	822.86	64.80	13.698		
9,100.00	7,242.64	8,880.14	7,034.07	34.12	34.06	76.41	383.62	-1,299.19	887.57	819.95	67.62	13.126		
9,200.00	7,242.61	8,980.14	7,034.49	35.57	35.53	76.44	383.82	-1,399.19	887.47	816.99	70.48	12.592		
9,300.00	7,242.59	9,080.14	7,034.92	37.04	37.00	76.47	384.01	-1,499.18	887.37	813.99	73.37	12.094		
9,400.00	7,242.56	9,180.14	7,035.34	38.53	38.50	76.49	384.21	-1,599.18	887.27	810.97	76.30	11.629		
9,500.00	7,242.53	9,280.13	7,035.76	40.03	40.01	76.52	384.41	-1,699.18	887.17	807.91	79.26	11.193		
9,600.00	7,242.51	9,380.13	7,036.18	41.54	41.53	76.55	384.60	-1,799.18	887.07	804.83	82.24	10.786		
9,700.00	7,242.48	9,480.13	7,036.61	43.07	43.06	76.58	384.80	-1,899.17	886.97	801.72	85.25	10.405		
9,800.00	7,242.46	9,580.13	7,037.03	44.60	44.60	76.61	384.99	-1,999.17	886.87	798.60	88.27	10.047		
9,900.00	7,242.43	9,680.13	7,037.45	46.14	46.15	76.63	385.19	-2,099.17	886.77	795.45	91.32	9.711		
10,000.00	7,242.41	9,780.13	7,037.87	47.70	47.71	76.66	385.38	-2,199.17	886.67	792.29	94.38	9.395		
10,100.00	7,242.38	9,880.13	7,038.30	49.26	49.28	76.69	385.58	-2,299.17	886.57	789.11	97.46	9.097		
10,200.00	7,242.35	9,980.13	7,038.72	50.83	50.85	76.72	385.78	-2,399.16	886.47	785.92	100.55	8.816		
10,300.00	7,242.33	10,080.13	7,039.14	52.40	52.43	76.75	385.97	-2,499.16	886.37	782.72	103.66	8.551		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,180.13	7,039.56	53.98	54.02	76.78	386.17	-2,599.16	886.28	779.50	106.77	8.300		
10,500.00	7,242.28	10,280.12	7,039.99	55.57	55.61	76.80	386.36	-2,699.16	886.18	776.28	109.90	8.063		
10,600.00	7,242.25	10,380.12	7,040.41	57.16	57.20	76.83	386.56	-2,799.16	886.08	773.04	113.04	7.839		
10,700.00	7,242.23	10,480.12	7,040.83	58.75	58.80	76.86	386.75	-2,899.15	885.98	769.80	116.19	7.625		
10,800.00	7,242.20	10,580.12	7,041.25	60.35	60.41	76.89	386.95	-2,999.15	885.89	766.54	119.34	7.423		
10,900.00	7,242.17	10,680.12	7,041.68	61.95	62.01	76.92	387.15	-3,099.15	885.79	763.28	122.51	7.231		
11,000.00	7,242.15	10,780.12	7,042.10	63.56	63.62	76.95	387.34	-3,199.15	885.69	760.01	125.68	7.047		
11,100.00	7,242.12	10,880.12	7,042.52	65.17	65.24	76.97	387.54	-3,299.15	885.60	756.74	128.86	6.873		
11,200.00	7,242.10	10,980.12	7,042.94	66.78	66.85	77.00	387.73	-3,399.14	885.50	753.46	132.04	6.706		
11,300.00	7,242.07	11,080.12	7,043.37	68.40	68.47	77.03	387.93	-3,499.14	885.40	750.17	135.23	6.547		
11,400.00	7,242.05	11,180.11	7,043.79	70.01	70.09	77.06	388.12	-3,599.14	885.31	746.88	138.43	6.396		
11,500.00	7,242.02	11,280.11	7,044.21	71.63	71.72	77.09	388.32	-3,699.14	885.21	743.58	141.63	6.250		
11,600.00	7,241.99	11,380.11	7,044.63	73.26	73.34	77.12	388.51	-3,799.14	885.12	740.28	144.83	6.111		
11,700.00	7,241.97	11,480.11	7,045.06	74.88	74.97	77.14	388.71	-3,899.13	885.02	736.98	148.04	5.978		
11,800.00	7,241.94	11,580.11	7,045.48	76.51	76.60	77.17	388.91	-3,999.13	884.92	733.67	151.26	5.850		
11,900.00	7,241.92	11,680.11	7,045.90	78.14	78.23	77.20	389.10	-4,099.13	884.83	730.35	154.48	5.728		
12,000.00	7,241.89	11,780.11	7,046.32	79.77	79.86	77.23	389.30	-4,199.13	884.74	727.03	157.70	5.610		
12,100.00	7,241.87	11,880.11	7,046.75	81.40	81.50	77.26	389.49	-4,299.12	884.64	723.71	160.93	5.497		
12,200.00	7,241.84	11,980.11	7,047.17	83.03	83.13	77.29	389.69	-4,399.12	884.55	720.39	164.16	5.388		
12,300.00	7,241.82	12,080.11	7,047.59	84.67	84.77	77.31	389.88	-4,499.12	884.45	717.06	167.39	5.284		
12,400.00	7,241.79	12,180.10	7,048.01	86.31	86.41	77.34	390.08	-4,599.12	884.36	713.73	170.63	5.183		
12,500.00	7,241.76	12,280.10	7,048.44	87.94	88.05	77.37	390.28	-4,699.12	884.27	710.40	173.87	5.086		
12,600.00	7,241.74	12,380.10	7,048.86	89.58	89.69	77.40	390.47	-4,799.11	884.17	707.06	177.11	4.992		
12,700.00	7,241.71	12,480.10	7,049.28	91.22	91.33	77.43	390.67	-4,899.11	884.08	703.72	180.35	4.902		
12,800.00	7,241.69	12,580.10	7,049.70	92.87	92.98	77.46	390.86	-4,999.11	883.99	700.38	183.60	4.815		
12,900.00	7,241.66	12,680.10	7,050.13	94.51	94.62	77.49	391.06	-5,099.11	883.89	697.04	186.85	4.730		
13,000.00	7,241.64	12,780.10	7,050.55	96.15	96.27	77.51	391.25	-5,199.11	883.80	693.70	190.11	4.649		
13,100.00	7,241.61	12,880.10	7,050.97	97.80	97.91	77.54	391.45	-5,299.10	883.71	690.35	193.36	4.570		
13,200.00	7,241.58	12,980.10	7,051.39	99.44	99.56	77.57	391.65	-5,399.10	883.62	687.00	196.62	4.494		
13,300.00	7,241.56	13,080.10	7,051.82	101.09	101.21	77.60	391.84	-5,499.10	883.52	683.65	199.88	4.420		
13,400.00	7,241.53	13,180.09	7,052.24	102.73	102.86	77.63	392.04	-5,599.10	883.43	680.30	203.14	4.349		
13,500.00	7,241.51	13,280.09	7,052.66	104.38	104.51	77.66	392.23	-5,699.10	883.34	676.94	206.40	4.280		
13,600.00	7,241.48	13,380.09	7,053.08	106.03	106.16	77.68	392.43	-5,799.09	883.25	673.58	209.67	4.213		
13,700.00	7,241.46	13,480.09	7,053.51	107.68	107.81	77.71	392.62	-5,899.09	883.16	670.23	212.93	4.148		
13,800.00	7,241.43	13,580.09	7,053.93	109.33	109.46	77.74	392.82	-5,999.09	883.07	666.87	216.20	4.084		
13,900.00	7,241.40	13,680.09	7,054.35	110.98	111.11	77.77	393.02	-6,099.09	882.98	663.51	219.47	4.023		
14,000.00	7,241.38	13,780.09	7,054.77	112.63	112.76	77.80	393.21	-6,199.09	882.89	660.14	222.74	3.964		
14,100.00	7,241.35	13,880.09	7,055.20	114.29	114.42	77.83	393.41	-6,299.08	882.80	656.78	226.02	3.906		
14,200.00	7,241.33	13,980.09	7,055.62	115.94	116.07	77.86	393.60	-6,399.08	882.71	653.42	229.29	3.850		
14,300.00	7,241.30	14,080.09	7,056.04	117.59	117.73	77.88	393.80	-6,499.08	882.62	650.05	232.57	3.795		
14,400.00	7,241.28	14,180.08	7,056.46	119.24	119.38	77.91	393.99	-6,599.08	882.53	646.68	235.85	3.742		
14,500.00	7,241.25	14,280.08	7,056.89	120.90	121.04	77.94	394.19	-6,699.07	882.44	643.31	239.13	3.690		
14,600.00	7,241.22	14,380.08	7,057.31	122.55	122.69	77.97	394.39	-6,799.07	882.35	639.94	242.41	3.640		
14,700.00	7,241.20	14,480.08	7,057.73	124.21	124.35	78.00	394.58	-6,899.07	882.26	636.57	245.69	3.591		
14,800.00	7,241.17	14,580.08	7,058.15	125.86	126.00	78.03	394.78	-6,999.07	882.17	633.20	248.97	3.543		
14,900.00	7,241.15	14,680.08	7,058.58	127.52	127.66	78.05	394.97	-7,099.07	882.09	629.83	252.26	3.497		
15,000.00	7,241.12	14,780.08	7,059.00	129.18	129.32	78.08	395.17	-7,199.06	882.00	626.45	255.54	3.451		
15,100.00	7,241.10	14,880.08	7,059.42	130.83	130.98	78.11	395.36	-7,299.06	881.91	623.08	258.83	3.407		
15,200.00	7,241.07	14,980.08	7,059.84	132.49	132.63	78.14	395.56	-7,399.06	881.82	619.70	262.12	3.364		
15,300.00	7,241.04	15,080.08	7,060.27	134.15	134.29	78.17	395.76	-7,499.06	881.73	616.33	265.41	3.322		
15,400.00	7,241.02	15,180.07	7,060.69	135.81	135.95	78.20	395.95	-7,599.06	881.65	612.95	268.70	3.281		
15,471.99	7,241.00	15,252.07	7,060.99	137.00	137.15	78.22	396.09	-7,671.05	881.58	610.52	271.06	3.252 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	-0.46	140.25	-1.11	140.26				
100.00	100.00	100.00	100.00	3.28	3.28	-0.46	140.25	-1.11	140.26	132.73	7.53	18.629	
200.00	200.00	200.00	200.00	3.31	3.31	-0.46	140.25	-1.11	140.26	132.68	7.57	18.519	CC, ES
300.00	299.98	297.69	297.67	3.35	3.35	-120.03	141.06	0.34	141.94	134.29	7.66	18.537	
400.00	399.84	395.22	395.07	3.41	3.41	-119.96	143.47	4.71	147.00	139.22	7.78	18.890	
500.00	499.45	492.43	491.92	3.50	3.50	-119.84	147.46	11.94	155.40	147.45	7.96	19.535	
600.00	598.70	589.15	587.95	3.61	3.62	-119.68	153.01	21.99	167.14	158.96	8.18	20.426	
700.00	697.70	687.43	685.22	3.76	3.76	-119.56	159.82	34.33	181.03	172.56	8.47	21.378	
800.00	796.69	786.45	783.20	3.94	3.93	-119.44	166.74	46.87	194.98	186.18	8.80	22.155	
900.00	895.68	885.47	881.17	4.14	4.12	-119.34	173.67	59.42	208.93	199.75	9.18	22.769	
1,000.00	994.67	984.49	979.15	4.36	4.33	-119.25	180.59	71.96	222.88	213.29	9.59	23.245	
1,100.00	1,093.67	1,083.51	1,077.13	4.60	4.56	-119.16	187.52	84.51	236.84	226.80	10.03	23.606	
1,200.00	1,192.66	1,182.53	1,175.11	4.86	4.80	-119.09	194.44	97.05	250.79	240.29	10.50	23.874	
1,300.00	1,291.65	1,281.56	1,273.09	5.12	5.06	-119.03	201.37	109.59	264.74	253.74	11.00	24.067	
1,400.00	1,390.64	1,380.58	1,371.07	5.40	5.32	-118.97	208.29	122.14	278.70	267.18	11.52	24.202	
1,500.00	1,489.64	1,479.60	1,469.05	5.68	5.60	-118.92	215.22	134.68	292.65	280.61	12.05	24.289	
1,600.00	1,588.63	1,578.62	1,567.03	5.98	5.88	-118.87	222.14	147.23	306.61	294.01	12.60	24.340	
1,700.00	1,687.62	1,677.64	1,665.01	6.28	6.16	-118.83	229.07	159.77	320.57	307.41	13.16	24.363	
1,800.00	1,786.61	1,776.66	1,762.99	6.58	6.46	-118.79	235.99	172.32	334.52	320.79	13.73	24.363	
1,900.00	1,885.61	1,875.68	1,860.96	6.75	6.65	-118.75	242.92	184.86	348.48	334.78	13.69	25.450	
2,000.00	1,984.60	1,974.70	1,958.94	6.78	6.71	-118.72	249.84	197.40	362.43	348.65	13.78	26.298	
2,100.00	2,083.59	2,073.72	2,056.92	6.83	6.76	-118.69	256.77	209.95	376.39	362.52	13.87	27.145	
2,200.00	2,182.58	2,172.75	2,154.90	6.89	6.82	-118.66	263.69	222.49	390.34	376.37	13.98	27.925	
2,300.00	2,281.58	2,271.77	2,252.88	6.97	6.89	-118.63	270.62	235.04	404.30	390.18	14.12	28.635	
2,400.00	2,380.57	2,370.79	2,350.86	7.06	6.97	-118.61	277.54	247.58	418.26	403.97	14.29	29.275	
2,500.00	2,479.56	2,469.81	2,448.84	7.17	7.07	-118.58	284.47	260.12	432.21	417.73	14.48	29.845	
2,600.00	2,578.55	2,568.83	2,546.82	7.28	7.18	-118.56	291.39	272.67	446.17	431.47	14.70	30.348	
2,700.00	2,677.55	2,667.85	2,644.80	7.42	7.30	-118.54	298.31	285.21	460.13	445.18	14.95	30.787	
2,800.00	2,776.54	2,766.87	2,742.78	7.56	7.43	-118.52	305.24	297.76	474.08	458.87	15.21	31.165	
2,900.00	2,875.53	2,865.89	2,840.75	7.71	7.58	-118.50	312.16	310.30	488.04	472.54	15.50	31.485	
3,000.00	2,974.52	2,964.92	2,938.73	7.88	7.73	-118.48	319.09	322.84	501.99	486.19	15.81	31.753	
3,100.00	3,073.52	3,063.94	3,036.71	8.05	7.90	-118.47	326.01	335.39	515.95	499.81	16.14	31.973	
3,200.00	3,172.51	3,162.96	3,134.69	8.23	8.07	-118.45	332.94	347.93	529.91	513.42	16.48	32.148	
3,300.00	3,271.50	3,261.98	3,232.67	8.43	8.25	-118.44	339.86	360.48	543.86	527.02	16.85	32.284	
3,400.00	3,370.49	3,361.00	3,330.65	8.63	8.44	-118.42	346.79	373.02	557.82	540.60	17.23	32.384	
3,500.00	3,469.49	3,460.02	3,428.63	8.83	8.63	-118.41	353.71	385.57	571.78	554.16	17.62	32.453	
3,600.00	3,568.48	3,559.04	3,526.61	9.05	8.84	-118.40	360.64	398.11	585.74	567.71	18.03	32.494	
3,700.00	3,667.47	3,658.06	3,624.59	9.27	9.05	-118.38	367.56	410.65	599.69	581.25	18.45	32.511	
3,800.00	3,766.46	3,757.08	3,722.57	9.50	9.26	-118.37	374.49	423.20	613.65	594.77	18.88	32.506	
3,900.00	3,865.46	3,856.11	3,820.54	9.73	9.48	-118.36	381.41	435.74	627.61	608.28	19.32	32.483	
4,000.00	3,964.45	3,955.13	3,918.52	9.97	9.71	-118.35	388.34	448.29	641.56	621.79	19.77	32.444	
4,100.00	4,063.44	4,054.15	4,016.50	10.21	9.94	-118.34	395.26	460.83	655.52	635.28	20.24	32.391	
4,200.00	4,162.43	4,153.17	4,114.48	10.46	10.17	-118.33	402.19	473.37	669.48	648.77	20.71	32.327	
4,300.00	4,261.43	4,252.19	4,212.46	10.71	10.41	-118.32	409.11	485.92	683.43	662.24	21.19	32.253	
4,400.00	4,360.42	4,351.21	4,310.44	10.97	10.66	-118.31	416.03	498.46	697.39	675.71	21.68	32.170	
4,500.00	4,459.41	4,450.23	4,408.42	11.23	10.90	-118.30	422.96	511.01	711.35	689.17	22.17	32.081	
4,600.00	4,558.40	4,549.25	4,506.40	11.49	11.15	-118.30	429.88	523.55	725.30	702.63	22.68	31.986	
4,700.00	4,657.40	4,648.28	4,604.38	11.75	11.41	-118.29	436.81	536.09	739.26	716.08	23.18	31.886	
4,800.00	4,756.39	4,747.30	4,702.36	12.02	11.66	-118.28	443.73	548.64	753.22	729.52	23.70	31.783	
4,900.00	4,855.38	4,846.32	4,800.33	12.29	11.92	-118.27	450.66	561.18	767.18	742.96	24.22	31.676	
5,000.00	4,954.37	4,945.34	4,898.31	12.57	12.19	-118.27	457.58	573.73	781.13	756.39	24.74	31.568	
5,100.00	5,053.37	5,044.36	4,996.29	12.85	12.45	-118.26	464.51	586.27	795.09	769.81	25.27	31.458	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,143.38	5,094.27	13.12	12.72	-118.25	471.43	598.82	809.05	783.24	25.81	31.347		
5,300.00	5,251.35	5,242.40	5,192.25	13.41	12.99	-118.25	478.36	611.36	823.00	796.66	26.35	31.236		
5,400.00	5,350.34	5,341.42	5,290.23	13.69	13.26	-118.24	485.28	623.90	836.96	810.07	26.89	31.124		
5,500.00	5,449.34	5,440.44	5,388.21	13.97	13.53	-118.23	492.21	636.45	850.92	823.48	27.44	31.013		
5,600.00	5,548.33	5,539.47	5,486.19	14.26	13.80	-118.23	499.13	648.99	864.87	836.89	27.99	30.902		
5,700.00	5,647.32	5,638.49	5,584.17	14.55	14.08	-118.22	506.06	661.54	878.83	850.29	28.54	30.792		
5,800.00	5,746.31	5,737.51	5,682.15	14.84	14.36	-118.22	512.98	674.08	892.79	863.69	29.10	30.682		
5,900.00	5,845.31	5,836.53	5,780.12	15.13	14.64	-118.21	519.91	686.62	906.75	877.09	29.66	30.574		
6,000.00	5,944.30	5,935.55	5,878.10	15.42	14.92	-118.21	526.83	699.17	920.70	890.48	30.22	30.466		
6,100.00	6,043.29	6,034.57	5,976.08	15.72	15.20	-118.20	533.76	711.71	934.66	903.87	30.79	30.361		
6,200.00	6,142.28	6,133.59	6,074.06	16.01	15.48	-118.20	540.68	724.26	948.62	917.26	31.35	30.256		
6,300.00	6,241.28	6,232.61	6,172.04	16.31	15.77	-118.19	547.60	736.80	962.57	930.65	31.92	30.153		
6,400.00	6,340.27	6,331.64	6,270.02	16.61	16.05	-118.19	554.53	749.34	976.53	944.04	32.50	30.051		
6,500.00	6,439.26	6,430.66	6,368.00	16.90	16.34	-118.18	561.45	761.89	990.49	957.42	33.07	29.951		
6,600.00	6,538.26	6,529.89	6,466.21	17.20	16.62	-121.24	568.40	774.31	1,004.45	970.81	33.64	29.861		
6,700.00	6,637.86	6,630.41	6,566.33	17.38	16.82	146.36	575.49	776.97	1,018.48	984.46	34.02	29.940		
6,800.00	6,736.73	6,730.86	6,665.57	17.50	16.96	107.98	582.55	763.83	1,032.41	998.13	34.27	30.121		
6,900.00	6,832.42	6,831.32	6,761.51	17.58	17.04	98.85	589.39	735.22	1,045.89	1,011.46	34.43	30.377		
7,000.00	6,922.59	6,931.82	6,851.81	17.62	17.08	94.50	595.87	691.83	1,058.58	1,024.07	34.51	30.674		
7,100.00	7,005.01	7,032.40	6,934.25	17.63	17.10	91.76	601.81	634.69	1,070.18	1,035.62	34.56	30.964		
7,200.00	7,077.65	7,133.07	6,906.75	17.64	17.13	89.83	607.06	565.19	1,080.41	1,045.76	34.64	31.187		
7,300.00	7,138.73	7,233.83	7,067.47	17.64	17.20	88.40	611.50	485.04	1,088.99	1,054.17	34.82	31.273		
7,400.00	7,186.74	7,334.62	7,114.85	17.69	17.37	87.36	615.01	396.26	1,095.74	1,060.57	35.16	31.160		
7,500.00	7,220.49	7,435.40	7,147.66	17.80	17.65	86.64	617.49	301.12	1,100.47	1,064.75	35.71	30.813		
7,600.00	7,239.17	7,536.08	7,165.10	18.02	18.06	86.22	618.90	202.08	1,103.07	1,066.59	36.48	30.235		
7,700.00	7,243.00	7,636.41	7,168.07	18.40	18.58	86.11	619.27	101.85	1,103.59	1,066.12	37.47	29.453		
7,800.00	7,242.97	7,736.41	7,168.25	18.96	19.22	86.12	619.45	1.85	1,103.56	1,064.86	38.70	28.516		
7,900.00	7,242.95	7,836.41	7,168.43	19.67	19.98	86.13	619.63	-98.15	1,103.54	1,063.36	40.17	27.469		
8,000.00	7,242.92	7,936.41	7,168.61	20.51	20.85	86.14	619.81	-198.15	1,103.51	1,061.65	41.87	26.358		
8,100.00	7,242.89	8,036.41	7,168.79	21.45	21.80	86.15	619.99	-298.15	1,103.49	1,059.74	43.75	25.221		
8,200.00	7,242.87	8,136.41	7,168.97	22.48	22.84	86.16	620.17	-398.15	1,103.46	1,057.66	45.81	24.090		
8,300.00	7,242.84	8,236.41	7,169.15	23.59	23.95	86.17	620.35	-498.15	1,103.44	1,055.43	48.01	22.985		
8,400.00	7,242.82	8,336.41	7,169.33	24.76	25.12	86.18	620.53	-598.15	1,103.41	1,053.08	50.33	21.922		
8,500.00	7,242.79	8,436.41	7,169.51	25.98	26.34	86.19	620.71	-698.15	1,103.39	1,050.62	52.77	20.909		
8,600.00	7,242.77	8,536.41	7,169.68	27.25	27.61	86.20	620.89	-798.15	1,103.36	1,048.06	55.31	19.950		
8,700.00	7,242.74	8,636.41	7,169.86	28.56	28.92	86.21	621.07	-898.15	1,103.34	1,045.42	57.92	19.049		
8,800.00	7,242.71	8,736.41	7,170.04	29.91	30.26	86.22	621.25	-998.15	1,103.31	1,042.70	60.61	18.203		
8,900.00	7,242.69	8,836.41	7,170.22	31.29	31.64	86.23	621.43	-1,098.15	1,103.29	1,039.93	63.36	17.413		
9,000.00	7,242.66	8,936.41	7,170.40	32.69	33.04	86.24	621.61	-1,198.14	1,103.26	1,037.10	66.17	16.674		
9,100.00	7,242.64	9,036.40	7,170.58	34.12	34.47	86.26	621.79	-1,298.14	1,103.24	1,034.22	69.02	15.984		
9,200.00	7,242.61	9,136.40	7,170.76	35.57	35.92	86.27	621.97	-1,398.14	1,103.22	1,031.30	71.92	15.340		
9,300.00	7,242.59	9,236.40	7,170.94	37.04	37.39	86.28	622.15	-1,498.14	1,103.19	1,028.34	74.85	14.738		
9,400.00	7,242.56	9,336.40	7,171.12	38.53	38.87	86.29	622.33	-1,598.14	1,103.17	1,025.35	77.82	14.176		
9,500.00	7,242.53	9,436.40	7,171.30	40.03	40.37	86.30	622.51	-1,698.14	1,103.14	1,022.33	80.81	13.650		
9,600.00	7,242.51	9,536.40	7,171.48	41.54	41.88	86.31	622.69	-1,798.14	1,103.12	1,019.28	83.84	13.158		
9,700.00	7,242.48	9,636.40	7,171.65	43.07	43.40	86.32	622.87	-1,898.14	1,103.09	1,016.21	86.88	12.696		
9,800.00	7,242.46	9,736.40	7,171.83	44.60	44.93	86.33	623.05	-1,998.14	1,103.07	1,013.12	89.95	12.263		
9,900.00	7,242.43	9,836.40	7,172.01	46.14	46.47	86.34	623.23	-2,098.14	1,103.04	1,010.01	93.04	11.856		
10,000.00	7,242.41	9,936.40	7,172.19	47.70	48.03	86.35	623.41	-2,198.14	1,103.02	1,006.88	96.14	11.473		
10,100.00	7,242.38	10,036.40	7,172.37	49.26	49.59	86.36	623.59	-2,298.14	1,103.00	1,003.74	99.26	11.112		
10,200.00	7,242.35	10,136.40	7,172.55	50.83	51.15	86.37	623.77	-2,398.14	1,102.97	1,000.58	102.39	10.772		
10,300.00	7,242.33	10,236.40	7,172.73	52.40	52.72	86.38	623.95	-2,498.14	1,102.95	997.41	105.54	10.451		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,336.40	7,172.91	53.98	54.30	86.39	624.13	-2,598.14	1,102.92	994.23	108.70	10.147		
10,500.00	7,242.28	10,436.40	7,173.09	55.57	55.89	86.40	624.31	-2,698.14	1,102.90	991.03	111.87	9.859		
10,600.00	7,242.25	10,536.40	7,173.27	57.16	57.48	86.41	624.49	-2,798.14	1,102.87	987.83	115.04	9.587		
10,700.00	7,242.23	10,636.40	7,173.45	58.75	59.07	86.42	624.67	-2,898.14	1,102.85	984.62	118.23	9.328		
10,800.00	7,242.20	10,736.40	7,173.63	60.35	60.67	86.43	624.85	-2,998.14	1,102.83	981.40	121.43	9.082		
10,900.00	7,242.17	10,836.40	7,173.80	61.95	62.27	86.45	625.03	-3,098.13	1,102.80	978.17	124.63	8.848		
11,000.00	7,242.15	10,936.40	7,173.98	63.56	63.87	86.46	625.21	-3,198.13	1,102.78	974.94	127.84	8.626		
11,100.00	7,242.12	11,036.40	7,174.16	65.17	65.48	86.47	625.39	-3,298.13	1,102.76	971.69	131.06	8.414		
11,200.00	7,242.10	11,136.40	7,174.34	66.78	67.09	86.48	625.57	-3,398.13	1,102.73	968.45	134.28	8.212		
11,300.00	7,242.07	11,236.40	7,174.52	68.40	68.71	86.49	625.75	-3,498.13	1,102.71	965.19	137.51	8.019		
11,400.00	7,242.05	11,336.40	7,174.70	70.01	70.33	86.50	625.93	-3,598.13	1,102.68	961.94	140.75	7.834		
11,500.00	7,242.02	11,436.40	7,174.88	71.63	71.94	86.51	626.11	-3,698.13	1,102.66	958.67	143.99	7.658		
11,600.00	7,241.99	11,536.40	7,175.06	73.26	73.57	86.52	626.28	-3,798.13	1,102.64	955.40	147.23	7.489		
11,700.00	7,241.97	11,636.40	7,175.24	74.88	75.19	86.53	626.46	-3,898.13	1,102.61	952.13	150.48	7.327		
11,800.00	7,241.94	11,736.40	7,175.42	76.51	76.82	86.54	626.64	-3,998.13	1,102.59	948.86	153.73	7.172		
11,900.00	7,241.92	11,836.40	7,175.60	78.14	78.45	86.55	626.82	-4,098.13	1,102.57	945.58	156.99	7.023		
12,000.00	7,241.89	11,936.40	7,175.77	79.77	80.08	86.56	627.00	-4,198.13	1,102.54	942.29	160.25	6.880		
12,100.00	7,241.87	12,036.40	7,175.95	81.40	81.71	86.57	627.18	-4,298.13	1,102.52	939.01	163.51	6.743		
12,200.00	7,241.84	12,136.40	7,176.13	83.03	83.34	86.58	627.36	-4,398.13	1,102.49	935.72	166.78	6.611		
12,300.00	7,241.82	12,236.40	7,176.31	84.67	84.97	86.59	627.54	-4,498.13	1,102.47	932.42	170.05	6.483		
12,400.00	7,241.79	12,336.40	7,176.49	86.31	86.61	86.60	627.72	-4,598.13	1,102.45	929.13	173.32	6.361		
12,500.00	7,241.76	12,436.40	7,176.67	87.94	88.25	86.61	627.90	-4,698.13	1,102.42	925.83	176.60	6.243		
12,600.00	7,241.74	12,536.40	7,176.85	89.58	89.89	86.63	628.08	-4,798.13	1,102.40	922.53	179.87	6.129		
12,700.00	7,241.71	12,636.40	7,177.03	91.22	91.53	86.64	628.26	-4,898.13	1,102.38	919.23	183.15	6.019		
12,800.00	7,241.69	12,736.40	7,177.21	92.87	93.17	86.65	628.44	-4,998.12	1,102.35	915.92	186.43	5.913		
12,900.00	7,241.66	12,836.40	7,177.39	94.51	94.81	86.66	628.62	-5,098.12	1,102.33	912.61	189.72	5.810		
13,000.00	7,241.64	12,936.40	7,177.57	96.15	96.45	86.67	628.80	-5,198.12	1,102.31	909.30	193.01	5.711		
13,100.00	7,241.61	13,036.40	7,177.75	97.80	98.10	86.68	628.98	-5,298.12	1,102.28	905.99	196.29	5.615		
13,200.00	7,241.58	13,136.40	7,177.92	99.44	99.74	86.69	629.16	-5,398.12	1,102.26	902.68	199.58	5.523		
13,300.00	7,241.56	13,236.40	7,178.10	101.09	101.39	86.70	629.34	-5,498.12	1,102.24	899.36	202.88	5.433		
13,400.00	7,241.53	13,336.40	7,178.28	102.73	103.04	86.71	629.52	-5,598.12	1,102.22	896.05	206.17	5.346		
13,500.00	7,241.51	13,436.40	7,178.46	104.38	104.68	86.72	629.70	-5,698.12	1,102.19	892.73	209.46	5.262		
13,600.00	7,241.48	13,536.40	7,178.64	106.03	106.33	86.73	629.88	-5,798.12	1,102.17	889.41	212.76	5.180		
13,700.00	7,241.46	13,636.40	7,178.82	107.68	107.98	86.74	630.06	-5,898.12	1,102.15	886.09	216.06	5.101		
13,800.00	7,241.43	13,736.40	7,179.00	109.33	109.63	86.75	630.24	-5,998.12	1,102.12	882.77	219.36	5.024		
13,900.00	7,241.40	13,836.39	7,179.18	110.98	111.28	86.76	630.42	-6,098.12	1,102.10	879.44	222.66	4.950		
14,000.00	7,241.38	13,936.39	7,179.36	112.63	112.93	86.77	630.60	-6,198.12	1,102.08	876.12	225.96	4.877		
14,100.00	7,241.35	14,036.39	7,179.54	114.29	114.58	86.78	630.78	-6,298.12	1,102.06	872.79	229.26	4.807		
14,200.00	7,241.33	14,136.39	7,179.72	115.94	116.24	86.80	630.96	-6,398.12	1,102.03	869.46	232.57	4.739		
14,300.00	7,241.30	14,236.39	7,179.89	117.59	117.89	86.81	631.14	-6,498.12	1,102.01	866.14	235.87	4.672		
14,400.00	7,241.28	14,336.39	7,180.07	119.24	119.54	86.82	631.32	-6,598.12	1,101.99	862.81	239.18	4.607		
14,500.00	7,241.25	14,436.39	7,180.25	120.90	121.20	86.83	631.50	-6,698.12	1,101.96	859.48	242.49	4.544		
14,600.00	7,241.22	14,536.39	7,180.43	122.55	122.85	86.84	631.68	-6,798.12	1,101.94	856.14	245.80	4.483		
14,700.00	7,241.20	14,636.39	7,180.61	124.21	124.50	86.85	631.86	-6,898.11	1,101.92	852.81	249.11	4.423		
14,800.00	7,241.17	14,736.39	7,180.79	125.86	126.16	86.86	632.04	-6,998.11	1,101.90	849.48	252.42	4.365		
14,900.00	7,241.15	14,836.39	7,180.97	127.52	127.82	86.87	632.22	-7,098.11	1,101.87	846.15	255.73	4.309		
15,000.00	7,241.12	14,936.39	7,181.15	129.18	129.47	86.88	632.40	-7,198.11	1,101.85	842.81	259.04	4.254		
15,100.00	7,241.10	15,036.39	7,181.33	130.83	131.13	86.89	632.58	-7,298.11	1,101.83	839.48	262.35	4.200		
15,200.00	7,241.07	15,136.39	7,181.51	132.49	132.78	86.90	632.76	-7,398.11	1,101.81	836.14	265.67	4.147		
15,300.00	7,241.04	15,236.39	7,181.69	134.15	134.44	86.91	632.94	-7,498.11	1,101.79	832.80	268.98	4.096		
15,400.00	7,241.02	15,336.39	7,181.87	135.81	136.10	86.92	633.12	-7,598.11	1,101.76	829.46	272.30	4.046		
15,471.99	7,241.00	15,408.38	7,181.99	137.00	137.29	86.93	633.25	-7,670.10	1,101.75	827.07	274.68	4.011 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:		3.28 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.00	0.00	0.00	0.00	3.28	3.28	180.00	-20.04	0.00	20.04								
100.00	100.00	100.00	100.00	3.28	3.28	180.00	-20.04	0.00	20.04	12.51	7.53	2.661					
200.00	200.00	200.00	200.00	3.31	3.31	180.00	-20.04	0.00	20.04	12.46	7.57	2.645	CC				
300.00	299.98	299.56	299.54	3.35	3.35	60.88	-21.13	1.34	20.28	12.62	7.65	2.649					
400.00	399.84	399.11	398.95	3.41	3.41	62.26	-24.42	5.35	21.00	13.23	7.77	2.703					
500.00	499.45	498.66	498.12	3.50	3.49	64.36	-29.89	12.04	22.23	14.30	7.93	2.803					
600.00	598.70	598.19	596.91	3.61	3.61	66.91	-37.54	21.38	24.00	15.85	8.16	2.943					
700.00	697.70	702.15	695.39	3.76	3.77	67.12	-47.23	33.22	26.77	18.33	8.45	3.170					
800.00	796.69	802.20	794.04	3.94	3.96	66.15	-57.39	45.64	29.93	21.14	8.79	3.406					
900.00	895.68	902.25	892.69	4.14	4.17	65.36	-67.56	58.06	33.09	23.92	9.17	3.607					
1,000.00	994.67	1,002.30	991.34	4.36	4.41	64.71	-77.72	70.48	36.26	26.66	9.60	3.778					
1,100.00	1,093.67	1,102.35	1,090.00	4.60	4.66	64.17	-87.89	82.90	39.43	29.38	10.05	3.922					
1,200.00	1,192.66	1,202.40	1,188.65	4.86	4.93	63.70	-98.05	95.32	42.60	32.07	10.54	4.044					
1,300.00	1,291.65	1,302.45	1,287.30	5.12	5.22	63.30	-108.22	107.74	45.78	34.74	11.04	4.146					
1,400.00	1,390.64	1,402.50	1,385.95	5.40	5.52	62.96	-118.38	120.15	48.96	37.39	11.57	4.232					
1,500.00	1,489.64	1,502.56	1,484.60	5.68	5.82	62.65	-128.55	132.57	52.14	40.02	12.11	4.304					
1,600.00	1,588.63	1,602.61	1,583.26	5.98	6.14	62.38	-138.71	144.99	55.32	42.65	12.67	4.365					
1,700.00	1,687.62	1,702.66	1,681.91	6.28	6.46	62.14	-148.88	157.41	58.50	45.26	13.24	4.417					
1,800.00	1,786.61	1,802.71	1,780.56	6.58	6.78	61.93	-159.04	169.83	61.68	47.86	13.82	4.462					
1,900.00	1,885.61	1,902.76	1,879.21	6.75	6.96	61.73	-169.21	182.25	64.87	51.12	13.75	4.718					
2,000.00	1,984.60	2,002.81	1,977.87	6.78	7.00	61.56	-179.37	194.67	68.05	54.25	13.80	4.930					
2,100.00	2,083.59	2,102.86	2,076.52	6.83	7.05	61.40	-189.54	207.09	71.24	57.35	13.89	5.129					
2,200.00	2,182.58	2,202.91	2,175.17	6.89	7.12	61.25	-199.70	219.51	74.42	60.42	14.00	5.315					
2,300.00	2,281.58	2,302.96	2,273.82	6.97	7.20	61.11	-209.87	231.93	77.61	63.46	14.15	5.486					
2,400.00	2,380.57	2,403.01	2,372.47	7.06	7.30	60.99	-220.03	244.35	80.80	66.48	14.32	5.642					
2,500.00	2,479.56	2,503.06	2,471.13	7.17	7.42	60.88	-230.20	256.77	83.98	69.46	14.52	5.785					
2,600.00	2,578.55	2,603.12	2,569.78	7.28	7.55	60.77	-240.36	269.19	87.17	72.43	14.74	5.912					
2,700.00	2,677.55	2,703.17	2,668.43	7.42	7.69	60.67	-250.53	281.61	90.36	75.36	14.99	6.026					
2,800.00	2,776.54	2,803.22	2,767.08	7.56	7.84	60.58	-260.69	294.02	93.55	78.28	15.27	6.127					
2,900.00	2,875.53	2,903.27	2,865.73	7.71	8.01	60.49	-270.86	306.44	96.73	81.17	15.56	6.216					
3,000.00	2,974.52	3,003.32	2,964.39	7.88	8.18	60.41	-281.02	318.86	99.92	84.04	15.88	6.293					
3,100.00	3,073.52	3,103.37	3,063.04	8.05	8.37	60.34	-291.19	331.28	103.11	86.90	16.22	6.359					
3,200.00	3,172.51	3,203.42	3,161.69	8.23	8.56	60.27	-301.35	343.70	106.30	89.73	16.57	6.415					
3,300.00	3,271.50	3,303.47	3,260.34	8.43	8.77	60.20	-311.52	356.12	109.49	92.55	16.94	6.463					
3,400.00	3,370.49	3,403.52	3,359.00	8.63	8.98	60.14	-321.68	368.54	112.68	95.35	17.33	6.502					
3,500.00	3,469.49	3,503.57	3,457.65	8.83	9.20	60.08	-331.85	380.96	115.87	98.14	17.73	6.535					
3,600.00	3,568.48	3,596.38	3,556.30	9.05	9.41	60.02	-342.01	393.38	119.06	100.92	18.13	6.566					
3,700.00	3,667.47	3,703.68	3,654.95	9.27	9.66	59.97	-352.18	405.80	122.24	103.67	18.58	6.581					
3,800.00	3,766.46	3,796.27	3,753.60	9.50	9.88	59.91	-362.34	418.22	125.43	106.43	19.00	6.602					
3,900.00	3,865.46	3,903.78	3,852.26	9.73	10.15	59.87	-372.51	430.64	128.62	109.15	19.47	6.607					
4,000.00	3,964.45	4,003.83	3,950.91	9.97	10.40	59.82	-382.67	443.06	131.81	111.88	19.93	6.613					
4,100.00	4,063.44	4,096.12	4,049.56	10.21	10.64	59.78	-392.84	455.47	135.00	114.62	20.38	6.623					
4,200.00	4,162.43	4,196.07	4,148.21	10.46	10.90	59.74	-403.00	467.89	138.19	117.33	20.86	6.623					
4,300.00	4,261.43	4,303.98	4,246.87	10.71	11.18	59.70	-413.17	480.31	141.38	120.01	21.37	6.615					
4,400.00	4,360.42	4,404.03	4,345.52	10.97	11.45	59.66	-423.33	492.73	144.57	122.70	21.87	6.610					
4,500.00	4,459.41	4,504.08	4,444.17	11.23	11.72	59.62	-433.50	505.15	147.76	125.39	22.37	6.604					
4,600.00	4,558.40	4,595.87	4,542.82	11.49	11.98	59.59	-443.66	517.57	150.95	128.09	22.86	6.602					
4,700.00	4,657.40	4,695.81	4,641.47	11.75	12.26	59.55	-453.83	529.99	154.14	130.76	23.38	6.593					
4,800.00	4,756.39	4,804.24	4,740.13	12.02	12.56	59.52	-463.99	542.41	157.33	133.41	23.93	6.576					
4,900.00	4,855.38	4,904.29	4,838.78	12.29	12.85	59.49	-474.16	554.83	160.52	136.07	24.45	6.564					
5,000.00	4,954.37	5,004.34	4,937.43	12.57	13.14	59.46	-484.32	567.25	163.71	138.72	24.99	6.552					
5,100.00	5,053.37	5,104.39	5,036.08	12.85	13.43	59.43	-494.49	579.67	166.90	141.38	25.53	6.538					

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,204.44	5,134.73	13.12	13.72	59.40	-504.65	592.09	170.09	144.02	26.07	6.525		
5,300.00	5,251.35	5,304.49	5,233.39	13.41	14.01	59.38	-514.82	604.51	173.28	146.67	26.62	6.510		
5,400.00	5,350.34	5,404.54	5,332.04	13.69	14.31	59.35	-524.98	616.92	176.47	149.30	27.17	6.496		
5,500.00	5,449.34	5,504.59	5,430.69	13.97	14.61	59.33	-535.15	629.34	179.66	151.94	27.72	6.481		
5,600.00	5,548.33	5,604.64	5,529.34	14.26	14.91	59.30	-545.31	641.76	182.85	154.57	28.28	6.466		
5,700.00	5,647.32	5,704.69	5,628.00	14.55	15.21	59.28	-555.48	654.18	186.04	157.20	28.84	6.450		
5,800.00	5,746.31	5,804.75	5,726.65	14.84	15.52	59.26	-565.64	666.60	189.23	159.83	29.41	6.435		
5,900.00	5,845.31	5,904.80	5,825.30	15.13	15.82	59.24	-575.81	679.02	192.42	162.45	29.97	6.420		
6,000.00	5,944.30	6,004.85	5,923.95	15.42	16.13	59.22	-585.97	691.44	195.62	165.07	30.54	6.404		
6,100.00	6,043.29	6,104.90	6,022.60	15.72	16.44	59.20	-596.14	703.86	198.81	167.69	31.12	6.389		
6,200.00	6,142.28	6,204.95	6,121.26	16.01	16.75	59.18	-606.30	716.28	202.00	170.30	31.69	6.374		
6,300.00	6,241.28	6,305.00	6,219.91	16.31	17.06	59.16	-616.47	728.70	205.19	172.92	32.27	6.358		
6,400.00	6,340.27	6,405.05	6,318.56	16.61	17.37	59.14	-626.63	741.12	208.38	175.53	32.85	6.343		
6,500.00	6,439.26	6,494.90	6,417.21	16.90	17.65	59.12	-636.80	753.54	211.57	178.17	33.40	6.334		
6,600.00	6,538.26	6,595.03	6,516.32	17.20	17.90	56.95	-647.00	763.06	214.73	180.74	33.99	6.318		
6,700.00	6,637.86	6,694.18	6,614.73	17.38	18.06	-31.74	-657.08	758.19	218.03	183.58	34.46	6.327		
6,800.00	6,736.73	6,792.13	6,710.06	17.50	18.17	-66.54	-666.79	738.37	221.57	186.79	34.78	6.371		
6,900.00	6,832.42	6,888.97	6,800.25	17.58	18.24	-72.33	-675.93	704.56	225.19	190.23	34.96	6.442		
7,000.00	6,922.59	6,984.82	6,883.48	17.62	18.27	-73.63	-684.31	657.95	228.76	193.74	35.03	6.531		
7,100.00	7,005.01	7,079.80	6,958.18	17.63	18.27	-73.65	-691.77	599.91	232.14	197.11	35.03	6.627		
7,200.00	7,077.65	7,174.03	7,022.99	17.64	18.26	-73.25	-698.18	531.93	235.17	200.13	35.04	6.711		
7,300.00	7,138.73	7,267.65	7,076.81	17.64	18.24	-72.77	-703.44	455.62	237.75	202.61	35.14	6.766		
7,400.00	7,186.74	7,360.79	7,118.75	17.69	18.23	-72.34	-707.45	372.64	239.75	204.36	35.40	6.773		
7,500.00	7,220.49	7,453.60	7,148.12	17.80	18.25	-72.04	-710.16	284.73	241.10	205.23	35.87	6.722		
7,600.00	7,239.17	7,546.21	7,164.46	18.02	18.34	-71.91	-711.52	193.67	241.75	205.16	36.59	6.607		
7,700.00	7,243.00	7,640.88	7,168.04	18.40	18.60	-71.93	-711.56	99.12	241.71	204.15	37.56	6.435		
7,800.00	7,242.97	7,740.88	7,168.21	18.96	19.11	-71.97	-711.23	-0.88	241.52	202.70	38.81	6.223		
7,900.00	7,242.95	7,840.88	7,168.38	19.67	19.81	-72.00	-710.90	-100.88	241.32	201.05	40.28	5.991		
8,000.00	7,242.92	7,940.88	7,168.54	20.51	20.64	-72.03	-710.57	-200.88	241.13	199.19	41.95	5.749		
8,100.00	7,242.89	8,040.88	7,168.71	21.45	21.59	-72.07	-710.24	-300.88	240.94	197.15	43.79	5.502		
8,200.00	7,242.87	8,140.88	7,168.88	22.48	22.62	-72.10	-709.90	-400.88	240.75	194.96	45.79	5.258		
8,300.00	7,242.84	8,240.88	7,169.04	23.59	23.72	-72.13	-709.57	-500.88	240.55	192.63	47.92	5.020		
8,400.00	7,242.82	8,340.88	7,169.21	24.76	24.89	-72.17	-709.24	-600.88	240.36	190.19	50.17	4.791		
8,500.00	7,242.79	8,440.88	7,169.38	25.98	26.11	-72.20	-708.91	-700.87	240.17	187.64	52.53	4.572		
8,600.00	7,242.77	8,540.88	7,169.54	27.25	27.38	-72.23	-708.58	-800.87	239.98	185.00	54.98	4.365		
8,700.00	7,242.74	8,640.88	7,169.71	28.56	28.69	-72.27	-708.25	-900.87	239.79	182.29	57.50	4.170		
8,800.00	7,242.71	8,740.88	7,169.88	29.91	30.03	-72.30	-707.92	-1,000.87	239.60	179.50	60.09	3.987		
8,900.00	7,242.69	8,840.88	7,170.04	31.29	31.40	-72.34	-707.59	-1,100.87	239.40	176.66	62.75	3.816		
9,000.00	7,242.66	8,940.88	7,170.21	32.69	32.81	-72.37	-707.26	-1,200.87	239.21	173.76	65.45	3.655		
9,100.00	7,242.64	9,040.88	7,170.38	34.12	34.23	-72.40	-706.93	-1,300.87	239.02	170.82	68.20	3.505		
9,200.00	7,242.61	9,140.88	7,170.54	35.57	35.68	-72.44	-706.60	-1,400.87	238.83	167.83	71.00	3.364		
9,300.00	7,242.59	9,240.88	7,170.71	37.04	37.14	-72.47	-706.27	-1,500.87	238.64	164.81	73.83	3.232		
9,400.00	7,242.56	9,340.88	7,170.88	38.53	38.62	-72.51	-705.94	-1,600.87	238.45	161.76	76.69	3.109		
9,500.00	7,242.53	9,440.88	7,171.05	40.03	40.12	-72.54	-705.61	-1,700.86	238.26	158.68	79.58	2.994		
9,600.00	7,242.51	9,540.88	7,171.21	41.54	41.63	-72.57	-705.27	-1,800.86	238.07	155.57	82.50	2.886		
9,700.00	7,242.48	9,640.88	7,171.38	43.07	43.15	-72.61	-704.94	-1,900.86	237.88	152.43	85.44	2.784		
9,800.00	7,242.46	9,740.88	7,171.55	44.60	44.68	-72.64	-704.61	-2,000.86	237.68	149.28	88.40	2.689		
9,900.00	7,242.43	9,840.88	7,171.71	46.14	46.22	-72.68	-704.28	-2,100.86	237.49	146.11	91.39	2.599		
10,000.00	7,242.41	9,940.88	7,171.88	47.70	47.78	-72.71	-703.95	-2,200.86	237.30	142.92	94.39	2.514		
10,100.00	7,242.38	10,040.88	7,172.05	49.26	49.33	-72.74	-703.62	-2,300.86	237.11	139.71	97.40	2.434		
10,200.00	7,242.35	10,140.88	7,172.21	50.83	50.90	-72.78	-703.29	-2,400.86	236.92	136.49	100.44	2.359		
10,300.00	7,242.33	10,240.87	7,172.38	52.40	52.47	-72.81	-702.96	-2,500.86	236.73	133.25	103.48	2.288		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,242.30	10,340.87	7,172.55	53.98	54.05	-72.85	-702.63	-2,600.86	236.54	130.01	106.54	2.220	
10,500.00	7,242.28	10,440.87	7,172.71	55.57	55.63	-72.88	-702.30	-2,700.86	236.35	126.75	109.60	2.156	
10,600.00	7,242.25	10,540.87	7,172.88	57.16	57.22	-72.92	-701.97	-2,800.85	236.16	123.48	112.68	2.096	
10,700.00	7,242.23	10,640.87	7,173.05	58.75	58.81	-72.95	-701.64	-2,900.85	235.97	120.20	115.77	2.038	
10,800.00	7,242.20	10,740.87	7,173.21	60.35	60.41	-72.99	-701.31	-3,000.85	235.78	116.91	118.87	1.984	
10,900.00	7,242.17	10,840.87	7,173.38	61.95	62.01	-73.02	-700.98	-3,100.85	235.59	113.62	121.98	1.931	
11,000.00	7,242.15	10,940.87	7,173.55	63.56	63.61	-73.06	-700.64	-3,200.85	235.40	110.31	125.09	1.882	
11,100.00	7,242.12	11,040.87	7,173.71	65.17	65.22	-73.09	-700.31	-3,300.85	235.21	107.00	128.21	1.835	
11,200.00	7,242.10	11,140.87	7,173.88	66.78	66.83	-73.13	-699.98	-3,400.85	235.02	103.68	131.34	1.789	
11,300.00	7,242.07	11,240.87	7,174.05	68.40	68.45	-73.16	-699.65	-3,500.85	234.83	100.36	134.47	1.746	
11,400.00	7,242.05	11,340.87	7,174.21	70.01	70.06	-73.20	-699.32	-3,600.85	234.64	97.03	137.62	1.705	
11,500.00	7,242.02	11,440.87	7,174.38	71.63	71.68	-73.23	-698.99	-3,700.85	234.45	93.69	140.76	1.666	
11,600.00	7,241.99	11,540.87	7,174.55	73.26	73.30	-73.27	-698.66	-3,800.84	234.27	90.35	143.91	1.628	
11,700.00	7,241.97	11,640.87	7,174.71	74.88	74.93	-73.30	-698.33	-3,900.84	234.08	87.01	147.07	1.592	
11,800.00	7,241.94	11,740.87	7,174.88	76.51	76.55	-73.34	-698.00	-4,000.84	233.89	83.65	150.23	1.557	
11,900.00	7,241.92	11,840.87	7,175.05	78.14	78.18	-73.37	-697.67	-4,100.84	233.70	80.30	153.40	1.523	
12,000.00	7,241.89	11,940.87	7,175.21	79.77	79.81	-73.41	-697.34	-4,200.84	233.51	76.94	156.57	1.491 Level 3	
12,100.00	7,241.87	12,040.87	7,175.38	81.40	81.44	-73.44	-697.01	-4,300.84	233.32	73.57	159.75	1.461 Level 3	
12,200.00	7,241.84	12,140.87	7,175.55	83.03	83.07	-73.48	-696.68	-4,400.84	233.13	70.21	162.93	1.431 Level 3	
12,300.00	7,241.82	12,240.87	7,175.71	84.67	84.71	-73.52	-696.34	-4,500.84	232.94	66.84	166.11	1.402 Level 3	
12,400.00	7,241.79	12,340.87	7,175.88	86.31	86.34	-73.55	-696.01	-4,600.84	232.75	63.46	169.29	1.375 Level 3	
12,500.00	7,241.76	12,440.87	7,176.05	87.94	87.98	-73.59	-695.68	-4,700.84	232.57	60.08	172.48	1.348 Level 3	
12,600.00	7,241.74	12,540.87	7,176.21	89.58	89.62	-73.62	-695.35	-4,800.83	232.38	56.70	175.68	1.323 Level 3	
12,700.00	7,241.71	12,640.87	7,176.38	91.22	91.26	-73.66	-695.02	-4,900.83	232.19	53.31	178.88	1.298 Level 3	
12,800.00	7,241.69	12,740.87	7,176.55	92.87	92.90	-73.69	-694.69	-5,000.83	232.00	49.93	182.07	1.274 Level 3	
12,900.00	7,241.66	12,840.87	7,176.71	94.51	94.54	-73.73	-694.36	-5,100.83	231.81	46.54	185.28	1.251 Level 3	
13,000.00	7,241.64	12,940.87	7,176.88	96.15	96.18	-73.77	-694.03	-5,200.83	231.63	43.14	188.48	1.229 Level 2	
13,100.00	7,241.61	13,040.87	7,177.05	97.80	97.83	-73.80	-693.70	-5,300.83	231.44	39.75	191.69	1.207 Level 2	
13,200.00	7,241.58	13,140.87	7,177.22	99.44	99.47	-73.84	-693.37	-5,400.83	231.25	36.35	194.90	1.186 Level 2	
13,300.00	7,241.56	13,240.87	7,177.38	101.09	101.12	-73.87	-693.04	-5,500.83	231.06	32.95	198.12	1.166 Level 2	
13,400.00	7,241.53	13,340.87	7,177.55	102.73	102.76	-73.91	-692.71	-5,600.83	230.87	29.54	201.33	1.147 Level 2	
13,500.00	7,241.51	13,440.87	7,177.72	104.38	104.41	-73.95	-692.38	-5,700.83	230.69	26.14	204.55	1.128 Level 2	
13,600.00	7,241.48	13,540.87	7,177.88	106.03	106.06	-73.98	-692.05	-5,800.83	230.50	22.73	207.77	1.109 Level 2	
13,700.00	7,241.46	13,640.87	7,178.05	107.68	107.71	-74.02	-691.71	-5,900.82	230.31	19.32	210.99	1.092 Level 2	
13,800.00	7,241.43	13,740.86	7,178.22	109.33	109.36	-74.06	-691.38	-6,000.82	230.13	15.91	214.22	1.074 Level 2	
13,900.00	7,241.40	13,840.86	7,178.38	110.98	111.01	-74.09	-691.05	-6,100.82	229.94	12.49	217.45	1.057 Level 2	
14,000.00	7,241.38	13,940.86	7,178.55	112.63	112.66	-74.13	-690.72	-6,200.82	229.75	9.07	220.68	1.041 Level 2	
14,100.00	7,241.35	14,040.86	7,178.72	114.29	114.31	-74.17	-690.39	-6,300.82	229.56	5.66	223.91	1.025 Level 2	
14,200.00	7,241.33	14,140.86	7,178.88	115.94	115.96	-74.20	-690.06	-6,400.82	229.38	2.24	227.14	1.010 Level 2	
14,300.00	7,241.30	14,240.86	7,179.05	117.59	117.61	-74.24	-689.73	-6,500.82	229.19	-1.19	230.38	0.995 Level 1	
14,400.00	7,241.28	14,340.86	7,179.22	119.24	119.27	-74.28	-689.40	-6,600.82	229.00	-4.61	233.61	0.980 Level 1	
14,500.00	7,241.25	14,440.86	7,179.38	120.90	120.92	-74.31	-689.07	-6,700.82	228.82	-8.04	236.85	0.966 Level 1	
14,600.00	7,241.22	14,540.86	7,179.55	122.55	122.57	-74.35	-688.74	-6,800.82	228.63	-11.46	240.09	0.952 Level 1	
14,700.00	7,241.20	14,640.86	7,179.72	124.21	124.23	-74.39	-688.41	-6,900.81	228.44	-14.89	243.34	0.939 Level 1	
14,800.00	7,241.17	14,740.86	7,179.88	125.86	125.88	-74.42	-688.08	-7,000.81	228.26	-18.32	246.58	0.926 Level 1	
14,900.00	7,241.15	14,840.86	7,180.05	127.52	127.54	-74.46	-687.75	-7,100.81	228.07	-21.76	249.83	0.913 Level 1	
15,000.00	7,241.12	14,940.86	7,180.22	129.18	129.20	-74.50	-687.42	-7,200.81	227.89	-25.19	253.08	0.900 Level 1	
15,100.00	7,241.10	15,040.86	7,180.38	130.83	130.85	-74.54	-687.08	-7,300.81	227.70	-28.63	256.33	0.888 Level 1	
15,200.00	7,241.07	15,140.86	7,180.55	132.49	132.51	-74.57	-686.75	-7,400.81	227.51	-32.06	259.58	0.876 Level 1	
15,300.00	7,241.04	15,240.86	7,180.72	134.15	134.17	-74.61	-686.42	-7,500.81	227.33	-35.50	262.83	0.865 Level 1	
15,400.00	7,241.02	15,340.86	7,180.88	135.81	135.82	-74.65	-686.09	-7,600.81	227.14	-38.94	266.08	0.854 Level 1	
15,468.46	7,241.00	15,409.32	7,181.00	136.94	136.96	-74.67	-685.87	-7,669.26	227.02	-41.29	268.31	0.846 Level 1	

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,471.99	7,241.00	15,410.68	7,181.00	137.00	136.98	-74.67	-685.86	-7,670.63	227.02	-41.42	268.44	0.846	Level 1, ES, SF

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.73	-119.85	0.56	119.85					
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-119.85	0.56	119.85	112.32	7.53	15.919		
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-119.85	0.56	119.85	112.28	7.57	15.824		
300.00	299.98	298.19	298.19	3.35	3.35	60.76	-120.21	0.74	119.37	111.71	7.66	15.592		
315.17	315.14	312.81	312.81	3.35	3.35	60.93	-120.47	0.86	119.35	111.68	7.67	15.561	CC, ES	
400.00	399.84	394.58	394.52	3.41	3.40	62.16	-123.11	2.18	119.85	112.08	7.76	15.438		
500.00	499.45	490.92	490.63	3.50	3.48	64.18	-128.91	5.07	121.78	113.87	7.91	15.389	SF	
600.00	598.70	587.16	586.38	3.61	3.58	66.71	-137.58	9.40	125.31	117.19	8.11	15.447		
700.00	697.70	683.29	681.64	3.76	3.71	69.11	-149.12	15.15	131.11	122.75	8.36	15.676		
800.00	796.69	779.21	776.21	3.94	3.87	70.51	-163.47	22.31	139.80	131.13	8.67	16.131		
900.00	895.68	874.70	869.76	4.14	4.08	70.99	-180.56	30.83	151.18	142.16	9.01	16.770		
1,000.00	994.67	969.56	962.02	4.36	4.33	70.72	-200.30	40.67	165.17	155.77	9.40	17.566		
1,100.00	1,093.67	1,064.08	1,053.17	4.60	4.62	69.89	-222.65	51.81	181.77	171.95	9.83	18.496		
1,200.00	1,192.66	1,162.45	1,147.70	4.86	4.98	68.94	-247.04	63.97	199.46	189.13	10.33	19.313		
1,300.00	1,291.65	1,260.83	1,242.22	5.12	5.36	68.15	-271.42	76.13	217.20	206.34	10.86	20.005		
1,400.00	1,390.64	1,359.20	1,336.75	5.40	5.76	67.48	-295.81	88.29	234.96	223.55	11.42	20.583		
1,500.00	1,489.64	1,457.58	1,431.27	5.68	6.18	66.91	-320.19	100.45	252.76	240.77	11.98	21.095		
1,600.00	1,588.63	1,555.95	1,525.80	5.98	6.61	66.41	-344.58	112.60	270.57	257.99	12.58	21.512		
1,700.00	1,687.62	1,654.33	1,620.33	6.28	7.06	65.97	-368.96	124.76	288.40	275.22	13.19	21.872		
1,800.00	1,786.61	1,752.70	1,714.85	6.58	7.52	65.58	-393.35	136.92	306.25	292.44	13.81	22.181		
1,900.00	1,885.61	1,851.07	1,809.38	6.75	7.88	65.24	-417.73	149.08	324.11	310.28	13.83	23.431		
2,000.00	1,984.60	1,949.45	1,903.90	6.78	8.04	64.93	-442.12	161.23	341.98	328.02	13.96	24.492		
2,100.00	2,083.59	2,047.82	1,998.43	6.83	8.12	64.65	-466.50	173.39	359.86	345.81	14.04	25.623		
2,200.00	2,182.58	2,146.20	2,092.95	6.89	8.22	64.40	-490.89	185.55	377.74	363.58	14.16	26.677		
2,300.00	2,281.58	2,244.57	2,187.48	6.97	8.34	64.17	-515.27	197.71	395.64	381.33	14.31	27.648		
2,400.00	2,380.57	2,342.95	2,282.01	7.06	8.49	63.96	-539.66	209.87	413.53	399.04	14.49	28.535		
2,500.00	2,479.56	2,441.32	2,376.53	7.17	8.65	63.77	-564.04	222.02	431.44	416.73	14.71	29.337		
2,600.00	2,578.55	2,539.70	2,471.06	7.28	8.83	63.60	-588.43	234.18	449.34	434.39	14.95	30.056		
2,700.00	2,677.55	2,638.07	2,565.58	7.42	9.03	63.43	-612.81	246.34	467.25	452.03	15.22	30.695		
2,800.00	2,776.54	2,736.45	2,660.11	7.56	9.24	63.28	-637.20	258.50	485.17	469.65	15.52	31.259		
2,900.00	2,875.53	2,834.82	2,754.64	7.71	9.47	63.14	-661.58	270.66	503.08	487.24	15.85	31.750		
3,000.00	2,974.52	2,933.20	2,849.16	7.88	9.71	63.01	-685.97	282.81	521.00	504.81	16.19	32.176		
3,100.00	3,073.52	3,031.57	2,943.69	8.05	9.97	62.89	-710.35	294.97	538.92	522.36	16.56	32.540		
3,200.00	3,172.51	3,129.95	3,038.21	8.23	10.24	62.78	-734.74	307.13	556.85	539.90	16.95	32.849		
3,300.00	3,271.50	3,228.32	3,132.74	8.43	10.52	62.67	-759.12	319.29	574.77	557.41	17.36	33.109		
3,400.00	3,370.49	3,326.69	3,227.26	8.63	10.81	62.57	-783.51	331.44	592.70	574.92	17.79	33.323		
3,500.00	3,469.49	3,425.07	3,321.79	8.83	11.10	62.47	-807.89	343.60	610.63	592.40	18.23	33.498		
3,600.00	3,568.48	3,523.44	3,416.32	9.05	11.41	62.39	-832.28	355.76	628.56	609.88	18.69	33.637		
3,700.00	3,667.47	3,621.82	3,510.84	9.27	11.73	62.30	-856.66	367.92	646.50	627.34	19.16	33.745		
3,800.00	3,766.46	3,720.19	3,605.37	9.50	12.05	62.22	-881.05	380.08	664.43	644.79	19.64	33.825		
3,900.00	3,865.46	3,818.57	3,699.89	9.73	12.38	62.15	-905.43	392.23	682.37	662.23	20.14	33.882		
4,000.00	3,964.45	3,916.94	3,794.42	9.97	12.71	62.08	-929.82	404.39	700.30	679.65	20.65	33.918		
4,100.00	4,063.44	4,015.32	3,888.95	10.21	13.05	62.01	-954.20	416.55	718.24	697.07	21.16	33.936		
4,200.00	4,162.43	4,113.69	3,983.47	10.46	13.40	61.94	-978.59	428.71	736.18	714.48	21.69	33.938		
4,300.00	4,261.43	4,212.07	4,078.00	10.71	13.75	61.88	-1,002.97	440.87	754.12	731.89	22.23	33.927		
4,400.00	4,360.42	4,310.44	4,172.52	10.97	14.11	61.82	-1,027.36	453.02	772.05	749.28	22.77	33.904		
4,500.00	4,459.41	4,408.82	4,267.05	11.23	14.47	61.77	-1,051.74	465.18	790.00	766.67	23.32	33.871		
4,600.00	4,558.40	4,507.19	4,361.57	11.49	14.83	61.71	-1,076.13	477.34	807.94	784.05	23.88	33.830		
4,700.00	4,657.40	4,605.57	4,456.10	11.75	15.20	61.66	-1,100.51	489.50	825.88	801.43	24.45	33.782		
4,800.00	4,756.39	4,703.94	4,550.63	12.02	15.57	61.61	-1,124.90	501.66	843.82	818.80	25.02	33.727		
4,900.00	4,855.38	4,802.31	4,645.15	12.29	15.95	61.57	-1,149.28	513.81	861.76	836.17	25.60	33.668		
5,000.00	4,954.37	4,900.69	4,739.68	12.57	16.32	61.52	-1,173.67	525.97	879.71	853.53	26.18	33.605		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,053.37	5,000.94	4,834.20	12.85	16.71	61.48	-1,198.05	538.13	897.65	870.88	26.77	33.530	
5,200.00	5,152.36	5,102.56	4,928.73	13.12	17.11	61.44	-1,222.44	550.29	915.60	888.22	27.37	33.447	
5,300.00	5,251.35	5,204.19	5,023.26	13.41	17.50	61.40	-1,246.82	562.44	933.54	905.56	27.98	33.363	
5,400.00	5,350.34	5,294.19	5,117.78	13.69	17.86	61.36	-1,271.21	574.60	951.49	922.93	28.55	33.323	
5,500.00	5,449.34	5,407.44	5,212.31	13.97	18.30	61.32	-1,295.59	586.76	969.43	940.22	29.21	33.191	
5,600.00	5,548.33	5,490.94	5,306.83	14.26	18.64	61.28	-1,319.98	598.92	987.38	957.61	29.77	33.172	
5,700.00	5,647.32	5,589.31	5,401.36	14.55	19.03	61.25	-1,344.36	611.08	1,005.32	974.95	30.38	33.096	
5,800.00	5,746.31	5,687.69	5,495.88	14.84	19.42	61.22	-1,368.75	623.23	1,023.27	992.28	30.99	33.019	
5,900.00	5,845.31	5,786.06	5,590.41	15.13	19.82	61.18	-1,393.13	635.39	1,041.22	1,009.61	31.61	32.943	
6,000.00	5,944.30	5,884.44	5,684.94	15.42	20.22	61.15	-1,417.52	647.55	1,059.17	1,026.94	32.23	32.866	
6,100.00	6,043.29	5,982.81	5,779.46	15.72	20.62	61.12	-1,441.90	659.71	1,077.11	1,044.26	32.85	32.789	
6,200.00	6,142.28	6,081.19	5,873.99	16.01	21.02	61.09	-1,466.29	671.87	1,095.06	1,061.59	33.47	32.713	
6,300.00	6,241.28	6,179.56	5,968.51	16.31	21.42	61.07	-1,490.67	684.02	1,113.01	1,078.91	34.10	32.638	
6,400.00	6,340.27	6,277.93	6,063.04	16.61	21.82	61.04	-1,515.06	696.18	1,130.96	1,096.23	34.73	32.563	
6,500.00	6,439.26	6,376.31	6,157.57	16.90	22.23	61.01	-1,539.44	708.34	1,148.91	1,113.54	35.36	32.489	
6,600.00	6,538.26	6,474.68	6,252.09	17.20	22.63	58.18	-1,563.82	720.50	1,166.86	1,130.86	35.99	32.419	
6,700.00	6,637.86	6,572.51	6,346.09	17.38	23.04	-31.75	-1,588.07	732.59	1,184.64	1,148.15	36.48	32.471	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.68	-99.82	0.56	99.82					
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-99.82	0.56	99.82	92.29	7.53	13.258		
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-99.82	0.56	99.82	92.24	7.57	13.179 CC, ES		
300.00	299.98	297.04	297.03	3.35	3.34	60.45	-101.25	1.37	100.43	92.78	7.65	13.125		
400.00	399.84	394.04	393.90	3.41	3.40	61.52	-105.53	3.81	102.28	94.52	7.76	13.181		
500.00	499.45	490.95	490.45	3.50	3.48	63.22	-112.65	7.86	105.44	97.53	7.91	13.328		
600.00	598.70	587.73	586.55	3.61	3.59	65.43	-122.58	13.52	110.01	101.90	8.11	13.559		
700.00	697.70	684.34	682.03	3.76	3.73	67.43	-135.31	20.76	116.69	108.32	8.37	13.939		
800.00	796.69	780.64	776.68	3.94	3.92	68.29	-150.78	29.57	126.13	117.45	8.68	14.528		
900.00	895.68	876.43	870.16	4.14	4.14	68.19	-168.90	39.88	138.20	129.17	9.04	15.293		
1,000.00	994.67	973.85	964.62	4.36	4.42	67.48	-189.61	51.67	152.46	143.01	9.45	16.131		
1,100.00	1,093.67	1,072.78	1,060.48	4.60	4.74	66.82	-210.87	63.77	166.96	157.04	9.92	16.831		
1,200.00	1,192.66	1,171.71	1,156.33	4.86	5.08	66.26	-232.14	75.88	181.47	171.05	10.42	17.416		
1,300.00	1,291.65	1,270.63	1,252.18	5.12	5.45	65.79	-253.40	87.98	196.01	185.06	10.95	17.903		
1,400.00	1,390.64	1,369.56	1,348.03	5.40	5.83	65.39	-274.67	100.09	210.55	199.05	11.50	18.312		
1,500.00	1,489.64	1,468.48	1,443.89	5.68	6.23	65.03	-295.93	112.19	225.10	213.04	12.07	18.652		
1,600.00	1,588.63	1,567.41	1,539.74	5.98	6.64	64.72	-317.19	124.30	239.66	227.01	12.66	18.937		
1,700.00	1,687.62	1,666.34	1,635.59	6.28	7.06	64.45	-338.46	136.40	254.23	240.97	13.26	19.177		
1,800.00	1,786.61	1,765.26	1,731.45	6.58	7.49	64.20	-359.72	148.50	268.80	254.93	13.87	19.379		
1,900.00	1,885.61	1,864.19	1,827.30	6.75	7.79	63.98	-380.99	160.61	283.38	269.51	13.87	20.430		
2,000.00	1,984.60	1,963.12	1,923.15	6.78	7.92	63.78	-402.25	172.71	297.96	283.98	13.98	21.314		
2,100.00	2,083.59	2,062.04	2,019.00	6.83	7.99	63.60	-423.52	184.82	312.54	298.48	14.06	22.224		
2,200.00	2,182.58	2,160.97	2,114.86	6.89	8.09	63.44	-444.78	196.92	327.12	312.94	14.18	23.070		
2,300.00	2,281.58	2,259.90	2,210.71	6.97	8.20	63.29	-466.05	209.03	341.71	327.38	14.33	23.848		
2,400.00	2,380.57	2,358.82	2,306.56	7.06	8.33	63.15	-487.31	221.13	356.30	341.79	14.51	24.558		
2,500.00	2,479.56	2,457.75	2,402.42	7.17	8.48	63.02	-508.57	233.24	370.89	356.17	14.72	25.198		
2,600.00	2,578.55	2,556.68	2,498.27	7.28	8.65	62.91	-529.84	245.34	385.49	370.53	14.96	25.772		
2,700.00	2,677.55	2,655.60	2,594.12	7.42	8.83	62.80	-551.10	257.44	400.08	384.86	15.22	26.280		
2,800.00	2,776.54	2,754.53	2,689.97	7.56	9.02	62.70	-572.37	269.55	414.68	399.16	15.52	26.727		
2,900.00	2,875.53	2,853.46	2,785.83	7.71	9.23	62.60	-593.63	281.65	429.27	413.44	15.83	27.117		
3,000.00	2,974.52	2,952.38	2,881.68	7.88	9.46	62.51	-614.90	293.76	443.87	427.70	16.17	27.452		
3,100.00	3,073.52	3,051.31	2,977.53	8.05	9.69	62.43	-636.16	305.86	458.47	441.94	16.53	27.738		
3,200.00	3,172.51	3,150.24	3,073.39	8.23	9.94	62.35	-657.43	317.97	473.07	456.16	16.91	27.979		
3,300.00	3,271.50	3,249.16	3,169.24	8.43	10.20	62.28	-678.69	330.07	487.67	470.37	17.31	28.180		
3,400.00	3,370.49	3,348.09	3,265.09	8.63	10.46	62.21	-699.95	342.18	502.27	484.55	17.72	28.344		
3,500.00	3,469.49	3,447.01	3,360.94	8.83	10.74	62.15	-721.22	354.28	516.88	498.73	18.15	28.476		
3,600.00	3,568.48	3,545.94	3,456.80	9.05	11.02	62.09	-742.48	366.38	531.48	512.88	18.60	28.579		
3,700.00	3,667.47	3,644.87	3,552.65	9.27	11.31	62.03	-763.75	378.49	546.08	527.03	19.06	28.656		
3,800.00	3,766.46	3,743.79	3,648.50	9.50	11.61	61.97	-785.01	390.59	560.69	541.16	19.53	28.712		
3,900.00	3,865.46	3,842.72	3,744.35	9.73	11.92	61.92	-806.28	402.70	575.29	555.28	20.01	28.748		
4,000.00	3,964.45	3,941.65	3,840.21	9.97	12.23	61.87	-827.54	414.80	589.90	569.39	20.51	28.766		
4,100.00	4,063.44	4,040.57	3,936.06	10.21	12.54	61.83	-848.81	426.91	604.50	583.49	21.01	28.771		
4,200.00	4,162.43	4,139.50	4,031.91	10.46	12.87	61.78	-870.07	439.01	619.11	597.58	21.53	28.762		
4,300.00	4,261.43	4,238.43	4,127.77	10.71	13.19	61.74	-891.33	451.12	633.71	611.67	22.05	28.743		
4,400.00	4,360.42	4,337.35	4,223.62	10.97	13.52	61.70	-912.60	463.22	648.32	625.74	22.58	28.714		
4,500.00	4,459.41	4,436.28	4,319.47	11.23	13.86	61.66	-933.86	475.32	662.93	639.81	23.12	28.677		
4,600.00	4,558.40	4,535.21	4,415.32	11.49	14.20	61.62	-955.13	487.43	677.53	653.87	23.66	28.633		
4,700.00	4,657.40	4,634.13	4,511.18	11.75	14.54	61.59	-976.39	499.53	692.14	667.93	24.21	28.584		
4,800.00	4,756.39	4,733.06	4,607.03	12.02	14.89	61.55	-997.66	511.64	706.75	681.98	24.77	28.530		
4,900.00	4,855.38	4,831.99	4,702.88	12.29	15.24	61.52	-1,018.92	523.74	721.36	696.02	25.34	28.472		
5,000.00	4,954.37	4,930.91	4,798.74	12.57	15.59	61.49	-1,040.19	535.85	735.96	710.06	25.90	28.411		
5,100.00	5,053.37	5,029.84	4,894.59	12.85	15.94	61.46	-1,061.45	547.95	750.57	724.09	26.48	28.347		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,128.76	4,990.44	13.12	16.30	61.43	-1,082.71	560.06	765.18	738.12	27.06	28.281		
5,300.00	5,251.35	5,227.69	5,086.29	13.41	16.66	61.40	-1,103.98	572.16	779.79	752.15	27.64	28.214		
5,400.00	5,350.34	5,326.62	5,182.15	13.69	17.02	61.37	-1,125.24	584.26	794.40	766.17	28.23	28.145		
5,500.00	5,449.34	5,425.54	5,278.00	13.97	17.39	61.35	-1,146.51	596.37	809.01	780.19	28.82	28.075		
5,600.00	5,548.33	5,524.47	5,373.85	14.26	17.75	61.32	-1,167.77	608.47	823.62	794.21	29.41	28.005		
5,700.00	5,647.32	5,623.40	5,469.70	14.55	18.12	61.30	-1,189.04	620.58	838.22	808.22	30.01	27.934		
5,800.00	5,746.31	5,722.32	5,565.56	14.84	18.49	61.27	-1,210.30	632.68	852.83	822.23	30.61	27.863		
5,900.00	5,845.31	5,821.25	5,661.41	15.13	18.86	61.25	-1,231.56	644.79	867.44	836.23	31.21	27.793		
6,000.00	5,944.30	5,920.18	5,757.26	15.42	19.23	61.23	-1,252.83	656.89	882.05	850.24	31.82	27.722		
6,100.00	6,043.29	6,019.10	5,853.12	15.72	19.61	61.21	-1,274.09	669.00	896.66	864.24	32.43	27.652		
6,200.00	6,142.28	6,118.03	5,948.97	16.01	19.98	61.19	-1,295.36	681.10	911.27	878.23	33.04	27.582		
6,300.00	6,241.28	6,216.96	6,044.82	16.31	20.36	61.17	-1,316.62	693.20	925.88	892.23	33.65	27.514		
6,400.00	6,340.27	6,315.88	6,140.67	16.61	20.74	61.15	-1,337.89	705.31	940.49	906.22	34.27	27.445		
6,500.00	6,439.26	6,414.81	6,236.53	16.90	21.12	61.13	-1,359.15	717.41	955.10	920.22	34.89	27.378		
6,600.00	6,538.26	6,513.74	6,332.38	17.20	21.50	58.28	-1,380.42	729.52	969.71	934.21	35.50	27.314		
6,700.00	6,637.86	6,612.13	6,427.72	17.38	21.88	-32.05	-1,401.57	741.56	984.16	948.19	35.97	27.359		
6,800.00	6,736.73	6,707.88	6,520.50	17.50	22.24	-69.21	-1,422.15	753.27	998.49	962.19	36.30	27.509		
6,900.00	6,832.42	6,803.09	6,613.10	17.58	22.53	-77.68	-1,442.69	760.54	1,013.28	976.80	36.48	27.775		
7,000.00	6,922.59	6,904.14	6,711.38	17.62	22.75	-81.52	-1,464.46	753.04	1,028.51	991.90	36.60	28.098		
7,100.00	7,005.01	7,012.22	6,813.80	17.63	22.93	-83.89	-1,487.12	727.54	1,043.72	1,007.02	36.70	28.439		
7,200.00	7,077.65	7,128.62	6,917.67	17.64	23.07	-85.63	-1,510.07	680.68	1,058.40	1,021.60	36.80	28.761		
7,300.00	7,138.73	7,254.50	7,018.61	17.64	23.15	-87.03	-1,532.32	609.19	1,071.85	1,034.91	36.94	29.013		
7,400.00	7,186.74	7,390.48	7,109.93	17.69	23.17	-88.17	-1,552.41	510.81	1,083.33	1,046.12	37.21	29.115		
7,500.00	7,220.49	7,536.14	7,182.78	17.80	23.11	-89.04	-1,568.36	386.06	1,092.01	1,054.30	37.71	28.959		
7,600.00	7,239.17	7,689.44	7,227.51	18.02	22.99	-89.59	-1,578.04	240.14	1,097.16	1,058.61	38.55	28.462		
7,700.00	7,243.00	7,832.28	7,237.96	18.40	22.84	-89.74	-1,580.13	97.96	1,098.38	1,058.72	39.66	27.692		
7,800.00	7,242.97	7,932.28	7,237.84	18.96	22.76	-89.73	-1,579.95	-2.04	1,098.39	1,057.58	40.80	26.920		
7,900.00	7,242.95	8,032.28	7,237.71	19.67	22.79	-89.73	-1,579.76	-102.04	1,098.39	1,056.22	42.18	26.043		
8,000.00	7,242.92	8,132.28	7,237.58	20.51	23.17	-89.72	-1,579.57	-202.04	1,098.40	1,054.63	43.76	25.098		
8,100.00	7,242.89	8,232.28	7,237.45	21.45	23.95	-89.72	-1,579.39	-302.04	1,098.40	1,052.85	45.55	24.116		
8,200.00	7,242.87	8,332.28	7,237.32	22.48	24.88	-89.71	-1,579.20	-402.04	1,098.41	1,050.91	47.50	23.125		
8,300.00	7,242.84	8,432.28	7,237.20	23.59	25.90	-89.71	-1,579.01	-502.04	1,098.41	1,048.81	49.60	22.144		
8,400.00	7,242.82	8,532.28	7,237.07	24.76	26.99	-89.70	-1,578.83	-602.04	1,098.41	1,046.58	51.84	21.190		
8,500.00	7,242.79	8,632.28	7,236.94	25.98	28.13	-89.69	-1,578.64	-702.04	1,098.42	1,044.23	54.19	20.271		
8,600.00	7,242.77	8,732.28	7,236.81	27.25	29.33	-89.69	-1,578.45	-802.04	1,098.42	1,041.79	56.64	19.393		
8,700.00	7,242.74	8,832.28	7,236.68	28.56	30.56	-89.68	-1,578.27	-902.04	1,098.43	1,039.25	59.18	18.561		
8,800.00	7,242.71	8,932.28	7,236.55	29.91	31.83	-89.68	-1,578.08	-1,002.04	1,098.43	1,036.64	61.80	17.775		
8,900.00	7,242.69	9,032.28	7,236.43	31.29	33.14	-89.67	-1,577.89	-1,102.04	1,098.44	1,033.96	64.48	17.035		
9,000.00	7,242.66	9,132.28	7,236.30	32.69	34.48	-89.67	-1,577.71	-1,202.04	1,098.44	1,031.22	67.22	16.340		
9,100.00	7,242.64	9,232.28	7,236.17	34.12	35.84	-89.66	-1,577.52	-1,302.04	1,098.45	1,028.43	70.02	15.688		
9,200.00	7,242.61	9,332.28	7,236.04	35.57	37.23	-89.66	-1,577.33	-1,402.04	1,098.45	1,025.59	72.86	15.076		
9,300.00	7,242.59	9,432.28	7,235.91	37.04	38.64	-89.65	-1,577.15	-1,502.04	1,098.46	1,022.71	75.75	14.502		
9,400.00	7,242.56	9,532.28	7,235.78	38.53	40.07	-89.65	-1,576.96	-1,602.04	1,098.46	1,019.80	78.67	13.963		
9,500.00	7,242.53	9,632.28	7,235.66	40.03	41.51	-89.64	-1,576.77	-1,702.04	1,098.47	1,016.85	81.62	13.458		
9,600.00	7,242.51	9,732.28	7,235.53	41.54	42.97	-89.64	-1,576.59	-1,802.04	1,098.47	1,013.87	84.60	12.984		
9,700.00	7,242.48	9,832.28	7,235.40	43.07	44.45	-89.63	-1,576.40	-1,902.04	1,098.48	1,010.87	87.61	12.538		
9,800.00	7,242.46	9,932.28	7,235.27	44.60	45.94	-89.63	-1,576.21	-2,002.03	1,098.48	1,007.84	90.65	12.118		
9,900.00	7,242.43	10,032.28	7,235.14	46.14	47.44	-89.62	-1,576.03	-2,102.03	1,098.49	1,004.79	93.70	11.724		
10,000.00	7,242.41	10,132.28	7,235.01	47.70	48.95	-89.61	-1,575.84	-2,202.03	1,098.49	1,001.72	96.77	11.351		
10,100.00	7,242.38	10,232.28	7,234.89	49.26	50.47	-89.61	-1,575.65	-2,302.03	1,098.50	998.64	99.86	11.000		
10,200.00	7,242.35	10,332.28	7,234.76	50.83	52.00	-89.60	-1,575.47	-2,402.03	1,098.50	995.54	102.97	10.668		
10,300.00	7,242.33	10,432.28	7,234.63	52.40	53.54	-89.60	-1,575.28	-2,502.03	1,098.51	992.42	106.09	10.354		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,532.28	7,234.50	53.98	55.09	-89.59	-1,575.09	-2,602.03	1,098.51	989.29	109.22	10.057		
10,500.00	7,242.28	10,632.28	7,234.37	55.57	56.64	-89.59	-1,574.91	-2,702.03	1,098.52	986.15	112.37	9.776		
10,600.00	7,242.25	10,732.28	7,234.24	57.16	58.20	-89.58	-1,574.72	-2,802.03	1,098.52	983.00	115.53	9.509		
10,700.00	7,242.23	10,832.28	7,234.12	58.75	59.76	-89.58	-1,574.53	-2,902.03	1,098.53	979.83	118.70	9.255		
10,800.00	7,242.20	10,932.28	7,233.99	60.35	61.33	-89.57	-1,574.35	-3,002.03	1,098.53	976.66	121.87	9.014		
10,900.00	7,242.17	11,032.28	7,233.86	61.95	62.91	-89.57	-1,574.16	-3,102.03	1,098.54	973.48	125.06	8.784		
11,000.00	7,242.15	11,132.28	7,233.73	63.56	64.49	-89.56	-1,573.97	-3,202.03	1,098.55	970.29	128.25	8.565		
11,100.00	7,242.12	11,232.28	7,233.60	65.17	66.07	-89.56	-1,573.79	-3,302.03	1,098.55	967.10	131.45	8.357		
11,200.00	7,242.10	11,332.28	7,233.47	66.78	67.66	-89.55	-1,573.60	-3,402.03	1,098.56	963.89	134.66	8.158		
11,300.00	7,242.07	11,432.28	7,233.35	68.40	69.26	-89.54	-1,573.41	-3,502.03	1,098.56	960.68	137.88	7.968		
11,400.00	7,242.05	11,532.28	7,233.22	70.01	70.85	-89.54	-1,573.23	-3,602.03	1,098.57	957.47	141.10	7.786		
11,500.00	7,242.02	11,632.28	7,233.09	71.63	72.45	-89.53	-1,573.04	-3,702.03	1,098.57	954.25	144.33	7.612		
11,600.00	7,241.99	11,732.28	7,232.96	73.26	74.05	-89.53	-1,572.85	-3,802.03	1,098.58	951.02	147.56	7.445		
11,700.00	7,241.97	11,832.28	7,232.83	74.88	75.66	-89.52	-1,572.67	-3,902.03	1,098.58	947.79	150.79	7.285		
11,800.00	7,241.94	11,932.28	7,232.70	76.51	77.27	-89.52	-1,572.48	-4,002.03	1,098.59	944.55	154.04	7.132		
11,900.00	7,241.92	12,032.28	7,232.58	78.14	78.88	-89.51	-1,572.29	-4,102.03	1,098.59	941.31	157.28	6.985		
12,000.00	7,241.89	12,132.28	7,232.45	79.77	80.49	-89.51	-1,572.11	-4,202.03	1,098.60	938.07	160.53	6.844		
12,100.00	7,241.87	12,232.28	7,232.32	81.40	82.11	-89.50	-1,571.92	-4,302.03	1,098.60	934.82	163.78	6.708		
12,200.00	7,241.84	12,332.28	7,232.19	83.03	83.72	-89.50	-1,571.73	-4,402.03	1,098.61	931.57	167.04	6.577		
12,300.00	7,241.82	12,432.28	7,232.06	84.67	85.34	-89.49	-1,571.55	-4,502.03	1,098.61	928.31	170.30	6.451		
12,400.00	7,241.79	12,532.28	7,231.93	86.31	86.97	-89.49	-1,571.36	-4,602.03	1,098.62	925.05	173.57	6.330		
12,500.00	7,241.76	12,632.28	7,231.81	87.94	88.59	-89.48	-1,571.17	-4,702.03	1,098.62	921.79	176.83	6.213		
12,600.00	7,241.74	12,732.28	7,231.68	89.58	90.21	-89.48	-1,570.99	-4,802.03	1,098.63	918.53	180.10	6.100		
12,700.00	7,241.71	12,832.28	7,231.55	91.22	91.84	-89.47	-1,570.80	-4,902.03	1,098.63	915.26	183.37	5.991		
12,800.00	7,241.69	12,932.28	7,231.42	92.87	93.47	-89.46	-1,570.61	-5,002.03	1,098.64	911.99	186.65	5.886		
12,900.00	7,241.66	13,032.28	7,231.29	94.51	95.10	-89.46	-1,570.43	-5,102.03	1,098.64	908.72	189.92	5.785		
13,000.00	7,241.64	13,132.28	7,231.16	96.15	96.73	-89.45	-1,570.24	-5,202.03	1,098.65	905.45	193.20	5.686		
13,100.00	7,241.61	13,232.28	7,231.04	97.80	98.36	-89.45	-1,570.05	-5,302.02	1,098.66	902.17	196.49	5.592		
13,200.00	7,241.58	13,332.28	7,230.91	99.44	100.00	-89.44	-1,569.87	-5,402.02	1,098.66	898.89	199.77	5.500		
13,300.00	7,241.56	13,432.28	7,230.78	101.09	101.63	-89.44	-1,569.68	-5,502.02	1,098.67	895.61	203.05	5.411		
13,400.00	7,241.53	13,532.28	7,230.65	102.73	103.27	-89.43	-1,569.49	-5,602.02	1,098.67	892.33	206.34	5.325		
13,500.00	7,241.51	13,632.28	7,230.52	104.38	104.91	-89.43	-1,569.31	-5,702.02	1,098.68	889.05	209.63	5.241		
13,600.00	7,241.48	13,732.28	7,230.40	106.03	106.54	-89.42	-1,569.12	-5,802.02	1,098.68	885.76	212.92	5.160		
13,700.00	7,241.46	13,832.28	7,230.27	107.68	108.18	-89.42	-1,568.93	-5,902.02	1,098.69	882.47	216.21	5.081		
13,800.00	7,241.43	13,932.28	7,230.14	109.33	109.82	-89.41	-1,568.75	-6,002.02	1,098.69	879.18	219.51	5.005		
13,900.00	7,241.40	14,032.28	7,230.01	110.98	111.47	-89.41	-1,568.56	-6,102.02	1,098.70	875.89	222.80	4.931		
14,000.00	7,241.38	14,132.28	7,229.88	112.63	113.11	-89.40	-1,568.37	-6,202.02	1,098.70	872.60	226.10	4.859		
14,100.00	7,241.35	14,232.28	7,229.75	114.29	114.75	-89.40	-1,568.18	-6,302.02	1,098.71	869.31	229.40	4.790		
14,200.00	7,241.33	14,332.28	7,229.63	115.94	116.39	-89.39	-1,568.00	-6,402.02	1,098.71	866.02	232.70	4.722		
14,300.00	7,241.30	14,432.28	7,229.50	117.59	118.04	-89.38	-1,567.81	-6,502.02	1,098.72	862.72	236.00	4.656		
14,400.00	7,241.28	14,532.28	7,229.37	119.24	119.68	-89.38	-1,567.63	-6,602.02	1,098.73	859.42	239.30	4.591		
14,500.00	7,241.25	14,632.28	7,229.24	120.90	121.33	-89.37	-1,567.44	-6,702.02	1,098.73	856.13	242.60	4.529		
14,600.00	7,241.22	14,732.28	7,229.11	122.55	122.98	-89.37	-1,567.25	-6,802.02	1,098.74	852.83	245.91	4.468		
14,700.00	7,241.20	14,832.28	7,228.98	124.21	124.62	-89.36	-1,567.07	-6,902.02	1,098.74	849.53	249.21	4.409		
14,800.00	7,241.17	14,932.28	7,228.86	125.86	126.27	-89.36	-1,566.88	-7,002.02	1,098.75	846.23	252.52	4.351		
14,900.00	7,241.15	15,032.28	7,228.73	127.52	127.92	-89.35	-1,566.69	-7,102.02	1,098.75	842.93	255.83	4.295		
15,000.00	7,241.12	15,132.28	7,228.60	129.18	129.57	-89.35	-1,566.51	-7,202.02	1,098.76	839.62	259.14	4.240		
15,100.00	7,241.10	15,232.28	7,228.47	130.83	131.22	-89.34	-1,566.32	-7,302.02	1,098.76	836.32	262.44	4.187		
15,200.00	7,241.07	15,332.28	7,228.34	132.49	132.87	-89.34	-1,566.13	-7,402.02	1,098.77	833.02	265.75	4.135		
15,300.00	7,241.04	15,432.28	7,228.21	134.15	134.52	-89.33	-1,565.94	-7,502.02	1,098.77	829.71	269.06	4.084		
15,400.00	7,241.02	15,532.28	7,228.09	135.81	136.17	-89.33	-1,565.76	-7,602.02	1,098.78	826.40	272.38	4.034		
15,471.99	7,241.00	15,604.27	7,227.99	137.00	137.36	-89.32	-1,565.62	-7,674.01	1,098.78	824.03	274.76	3.999 SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-124.00	-100.91	-149.61	180.46					
100.00	100.00	101.00	101.00	3.28	3.28	-124.00	-100.91	-149.61	180.46	172.93	7.53	23.969		
200.00	200.00	201.00	201.00	3.31	3.31	-124.00	-100.91	-149.61	180.46	172.89	7.57	23.826 CC, ES		
300.00	299.98	297.29	297.27	3.35	3.34	-116.43	-102.56	-149.70	182.27	174.62	7.65	23.818 SF		
400.00	399.84	393.44	393.29	3.41	3.40	-116.52	-107.43	-149.94	187.64	179.87	7.77	24.160		
500.00	499.45	489.22	488.73	3.50	3.48	-116.65	-115.48	-150.34	196.55	188.63	7.93	24.789		
600.00	598.70	584.46	583.31	3.61	3.58	-116.81	-126.64	-150.90	209.00	200.85	8.15	25.655		
700.00	697.70	679.10	676.87	3.76	3.72	-116.91	-140.83	-151.60	224.26	215.84	8.42	26.639		
800.00	796.69	773.10	769.29	3.94	3.89	-116.40	-157.97	-152.46	241.43	232.69	8.74	27.626		
900.00	895.68	868.76	862.79	4.14	4.10	-115.46	-178.13	-153.46	260.33	251.21	9.12	28.553		
1,000.00	994.67	966.81	958.54	4.36	4.36	-114.55	-199.19	-154.51	279.55	270.00	9.55	29.265		
1,100.00	1,093.67	1,064.85	1,054.30	4.60	4.63	-113.76	-220.25	-155.56	298.82	288.80	10.03	29.807		
1,200.00	1,192.66	1,162.90	1,150.05	4.86	4.93	-113.07	-241.31	-156.60	318.15	307.62	10.53	30.212		
1,300.00	1,291.65	1,260.95	1,245.80	5.12	5.25	-112.46	-262.38	-157.65	337.51	326.45	11.06	30.507		
1,400.00	1,390.64	1,358.99	1,341.55	5.40	5.58	-111.91	-283.44	-158.70	356.91	345.29	11.62	30.719		
1,500.00	1,489.64	1,457.04	1,437.30	5.68	5.93	-111.42	-304.50	-159.75	376.34	364.14	12.19	30.862		
1,600.00	1,588.63	1,555.09	1,533.06	5.98	6.28	-110.97	-325.56	-160.80	395.79	383.00	12.79	30.954		
1,700.00	1,687.62	1,653.13	1,628.81	6.28	6.65	-110.57	-346.62	-161.85	415.26	401.87	13.39	31.007		
1,800.00	1,786.61	1,751.18	1,724.56	6.58	7.02	-110.21	-367.68	-162.90	434.75	420.74	14.01	31.029		
1,900.00	1,885.61	1,849.23	1,820.31	6.75	7.31	-109.87	-388.74	-163.95	454.25	440.21	14.04	32.348		
2,000.00	1,984.60	1,947.27	1,916.06	6.78	7.44	-109.57	-409.81	-164.99	473.77	459.59	14.18	33.409		
2,100.00	2,083.59	2,045.32	2,011.82	6.83	7.50	-109.28	-430.87	-166.04	493.30	479.03	14.27	34.570		
2,200.00	2,182.58	2,143.37	2,107.57	6.89	7.58	-109.02	-451.93	-167.09	512.84	498.45	14.39	35.638		
2,300.00	2,281.58	2,241.41	2,203.32	6.97	7.68	-108.78	-472.99	-168.14	532.39	517.85	14.54	36.609		
2,400.00	2,380.57	2,339.46	2,299.07	7.06	7.79	-108.56	-494.05	-169.19	551.95	537.22	14.73	37.483		
2,500.00	2,479.56	2,437.51	2,394.82	7.17	7.92	-108.35	-515.11	-170.24	571.52	556.58	14.94	38.261		
2,600.00	2,578.55	2,535.55	2,490.57	7.28	8.06	-108.15	-536.17	-171.29	591.09	575.91	15.18	38.945		
2,700.00	2,677.55	2,633.60	2,586.33	7.42	8.22	-107.97	-557.23	-172.33	610.67	595.22	15.44	39.541		
2,800.00	2,776.54	2,731.64	2,682.08	7.56	8.40	-107.80	-578.30	-173.38	630.25	614.52	15.74	40.053		
2,900.00	2,875.53	2,829.69	2,777.83	7.71	8.58	-107.64	-599.36	-174.43	649.84	633.79	16.05	40.486		
3,000.00	2,974.52	2,927.74	2,873.58	7.88	8.78	-107.48	-620.42	-175.48	669.44	653.05	16.39	40.848		
3,100.00	3,073.52	3,025.78	2,969.33	8.05	8.99	-107.34	-641.48	-176.53	689.04	672.29	16.75	41.143		
3,200.00	3,172.51	3,123.83	3,065.09	8.23	9.21	-107.21	-662.54	-177.58	708.64	691.51	17.13	41.380		
3,300.00	3,271.50	3,221.88	3,160.84	8.43	9.44	-107.08	-683.60	-178.63	728.25	710.73	17.52	41.563		
3,400.00	3,370.49	3,319.92	3,256.59	8.63	9.68	-106.96	-704.66	-179.67	747.86	729.92	17.93	41.699		
3,500.00	3,469.49	3,417.97	3,352.34	8.83	9.93	-106.84	-725.73	-180.72	767.47	749.11	18.36	41.793		
3,600.00	3,568.48	3,516.02	3,448.09	9.05	10.19	-106.73	-746.79	-181.77	787.08	768.28	18.81	41.850		
3,700.00	3,667.47	3,614.06	3,543.85	9.27	10.45	-106.63	-767.85	-182.82	806.70	787.44	19.26	41.876		
3,800.00	3,766.46	3,712.11	3,639.60	9.50	10.72	-106.53	-788.91	-183.87	826.32	806.59	19.73	41.873		
3,900.00	3,865.46	3,810.16	3,735.35	9.73	10.99	-106.44	-809.97	-184.92	845.95	825.73	20.22	41.847		
4,000.00	3,964.45	3,908.20	3,831.10	9.97	11.28	-106.35	-831.03	-185.97	865.57	844.86	20.71	41.799		
4,100.00	4,063.44	4,006.25	3,926.85	10.21	11.56	-106.26	-852.09	-187.02	885.20	863.99	21.21	41.735		
4,200.00	4,162.43	4,104.30	4,022.61	10.46	11.85	-106.18	-873.16	-188.06	904.83	883.11	21.72	41.655		
4,300.00	4,261.43	4,202.34	4,118.36	10.71	12.15	-106.10	-894.22	-189.11	924.46	902.22	22.24	41.563		
4,400.00	4,360.42	4,300.39	4,214.11	10.97	12.45	-106.02	-915.28	-190.16	944.09	921.32	22.77	41.460		
4,500.00	4,459.41	4,401.57	4,309.86	11.23	12.77	-105.95	-936.34	-191.21	963.72	940.41	23.32	41.333		
4,600.00	4,558.40	4,496.48	4,405.61	11.49	13.07	-105.88	-957.40	-192.26	983.36	959.51	23.85	41.231		
4,700.00	4,657.40	4,605.47	4,501.37	11.75	13.41	-105.81	-978.46	-193.31	1,003.00	978.56	24.43	41.052		
4,800.00	4,756.39	4,692.57	4,597.12	12.02	13.69	-105.75	-999.52	-194.36	1,022.63	997.68	24.96	40.978		
4,900.00	4,855.38	4,790.62	4,692.87	12.29	14.01	-105.69	-1,020.59	-195.40	1,042.27	1,016.76	25.52	40.846		
5,000.00	4,954.37	4,888.67	4,788.62	12.57	14.33	-105.63	-1,041.65	-196.45	1,061.91	1,035.83	26.08	40.711		
5,100.00	5,053.37	4,986.71	4,884.37	12.85	14.66	-105.57	-1,062.71	-197.50	1,081.55	1,054.90	26.66	40.575		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,152.36	5,084.76	4,980.12	13.12	14.98	105.51	-1,083.77	-198.55	1,101.20	1,073.96	27.23	40.437	
5,300.00	5,251.35	5,182.81	5,075.88	13.41	15.31	105.46	-1,104.83	-199.60	1,120.84	1,093.03	27.81	40.299	
5,400.00	5,350.34	5,280.85	5,171.63	13.69	15.64	105.41	-1,125.89	-200.65	1,140.48	1,112.08	28.40	40.161	
5,500.00	5,449.34	5,378.90	5,267.38	13.97	15.97	105.36	-1,146.95	-201.70	1,160.13	1,131.14	28.99	40.023	
5,600.00	5,548.33	5,476.95	5,363.13	14.26	16.31	105.31	-1,168.01	-202.74	1,179.77	1,150.19	29.58	39.885	
5,700.00	5,647.32	5,574.99	5,458.88	14.55	16.65	105.26	-1,189.08	-203.79	1,199.42	1,169.24	30.18	39.749	
6,800.00	6,736.73	8,009.52	7,158.61	17.50	25.52	-76.15	-1,565.80	750.96	1,195.02	1,156.73	38.29	31.210	
6,900.00	6,832.42	7,981.54	7,158.64	17.58	25.29	-86.17	-1,565.73	722.99	1,158.28	1,119.43	38.85	29.811	
7,000.00	6,922.59	7,938.91	7,158.69	17.62	24.94	-89.99	-1,565.61	680.35	1,130.03	1,090.89	39.14	28.873	
7,100.00	7,005.01	7,882.66	7,158.76	17.63	24.51	-91.08	-1,565.46	624.11	1,110.02	1,070.86	39.16	28.349	
7,200.00	7,077.65	7,814.20	7,158.84	17.64	24.05	-90.63	-1,565.28	555.64	1,097.22	1,058.25	38.97	28.154	
7,300.00	7,138.73	7,735.20	7,158.93	17.64	23.59	-89.37	-1,565.07	476.64	1,090.10	1,051.42	38.68	28.183	
7,400.00	7,186.74	7,632.27	7,157.31	17.69	23.13	-87.44	-1,564.41	373.76	1,086.63	1,048.32	38.31	28.362	
7,500.00	7,220.49	7,510.87	7,137.39	17.80	22.72	-84.83	-1,559.67	254.28	1,083.27	1,045.25	38.02	28.491	
7,600.00	7,239.17	7,402.94	7,101.37	18.02	22.43	-82.34	-1,551.45	153.02	1,079.75	1,041.83	37.92	28.471	
7,700.00	7,243.00	7,305.70	7,055.03	18.40	22.20	-79.89	-1,541.01	68.28	1,076.43	1,038.42	38.01	28.319	
7,788.78	7,242.97	7,231.80	7,011.68	18.90	22.02	-77.52	-1,531.30	9.27	1,075.10	1,036.82	38.28	28.083	
7,800.00	7,242.97	7,223.36	7,006.31	18.96	22.00	-77.23	-1,530.10	2.87	1,075.13	1,036.80	38.32	28.055	
7,900.00	7,242.95	7,156.09	6,960.65	19.67	21.84	-74.74	-1,519.91	-45.42	1,077.86	1,039.02	38.84	27.753	
8,000.00	7,242.92	7,101.25	6,919.90	20.51	21.70	-72.53	-1,510.85	-80.97	1,085.97	1,046.45	39.52	27.476	
8,100.00	7,242.89	7,056.30	6,884.38	21.45	21.59	-70.61	-1,502.95	-107.33	1,100.34	1,060.01	40.34	27.279	
8,200.00	7,242.87	7,019.14	6,853.70	22.48	21.49	-68.97	-1,496.15	-127.15	1,121.42	1,080.18	41.24	27.196	
8,300.00	7,242.84	6,988.10	6,827.24	23.59	21.40	-67.56	-1,490.28	-142.27	1,149.32	1,107.16	42.17	27.258	
8,400.00	7,242.82	6,961.90	6,804.37	24.76	21.33	-66.35	-1,485.21	-154.00	1,183.90	1,140.82	43.08	27.479	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-129.00	-120.95	-149.34	192.17				
100.00	100.00	101.00	101.00	3.28	3.28	-129.00	-120.95	-149.34	192.17	184.64	7.53	25.524	
200.00	200.00	201.00	201.00	3.31	3.31	-129.00	-120.95	-149.34	192.17	184.60	7.57	25.372 CC, ES	
300.00	299.98	296.67	296.66	3.35	3.34	111.46	-122.58	-149.41	193.94	186.28	7.65	25.345 SF	
400.00	399.84	392.21	392.07	3.41	3.40	111.66	-127.39	-149.61	199.18	191.42	7.76	25.653	
500.00	499.45	487.40	486.92	3.50	3.48	111.98	-135.34	-149.95	207.91	199.98	7.93	26.234	
600.00	598.70	582.06	580.93	3.61	3.58	112.36	-146.36	-150.42	220.09	211.95	8.14	27.040	
700.00	697.70	676.14	673.95	3.76	3.71	112.73	-160.39	-151.02	235.14	226.73	8.41	27.965	
800.00	796.69	769.59	765.85	3.94	3.88	112.52	-177.34	-151.75	252.25	243.53	8.73	28.910	
900.00	895.68	862.24	856.36	4.14	4.09	111.84	-197.08	-152.59	271.43	262.34	9.09	29.859	
1,000.00	994.67	954.66	945.97	4.36	4.34	110.80	-219.66	-153.56	292.70	283.20	9.50	30.810	
1,100.00	1,093.67	1,052.00	1,040.06	4.60	4.64	109.69	-244.58	-154.63	314.86	304.88	9.98	31.545	
1,200.00	1,192.66	1,149.34	1,134.15	4.86	4.97	108.72	-269.51	-155.69	337.13	326.63	10.50	32.115	
1,300.00	1,291.65	1,246.69	1,228.24	5.12	5.32	107.88	-294.43	-156.76	359.47	348.43	11.04	32.551	
1,400.00	1,390.64	1,344.03	1,322.33	5.40	5.69	107.13	-319.36	-157.83	381.88	370.27	11.61	32.884	
1,500.00	1,489.64	1,441.37	1,416.42	5.68	6.07	106.46	-344.28	-158.89	404.35	392.15	12.20	33.137	
1,600.00	1,588.63	1,538.71	1,510.51	5.98	6.46	105.87	-369.21	-159.96	426.86	414.05	12.81	33.321	
1,700.00	1,687.62	1,636.05	1,604.60	6.28	6.87	105.33	-394.13	-161.03	449.41	435.98	13.43	33.456	
1,800.00	1,786.61	1,733.40	1,698.70	6.58	7.28	104.85	-419.06	-162.09	472.00	457.93	14.07	33.551	
1,900.00	1,885.61	1,830.74	1,792.79	6.75	7.64	104.41	-443.98	-163.16	494.61	480.30	14.31	34.552	
2,000.00	1,984.60	1,928.08	1,886.88	6.78	7.83	104.00	-468.91	-164.23	517.25	502.94	14.32	36.132	
2,100.00	2,083.59	2,025.42	1,980.97	6.83	7.89	103.64	-493.83	-165.29	539.91	525.51	14.40	37.489	
2,200.00	2,182.58	2,122.76	2,075.06	6.89	7.98	103.30	-518.76	-166.36	562.59	548.07	14.52	38.741	
2,300.00	2,281.58	2,220.11	2,169.15	6.97	8.09	102.99	-543.68	-167.43	585.29	570.62	14.68	39.883	
2,400.00	2,380.57	2,317.45	2,263.24	7.06	8.22	102.70	-568.61	-168.49	608.01	593.15	14.86	40.914	
2,500.00	2,479.56	2,414.79	2,357.33	7.17	8.36	102.43	-593.53	-169.56	630.73	615.66	15.08	41.836	
2,600.00	2,578.55	2,512.13	2,451.42	7.28	8.52	102.18	-618.46	-170.63	653.47	638.15	15.32	42.651	
2,700.00	2,677.55	2,609.47	2,545.51	7.42	8.70	101.95	-643.38	-171.69	676.22	660.63	15.59	43.363	
2,800.00	2,776.54	2,706.82	2,639.60	7.56	8.90	101.73	-668.31	-172.76	698.99	683.09	15.89	43.979	
2,900.00	2,875.53	2,804.16	2,733.69	7.71	9.10	101.52	-693.23	-173.83	721.75	705.54	16.22	44.506	
3,000.00	2,974.52	2,901.50	2,827.79	7.88	9.32	101.33	-718.16	-174.89	744.53	727.97	16.56	44.949	
3,100.00	3,073.52	3,001.16	2,921.88	8.05	9.56	101.15	-743.08	-175.96	767.32	750.38	16.94	45.303	
3,200.00	3,172.51	3,103.81	3,015.97	8.23	9.82	100.98	-768.01	-177.03	790.11	772.77	17.34	45.569	
3,300.00	3,271.50	3,206.47	3,110.06	8.43	10.09	100.82	-792.93	-178.09	812.91	795.15	17.76	45.772	
3,400.00	3,370.49	3,309.13	3,204.15	8.63	10.37	100.67	-817.86	-179.16	835.71	817.51	18.20	45.920	
3,500.00	3,469.49	3,388.21	3,298.24	8.83	10.59	100.53	-842.78	-180.22	858.52	839.92	18.60	46.167	
3,600.00	3,568.48	3,485.55	3,392.33	9.05	10.87	100.39	-867.71	-181.29	881.33	862.28	19.05	46.259	
3,700.00	3,667.47	3,582.90	3,486.42	9.27	11.16	100.26	-892.63	-182.36	904.15	884.63	19.52	46.313	
3,800.00	3,766.46	3,680.24	3,580.51	9.50	11.46	100.14	-917.56	-183.42	926.98	906.97	20.01	46.335	
3,900.00	3,865.46	3,777.58	3,674.60	9.73	11.76	100.02	-942.48	-184.49	949.80	929.30	20.50	46.329	
4,000.00	3,964.45	3,874.92	3,768.69	9.97	12.07	99.91	-967.41	-185.56	972.63	951.62	21.01	46.299	
4,100.00	4,063.44	3,972.26	3,862.79	10.21	12.39	99.80	-992.33	-186.62	995.47	973.94	21.52	46.249	
4,200.00	4,162.43	4,069.61	3,956.88	10.46	12.71	99.70	-1,017.26	-187.69	1,018.30	996.25	22.05	46.181	
4,300.00	4,261.43	4,166.95	4,050.97	10.71	13.03	99.61	-1,042.18	-188.76	1,041.14	1,018.56	22.59	46.098	
4,400.00	4,360.42	4,264.29	4,145.06	10.97	13.36	99.51	-1,067.11	-189.82	1,063.98	1,040.85	23.13	46.003	
4,500.00	4,459.41	4,361.63	4,239.15	11.23	13.70	99.42	-1,092.03	-190.89	1,086.83	1,063.15	23.68	45.897	
4,600.00	4,558.40	4,458.97	4,333.24	11.49	14.03	99.34	-1,116.96	-191.96	1,109.67	1,085.44	24.24	45.783	
4,700.00	4,657.40	4,556.32	4,427.33	11.75	14.37	99.26	-1,141.88	-193.02	1,132.52	1,107.72	24.80	45.662	
4,800.00	4,756.39	4,653.66	4,521.42	12.02	14.72	99.18	-1,166.81	-194.09	1,155.38	1,130.00	25.37	45.535	
4,900.00	4,855.38	4,751.00	4,615.51	12.29	15.07	99.10	-1,191.73	-195.16	1,178.23	1,152.28	25.95	45.404	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-90.28	-0.73	-150.17	150.17				
100.00	100.00	101.00	101.00	3.28	3.28	-90.28	-0.73	-150.17	150.17	142.64	7.53	19.946	
200.00	200.00	201.00	201.00	3.31	3.31	-90.28	-0.73	-150.17	150.17	142.60	7.57	19.827	
300.00	299.98	300.29	300.27	3.35	3.34	149.77	-2.47	-150.39	151.92	144.26	7.65	19.847	
400.00	399.84	400.62	399.22	3.41	3.41	148.80	-7.61	-151.03	157.16	149.38	7.77	20.215	
500.00	499.45	501.01	498.60	3.50	3.49	147.93	-14.37	-151.87	165.66	157.71	7.94	20.852	
600.00	598.70	601.67	597.70	3.61	3.59	147.73	-21.10	-152.71	177.11	168.95	8.17	21.691	
700.00	697.70	702.54	696.60	3.76	3.72	147.96	-27.83	-153.55	190.24	181.81	8.43	22.567	
800.00	796.69	803.41	795.50	3.94	3.86	148.18	-34.55	-154.38	203.37	194.64	8.73	23.293	
900.00	895.68	904.27	894.40	4.14	4.03	148.37	-41.28	-155.22	216.50	207.43	9.07	23.876	
1,000.00	994.67	1,005.14	993.30	4.36	4.21	148.54	-48.00	-156.06	229.64	220.20	9.44	24.334	
1,100.00	1,093.67	1,106.01	1,092.20	4.60	4.40	148.69	-54.73	-156.90	242.78	232.94	9.83	24.687	
1,200.00	1,192.66	1,206.88	1,191.10	4.86	4.60	148.82	-61.45	-157.74	255.91	245.66	10.26	24.953	
1,300.00	1,291.65	1,307.75	1,290.00	5.12	4.82	148.94	-68.18	-158.57	269.06	258.36	10.70	25.149	
1,400.00	1,390.64	1,408.62	1,388.90	5.40	5.04	149.05	-74.90	-159.41	282.20	271.04	11.16	25.287	
1,500.00	1,489.64	1,509.49	1,487.80	5.68	5.27	149.15	-81.63	-160.25	295.34	283.70	11.64	25.379	
1,600.00	1,588.63	1,589.64	1,586.70	5.98	5.46	149.24	-88.35	-161.09	308.48	296.40	12.08	25.539	
1,700.00	1,687.62	1,688.78	1,685.60	6.28	5.70	149.33	-95.08	-161.92	321.63	309.05	12.58	25.573	
1,800.00	1,786.61	1,787.91	1,784.50	6.58	5.95	149.40	-101.80	-162.76	334.77	321.69	13.09	25.584	
1,900.00	1,885.61	1,887.04	1,883.40	6.75	6.09	149.48	-108.53	-163.60	347.92	334.93	12.99	26.784	
2,000.00	1,984.60	1,986.17	1,982.30	6.78	6.12	149.54	-115.25	-164.44	361.06	348.02	13.04	27.683	
2,100.00	2,083.59	2,085.30	2,081.20	6.83	6.15	149.60	-121.98	-165.27	374.21	361.10	13.11	28.548	
2,200.00	2,182.58	2,184.43	2,180.10	6.89	6.19	149.66	-128.70	-166.11	387.36	374.15	13.20	29.341	
2,300.00	2,281.58	2,283.56	2,279.00	6.97	6.25	149.72	-135.43	-166.95	400.50	387.18	13.32	30.062	
2,400.00	2,380.57	2,382.70	2,377.89	7.06	6.32	149.77	-142.15	-167.79	413.65	400.18	13.47	30.708	
2,500.00	2,479.56	2,481.83	2,476.79	7.17	6.40	149.81	-148.88	-168.63	426.80	413.15	13.64	31.280	
2,600.00	2,578.55	2,580.96	2,575.69	7.28	6.50	149.86	-155.60	-169.46	439.95	426.10	13.84	31.782	
2,700.00	2,677.55	2,680.09	2,674.59	7.42	6.60	149.90	-162.33	-170.30	453.09	439.03	14.06	32.214	
2,800.00	2,776.54	2,779.22	2,773.49	7.56	6.72	149.94	-169.05	-171.14	466.24	451.93	14.31	32.582	
2,900.00	2,875.53	2,878.35	2,872.39	7.71	6.84	149.98	-175.78	-171.98	479.39	464.82	14.58	32.889	
3,000.00	2,974.52	2,977.48	2,971.29	7.88	6.98	150.01	-182.50	-172.81	492.54	477.68	14.86	33.140	
3,100.00	3,073.52	3,076.61	3,070.19	8.05	7.12	150.04	-189.23	-173.65	505.69	490.52	15.17	33.340	
3,200.00	3,172.51	3,175.75	3,169.09	8.23	7.28	150.08	-195.95	-174.49	518.84	503.35	15.49	33.493	
3,300.00	3,271.50	3,274.88	3,267.99	8.43	7.44	150.11	-202.68	-175.33	531.99	516.16	15.83	33.604	
3,400.00	3,370.49	3,374.01	3,366.89	8.63	7.61	150.14	-209.40	-176.16	545.14	528.95	16.19	33.679	
3,500.00	3,469.49	3,473.14	3,465.79	8.83	7.78	150.16	-216.13	-177.00	558.29	541.73	16.56	33.720	
3,600.00	3,568.48	3,572.27	3,564.69	9.05	7.97	150.19	-222.85	-177.84	571.44	554.50	16.94	33.732	
3,700.00	3,667.47	3,671.40	3,663.59	9.27	8.15	150.21	-229.58	-178.68	584.59	567.25	17.34	33.720	
3,800.00	3,766.46	3,770.53	3,762.49	9.50	8.35	150.24	-236.30	-179.52	597.74	579.99	17.74	33.685	
3,900.00	3,865.46	3,869.67	3,861.39	9.73	8.55	150.26	-243.03	-180.35	610.89	592.72	18.16	33.632	
4,000.00	3,964.45	3,968.80	3,960.29	9.97	8.75	150.28	-249.75	-181.19	624.04	605.44	18.59	33.562	
4,100.00	4,063.44	4,067.93	4,059.18	10.21	8.96	150.30	-256.48	-182.03	637.19	618.15	19.03	33.480	
4,200.00	4,162.43	4,167.06	4,158.08	10.46	9.18	150.32	-263.20	-182.87	650.34	630.86	19.48	33.385	
4,300.00	4,261.43	4,266.19	4,256.98	10.71	9.40	150.34	-269.93	-183.70	663.49	643.55	19.94	33.282	
4,400.00	4,360.42	4,365.32	4,355.88	10.97	9.62	150.36	-276.65	-184.54	676.64	656.24	20.40	33.170	
4,500.00	4,459.41	4,464.45	4,454.78	11.23	9.84	150.38	-283.38	-185.38	689.79	668.92	20.87	33.052	
4,600.00	4,558.40	4,563.58	4,553.68	11.49	10.07	150.40	-290.10	-186.22	702.94	681.59	21.35	32.929	
4,700.00	4,657.40	4,662.72	4,652.58	11.75	10.30	150.41	-296.83	-187.05	716.09	694.26	21.83	32.802	
4,800.00	4,756.39	4,761.85	4,751.48	12.02	10.54	150.43	-303.55	-187.89	729.24	706.92	22.32	32.672	
4,900.00	4,855.38	4,860.98	4,850.38	12.29	10.77	150.45	-310.28	-188.73	742.39	719.57	22.81	32.540	
5,000.00	4,954.37	4,960.11	4,949.28	12.57	11.01	150.46	-317.00	-189.57	755.54	732.23	23.31	32.407	
5,100.00	5,053.37	5,059.24	5,048.18	12.85	11.26	150.47	-323.73	-190.40	768.69	744.87	23.82	32.272	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,152.36	5,158.37	5,147.08	13.12	11.50	150.49	-330.45	-191.24	781.84	757.51	24.33	32.138	
5,300.00	5,251.35	5,257.50	5,245.98	13.41	11.75	150.50	-337.18	-192.08	794.99	770.15	24.84	32.003	
5,400.00	5,350.34	5,356.64	5,344.88	13.69	11.99	150.51	-343.90	-192.92	808.14	782.79	25.36	31.870	
5,500.00	5,449.34	5,455.77	5,443.78	13.97	12.24	150.53	-350.63	-193.76	821.29	795.42	25.88	31.736	
5,600.00	5,548.33	5,554.90	5,542.68	14.26	12.49	150.54	-357.35	-194.59	834.45	808.04	26.40	31.604	
5,700.00	5,647.32	5,654.03	5,641.58	14.55	12.75	150.55	-364.08	-195.43	847.60	820.67	26.93	31.474	
5,800.00	5,746.31	5,753.16	5,740.47	14.84	13.00	150.56	-370.80	-196.27	860.75	833.29	27.46	31.345	
5,900.00	5,845.31	5,852.29	5,839.37	15.13	13.26	150.57	-377.53	-197.11	873.90	845.90	27.99	31.217	
6,000.00	5,944.30	5,951.42	5,938.27	15.42	13.52	150.58	-384.25	-197.94	887.05	858.52	28.53	31.092	
6,100.00	6,043.29	6,050.55	6,037.17	15.72	13.77	150.60	-390.98	-198.78	900.20	871.13	29.07	30.968	
6,200.00	6,142.28	6,149.69	6,136.07	16.01	14.03	150.61	-397.70	-199.62	913.35	883.74	29.61	30.846	
6,300.00	6,241.28	6,248.82	6,234.97	16.31	14.30	150.62	-404.43	-200.46	926.50	896.35	30.15	30.727	
6,400.00	6,340.27	7,852.78	7,169.09	16.61	21.38	158.34	-463.17	738.25	828.98	800.90	28.08	29.522	
6,500.00	6,439.26	7,865.09	7,169.10	16.90	21.52	159.47	-463.10	750.56	729.76	701.37	28.39	25.707	
6,600.00	6,538.26	7,877.33	7,169.10	17.20	21.65	159.29	-463.04	762.81	630.54	601.84	28.70	21.971	
6,700.00	6,637.86	7,880.46	7,169.10	17.38	21.69	-154.24	-463.03	765.93	530.72	501.74	28.98	18.315	
6,800.00	6,736.73	7,867.92	7,169.10	17.50	21.55	-170.33	-463.09	753.40	431.66	402.48	29.18	14.794	
6,900.00	6,832.42	7,840.04	7,169.09	17.58	21.24	-175.66	-463.23	725.51	335.79	306.50	29.30	11.461	
7,000.00	6,922.59	7,802.51	7,169.08	17.62	20.82	-178.54	-463.44	682.97	245.51	216.14	29.37	8.360	
7,100.00	7,005.01	7,741.33	7,169.06	17.63	20.19	178.73	-463.73	626.80	163.07	133.69	29.37	5.551	
7,200.00	7,077.65	7,672.93	7,169.04	17.64	19.51	174.13	-464.07	558.41	90.65	61.18	29.47	3.076	
7,300.00	7,138.73	7,606.01	7,169.01	17.64	18.88	156.66	-464.47	479.47	31.17	0.40	30.76	1.013 Level 2	
7,355.96	7,167.29	7,550.44	7,169.00	17.67	18.41	93.73	-464.71	431.41	12.37	-23.67	36.04	0.343 Level 1, CC, ES, SF	
7,400.00	7,186.74	7,507.75	7,167.70	17.69	18.06	37.52	-464.81	393.26	24.22	-6.46	30.67	0.790 Level 1	
7,500.00	7,220.49	7,424.54	7,157.02	17.80	17.46	15.08	-464.50	310.80	67.67	37.96	29.71	2.278	
7,600.00	7,239.17	7,345.29	7,136.95	18.02	16.98	10.30	-463.53	234.19	110.28	80.07	30.22	3.650	
7,700.00	7,243.00	7,269.36	7,108.96	18.40	16.66	8.38	-461.98	163.67	150.60	119.71	30.89	4.875	
7,800.00	7,242.97	7,200.00	7,076.24	18.96	16.47	7.37	-460.07	102.58	197.79	166.17	31.62	6.256	
7,900.00	7,242.95	7,138.90	7,042.07	19.67	16.34	6.69	-458.00	52.00	253.78	221.48	32.30	7.858	
8,000.00	7,242.92	7,085.39	7,008.30	20.51	16.23	6.22	-455.92	10.57	317.01	284.12	32.89	9.638	
8,100.00	7,242.89	7,038.82	6,976.16	21.45	16.14	5.89	-453.90	-23.07	386.14	352.75	33.39	11.564	
8,200.00	7,242.87	7,000.00	6,947.56	22.48	16.06	5.66	-452.09	-49.24	460.05	426.23	33.82	13.604	
8,300.00	7,242.84	6,963.09	6,918.94	23.59	15.99	5.48	-450.26	-72.47	537.83	503.68	34.15	15.748	
8,400.00	7,242.82	6,932.30	6,894.07	24.76	15.92	5.35	-448.66	-90.55	618.76	584.33	34.43	17.971	
8,500.00	7,242.79	6,900.00	6,867.08	25.98	15.86	5.22	-446.92	-108.19	702.32	667.66	34.66	20.264	
8,600.00	7,242.77	6,881.50	6,851.23	27.25	15.82	5.16	-445.89	-117.68	787.92	753.06	34.85	22.606	
8,700.00	7,242.74	6,850.00	6,823.63	28.56	15.75	5.06	-444.09	-132.74	875.47	840.45	35.02	24.997	
8,800.00	7,242.71	6,850.00	6,823.63	29.91	15.75	5.06	-444.09	-132.74	964.29	929.16	35.14	27.444	
8,900.00	7,242.69	6,824.92	6,801.14	31.29	15.70	4.99	-442.62	-143.75	1,054.33	1,019.06	35.27	29.897	
9,000.00	7,242.66	6,800.00	6,778.39	32.69	15.64	4.93	-441.12	-153.80	1,145.62	1,110.24	35.39	32.373	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-97.89	-20.77	-149.89	151.32					
100.00	100.00	101.00	101.00	3.28	3.28	-97.89	-20.77	-149.89	151.32	143.80	7.53	20.099		
200.00	200.00	201.00	201.00	3.31	3.31	-97.89	-20.77	-149.89	151.32	143.75	7.57	19.979 CC		
300.00	299.98	299.72	299.70	3.35	3.34	142.25	-22.50	-150.07	153.12	145.47	7.65	20.006		
400.00	399.84	398.24	398.08	3.41	3.40	141.53	-27.59	-150.58	158.52	150.75	7.77	20.395		
500.00	499.45	502.97	496.53	3.50	3.49	140.53	-35.73	-151.40	167.45	159.50	7.95	21.067		
600.00	598.70	603.67	595.44	3.61	3.60	140.15	-44.43	-152.28	179.21	171.04	8.17	21.924		
700.00	697.70	704.56	694.17	3.76	3.73	140.32	-53.11	-153.15	192.49	184.04	8.45	22.787		
800.00	796.69	805.45	792.90	3.94	3.89	140.47	-61.79	-154.02	205.77	197.01	8.76	23.492		
900.00	895.68	906.33	891.63	4.14	4.06	140.61	-70.47	-154.90	219.06	209.95	9.11	24.047		
1,000.00	994.67	1,007.22	990.35	4.36	4.25	140.73	-79.15	-155.77	232.34	222.85	9.49	24.474		
1,100.00	1,093.67	1,108.11	1,089.08	4.60	4.45	140.84	-87.83	-156.65	245.63	235.73	9.91	24.794		
1,200.00	1,192.66	1,209.00	1,187.81	4.86	4.67	140.94	-96.51	-157.52	258.92	248.58	10.35	25.027		
1,300.00	1,291.65	1,309.89	1,286.54	5.12	4.89	141.02	-105.19	-158.39	272.21	261.40	10.81	25.190		
1,400.00	1,390.64	1,389.23	1,385.26	5.40	5.08	141.10	-113.87	-159.27	285.50	274.27	11.24	25.411		
1,500.00	1,489.64	1,488.34	1,483.99	5.68	5.32	141.18	-122.55	-160.14	298.79	287.07	11.73	25.482		
1,600.00	1,588.63	1,587.45	1,582.72	5.98	5.56	141.24	-131.23	-161.02	312.08	299.85	12.23	25.517		
1,700.00	1,687.62	1,686.56	1,681.45	6.28	5.81	141.30	-139.91	-161.89	325.37	312.63	12.75	25.525		
1,800.00	1,786.61	1,785.68	1,780.17	6.58	6.07	141.36	-148.60	-162.76	338.67	325.39	13.28	25.510		
1,900.00	1,885.61	1,884.79	1,878.90	6.75	6.22	141.41	-157.28	-163.64	351.96	338.76	13.20	26.673		
2,000.00	1,984.60	1,983.90	1,977.63	6.78	6.26	141.46	-165.96	-164.51	365.25	351.99	13.26	27.552		
2,100.00	2,083.59	2,083.01	2,076.36	6.83	6.30	141.50	-174.64	-165.39	378.54	365.21	13.33	28.403		
2,200.00	2,182.58	2,182.12	2,175.08	6.89	6.34	141.55	-183.32	-166.26	391.83	378.41	13.43	29.182		
2,300.00	2,281.58	2,281.24	2,273.81	6.97	6.40	141.58	-192.00	-167.14	405.13	391.57	13.55	29.888		
2,400.00	2,380.57	2,380.35	2,372.54	7.06	6.48	141.62	-200.68	-168.01	418.42	404.71	13.71	30.520		
2,500.00	2,479.56	2,479.46	2,471.27	7.17	6.57	141.66	-209.36	-168.88	431.71	417.82	13.89	31.079		
2,600.00	2,578.55	2,578.57	2,569.99	7.28	6.66	141.69	-218.04	-169.76	445.01	430.91	14.10	31.568		
2,700.00	2,677.55	2,677.69	2,668.72	7.42	6.77	141.72	-226.72	-170.63	458.30	443.97	14.33	31.988		
2,800.00	2,776.54	2,776.80	2,767.45	7.56	6.90	141.75	-235.40	-171.51	471.59	457.01	14.58	32.345		
2,900.00	2,875.53	2,875.91	2,866.18	7.71	7.03	141.77	-244.08	-172.38	484.89	470.03	14.85	32.642		
3,000.00	2,974.52	2,975.02	2,964.90	7.88	7.17	141.80	-252.76	-173.25	498.18	483.03	15.15	32.883		
3,100.00	3,073.52	3,074.13	3,063.63	8.05	7.32	141.82	-261.44	-174.13	511.48	496.01	15.46	33.075		
3,200.00	3,172.51	3,173.25	3,162.36	8.23	7.48	141.85	-270.12	-175.00	524.77	508.97	15.80	33.220		
3,300.00	3,271.50	3,272.36	3,261.09	8.43	7.65	141.87	-278.80	-175.88	538.06	521.92	16.15	33.325		
3,400.00	3,370.49	3,371.47	3,359.81	8.63	7.82	141.89	-287.48	-176.75	551.36	534.85	16.51	33.394		
3,500.00	3,469.49	3,470.58	3,458.54	8.83	8.01	141.91	-296.16	-177.62	564.65	547.76	16.89	33.430		
3,600.00	3,568.48	3,569.70	3,557.27	9.05	8.20	141.93	-304.84	-178.50	577.95	560.66	17.28	33.439		
3,700.00	3,667.47	3,668.81	3,656.00	9.27	8.39	141.95	-313.52	-179.37	591.24	573.55	17.69	33.423		
3,800.00	3,766.46	3,767.92	3,754.72	9.50	8.59	141.96	-322.20	-180.25	604.53	586.43	18.11	33.385		
3,900.00	3,865.46	3,867.03	3,853.45	9.73	8.80	141.98	-330.88	-181.12	617.83	599.29	18.54	33.330		
4,000.00	3,964.45	3,966.14	3,952.18	9.97	9.01	142.00	-339.57	-182.00	631.12	612.15	18.98	33.259		
4,100.00	4,063.44	4,065.26	4,050.91	10.21	9.23	142.01	-348.25	-182.87	644.42	624.99	19.43	33.175		
4,200.00	4,162.43	4,164.37	4,149.63	10.46	9.45	142.03	-356.93	-183.74	657.71	637.83	19.88	33.079		
4,300.00	4,261.43	4,263.48	4,248.36	10.71	9.68	142.04	-365.61	-184.62	671.01	650.66	20.35	32.975		
4,400.00	4,360.42	4,362.59	4,347.09	10.97	9.91	142.05	-374.29	-185.49	684.30	663.48	20.82	32.863		
4,500.00	4,459.41	4,461.70	4,445.82	11.23	10.14	142.07	-382.97	-186.37	697.60	676.29	21.30	32.745		
4,600.00	4,558.40	4,560.82	4,544.54	11.49	10.38	142.08	-391.65	-187.24	710.89	689.10	21.79	32.623		
4,700.00	4,657.40	4,659.93	4,643.27	11.75	10.61	142.09	-400.33	-188.11	724.19	701.90	22.29	32.496		
4,800.00	4,756.39	4,759.04	4,742.00	12.02	10.86	142.10	-409.01	-188.99	737.48	714.70	22.78	32.367		
4,900.00	4,855.38	4,858.15	4,840.73	12.29	11.10	142.11	-417.69	-189.86	750.78	727.49	23.29	32.236		
5,000.00	4,954.37	4,957.27	4,939.45	12.57	11.35	142.12	-426.37	-190.74	764.07	740.27	23.80	32.103		
5,100.00	5,053.37	5,056.38	5,038.18	12.85	11.60	142.13	-435.05	-191.61	777.37	753.05	24.32	31.970		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft		
Reference		Offset		Semi Major Axis		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,200.00	5,152.36	5,155.49	5,136.91	13.12	11.85	142.14	-443.73	-192.49	790.66	765.83	24.83	31.837			
5,300.00	5,251.35	5,254.60	5,235.64	13.41	12.10	142.15	-452.41	-193.36	803.96	778.60	25.36	31.703			
5,400.00	5,350.34	5,353.71	5,334.36	13.69	12.36	142.16	-461.09	-194.23	817.25	791.36	25.89	31.571			
5,500.00	5,449.34	5,452.83	5,433.09	13.97	12.62	142.17	-469.77	-195.11	830.55	804.13	26.42	31.439			
5,600.00	5,548.33	5,551.94	5,531.82	14.26	12.88	142.18	-478.45	-195.98	843.84	816.89	26.95	31.308			
5,700.00	5,647.32	5,651.05	5,630.54	14.55	13.14	142.19	-487.13	-196.86	857.14	829.64	27.49	31.179			
5,800.00	5,746.31	5,750.16	5,729.27	14.84	13.40	142.20	-495.81	-197.73	870.43	842.40	28.03	31.051			
5,900.00	5,845.31	5,849.28	5,828.00	15.13	13.66	142.21	-504.49	-198.60	883.73	855.15	28.58	30.925			
6,000.00	5,944.30	5,948.39	5,926.73	15.42	13.93	142.21	-513.17	-199.48	897.02	867.90	29.12	30.801			
6,100.00	6,043.29	6,047.50	6,025.45	15.72	14.20	142.22	-521.85	-200.35	910.32	880.64	29.67	30.679			
6,200.00	6,142.28	6,146.61	6,124.18	16.01	14.46	142.23	-530.54	-201.23	923.61	893.39	30.22	30.559			
6,300.00	6,241.28	6,245.72	6,222.91	16.31	14.73	142.24	-539.22	-202.10	936.91	906.13	30.78	30.440			
6,400.00	6,340.27	7,927.20	7,234.53	16.61	21.82	96.30	-642.45	733.33	920.70	892.20	28.50	32.305			
6,500.00	6,439.26	7,939.79	7,234.55	16.90	21.96	93.24	-642.65	745.92	823.22	794.33	28.89	28.499			
6,600.00	6,538.26	7,952.32	7,234.58	17.20	22.10	84.36	-642.84	758.45	726.19	696.88	29.31	24.775			
6,700.00	6,637.86	7,955.73	7,234.58	17.38	22.14	-42.61	-642.89	761.85	629.20	599.46	29.75	21.153			
6,800.00	6,736.73	7,943.48	7,234.56	17.50	22.00	-102.83	-642.70	749.60	533.87	503.70	30.17	17.696			
6,900.00	6,832.42	7,915.87	7,234.51	17.58	21.69	-120.61	-642.28	722.00	443.08	412.47	30.61	14.473			
7,000.00	6,922.59	7,873.58	7,234.44	17.62	21.25	-126.61	-641.63	679.71	359.89	328.72	31.16	11.548			
7,100.00	7,005.01	7,817.66	7,234.34	17.63	20.67	-126.64	-640.78	623.80	287.56	255.65	31.91	9.010			
7,200.00	7,077.65	7,749.48	7,234.22	17.64	20.02	-122.30	-639.74	555.62	229.53	196.57	32.96	6.964			
7,300.00	7,138.73	7,670.72	7,234.09	17.64	19.31	-114.27	-638.53	476.87	188.70	154.53	34.17	5.522			
7,400.00	7,186.74	7,579.25	7,232.43	17.69	18.59	-102.85	-637.00	385.46	164.95	129.75	35.20	4.686			
7,500.00	7,220.49	7,485.93	7,219.12	17.80	17.97	-88.42	-634.44	293.21	153.97	118.27	35.70	4.313			
7,531.07	7,227.94	7,458.23	7,212.59	17.86	17.82	-83.73	-633.45	266.31	153.31	117.62	35.69	4.296 ES, SF			
7,600.00	7,239.17	7,398.62	7,194.63	18.02	17.56	-73.48	-631.01	209.54	156.41	121.01	35.41	4.418			
7,700.00	7,243.00	7,316.27	7,161.29	18.40	17.30	-60.31	-626.94	134.42	170.59	135.70	34.89	4.890			
7,800.00	7,242.97	7,242.66	7,123.53	18.96	17.13	-49.48	-622.66	71.43	198.78	164.22	34.56	5.751			
7,900.00	7,242.95	7,179.08	7,085.26	19.67	16.99	-40.78	-618.53	20.86	242.07	207.51	34.56	7.005			
8,000.00	7,242.92	7,124.63	7,048.62	20.51	16.88	-34.28	-614.69	-19.21	297.73	262.97	34.76	8.565			
8,100.00	7,242.89	7,078.13	7,014.72	21.45	16.78	-29.51	-611.23	-50.85	362.70	327.66	35.04	10.351			
8,200.00	7,242.87	7,038.34	6,983.96	22.48	16.70	-25.98	-608.14	-75.88	434.53	399.23	35.31	12.307			
8,300.00	7,242.84	7,000.00	6,952.89	23.59	16.62	-23.02	-605.07	-98.12	511.51	475.98	35.53	14.397			
8,400.00	7,242.82	6,974.67	6,931.65	24.76	16.56	-21.28	-602.99	-111.78	592.31	556.56	35.74	16.571			
8,500.00	7,242.79	6,950.00	6,910.47	25.98	16.51	-19.73	-600.94	-124.24	676.14	640.23	35.91	18.829			
8,600.00	7,242.77	6,926.63	6,889.97	27.25	16.46	-18.39	-598.97	-135.28	762.34	726.29	36.04	21.151			
8,700.00	7,242.74	6,900.00	6,866.13	28.56	16.40	-16.98	-596.69	-146.93	850.49	814.34	36.16	23.523			
8,800.00	7,242.71	6,900.00	6,866.13	29.91	16.40	-16.98	-596.69	-146.93	940.20	903.97	36.23	25.948			
8,900.00	7,242.69	6,873.99	6,842.40	31.29	16.34	-15.74	-594.44	-157.34	1,030.95	994.62	36.32	28.381			
9,000.00	7,242.66	6,850.00	6,820.15	32.69	16.29	-14.69	-592.35	-166.06	1,123.01	1,086.60	36.41	30.842			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	40.07	-0.28	40.07				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	40.07	-0.28	40.07	32.54	7.53	5.323	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	40.07	-0.28	40.07	32.50	7.57	5.291	CC
300.00	299.98	300.45	300.43	3.35	3.35	-119.78	39.52	1.39	40.39	32.73	7.66	5.275	
400.00	399.84	400.89	400.72	3.41	3.41	-119.14	37.87	6.41	41.33	33.55	7.78	5.314	
500.00	499.45	501.31	500.75	3.50	3.50	-118.14	35.13	14.76	42.91	34.96	7.95	5.398	
600.00	598.70	601.56	600.27	3.61	3.62	-117.13	31.37	26.21	45.21	37.02	8.18	5.526	
700.00	697.70	701.51	699.41	3.76	3.76	-117.53	27.39	38.30	48.21	39.74	8.47	5.693	
800.00	796.69	801.47	798.55	3.94	3.94	-117.89	23.41	50.40	51.22	42.42	8.80	5.818	
900.00	895.68	901.42	897.69	4.14	4.13	-118.22	19.43	62.50	54.23	45.05	9.18	5.907	
1,000.00	994.67	1,001.37	996.83	4.36	4.34	-118.51	15.45	74.60	57.25	47.66	9.59	5.968	
1,100.00	1,093.67	1,101.33	1,095.97	4.60	4.56	-118.77	11.48	86.70	60.26	50.23	10.04	6.004	
1,200.00	1,192.66	1,201.28	1,195.11	4.86	4.80	-119.00	7.50	98.79	63.28	52.77	10.51	6.023	
1,300.00	1,291.65	1,301.24	1,294.25	5.12	5.06	-119.22	3.52	110.89	66.30	55.30	11.00	6.027	
1,400.00	1,390.64	1,401.19	1,393.39	5.40	5.32	-119.41	-0.46	122.99	69.32	57.80	11.51	6.021	
1,500.00	1,489.64	1,501.15	1,492.53	5.68	5.59	-119.59	-4.43	135.09	72.34	60.29	12.04	6.007	
1,600.00	1,588.63	1,601.10	1,591.67	5.98	5.86	-119.76	-8.41	147.19	75.36	62.77	12.58	5.988	
1,700.00	1,687.62	1,701.05	1,690.81	6.28	6.15	-119.91	-12.39	159.28	78.38	65.23	13.14	5.964	
1,800.00	1,786.61	1,801.01	1,789.95	6.58	6.44	-120.05	-16.37	171.38	81.40	67.69	13.71	5.938	
1,900.00	1,885.61	1,900.96	1,889.09	6.75	6.59	-120.18	-20.34	183.48	84.42	70.79	13.63	6.194	
2,000.00	1,984.60	2,000.92	1,988.23	6.78	6.62	-120.31	-24.32	195.58	87.44	73.76	13.68	6.390	
2,100.00	2,083.59	2,100.87	2,087.37	6.83	6.66	-120.42	-28.30	207.68	90.46	76.70	13.77	6.571	
2,200.00	2,182.58	2,200.82	2,186.51	6.89	6.72	-120.53	-32.28	219.78	93.48	79.61	13.88	6.736	
2,300.00	2,281.58	2,300.78	2,285.65	6.97	6.80	-120.63	-36.26	231.87	96.51	82.49	14.02	6.884	
2,400.00	2,380.57	2,400.73	2,384.78	7.06	6.88	-120.72	-40.23	243.97	99.53	85.34	14.19	7.016	
2,500.00	2,479.56	2,500.69	2,483.92	7.17	6.98	-120.81	-44.21	256.07	102.55	88.17	14.38	7.132	
2,600.00	2,578.55	2,600.64	2,583.06	7.28	7.09	-120.89	-48.19	268.17	105.58	90.98	14.60	7.232	
2,700.00	2,677.55	2,700.60	2,682.20	7.42	7.22	-120.97	-52.17	280.27	108.60	93.76	14.84	7.318	
2,800.00	2,776.54	2,800.55	2,781.34	7.56	7.35	-121.04	-56.14	292.36	111.62	96.52	15.11	7.390	
2,900.00	2,875.53	2,900.50	2,880.48	7.71	7.50	-121.11	-60.12	304.46	114.65	99.26	15.39	7.449	
3,000.00	2,974.52	3,000.46	2,979.62	7.88	7.66	-121.18	-64.10	316.56	117.67	101.97	15.70	7.496	
3,100.00	3,073.52	3,100.41	3,078.76	8.05	7.82	-121.24	-68.08	328.66	120.70	104.67	16.02	7.532	
3,200.00	3,172.51	3,200.37	3,177.90	8.23	8.00	-121.30	-72.05	340.76	123.72	107.35	16.37	7.558	
3,300.00	3,271.50	3,300.32	3,277.04	8.43	8.18	-121.36	-76.03	352.85	126.75	110.02	16.73	7.576	
3,400.00	3,370.49	3,400.27	3,376.18	8.63	8.37	-121.42	-80.01	364.95	129.77	112.67	17.11	7.587	
3,500.00	3,469.49	3,500.23	3,475.32	8.83	8.57	-121.47	-83.99	377.05	132.80	115.30	17.50	7.590	
3,600.00	3,568.48	3,600.18	3,574.46	9.05	8.78	-121.52	-87.96	389.15	135.82	117.92	17.90	7.588	
3,700.00	3,667.47	3,700.14	3,673.60	9.27	8.99	-121.57	-91.94	401.25	138.85	120.53	18.32	7.580	
3,800.00	3,766.46	3,800.09	3,772.74	9.50	9.21	-121.61	-95.92	413.35	141.87	123.13	18.75	7.568	
3,900.00	3,865.46	3,900.05	3,871.88	9.73	9.43	-121.65	-99.90	425.44	144.90	125.71	19.19	7.553	
4,000.00	3,964.45	4,000.00	3,971.02	9.97	9.66	-121.70	-103.88	437.54	147.92	128.29	19.63	7.534	
4,100.00	4,063.44	4,100.05	4,070.16	10.21	9.89	-121.74	-107.85	449.64	150.95	130.85	20.09	7.512	
4,200.00	4,162.43	4,200.09	4,169.30	10.46	10.13	-121.78	-111.83	461.74	153.97	133.41	20.56	7.488	
4,300.00	4,261.43	4,300.14	4,268.44	10.71	10.37	-121.81	-115.81	473.84	157.00	135.96	21.04	7.462	
4,400.00	4,360.42	4,400.18	4,367.58	10.97	10.62	-121.85	-119.79	485.93	160.02	138.50	21.52	7.435	
4,500.00	4,459.41	4,500.23	4,466.72	11.23	10.87	-121.88	-123.76	498.03	163.05	141.04	22.01	7.406	
4,600.00	4,558.40	4,600.28	4,565.85	11.49	11.12	-121.92	-127.74	510.13	166.08	143.56	22.51	7.377	
4,700.00	4,657.40	4,700.32	4,664.99	11.75	11.38	-121.95	-131.72	522.23	169.10	146.09	23.02	7.347	
4,800.00	4,756.39	4,800.37	4,764.13	12.02	11.64	-121.98	-135.70	534.33	172.13	148.60	23.53	7.316	
4,900.00	4,855.38	4,900.41	4,863.27	12.29	11.90	-122.01	-139.67	546.42	175.15	151.11	24.04	7.285	
5,000.00	4,954.37	5,000.46	4,962.41	12.57	12.16	-122.04	-143.65	558.52	178.18	153.62	24.56	7.254	
5,100.00	5,053.37	5,100.50	5,061.55	12.85	12.43	-122.07	-147.63	570.62	181.21	156.12	25.09	7.223	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,152.36	5,200.55	5,160.69	13.12	12.70	-122.09	-151.61	582.72	184.23	158.61	25.62	7.192	
5,300.00	5,251.35	5,300.60	5,259.83	13.41	12.97	-122.12	-155.59	594.82	187.26	161.11	26.15	7.161	
5,400.00	5,350.34	5,400.64	5,358.97	13.69	13.24	-122.14	-159.56	606.92	190.28	163.59	26.69	7.130	
5,500.00	5,449.34	5,500.69	5,458.11	13.97	13.52	-122.17	-163.54	619.01	193.31	166.08	27.23	7.099	
5,600.00	5,548.33	5,600.73	5,557.25	14.26	13.79	-122.19	-167.52	631.11	196.34	168.56	27.78	7.069	
5,700.00	5,647.32	5,700.78	5,656.39	14.55	14.07	-122.22	-171.50	643.21	199.36	171.04	28.32	7.039	
5,800.00	5,746.31	5,800.83	5,755.53	14.84	14.35	-122.24	-175.47	655.31	202.39	173.51	28.87	7.009	
5,900.00	5,845.31	5,899.13	5,854.67	15.13	14.63	-122.26	-179.45	667.41	205.42	175.99	29.42	6.981	
6,000.00	5,944.30	6,000.92	5,953.81	15.42	14.92	-122.28	-183.43	679.50	208.44	178.46	29.99	6.951	
6,100.00	6,043.29	6,100.96	6,052.95	15.72	15.20	-122.30	-187.41	691.60	211.47	180.92	30.55	6.923	
6,200.00	6,142.28	6,201.01	6,152.09	16.01	15.49	-122.32	-191.38	703.70	214.49	183.39	31.11	6.895	
6,300.00	6,241.28	6,301.05	6,251.23	16.31	15.77	-122.34	-195.36	715.80	217.52	185.85	31.67	6.868	
6,400.00	6,340.27	6,401.10	6,350.37	16.61	16.06	-122.36	-199.34	727.90	220.55	188.31	32.24	6.841	
6,500.00	6,439.26	6,501.15	6,449.51	16.90	16.35	-122.38	-203.32	739.99	223.57	190.77	32.81	6.815	
6,600.00	6,538.26	6,601.19	6,548.65	17.20	16.64	-125.35	-207.29	752.09	226.60	193.22	33.37	6.790	
6,700.00	6,637.86	6,698.25	6,647.28	17.38	16.92	145.58	-211.25	764.13	229.37	195.42	33.94	6.757	
6,800.00	6,736.73	6,797.68	6,746.41	17.50	17.12	112.46	-215.21	768.97	232.86	198.40	34.47	6.756	
6,900.00	6,832.42	6,899.93	6,847.86	17.58	17.25	108.37	-219.23	757.80	237.52	202.71	34.81	6.823	
7,000.00	6,922.59	7,005.22	6,949.07	17.62	17.33	108.73	-223.19	729.50	243.08	208.09	34.99	6.948	
7,100.00	7,005.01	7,113.65	7,046.96	17.63	17.37	110.24	-226.98	683.33	249.17	214.17	35.00	7.120	
7,200.00	7,077.65	7,225.21	7,138.02	17.64	17.39	111.99	-230.45	619.21	255.33	220.44	34.90	7.317	
7,300.00	7,138.73	7,339.75	7,218.41	17.64	17.42	113.62	-233.46	537.90	261.09	226.31	34.78	7.506	
7,400.00	7,186.74	7,456.90	7,284.24	17.69	17.49	114.95	-235.85	441.22	265.97	231.17	34.80	7.642	
7,500.00	7,220.49	7,576.14	7,331.93	17.80	17.67	115.88	-237.48	332.14	269.57	234.47	35.10	7.680	
7,600.00	7,239.17	7,696.74	7,358.68	18.02	18.01	116.36	-238.27	214.73	271.58	235.81	35.77	7.592	
7,700.00	7,243.00	7,810.97	7,364.04	18.40	18.49	116.43	-238.21	100.73	271.98	235.20	36.78	7.394	
7,800.00	7,242.97	7,910.97	7,364.17	18.96	19.07	116.45	-237.97	0.73	272.09	234.11	37.97	7.165	
7,900.00	7,242.95	8,010.97	7,364.30	19.67	19.79	116.48	-237.74	-99.27	272.20	232.82	39.37	6.913	
8,000.00	7,242.92	8,110.97	7,364.42	20.51	20.62	116.50	-237.50	-199.27	272.31	231.34	40.96	6.648	
8,100.00	7,242.89	8,210.97	7,364.55	21.45	21.55	116.53	-237.26	-299.27	272.41	229.70	42.71	6.378	
8,200.00	7,242.87	8,310.97	7,364.68	22.48	22.57	116.55	-237.03	-399.27	272.52	227.91	44.61	6.109	
8,300.00	7,242.84	8,410.97	7,364.81	23.59	23.67	116.57	-236.79	-499.27	272.63	225.99	46.64	5.845	
8,400.00	7,242.82	8,510.97	7,364.94	24.76	24.83	116.60	-236.56	-599.27	272.74	223.96	48.78	5.591	
8,500.00	7,242.79	8,610.97	7,365.06	25.98	26.05	116.62	-236.32	-699.27	272.85	221.83	51.01	5.349	
8,600.00	7,242.77	8,710.97	7,365.19	27.25	27.31	116.65	-236.09	-799.26	272.96	219.62	53.33	5.118	
8,700.00	7,242.74	8,810.97	7,365.32	28.56	28.62	116.67	-235.85	-899.26	273.06	217.34	55.73	4.900	
8,800.00	7,242.71	8,910.97	7,365.45	29.91	29.96	116.70	-235.62	-999.26	273.17	214.99	58.19	4.695	
8,900.00	7,242.69	9,010.97	7,365.58	31.29	31.34	116.72	-235.38	-1,099.26	273.28	212.58	60.70	4.502	
9,000.00	7,242.66	9,110.97	7,365.71	32.69	32.74	116.75	-235.15	-1,199.26	273.39	210.13	63.26	4.321	
9,100.00	7,242.64	9,210.97	7,365.83	34.12	34.17	116.77	-234.91	-1,299.26	273.50	207.63	65.87	4.152	
9,200.00	7,242.61	9,310.97	7,365.96	35.57	35.62	116.80	-234.68	-1,399.26	273.61	205.09	68.52	3.993	
9,300.00	7,242.59	9,410.97	7,366.09	37.04	37.08	116.82	-234.44	-1,499.26	273.72	202.52	71.20	3.844	
9,400.00	7,242.56	9,510.97	7,366.22	38.53	38.57	116.85	-234.21	-1,599.26	273.82	199.92	73.91	3.705	
9,500.00	7,242.53	9,610.97	7,366.35	40.03	40.07	116.87	-233.97	-1,699.26	273.93	197.29	76.64	3.574	
9,600.00	7,242.51	9,710.97	7,366.47	41.54	41.58	116.90	-233.74	-1,799.26	274.04	194.64	79.40	3.451	
9,700.00	7,242.48	9,810.97	7,366.60	43.07	43.10	116.92	-233.50	-1,899.26	274.15	191.97	82.19	3.336	
9,800.00	7,242.46	9,910.97	7,366.73	44.60	44.63	116.94	-233.27	-1,999.26	274.26	189.27	84.99	3.227	
9,900.00	7,242.43	10,010.97	7,366.86	46.14	46.18	116.97	-233.03	-2,099.26	274.37	186.56	87.81	3.125	
10,000.00	7,242.41	10,110.97	7,366.99	47.70	47.73	116.99	-232.80	-2,199.26	274.48	183.84	90.64	3.028	
10,100.00	7,242.38	10,210.97	7,367.11	49.26	49.29	117.02	-232.56	-2,299.26	274.59	181.10	93.49	2.937	
10,200.00	7,242.35	10,310.96	7,367.24	50.83	50.86	117.04	-232.33	-2,399.26	274.70	178.35	96.35	2.851	
10,300.00	7,242.33	10,410.96	7,367.37	52.40	52.43	117.07	-232.09	-2,499.26	274.81	175.59	99.22	2.770	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	7,242.30	10,510.96	7,367.50	53.98	54.01	117.09	-231.86	-2,599.26	274.92	172.81	102.10	2.693	
10,500.00	7,242.28	10,610.96	7,367.63	55.57	55.59	117.11	-231.62	-2,699.26	275.02	170.03	104.99	2.619	
10,600.00	7,242.25	10,710.96	7,367.76	57.16	57.18	117.14	-231.39	-2,799.26	275.13	167.24	107.89	2.550	
10,700.00	7,242.23	10,810.96	7,367.88	58.75	58.78	117.16	-231.15	-2,899.25	275.24	164.44	110.80	2.484	
10,800.00	7,242.20	10,910.96	7,368.01	60.35	60.38	117.19	-230.92	-2,999.25	275.35	161.64	113.72	2.421	
10,900.00	7,242.17	11,010.96	7,368.14	61.95	61.98	117.21	-230.68	-3,099.25	275.46	158.82	116.64	2.362	
11,000.00	7,242.15	11,110.96	7,368.27	63.56	63.59	117.24	-230.45	-3,199.25	275.57	156.00	119.57	2.305	
11,100.00	7,242.12	11,210.96	7,368.40	65.17	65.19	117.26	-230.21	-3,299.25	275.68	153.18	122.50	2.250	
11,200.00	7,242.10	11,310.96	7,368.52	66.78	66.81	117.28	-229.97	-3,399.25	275.79	150.35	125.44	2.199	
11,300.00	7,242.07	11,410.96	7,368.65	68.40	68.42	117.31	-229.74	-3,499.25	275.90	147.52	128.38	2.149	
11,400.00	7,242.05	11,510.96	7,368.78	70.01	70.04	117.33	-229.50	-3,599.25	276.01	144.68	131.33	2.102	
11,500.00	7,242.02	11,610.96	7,368.91	71.63	71.66	117.36	-229.27	-3,699.25	276.12	141.84	134.28	2.056	
11,600.00	7,241.99	11,710.96	7,369.04	73.26	73.28	117.38	-229.03	-3,799.25	276.23	138.99	137.24	2.013	
11,700.00	7,241.97	11,810.96	7,369.17	74.88	74.91	117.41	-228.80	-3,899.25	276.34	136.15	140.20	1.971	
11,800.00	7,241.94	11,910.96	7,369.29	76.51	76.53	117.43	-228.56	-3,999.25	276.45	133.29	143.16	1.931	
11,900.00	7,241.92	12,010.96	7,369.42	78.14	78.16	117.45	-228.33	-4,099.25	276.56	130.44	146.12	1.893	
12,000.00	7,241.89	12,110.96	7,369.55	79.77	79.79	117.48	-228.09	-4,199.25	276.67	127.58	149.09	1.856	
12,100.00	7,241.87	12,210.96	7,369.68	81.40	81.43	117.50	-227.86	-4,299.25	276.78	124.72	152.06	1.820	
12,200.00	7,241.84	12,310.96	7,369.81	83.03	83.06	117.53	-227.62	-4,399.25	276.89	121.86	155.03	1.786	
12,300.00	7,241.82	12,410.96	7,369.93	84.67	84.70	117.55	-227.39	-4,499.25	277.00	119.00	158.00	1.753	
12,400.00	7,241.79	12,510.96	7,370.06	86.31	86.33	117.57	-227.15	-4,599.25	277.11	116.13	160.98	1.721	
12,500.00	7,241.76	12,610.96	7,370.19	87.94	87.97	117.60	-226.92	-4,699.25	277.22	113.27	163.95	1.691	
12,600.00	7,241.74	12,710.96	7,370.32	89.58	89.61	117.62	-226.68	-4,799.25	277.33	110.40	166.93	1.661	
12,700.00	7,241.71	12,810.96	7,370.45	91.22	91.25	117.65	-226.45	-4,899.24	277.44	107.53	169.91	1.633	
12,800.00	7,241.69	12,910.96	7,370.58	92.87	92.89	117.67	-226.21	-4,999.24	277.55	104.66	172.89	1.605	
12,900.00	7,241.66	13,010.96	7,370.70	94.51	94.53	117.69	-225.98	-5,099.24	277.66	101.79	175.88	1.579	
13,000.00	7,241.64	13,110.96	7,370.83	96.15	96.18	117.72	-225.74	-5,199.24	277.77	98.91	178.86	1.553	
13,100.00	7,241.61	13,210.96	7,370.96	97.80	97.82	117.74	-225.51	-5,299.24	277.89	96.04	181.85	1.528	
13,200.00	7,241.58	13,310.96	7,371.09	99.44	99.47	117.77	-225.27	-5,399.24	278.00	93.16	184.83	1.504	
13,300.00	7,241.56	13,410.96	7,371.22	101.09	101.11	117.79	-225.04	-5,499.24	278.11	90.29	187.82	1.481 Level 3	
13,400.00	7,241.53	13,510.96	7,371.34	102.73	102.76	117.81	-224.80	-5,599.24	278.22	87.41	190.80	1.458 Level 3	
13,500.00	7,241.51	13,610.96	7,371.47	104.38	104.41	117.84	-224.57	-5,699.24	278.33	84.54	193.79	1.436 Level 3	
13,600.00	7,241.48	13,710.96	7,371.60	106.03	106.06	117.86	-224.33	-5,799.24	278.44	81.66	196.78	1.415 Level 3	
13,700.00	7,241.46	13,810.96	7,371.73	107.68	107.71	117.88	-224.10	-5,899.24	278.55	78.78	199.77	1.394 Level 3	
13,800.00	7,241.43	13,910.96	7,371.86	109.33	109.36	117.91	-223.86	-5,999.24	278.66	75.90	202.76	1.374 Level 3	
13,900.00	7,241.40	14,010.96	7,371.99	110.98	111.01	117.93	-223.63	-6,099.24	278.77	73.02	205.75	1.355 Level 3	
14,000.00	7,241.38	14,110.96	7,372.11	112.63	112.66	117.96	-223.39	-6,199.24	278.88	70.15	208.74	1.336 Level 3	
14,100.00	7,241.35	14,210.96	7,372.24	114.29	114.31	117.98	-223.16	-6,299.24	278.99	67.27	211.73	1.318 Level 3	
14,200.00	7,241.33	14,310.96	7,372.37	115.94	115.96	118.00	-222.92	-6,399.24	279.11	64.39	214.72	1.300 Level 3	
14,300.00	7,241.30	14,410.96	7,372.50	117.59	117.62	118.03	-222.68	-6,499.24	279.22	61.51	217.71	1.283 Level 3	
14,400.00	7,241.28	14,510.96	7,372.63	119.24	119.27	118.05	-222.45	-6,599.24	279.33	58.63	220.70	1.266 Level 3	
14,500.00	7,241.25	14,610.96	7,372.75	120.90	120.92	118.07	-222.21	-6,699.24	279.44	55.75	223.69	1.249 Level 2	
14,600.00	7,241.22	14,710.96	7,372.88	122.55	122.58	118.10	-221.98	-6,799.24	279.55	52.87	226.68	1.233 Level 2	
14,700.00	7,241.20	14,810.96	7,373.01	124.21	124.23	118.12	-221.74	-6,899.24	279.66	49.99	229.67	1.218 Level 2	
14,800.00	7,241.17	14,910.96	7,373.14	125.86	125.89	118.14	-221.51	-6,999.23	279.77	47.11	232.66	1.202 Level 2	
14,900.00	7,241.15	15,010.96	7,373.27	127.52	127.55	118.17	-221.27	-7,099.23	279.88	44.23	235.66	1.188 Level 2	
15,000.00	7,241.12	15,110.96	7,373.39	129.18	129.20	118.19	-221.04	-7,199.23	280.00	41.35	238.65	1.173 Level 2	
15,100.00	7,241.10	15,210.96	7,373.52	130.83	130.86	118.21	-220.80	-7,299.23	280.11	38.47	241.64	1.159 Level 2	
15,200.00	7,241.07	15,310.96	7,373.65	132.49	132.52	118.24	-220.57	-7,399.23	280.22	35.59	244.63	1.145 Level 2	
15,300.00	7,241.04	15,410.96	7,373.78	134.15	134.17	118.26	-220.33	-7,499.23	280.33	32.71	247.62	1.132 Level 2	
15,400.00	7,241.02	15,510.96	7,373.91	135.81	135.83	118.28	-220.10	-7,599.23	280.44	29.84	250.61	1.119 Level 2	
15,471.99	7,241.00	15,582.95	7,374.00	137.00	137.02	118.30	-219.93	-7,671.22	280.52	27.77	252.76	1.110 Level 2, ES, SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.80	20.04	-0.28	20.04				
100.00	100.00	100.00	100.00	3.28	3.28	-0.80	20.04	-0.28	20.04	12.51	7.53	2.662	
200.00	200.00	200.00	200.00	3.31	3.31	-0.80	20.04	-0.28	20.04	12.47	7.57	2.646	CC, ES
300.00	299.98	300.25	300.23	3.35	3.35	-120.02	19.44	1.37	20.30	12.65	7.66	2.652	
400.00	399.84	400.49	400.33	3.41	3.41	-118.96	17.64	6.31	21.10	13.32	7.78	2.713	
500.00	499.45	500.72	500.17	3.50	3.50	-117.36	14.65	14.54	22.43	14.48	7.95	2.822	
600.00	598.70	600.91	599.61	3.61	3.62	-115.46	10.47	26.02	24.32	16.14	8.18	2.973	
700.00	697.70	700.88	698.65	3.76	3.77	-114.86	5.83	38.77	26.70	18.23	8.47	3.151	
800.00	796.69	800.86	797.70	3.94	3.94	-114.39	1.19	51.52	29.08	20.27	8.81	3.299	
900.00	895.68	900.83	896.75	4.14	4.14	-113.98	-3.45	64.27	31.47	22.27	9.20	3.420	
1,000.00	994.67	1,000.80	995.79	4.36	4.35	-113.63	-8.09	77.02	33.85	24.23	9.63	3.517	
1,100.00	1,093.67	1,100.77	1,094.84	4.60	4.59	-113.33	-12.73	89.77	36.24	26.16	10.08	3.594	
1,200.00	1,192.66	1,200.74	1,193.89	4.86	4.83	-113.06	-17.37	102.52	38.63	28.06	10.57	3.655	
1,300.00	1,291.65	1,300.71	1,292.93	5.12	5.09	-112.83	-22.01	115.27	41.02	29.94	11.08	3.702	
1,400.00	1,390.64	1,400.68	1,391.98	5.40	5.36	-112.62	-26.65	128.02	43.41	31.80	11.61	3.738	
1,500.00	1,489.64	1,500.65	1,491.03	5.68	5.64	-112.44	-31.30	140.77	45.80	33.64	12.16	3.766	
1,600.00	1,588.63	1,600.63	1,590.07	5.98	5.93	-112.27	-35.94	153.51	48.19	35.46	12.72	3.787	
1,700.00	1,687.62	1,700.60	1,689.12	6.28	6.22	-112.12	-40.58	166.26	50.58	37.28	13.30	3.802	
1,800.00	1,786.61	1,800.57	1,788.16	6.58	6.51	-111.98	-45.22	179.01	52.97	39.08	13.89	3.813	
1,900.00	1,885.61	1,900.54	1,887.21	6.75	6.67	-111.85	-49.86	191.76	55.36	41.53	13.83	4.003	
2,000.00	1,984.60	2,000.51	1,986.26	6.78	6.71	-111.73	-54.50	204.51	57.75	43.86	13.89	4.158	
2,100.00	2,083.59	2,100.48	2,085.30	6.83	6.75	-111.63	-59.14	217.26	60.14	46.16	13.98	4.301	
2,200.00	2,182.58	2,200.45	2,184.35	6.89	6.81	-111.53	-63.78	230.01	62.54	48.43	14.10	4.434	
2,300.00	2,281.58	2,300.43	2,283.40	6.97	6.89	-111.44	-68.42	242.76	64.93	50.67	14.25	4.555	
2,400.00	2,380.57	2,400.40	2,382.44	7.06	6.98	-111.35	-73.06	255.51	67.32	52.89	14.43	4.665	
2,500.00	2,479.56	2,500.37	2,481.49	7.17	7.08	-111.27	-77.70	268.26	69.71	55.08	14.64	4.763	
2,600.00	2,578.55	2,600.34	2,580.54	7.28	7.20	-111.20	-82.34	281.01	72.11	57.24	14.87	4.851	
2,700.00	2,677.55	2,700.31	2,679.58	7.42	7.32	-111.13	-86.98	293.76	74.50	59.38	15.12	4.928	
2,800.00	2,776.54	2,800.28	2,778.63	7.56	7.46	-111.07	-91.62	306.51	76.89	61.50	15.40	4.995	
2,900.00	2,875.53	2,900.25	2,877.68	7.71	7.61	-111.00	-96.26	319.26	79.29	63.59	15.69	5.052	
3,000.00	2,974.52	3,000.22	2,976.72	7.88	7.77	-110.95	-100.90	332.01	81.68	65.67	16.01	5.101	
3,100.00	3,073.52	3,100.20	3,075.77	8.05	7.94	-110.89	-105.54	344.76	84.07	67.72	16.35	5.142	
3,200.00	3,172.51	3,200.17	3,174.81	8.23	8.12	-110.84	-110.18	357.51	86.47	69.76	16.71	5.176	
3,300.00	3,271.50	3,300.14	3,273.86	8.43	8.31	-110.79	-114.82	370.25	88.86	71.78	17.08	5.203	
3,400.00	3,370.49	3,400.11	3,372.91	8.63	8.51	-110.75	-119.46	383.00	91.25	73.78	17.47	5.224	
3,500.00	3,469.49	3,500.08	3,471.95	8.83	8.71	-110.71	-124.10	395.75	93.65	75.77	17.87	5.240	
3,600.00	3,568.48	3,600.05	3,571.00	9.05	8.92	-110.66	-128.74	408.50	96.04	77.75	18.29	5.251	
3,700.00	3,667.47	3,700.02	3,670.05	9.27	9.14	-110.62	-133.38	421.25	98.43	79.71	18.72	5.259	
3,800.00	3,766.46	3,800.00	3,769.09	9.50	9.36	-110.59	-138.02	434.00	100.83	81.67	19.16	5.262	
3,900.00	3,865.46	3,900.03	3,868.14	9.73	9.59	-110.55	-142.67	446.75	103.22	83.61	19.61	5.263	
4,000.00	3,964.45	4,000.06	3,967.19	9.97	9.82	-110.52	-147.31	459.50	105.61	85.54	20.08	5.261	
4,100.00	4,063.44	4,100.09	4,066.23	10.21	10.06	-110.49	-151.95	472.25	108.01	87.46	20.55	5.256	
4,200.00	4,162.43	4,200.12	4,165.28	10.46	10.30	-110.45	-156.59	485.00	110.40	89.37	21.03	5.250	
4,300.00	4,261.43	4,300.15	4,264.32	10.71	10.55	-110.42	-161.23	497.75	112.79	91.27	21.52	5.241	
4,400.00	4,360.42	4,400.18	4,363.37	10.97	10.80	-110.40	-165.87	510.50	115.19	93.17	22.02	5.232	
4,500.00	4,459.41	4,500.21	4,462.42	11.23	11.05	-110.37	-170.51	523.25	117.58	95.06	22.52	5.221	
4,600.00	4,558.40	4,600.23	4,561.46	11.49	11.31	-110.34	-175.15	536.00	119.98	96.94	23.03	5.209	
4,700.00	4,657.40	4,700.26	4,660.51	11.75	11.57	-110.32	-179.79	548.75	122.37	98.82	23.55	5.196	
4,800.00	4,756.39	4,800.29	4,759.56	12.02	11.84	-110.29	-184.43	561.50	124.76	100.69	24.08	5.182	
4,900.00	4,855.38	4,900.32	4,858.60	12.29	12.10	-110.27	-189.07	574.25	127.16	102.55	24.61	5.168	
5,000.00	4,954.37	5,000.35	4,957.65	12.57	12.37	-110.25	-193.71	587.00	129.55	104.41	25.14	5.153	
5,100.00	5,053.37	5,100.38	5,056.70	12.85	12.64	-110.22	-198.35	599.74	131.95	106.27	25.68	5.138	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,200.41	5,155.74	13.12	12.92	-110.20	-202.99	612.49	134.34	108.12	26.22	5.123		
5,300.00	5,251.35	5,300.43	5,254.79	13.41	13.19	-110.18	-207.63	625.24	136.73	109.96	26.77	5.108		
5,400.00	5,350.34	5,400.46	5,353.83	13.69	13.47	-110.16	-212.27	637.99	139.13	111.80	27.32	5.092		
5,500.00	5,449.34	5,500.49	5,452.88	13.97	13.75	-110.15	-216.91	650.74	141.52	113.64	27.88	5.077		
5,600.00	5,548.33	5,600.52	5,551.93	14.26	14.03	-110.13	-221.55	663.49	143.92	115.48	28.44	5.061		
5,700.00	5,647.32	5,700.55	5,650.97	14.55	14.32	-110.11	-226.19	676.24	146.31	117.31	29.00	5.045		
5,800.00	5,746.31	5,800.58	5,750.02	14.84	14.60	-110.09	-230.83	688.99	148.70	119.14	29.56	5.030		
5,900.00	5,845.31	5,899.39	5,849.07	15.13	14.88	-110.08	-235.47	701.74	151.10	120.97	30.13	5.015		
6,000.00	5,944.30	6,000.64	5,948.11	15.42	15.18	-110.06	-240.11	714.49	153.49	122.79	30.70	4.999		
6,100.00	6,043.29	6,100.66	6,047.16	15.72	15.46	-110.04	-244.75	727.24	155.89	124.61	31.28	4.984		
6,200.00	6,142.28	6,200.69	6,146.21	16.01	15.76	-110.03	-249.39	739.99	158.28	126.43	31.85	4.969		
6,300.00	6,241.28	6,300.72	6,245.25	16.31	16.05	-110.01	-254.04	752.74	160.67	128.24	32.43	4.954		
6,400.00	6,340.27	6,399.85	6,344.91	16.61	16.33	-110.05	-258.70	765.41	163.04	130.04	33.00	4.940		
6,500.00	6,439.26	6,502.98	6,447.79	16.90	16.50	-113.70	-263.50	767.95	164.05	130.73	33.32	4.924		
6,600.00	6,538.26	6,600.45	6,544.20	17.20	16.62	-125.26	-267.94	755.05	165.74	132.44	33.31	4.976		
6,700.00	6,637.86	6,692.12	6,632.10	17.38	16.68	133.62	-271.96	729.61	172.43	139.42	33.01	5.224		
6,800.00	6,736.73	6,780.24	6,712.31	17.50	16.71	87.76	-275.60	693.50	183.55	150.96	32.59	5.632		
6,900.00	6,832.42	6,865.41	6,784.41	17.58	16.72	72.56	-278.83	648.38	197.39	165.31	32.08	6.152		
7,000.00	6,922.59	6,948.16	6,848.09	17.62	16.73	63.50	-281.65	595.70	212.36	180.81	31.55	6.731		
7,100.00	7,005.01	7,028.95	6,903.17	17.63	16.75	57.21	-284.05	536.73	227.17	196.10	31.06	7.313		
7,200.00	7,077.65	7,108.16	6,949.51	17.64	16.79	52.67	-286.03	472.58	240.85	210.14	30.71	7.842		
7,300.00	7,138.73	7,186.13	6,987.02	17.64	16.87	49.38	-287.59	404.30	252.69	222.12	30.57	8.266		
7,400.00	7,186.74	7,263.16	7,015.61	17.69	17.00	47.06	-288.73	332.83	262.19	231.49	30.69	8.542		
7,500.00	7,220.49	7,339.52	7,035.25	17.80	17.19	45.55	-289.45	259.09	268.98	237.88	31.10	8.649		
7,600.00	7,239.17	7,415.47	7,045.90	18.02	17.47	44.75	-289.74	183.93	272.86	241.07	31.79	8.584		
7,700.00	7,243.00	7,501.03	7,048.00	18.40	17.86	44.58	-289.61	100.49	273.77	241.13	32.64	8.388		
7,800.00	7,242.97	7,601.03	7,048.01	18.96	18.47	44.60	-289.34	0.49	273.79	240.25	33.54	8.162		
7,900.00	7,242.95	7,701.03	7,048.03	19.67	19.21	44.61	-289.07	-99.51	273.82	239.18	34.64	7.906		
8,000.00	7,242.92	7,801.03	7,048.04	20.51	20.08	44.63	-288.81	-199.51	273.85	237.95	35.90	7.628		
8,100.00	7,242.89	7,901.03	7,048.05	21.45	21.05	44.65	-288.54	-299.50	273.87	236.55	37.32	7.338		
8,200.00	7,242.87	7,998.97	7,048.06	22.48	22.08	44.67	-288.27	-399.50	273.90	235.04	38.86	7.048		
8,300.00	7,242.84	8,101.03	7,048.08	23.59	23.23	44.68	-288.00	-499.50	273.93	233.37	40.56	6.754		
8,400.00	7,242.82	8,201.03	7,048.09	24.76	24.42	44.70	-287.73	-599.50	273.95	231.61	42.34	6.470		
8,500.00	7,242.79	8,301.03	7,048.10	25.98	25.66	44.72	-287.46	-699.50	273.98	229.76	44.22	6.195		
8,600.00	7,242.77	8,401.03	7,048.12	27.25	26.95	44.73	-287.19	-799.50	274.01	227.82	46.19	5.932		
8,700.00	7,242.74	8,501.03	7,048.13	28.56	28.28	44.75	-286.93	-899.50	274.04	225.81	48.22	5.683		
8,800.00	7,242.71	8,601.03	7,048.14	29.91	29.65	44.77	-286.66	-999.50	274.06	223.74	50.32	5.446		
8,900.00	7,242.69	8,701.03	7,048.15	31.29	31.04	44.79	-286.39	-1,099.50	274.09	221.61	52.48	5.223		
9,000.00	7,242.66	8,801.03	7,048.17	32.69	32.46	44.80	-286.12	-1,199.50	274.12	219.43	54.69	5.013		
9,100.00	7,242.64	8,901.03	7,048.18	34.12	33.91	44.82	-285.85	-1,299.50	274.14	217.21	56.93	4.815		
9,200.00	7,242.61	9,001.03	7,048.19	35.57	35.37	44.84	-285.58	-1,399.50	274.17	214.95	59.22	4.629		
9,300.00	7,242.59	9,101.03	7,048.21	37.04	36.85	44.85	-285.32	-1,499.50	274.20	212.65	61.55	4.455		
9,400.00	7,242.56	9,201.03	7,048.22	38.53	38.35	44.87	-285.05	-1,599.50	274.23	210.33	63.90	4.291		
9,500.00	7,242.53	9,301.03	7,048.23	40.03	39.86	44.89	-284.78	-1,699.50	274.25	207.97	66.28	4.138		
9,600.00	7,242.51	9,401.03	7,048.24	41.54	41.38	44.91	-284.51	-1,799.50	274.28	205.59	68.69	3.993		
9,700.00	7,242.48	9,501.03	7,048.26	43.07	42.92	44.92	-284.24	-1,899.50	274.31	203.19	71.12	3.857		
9,800.00	7,242.46	9,601.03	7,048.27	44.60	44.46	44.94	-283.97	-1,999.50	274.34	200.77	73.57	3.729		
9,900.00	7,242.43	9,701.03	7,048.28	46.14	46.01	44.96	-283.70	-2,099.50	274.36	198.32	76.04	3.608		
10,000.00	7,242.41	9,801.03	7,048.30	47.70	47.58	44.97	-283.44	-2,199.50	274.39	195.87	78.53	3.494		
10,100.00	7,242.38	9,901.03	7,048.31	49.26	49.14	44.99	-283.17	-2,299.50	274.42	193.39	81.03	3.387		
10,200.00	7,242.35	10,001.03	7,048.32	50.83	50.72	45.01	-282.90	-2,399.50	274.45	190.91	83.54	3.285		
10,300.00	7,242.33	10,101.03	7,048.33	52.40	52.30	45.03	-282.63	-2,499.50	274.47	188.40	86.07	3.189		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,201.03	7,048.35	53.98	53.89	45.04	-282.36	-2,599.50	274.50	185.89	88.61	3.098		
10,500.00	7,242.28	10,301.03	7,048.36	55.57	55.48	45.06	-282.09	-2,699.50	274.53	183.37	91.16	3.012		
10,600.00	7,242.25	10,401.03	7,048.37	57.16	57.07	45.08	-281.82	-2,799.49	274.56	180.84	93.72	2.930		
10,700.00	7,242.23	10,501.03	7,048.39	58.75	58.67	45.09	-281.56	-2,899.49	274.58	178.29	96.29	2.852		
10,800.00	7,242.20	10,601.03	7,048.40	60.35	60.28	45.11	-281.29	-2,999.49	274.61	175.74	98.87	2.778		
10,900.00	7,242.17	10,701.03	7,048.41	61.95	61.89	45.13	-281.02	-3,099.49	274.64	173.18	101.46	2.707		
11,000.00	7,242.15	10,801.03	7,048.43	63.56	63.50	45.15	-280.75	-3,199.49	274.67	170.62	104.05	2.640		
11,100.00	7,242.12	10,901.03	7,048.44	65.17	65.11	45.16	-280.48	-3,299.49	274.69	168.04	106.65	2.576		
11,200.00	7,242.10	11,001.03	7,048.45	66.78	66.73	45.18	-280.21	-3,399.49	274.72	165.46	109.26	2.514		
11,300.00	7,242.07	11,101.03	7,048.46	68.40	68.35	45.20	-279.95	-3,499.49	274.75	162.88	111.87	2.456		
11,400.00	7,242.05	11,201.03	7,048.48	70.01	69.97	45.21	-279.68	-3,599.49	274.78	160.28	114.49	2.400		
11,500.00	7,242.02	11,301.03	7,048.49	71.63	71.59	45.23	-279.41	-3,699.49	274.81	157.69	117.12	2.346		
11,600.00	7,241.99	11,401.03	7,048.50	73.26	73.22	45.25	-279.14	-3,799.49	274.83	155.08	119.75	2.295		
11,700.00	7,241.97	11,501.03	7,048.52	74.88	74.85	45.27	-278.87	-3,899.49	274.86	152.47	122.39	2.246		
11,800.00	7,241.94	11,601.03	7,048.53	76.51	76.48	45.28	-278.60	-3,999.49	274.89	149.86	125.03	2.199		
11,900.00	7,241.92	11,701.03	7,048.54	78.14	78.11	45.30	-278.33	-4,099.49	274.92	147.24	127.67	2.153		
12,000.00	7,241.89	11,801.03	7,048.55	79.77	79.75	45.32	-278.07	-4,199.49	274.95	144.62	130.32	2.110		
12,100.00	7,241.87	11,901.03	7,048.57	81.40	81.38	45.33	-277.80	-4,299.49	274.97	142.00	132.98	2.068		
12,200.00	7,241.84	12,001.03	7,048.58	83.03	83.02	45.35	-277.53	-4,399.49	275.00	139.37	135.63	2.028		
12,300.00	7,241.82	12,101.03	7,048.59	84.67	84.66	45.37	-277.26	-4,499.49	275.03	136.73	138.29	1.989		
12,400.00	7,241.79	12,201.03	7,048.61	86.31	86.29	45.38	-276.99	-4,599.49	275.06	134.10	140.96	1.951		
12,500.00	7,241.76	12,301.03	7,048.62	87.94	87.94	45.40	-276.72	-4,699.49	275.09	131.46	143.63	1.915		
12,600.00	7,241.74	12,401.03	7,048.63	89.58	89.58	45.42	-276.45	-4,799.49	275.11	128.81	146.30	1.880		
12,700.00	7,241.71	12,501.03	7,048.64	91.22	91.22	45.44	-276.19	-4,899.49	275.14	126.17	148.97	1.847		
12,800.00	7,241.69	12,601.03	7,048.66	92.87	92.86	45.45	-275.92	-4,999.49	275.17	123.52	151.65	1.815		
12,900.00	7,241.66	12,701.03	7,048.67	94.51	94.51	45.47	-275.65	-5,099.49	275.20	120.87	154.33	1.783		
13,000.00	7,241.64	12,801.03	7,048.68	96.15	96.15	45.49	-275.38	-5,199.49	275.23	118.21	157.01	1.753		
13,100.00	7,241.61	12,901.03	7,048.70	97.80	97.80	45.50	-275.11	-5,299.48	275.25	115.56	159.70	1.724		
13,200.00	7,241.58	13,001.03	7,048.71	99.44	99.45	45.52	-274.84	-5,399.48	275.28	112.90	162.39	1.695		
13,300.00	7,241.56	13,101.03	7,048.72	101.09	101.10	45.54	-274.58	-5,499.48	275.31	110.23	165.08	1.668		
13,400.00	7,241.53	13,201.03	7,048.73	102.73	102.75	45.56	-274.31	-5,599.48	275.34	107.57	167.77	1.641		
13,500.00	7,241.51	13,301.03	7,048.75	104.38	104.40	45.57	-274.04	-5,699.48	275.37	104.90	170.47	1.615		
13,600.00	7,241.48	13,401.03	7,048.76	106.03	106.05	45.59	-273.77	-5,799.48	275.40	102.23	173.16	1.590		
13,700.00	7,241.46	13,501.03	7,048.77	107.68	107.70	45.61	-273.50	-5,899.48	275.42	99.56	175.86	1.566		
13,800.00	7,241.43	13,601.03	7,048.79	109.33	109.35	45.62	-273.23	-5,999.48	275.45	96.89	178.57	1.543		
13,900.00	7,241.40	13,701.03	7,048.80	110.98	111.00	45.64	-272.96	-6,099.48	275.48	94.21	181.27	1.520		
14,000.00	7,241.38	13,801.03	7,048.81	112.63	112.66	45.66	-272.70	-6,199.48	275.51	91.53	183.98	1.498 Level 3		
14,100.00	7,241.35	13,901.03	7,048.82	114.29	114.31	45.67	-272.43	-6,299.48	275.54	88.85	186.68	1.476 Level 3		
14,200.00	7,241.33	14,001.03	7,048.84	115.94	115.96	45.69	-272.16	-6,399.48	275.57	86.17	189.39	1.455 Level 3		
14,300.00	7,241.30	14,101.03	7,048.85	117.59	117.62	45.71	-271.89	-6,499.48	275.59	83.49	192.11	1.435 Level 3		
14,400.00	7,241.28	14,201.03	7,048.86	119.24	119.27	45.73	-271.62	-6,599.48	275.62	80.80	194.82	1.415 Level 3		
14,500.00	7,241.25	14,301.03	7,048.88	120.90	120.93	45.74	-271.35	-6,699.48	275.65	78.12	197.54	1.395 Level 3		
14,600.00	7,241.22	14,401.03	7,048.89	122.55	122.58	45.76	-271.08	-6,799.48	275.68	75.43	200.25	1.377 Level 3		
14,700.00	7,241.20	14,501.03	7,048.90	124.21	124.24	45.78	-270.82	-6,899.48	275.71	72.74	202.97	1.358 Level 3		
14,800.00	7,241.17	14,601.03	7,048.91	125.86	125.90	45.79	-270.55	-6,999.48	275.74	70.04	205.69	1.341 Level 3		
14,900.00	7,241.15	14,698.97	7,048.93	127.52	127.52	45.81	-270.28	-7,099.48	275.77	67.38	208.39	1.323 Level 3		
15,000.00	7,241.12	14,801.03	7,048.94	129.18	129.21	45.83	-270.01	-7,199.48	275.79	64.65	211.14	1.306 Level 3		
15,100.00	7,241.10	14,901.03	7,048.95	130.83	130.87	45.84	-269.74	-7,299.48	275.82	61.96	213.87	1.290 Level 3		
15,200.00	7,241.07	15,001.03	7,048.97	132.49	132.53	45.86	-269.47	-7,399.48	275.85	59.26	216.59	1.274 Level 3		
15,300.00	7,241.04	15,101.03	7,048.98	134.15	134.19	45.88	-269.20	-7,499.48	275.88	56.56	219.32	1.258 Level 3		
15,400.00	7,241.02	15,201.03	7,048.99	135.81	135.85	45.89	-268.94	-7,599.48	275.91	53.86	222.05	1.243 Level 2		
15,471.99	7,241.00	15,270.96	7,049.00	137.00	137.01	45.91	-268.74	-7,671.47	275.93	51.94	223.99	1.232 Level 2, SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.53	60.11	-0.56	60.12				
100.00	100.00	100.00	100.00	3.28	3.28	-0.53	60.11	-0.56	60.12	52.59	7.53	7.985	
200.00	200.00	200.00	200.00	3.31	3.31	-0.53	60.11	-0.56	60.12	52.54	7.57	7.937	CC, ES
300.00	299.98	300.10	300.08	3.35	3.35	-119.90	60.04	1.19	60.90	53.24	7.66	7.953	
400.00	399.84	400.17	400.01	3.41	3.41	-119.22	59.81	6.43	63.26	55.47	7.78	8.129	
500.00	499.45	500.15	499.60	3.50	3.50	-118.21	59.43	15.14	67.20	59.24	7.96	8.445	
600.00	598.70	600.01	598.75	3.61	3.62	-117.18	58.91	27.03	72.73	64.54	8.19	8.879	
700.00	697.70	700.19	697.75	3.76	3.77	-117.18	58.36	39.56	79.18	70.70	8.48	9.335	
800.00	796.69	800.40	796.75	3.94	3.93	-117.20	57.81	52.09	85.63	76.81	8.82	9.709	
900.00	895.68	900.61	895.75	4.14	4.13	-117.22	57.27	64.62	92.08	82.88	9.20	10.009	
1,000.00	994.67	1,000.82	994.75	4.36	4.33	-117.23	56.72	77.15	98.53	88.91	9.62	10.246	
1,100.00	1,093.67	1,101.03	1,093.75	4.60	4.56	-117.24	56.17	89.68	104.98	94.92	10.06	10.431	
1,200.00	1,192.66	1,201.24	1,192.75	4.86	4.79	-117.25	55.63	102.21	111.43	100.89	10.54	10.573	
1,300.00	1,291.65	1,301.44	1,291.75	5.12	5.04	-117.26	55.08	114.74	117.88	106.84	11.04	10.680	
1,400.00	1,390.64	1,401.65	1,390.75	5.40	5.30	-117.27	54.53	127.27	124.33	112.78	11.56	10.759	
1,500.00	1,489.64	1,501.86	1,489.75	5.68	5.57	-117.28	53.98	139.80	130.78	118.69	12.09	10.816	
1,600.00	1,588.63	1,602.07	1,588.75	5.98	5.84	-117.29	53.44	152.33	137.23	124.59	12.64	10.855	
1,700.00	1,687.62	1,702.28	1,687.76	6.28	6.12	-117.29	52.89	164.86	143.68	130.48	13.21	10.881	
1,800.00	1,786.61	1,802.49	1,786.76	6.58	6.40	-117.30	52.34	177.39	150.13	136.36	13.78	10.898	
1,900.00	1,885.61	1,902.69	1,885.76	6.75	6.55	-117.31	51.80	189.92	156.58	142.88	13.70	11.428	
2,000.00	1,984.60	2,002.90	1,984.76	6.78	6.58	-117.31	51.25	202.45	163.04	149.27	13.76	11.848	
2,100.00	2,083.59	2,103.11	2,083.76	6.83	6.63	-117.31	50.70	214.98	169.49	155.64	13.85	12.239	
2,200.00	2,182.58	2,203.32	2,182.76	6.89	6.69	-117.32	50.16	227.51	175.94	161.97	13.96	12.599	
2,300.00	2,281.58	2,303.53	2,281.76	6.97	6.76	-117.32	49.61	240.04	182.39	168.28	14.11	12.927	
2,400.00	2,380.57	2,403.73	2,380.76	7.06	6.84	-117.33	49.06	252.57	188.84	174.56	14.28	13.223	
2,500.00	2,479.56	2,503.94	2,479.76	7.17	6.94	-117.33	48.51	265.10	195.29	180.81	14.48	13.488	
2,600.00	2,578.55	2,604.15	2,578.76	7.28	7.05	-117.33	47.97	277.63	201.74	187.04	14.70	13.722	
2,700.00	2,677.55	2,704.36	2,677.76	7.42	7.18	-117.34	47.42	290.16	208.19	193.24	14.95	13.926	
2,800.00	2,776.54	2,804.57	2,776.76	7.56	7.31	-117.34	46.87	302.69	214.64	199.42	15.22	14.103	
2,900.00	2,875.53	2,904.78	2,875.76	7.71	7.45	-117.34	46.33	315.22	221.09	205.58	15.51	14.255	
3,000.00	2,974.52	3,004.98	2,974.76	7.88	7.61	-117.34	45.78	327.75	227.54	211.72	15.82	14.382	
3,100.00	3,073.52	3,105.19	3,073.76	8.05	7.77	-117.35	45.23	340.28	233.99	217.84	16.15	14.487	
3,200.00	3,172.51	3,205.40	3,172.76	8.23	7.95	-117.35	44.68	352.81	240.44	223.94	16.50	14.572	
3,300.00	3,271.50	3,305.61	3,271.76	8.43	8.13	-117.35	44.14	365.34	246.89	230.03	16.87	14.639	
3,400.00	3,370.49	3,405.82	3,370.76	8.63	8.32	-117.35	43.59	377.87	253.34	236.10	17.25	14.690	
3,500.00	3,469.49	3,506.03	3,469.76	8.83	8.51	-117.35	43.04	390.40	259.79	242.15	17.64	14.726	
3,600.00	3,568.48	3,606.23	3,568.76	9.05	8.72	-117.36	42.50	402.93	266.24	248.19	18.05	14.750	
3,700.00	3,667.47	3,706.44	3,667.76	9.27	8.93	-117.36	41.95	415.46	272.69	254.22	18.47	14.763	
3,800.00	3,766.46	3,806.65	3,766.77	9.50	9.14	-117.36	41.40	427.99	279.14	260.24	18.91	14.765	
3,900.00	3,865.46	3,906.86	3,865.77	9.73	9.36	-117.36	40.85	440.52	285.59	266.24	19.35	14.760	
4,000.00	3,964.45	4,007.07	3,964.77	9.97	9.59	-117.36	40.31	453.05	292.04	272.24	19.80	14.747	
4,100.00	4,063.44	4,107.28	4,063.77	10.21	9.82	-117.36	39.76	465.58	298.50	278.23	20.27	14.728	
4,200.00	4,162.43	4,207.48	4,162.77	10.46	10.06	-117.37	39.21	478.11	304.95	284.21	20.74	14.703	
4,300.00	4,261.43	4,307.69	4,261.77	10.71	10.30	-117.37	38.67	490.64	311.40	290.17	21.22	14.674	
4,400.00	4,360.42	4,407.90	4,360.77	10.97	10.54	-117.37	38.12	503.17	317.85	296.14	21.71	14.640	
4,500.00	4,459.41	4,508.11	4,459.77	11.23	10.79	-117.37	37.57	515.70	324.30	302.09	22.21	14.604	
4,600.00	4,558.40	4,608.32	4,558.77	11.49	11.04	-117.37	37.03	528.23	330.75	308.04	22.71	14.565	
4,700.00	4,657.40	4,708.52	4,657.77	11.75	11.29	-117.37	36.48	540.76	337.20	313.98	23.22	14.524	
4,800.00	4,756.39	4,808.73	4,756.77	12.02	11.55	-117.37	35.93	553.29	343.65	319.92	23.73	14.480	
4,900.00	4,855.38	4,908.94	4,855.77	12.29	11.81	-117.37	35.38	565.82	350.10	325.85	24.25	14.436	
5,000.00	4,954.37	5,009.15	4,954.77	12.57	12.07	-117.38	34.84	578.35	356.55	331.77	24.78	14.390	
5,100.00	5,053.37	5,109.36	5,053.77	12.85	12.33	-117.38	34.29	590.88	363.00	337.69	25.31	14.344	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,209.57	5,152.77	13.12	12.60	-117.38	33.74	603.41	369.45	343.61	25.84	14.297		
5,300.00	5,251.35	5,309.77	5,251.77	13.41	12.87	-117.38	33.20	615.94	375.90	349.52	26.38	14.250		
5,400.00	5,350.34	5,409.98	5,350.77	13.69	13.14	-117.38	32.65	628.47	382.35	355.43	26.92	14.202		
5,500.00	5,449.34	5,489.81	5,449.77	13.97	13.35	-117.38	32.10	641.00	388.80	361.39	27.41	14.183		
5,600.00	5,548.33	5,589.60	5,548.77	14.26	13.62	-117.38	31.55	653.53	395.25	367.29	27.96	14.136		
5,700.00	5,647.32	5,689.39	5,647.77	14.55	13.90	-117.38	31.01	666.06	401.70	373.19	28.51	14.089		
5,800.00	5,746.31	5,789.18	5,746.77	14.84	14.17	-117.38	30.46	678.59	408.15	379.09	29.07	14.042		
5,900.00	5,845.31	5,888.98	5,845.78	15.13	14.45	-117.38	29.91	691.12	414.60	384.98	29.62	13.995		
6,000.00	5,944.30	5,988.77	5,944.78	15.42	14.73	-117.38	29.37	703.65	421.05	390.87	30.18	13.949		
6,100.00	6,043.29	6,088.56	6,043.78	15.72	15.01	-117.38	28.82	716.18	427.50	396.76	30.75	13.904		
6,200.00	6,142.28	6,188.35	6,142.78	16.01	15.29	-117.39	28.27	728.71	433.96	402.64	31.31	13.859		
6,300.00	6,241.28	6,288.14	6,241.78	16.31	15.57	-117.39	27.73	741.24	440.41	408.53	31.88	13.814		
6,400.00	6,340.27	6,387.93	6,340.78	16.61	15.86	-117.39	27.18	753.77	446.86	414.41	32.45	13.771		
6,500.00	6,439.26	6,487.73	6,439.78	16.90	16.14	-117.39	26.63	766.30	453.31	420.28	33.02	13.728		
6,600.00	6,538.26	6,591.68	6,543.42	17.20	16.36	-121.19	25.81	772.73	459.35	425.84	33.50	13.711		
6,700.00	6,637.86	6,693.95	6,645.07	17.38	16.49	145.56	24.41	762.66	464.89	431.14	33.75	13.773		
6,800.00	6,736.73	6,794.14	6,741.84	17.50	16.56	106.41	22.49	737.16	470.16	436.27	33.89	13.874		
6,900.00	6,832.42	6,892.37	6,831.67	17.58	16.60	96.56	20.13	697.74	474.99	441.06	33.93	13.999		
7,000.00	6,922.59	6,988.78	6,912.92	17.62	16.62	91.58	17.41	646.08	479.24	445.32	33.92	14.130		
7,100.00	7,005.01	7,083.56	6,984.29	17.63	16.65	88.30	14.40	583.92	482.77	448.87	33.90	14.241		
7,200.00	7,077.65	7,176.87	7,044.77	17.64	16.71	85.89	11.19	513.05	485.43	451.49	33.94	14.304		
7,300.00	7,138.73	7,268.90	7,093.64	17.64	16.82	84.08	7.83	435.24	487.09	453.00	34.09	14.287		
7,400.00	7,186.74	7,359.83	7,130.42	17.69	17.00	82.72	4.41	352.23	487.67	453.25	34.42	14.167		
7,500.00	7,220.49	7,449.85	7,154.81	17.80	17.27	81.78	0.99	265.72	487.08	452.12	34.96	13.934		
7,600.00	7,239.17	7,539.16	7,166.71	18.02	17.63	81.21	-2.37	177.34	485.28	449.58	35.70	13.593		
7,700.00	7,243.00	7,634.20	7,168.10	18.40	18.13	81.06	-5.87	82.40	482.07	445.40	36.67	13.146		
7,800.00	7,242.97	7,734.13	7,168.28	18.96	18.76	81.01	-9.54	-17.46	478.23	440.33	37.90	12.617		
7,900.00	7,242.95	7,834.05	7,168.46	19.67	19.53	80.96	-13.20	-117.32	474.39	435.01	39.38	12.047		
8,000.00	7,242.92	7,933.98	7,168.64	20.51	20.40	80.91	-16.87	-217.18	470.54	429.47	41.07	11.457		
8,100.00	7,242.89	8,033.90	7,168.82	21.45	21.36	80.86	-20.54	-317.03	466.70	423.74	42.95	10.865		
8,200.00	7,242.87	8,133.83	7,169.00	22.48	22.42	80.81	-24.20	-416.89	462.86	417.85	45.00	10.285		
8,300.00	7,242.84	8,233.75	7,169.18	23.59	23.54	80.76	-27.87	-516.75	459.01	411.81	47.20	9.725		
8,400.00	7,242.82	8,333.68	7,169.35	24.76	24.72	80.71	-31.53	-616.61	455.17	405.65	49.52	9.192		
8,500.00	7,242.79	8,433.60	7,169.53	25.98	25.96	80.65	-35.20	-716.47	451.33	399.39	51.94	8.689		
8,600.00	7,242.77	8,533.53	7,169.71	27.25	27.24	80.60	-38.87	-816.32	447.49	393.02	54.46	8.217		
8,700.00	7,242.74	8,633.45	7,169.89	28.56	28.57	80.54	-42.53	-916.18	443.64	386.58	57.06	7.775		
8,800.00	7,242.71	8,733.38	7,170.07	29.91	29.92	80.49	-46.20	-1,016.04	439.80	380.07	59.73	7.363		
8,900.00	7,242.69	8,833.30	7,170.25	31.29	31.31	80.43	-49.87	-1,115.90	435.96	373.50	62.46	6.980		
9,000.00	7,242.66	8,933.23	7,170.43	32.69	32.72	80.37	-53.53	-1,215.76	432.12	366.88	65.24	6.623		
9,100.00	7,242.64	9,033.15	7,170.61	34.12	34.16	80.31	-57.20	-1,315.61	428.28	360.21	68.07	6.292		
9,200.00	7,242.61	9,133.08	7,170.79	35.57	35.62	80.25	-60.86	-1,415.47	424.45	353.51	70.94	5.983		
9,300.00	7,242.59	9,233.00	7,170.97	37.04	37.09	80.19	-64.53	-1,515.33	420.61	346.76	73.84	5.696		
9,400.00	7,242.56	9,332.93	7,171.15	38.53	38.58	80.13	-68.20	-1,615.19	416.77	339.99	76.78	5.428		
9,500.00	7,242.53	9,432.85	7,171.33	40.03	40.08	80.06	-71.86	-1,715.04	412.93	333.19	79.74	5.178		
9,600.00	7,242.51	9,532.78	7,171.50	41.54	41.60	80.00	-75.53	-1,814.90	409.09	326.37	82.73	4.945		
9,700.00	7,242.48	9,632.70	7,171.68	43.07	43.06	79.94	-78.86	-1,910.41	405.45	319.77	85.68	4.732		
9,800.00	7,242.46	9,732.62	7,171.84	44.60	44.46	79.94	-79.86	-2,000.95	404.12	315.56	88.55	4.564		
9,900.00	7,242.43	9,832.54	7,172.02	46.14	46.01	79.95	-80.07	-2,100.95	403.69	312.07	91.62	4.406		
10,000.00	7,242.41	9,932.46	7,172.20	47.70	47.57	79.97	-80.28	-2,200.95	403.26	308.55	94.70	4.258		
10,100.00	7,242.38	10,032.38	7,172.38	49.26	49.13	79.99	-80.49	-2,300.95	402.83	305.02	97.80	4.119		
10,200.00	7,242.35	10,132.30	7,172.56	50.83	50.70	80.01	-80.70	-2,400.95	402.40	301.48	100.92	3.987		
10,300.00	7,242.33	10,232.22	7,172.73	52.40	52.28	80.03	-80.91	-2,500.95	401.97	297.92	104.04	3.864		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,318.89	7,172.91	53.98	53.87	80.05	-81.12	-2,600.95	401.54	294.36	107.18	3.746		
10,500.00	7,242.28	10,418.89	7,173.09	55.57	55.45	80.07	-81.32	-2,700.94	401.11	290.78	110.33	3.636		
10,600.00	7,242.25	10,518.89	7,173.27	57.16	57.05	80.09	-81.53	-2,800.94	400.68	287.19	113.49	3.531		
10,700.00	7,242.23	10,618.89	7,173.45	58.75	58.65	80.11	-81.74	-2,900.94	400.25	283.59	116.65	3.431		
10,800.00	7,242.20	10,718.89	7,173.63	60.35	60.25	80.12	-81.95	-3,000.94	399.82	279.99	119.83	3.337		
10,900.00	7,242.17	10,818.89	7,173.81	61.95	61.85	80.14	-82.16	-3,100.94	399.39	276.37	123.01	3.247		
11,000.00	7,242.15	10,918.89	7,173.99	63.56	63.46	80.16	-82.37	-3,200.94	398.96	272.75	126.20	3.161		
11,100.00	7,242.12	11,018.89	7,174.17	65.17	65.08	80.18	-82.58	-3,300.94	398.53	269.12	129.40	3.080		
11,200.00	7,242.10	11,118.89	7,174.35	66.78	66.69	80.20	-82.79	-3,400.93	398.10	265.49	132.60	3.002		
11,300.00	7,242.07	11,218.88	7,174.53	68.40	68.31	80.22	-83.00	-3,500.93	397.67	261.85	135.81	2.928		
11,400.00	7,242.05	11,318.88	7,174.71	70.01	69.93	80.24	-83.21	-3,600.93	397.24	258.21	139.03	2.857		
11,500.00	7,242.02	11,418.88	7,174.88	71.63	71.55	80.26	-83.42	-3,700.93	396.81	254.56	142.25	2.790		
11,600.00	7,241.99	11,518.88	7,175.06	73.26	73.18	80.28	-83.63	-3,800.93	396.38	250.90	145.47	2.725		
11,700.00	7,241.97	11,618.88	7,175.24	74.88	74.80	80.30	-83.84	-3,900.93	395.95	247.25	148.70	2.663		
11,800.00	7,241.94	11,718.88	7,175.42	76.51	76.43	80.32	-84.05	-4,000.93	395.52	243.58	151.94	2.603		
11,900.00	7,241.92	11,818.88	7,175.60	78.14	78.06	80.34	-84.26	-4,100.92	395.09	239.92	155.17	2.546		
12,000.00	7,241.89	11,918.88	7,175.78	79.77	79.69	80.36	-84.47	-4,200.92	394.66	236.25	158.41	2.491		
12,100.00	7,241.87	12,018.88	7,175.96	81.40	81.33	80.38	-84.68	-4,300.92	394.23	232.57	161.66	2.439		
12,200.00	7,241.84	12,118.88	7,176.14	83.03	82.96	80.40	-84.89	-4,400.92	393.80	228.90	164.91	2.388		
12,300.00	7,241.82	12,218.87	7,176.32	84.67	84.60	80.42	-85.10	-4,500.92	393.37	225.22	168.16	2.339		
12,400.00	7,241.79	12,318.87	7,176.50	86.31	86.24	80.44	-85.31	-4,600.92	392.94	221.53	171.41	2.292		
12,500.00	7,241.76	12,418.87	7,176.68	87.94	87.88	80.46	-85.52	-4,700.92	392.51	217.85	174.67	2.247		
12,600.00	7,241.74	12,518.87	7,176.86	89.58	89.52	80.47	-85.73	-4,800.92	392.08	214.16	177.93	2.204		
12,700.00	7,241.71	12,618.87	7,177.03	91.22	91.16	80.49	-85.94	-4,900.91	391.66	210.47	181.19	2.162		
12,800.00	7,241.69	12,718.87	7,177.21	92.87	92.80	80.51	-86.15	-5,000.91	391.23	206.77	184.45	2.121		
12,900.00	7,241.66	12,818.87	7,177.39	94.51	94.45	80.53	-86.36	-5,100.91	390.80	203.08	187.72	2.082		
13,000.00	7,241.64	12,918.87	7,177.57	96.15	96.09	80.55	-86.57	-5,200.91	390.37	199.38	190.99	2.044		
13,100.00	7,241.61	13,018.87	7,177.75	97.80	97.74	80.57	-86.78	-5,300.91	389.94	195.68	194.26	2.007		
13,200.00	7,241.58	13,118.87	7,177.93	99.44	99.38	80.59	-86.99	-5,400.91	389.51	191.98	197.53	1.972		
13,300.00	7,241.56	13,218.86	7,178.11	101.09	101.03	80.61	-87.20	-5,500.91	389.08	188.28	200.80	1.938		
13,400.00	7,241.53	13,318.86	7,178.29	102.73	102.68	80.63	-87.41	-5,600.90	388.65	184.57	204.08	1.904		
13,500.00	7,241.51	13,418.86	7,178.47	104.38	104.33	80.66	-87.61	-5,700.90	388.22	180.86	207.36	1.872		
13,600.00	7,241.48	13,518.86	7,178.65	106.03	105.98	80.68	-87.82	-5,800.90	387.80	177.16	210.64	1.841		
13,700.00	7,241.46	13,618.86	7,178.83	107.68	107.63	80.70	-88.03	-5,900.90	387.37	173.45	213.92	1.811		
13,800.00	7,241.43	13,718.86	7,179.01	109.33	109.28	80.72	-88.24	-6,000.90	386.94	169.73	217.20	1.781		
13,900.00	7,241.40	13,818.86	7,179.19	110.98	110.93	80.74	-88.45	-6,100.90	386.51	166.02	220.49	1.753		
14,000.00	7,241.38	13,918.86	7,179.36	112.63	112.58	80.76	-88.66	-6,200.90	386.08	162.31	223.78	1.725		
14,100.00	7,241.35	14,018.86	7,179.54	114.29	114.23	80.78	-88.87	-6,300.89	385.65	158.59	227.06	1.698		
14,200.00	7,241.33	14,118.85	7,179.72	115.94	115.89	80.80	-89.08	-6,400.89	385.22	154.87	230.35	1.672		
14,300.00	7,241.30	14,218.85	7,179.90	117.59	117.54	80.82	-89.29	-6,500.89	384.80	151.15	233.64	1.647		
14,400.00	7,241.28	14,318.85	7,180.08	119.24	119.20	80.84	-89.50	-6,600.89	384.37	147.43	236.93	1.622		
14,500.00	7,241.25	14,418.85	7,180.26	120.90	120.85	80.86	-89.71	-6,700.89	383.94	143.71	240.23	1.598		
14,600.00	7,241.22	14,518.85	7,180.44	122.55	122.51	80.88	-89.92	-6,800.89	383.51	139.99	243.52	1.575		
14,700.00	7,241.20	14,618.85	7,180.62	124.21	124.16	80.90	-90.13	-6,900.89	383.08	136.27	246.82	1.552		
14,800.00	7,241.17	14,718.85	7,180.80	125.86	125.82	80.92	-90.34	-7,000.88	382.66	132.54	250.11	1.530		
14,900.00	7,241.15	14,818.85	7,180.98	127.52	127.47	80.94	-90.55	-7,100.88	382.23	128.82	253.41	1.508		
15,000.00	7,241.12	14,918.85	7,181.16	129.18	129.13	80.96	-90.76	-7,200.88	381.80	125.09	256.71	1.487 Level 3		
15,100.00	7,241.10	15,018.85	7,181.34	130.83	130.79	80.98	-90.97	-7,300.88	381.37	121.37	260.01	1.467 Level 3		
15,200.00	7,241.07	15,118.84	7,181.51	132.49	132.44	81.01	-91.18	-7,400.88	380.94	117.64	263.31	1.447 Level 3		
15,300.00	7,241.04	15,218.84	7,181.69	134.15	134.10	81.03	-91.39	-7,500.88	380.52	113.91	266.61	1.427 Level 3		
15,400.00	7,241.02	15,318.84	7,181.87	135.81	135.76	81.05	-91.60	-7,600.88	380.09	110.18	269.91	1.408 Level 3		
15,471.99	7,241.00	15,390.83	7,182.00	137.00	136.95	81.06	-91.75	-7,672.87	379.78	107.50	272.29	1.395 Level 3, SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	80.14	-0.56	80.14				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	80.14	-0.56	80.14	72.61	7.53	10.645	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	80.14	-0.56	80.14	72.57	7.57	10.581	CC, ES
300.00	299.98	299.49	299.47	3.35	3.35	-119.84	80.46	1.14	81.32	73.67	7.66	10.620	
400.00	399.84	398.90	398.74	3.41	3.41	-119.39	81.41	6.23	84.86	77.08	7.78	10.904	
500.00	499.45	498.14	497.60	3.50	3.50	-118.71	82.99	14.68	90.77	82.81	7.96	11.404	
600.00	598.70	602.62	596.14	3.61	3.63	-118.00	85.16	26.28	98.99	90.79	8.20	12.071	
700.00	697.70	703.05	694.91	3.76	3.77	-118.08	87.47	38.61	108.29	99.80	8.49	12.752	
800.00	796.69	796.51	793.68	3.94	3.93	-118.16	89.78	50.94	117.59	108.77	8.82	13.337	
900.00	895.68	903.92	892.45	4.14	4.13	-118.22	92.09	63.28	126.89	117.69	9.21	13.780	
1,000.00	994.67	1,004.35	991.23	4.36	4.34	-118.28	94.40	75.61	136.20	126.57	9.62	14.152	
1,100.00	1,093.67	1,104.79	1,090.00	4.60	4.57	-118.33	96.70	87.95	145.50	135.43	10.07	14.448	
1,200.00	1,192.66	1,205.22	1,188.77	4.86	4.80	-118.37	99.01	100.28	154.81	144.26	10.54	14.681	
1,300.00	1,291.65	1,305.66	1,287.54	5.12	5.05	-118.41	101.32	112.61	164.11	153.07	11.04	14.863	
1,400.00	1,390.64	1,393.91	1,386.31	5.40	5.28	-118.44	103.63	124.95	173.41	161.89	11.53	15.045	
1,500.00	1,489.64	1,506.52	1,485.09	5.68	5.57	-118.47	105.94	137.28	182.72	170.63	12.09	15.111	
1,600.00	1,588.63	1,606.96	1,583.86	5.98	5.85	-118.50	108.24	149.61	192.02	179.38	12.64	15.192	
1,700.00	1,687.62	1,707.39	1,682.63	6.28	6.13	-118.53	110.55	161.95	201.33	188.13	13.20	15.251	
1,800.00	1,786.61	1,807.83	1,781.40	6.58	6.40	-118.55	112.86	174.28	210.63	196.87	13.76	15.304	
1,900.00	1,885.61	1,891.74	1,880.18	6.75	6.53	-118.57	115.17	186.62	219.94	206.27	13.67	16.094	
2,000.00	1,984.60	2,008.69	1,978.95	6.78	6.58	-118.59	117.48	198.95	229.24	215.50	13.74	16.685	
2,100.00	2,083.59	2,109.13	2,077.72	6.83	6.62	-118.61	119.79	211.28	238.54	224.72	13.83	17.252	
2,200.00	2,182.58	2,209.56	2,176.49	6.89	6.68	-118.62	122.09	223.62	247.85	233.91	13.94	17.775	
2,300.00	2,281.58	2,309.99	2,275.27	6.97	6.75	-118.64	124.40	235.95	257.15	243.07	14.09	18.253	
2,400.00	2,380.57	2,389.57	2,374.04	7.06	6.82	-118.65	126.71	248.28	266.46	252.22	14.24	18.711	
2,500.00	2,479.56	2,489.14	2,472.81	7.17	6.91	-118.67	129.02	260.62	275.76	261.33	14.44	19.103	
2,600.00	2,578.55	2,588.70	2,571.58	7.28	7.02	-118.68	131.33	272.95	285.07	270.41	14.65	19.452	
2,700.00	2,677.55	2,688.27	2,670.35	7.42	7.14	-118.69	133.63	285.29	294.37	279.47	14.90	19.759	
2,800.00	2,776.54	2,787.84	2,769.13	7.56	7.27	-118.70	135.94	297.62	303.68	288.51	15.16	20.026	
2,900.00	2,875.53	2,887.40	2,867.90	7.71	7.41	-118.71	138.25	309.95	312.98	297.53	15.45	20.256	
3,000.00	2,974.52	2,986.97	2,966.67	7.88	7.56	-118.72	140.56	322.29	322.28	306.53	15.76	20.452	
3,100.00	3,073.52	3,086.53	3,065.44	8.05	7.72	-118.73	142.87	334.62	331.59	315.50	16.08	20.615	
3,200.00	3,172.51	3,186.10	3,164.22	8.23	7.89	-118.74	145.18	346.96	340.89	324.46	16.43	20.750	
3,300.00	3,271.50	3,285.67	3,262.99	8.43	8.07	-118.75	147.48	359.29	350.20	333.41	16.79	20.858	
3,400.00	3,370.49	3,385.23	3,361.76	8.63	8.25	-118.75	149.79	371.62	359.50	342.34	17.17	20.942	
3,500.00	3,469.49	3,484.80	3,460.53	8.83	8.45	-118.76	152.10	383.96	368.81	351.25	17.56	21.006	
3,600.00	3,568.48	3,584.37	3,559.31	9.05	8.64	-118.77	154.41	396.29	378.11	360.15	17.96	21.050	
3,700.00	3,667.47	3,683.93	3,658.08	9.27	8.85	-118.78	156.72	408.62	387.42	369.04	18.38	21.079	
3,800.00	3,766.46	3,783.50	3,756.85	9.50	9.06	-118.78	159.03	420.96	396.72	377.91	18.81	21.093	
3,900.00	3,865.46	3,883.06	3,855.62	9.73	9.28	-118.79	161.33	433.29	406.03	386.78	19.25	21.094	
4,000.00	3,964.45	3,982.63	3,954.40	9.97	9.50	-118.79	163.64	445.63	415.33	395.63	19.70	21.084	
4,100.00	4,063.44	4,082.20	4,053.17	10.21	9.73	-118.80	165.95	457.96	424.63	404.48	20.16	21.065	
4,200.00	4,162.43	4,181.76	4,151.94	10.46	9.96	-118.80	168.26	470.29	433.94	413.31	20.63	21.037	
4,300.00	4,261.43	4,281.33	4,250.71	10.71	10.19	-118.81	170.57	482.63	443.24	422.14	21.10	21.003	
4,400.00	4,360.42	4,380.90	4,349.48	10.97	10.43	-118.81	172.87	494.96	452.55	430.96	21.59	20.962	
4,500.00	4,459.41	4,480.46	4,448.26	11.23	10.67	-118.82	175.18	507.29	461.85	439.77	22.08	20.917	
4,600.00	4,558.40	4,580.03	4,547.03	11.49	10.92	-118.82	177.49	519.63	471.16	448.58	22.58	20.867	
4,700.00	4,657.40	4,679.59	4,645.80	11.75	11.17	-118.83	179.80	531.96	480.46	457.38	23.08	20.814	
4,800.00	4,756.39	4,779.16	4,744.57	12.02	11.42	-118.83	182.11	544.30	489.77	466.17	23.59	20.758	
4,900.00	4,855.38	4,878.73	4,843.35	12.29	11.68	-118.84	184.42	556.63	499.07	474.96	24.11	20.699	
5,000.00	4,954.37	4,978.29	4,942.12	12.57	11.93	-118.84	186.72	568.96	508.38	483.74	24.63	20.639	
5,100.00	5,053.37	5,077.86	5,040.89	12.85	12.19	-118.84	189.03	581.30	517.68	492.52	25.16	20.577	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,177.42	5,139.66	13.12	12.45	-118.85	191.34	593.63	526.99	501.30	25.69	20.515		
5,300.00	5,251.35	5,276.99	5,238.44	13.41	12.72	-118.85	193.65	605.96	536.29	510.07	26.22	20.451		
5,400.00	5,350.34	5,376.56	5,337.21	13.69	12.98	-118.85	195.96	618.30	545.59	518.83	26.76	20.387		
5,500.00	5,449.34	5,476.12	5,435.98	13.97	13.25	-118.86	198.26	630.63	554.90	527.60	27.30	20.323		
5,600.00	5,548.33	5,575.69	5,534.75	14.26	13.52	-118.86	200.57	642.97	564.20	536.35	27.85	20.259		
5,700.00	5,647.32	5,675.26	5,633.52	14.55	13.79	-118.86	202.88	655.30	573.51	545.11	28.40	20.195		
5,800.00	5,746.31	5,774.82	5,732.30	14.84	14.07	-118.87	205.19	667.63	582.81	553.86	28.95	20.131		
5,900.00	5,845.31	5,874.39	5,831.07	15.13	14.34	-118.87	207.50	679.97	592.12	562.61	29.51	20.068		
6,000.00	5,944.30	5,973.95	5,929.84	15.42	14.62	-118.87	209.81	692.30	601.42	571.36	30.06	20.005		
6,100.00	6,043.29	6,073.52	6,028.61	15.72	14.89	-118.87	212.11	704.63	610.73	580.10	30.62	19.943		
6,200.00	6,142.28	6,173.09	6,127.39	16.01	15.17	-118.88	214.42	716.97	620.03	588.84	31.19	19.881		
6,300.00	6,241.28	6,272.65	6,226.16	16.31	15.45	-118.88	216.73	729.30	629.34	597.58	31.75	19.820		
6,400.00	6,340.27	6,372.22	6,324.93	16.61	15.73	-118.88	219.04	741.64	638.64	606.32	32.32	19.760		
6,500.00	6,439.26	6,471.78	6,423.70	16.90	16.01	-118.88	221.35	753.97	647.95	615.06	32.89	19.701		
6,600.00	6,538.26	6,571.35	6,522.48	17.20	16.29	-121.90	223.65	766.30	657.25	623.79	33.46	19.644		
6,700.00	6,637.86	6,671.44	6,622.26	17.38	16.50	146.42	226.00	772.40	666.63	632.77	33.85	19.693		
6,800.00	6,736.73	6,772.07	6,722.29	17.50	16.63	108.75	228.37	762.78	675.94	641.82	34.12	19.813		
6,900.00	6,832.42	6,873.20	6,820.04	17.58	16.71	100.30	230.71	737.37	684.96	650.69	34.27	19.986		
7,000.00	6,922.59	6,974.85	6,913.00	17.62	16.76	96.58	232.95	696.57	693.46	659.11	34.35	20.189		
7,100.00	7,005.01	7,077.01	6,998.69	17.63	16.79	94.41	235.05	641.19	701.23	666.85	34.39	20.393		
7,200.00	7,077.65	7,179.64	7,074.75	17.64	16.83	92.97	236.95	572.49	708.08	673.64	34.45	20.556		
7,300.00	7,138.73	7,282.67	7,139.03	17.64	16.93	91.96	238.58	492.13	713.83	679.23	34.60	20.630		
7,400.00	7,186.74	7,386.02	7,189.66	17.69	17.11	91.25	239.90	402.17	718.34	683.42	34.92	20.571		
7,500.00	7,220.49	7,489.57	7,225.14	17.80	17.39	90.76	240.88	305.01	721.48	686.03	35.45	20.351		
7,600.00	7,239.17	7,593.22	7,244.43	18.02	17.80	90.48	241.48	203.29	723.20	686.98	36.22	19.968		
7,700.00	7,243.00	7,704.44	7,248.02	18.40	18.36	90.40	241.72	101.07	723.50	686.26	37.24	19.426		
7,800.00	7,242.97	7,804.44	7,248.07	18.96	18.99	90.40	241.86	1.07	723.46	684.97	38.49	18.798		
7,900.00	7,242.95	7,904.44	7,248.12	19.67	19.75	90.41	242.01	-98.93	723.42	683.44	39.97	18.098		
8,000.00	7,242.92	8,004.44	7,248.17	20.51	20.61	90.42	242.16	-198.93	723.37	681.69	41.68	17.356		
8,100.00	7,242.89	8,104.44	7,248.23	21.45	21.57	90.42	242.31	-298.93	723.33	679.75	43.58	16.599		
8,200.00	7,242.87	8,204.44	7,248.28	22.48	22.61	90.43	242.45	-398.93	723.29	677.64	45.64	15.846		
8,300.00	7,242.84	8,304.44	7,248.33	23.59	23.72	90.43	242.60	-498.93	723.24	675.38	47.86	15.112		
8,400.00	7,242.82	8,404.44	7,248.38	24.76	24.90	90.44	242.75	-598.93	723.20	673.00	50.20	14.407		
8,500.00	7,242.79	8,504.44	7,248.43	25.98	26.13	90.45	242.90	-698.93	723.16	670.51	52.65	13.736		
8,600.00	7,242.77	8,604.44	7,248.48	27.25	27.40	90.45	243.04	-798.93	723.11	667.92	55.19	13.101		
8,700.00	7,242.74	8,704.44	7,248.53	28.56	28.72	90.46	243.19	-898.93	723.07	665.25	57.82	12.505		
8,800.00	7,242.71	8,804.44	7,248.58	29.91	30.07	90.47	243.34	-998.93	723.03	662.51	60.52	11.947		
8,900.00	7,242.69	8,904.44	7,248.64	31.29	31.46	90.47	243.49	-1,098.93	722.99	659.71	63.28	11.425		
9,000.00	7,242.66	9,004.44	7,248.69	32.69	32.87	90.48	243.63	-1,198.93	722.94	656.85	66.09	10.938		
9,100.00	7,242.64	9,104.44	7,248.74	34.12	34.30	90.48	243.78	-1,298.93	722.90	653.94	68.96	10.483		
9,200.00	7,242.61	9,204.44	7,248.79	35.57	35.76	90.49	243.93	-1,398.93	722.86	650.99	71.86	10.059		
9,300.00	7,242.59	9,304.44	7,248.84	37.04	37.23	90.50	244.08	-1,498.92	722.81	648.01	74.80	9.663		
9,400.00	7,242.56	9,404.44	7,248.89	38.53	38.72	90.50	244.22	-1,598.92	722.77	644.99	77.78	9.293		
9,500.00	7,242.53	9,504.44	7,248.94	40.03	40.22	90.51	244.37	-1,698.92	722.73	641.95	80.78	8.947		
9,600.00	7,242.51	9,604.44	7,248.99	41.54	41.74	90.51	244.52	-1,798.92	722.69	638.88	83.81	8.623		
9,700.00	7,242.48	9,704.44	7,249.05	43.07	43.27	90.52	244.67	-1,898.92	722.64	635.78	86.86	8.319		
9,800.00	7,242.46	9,804.44	7,249.10	44.60	44.80	90.53	244.81	-1,998.92	722.60	632.66	89.94	8.035		
9,900.00	7,242.43	9,904.44	7,249.15	46.14	46.35	90.53	244.96	-2,098.92	722.56	629.53	93.03	7.767		
10,000.00	7,242.41	10,004.44	7,249.20	47.70	47.91	90.54	245.11	-2,198.92	722.51	626.38	96.14	7.516		
10,100.00	7,242.38	10,104.44	7,249.25	49.26	49.47	90.54	245.26	-2,298.92	722.47	623.21	99.26	7.279		
10,200.00	7,242.35	10,204.44	7,249.30	50.83	51.04	90.55	245.40	-2,398.92	722.43	620.03	102.40	7.055		
10,300.00	7,242.33	10,304.44	7,249.35	52.40	52.62	90.56	245.55	-2,498.92	722.39	616.84	105.55	6.844		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	7,242.30	10,404.44	7,249.40	53.98	54.20	90.56	245.70	-2,598.92	722.34	613.63	108.71	6.645	
10,500.00	7,242.28	10,504.44	7,249.45	55.57	55.79	90.57	245.85	-2,698.92	722.30	610.41	111.88	6.456	
10,600.00	7,242.25	10,604.44	7,249.51	57.16	57.38	90.58	245.99	-2,798.92	722.26	607.19	115.07	6.277	
10,700.00	7,242.23	10,704.44	7,249.56	58.75	58.97	90.58	246.14	-2,898.92	722.21	603.96	118.26	6.107	
10,800.00	7,242.20	10,804.44	7,249.61	60.35	60.57	90.59	246.29	-2,998.92	722.17	600.71	121.46	5.946	
10,900.00	7,242.17	10,904.44	7,249.66	61.95	62.18	90.59	246.44	-3,098.92	722.13	597.46	124.67	5.793	
11,000.00	7,242.15	11,004.44	7,249.71	63.56	63.79	90.60	246.58	-3,198.92	722.09	594.21	127.88	5.647	
11,100.00	7,242.12	11,104.44	7,249.76	65.17	65.40	90.61	246.73	-3,298.92	722.04	590.94	131.10	5.508	
11,200.00	7,242.10	11,204.44	7,249.81	66.78	67.01	90.61	246.88	-3,398.92	722.00	587.67	134.33	5.375	
11,300.00	7,242.07	11,304.44	7,249.86	68.40	68.63	90.62	247.03	-3,498.92	721.96	584.40	137.56	5.248	
11,400.00	7,242.05	11,404.44	7,249.92	70.01	70.25	90.62	247.17	-3,598.92	721.91	581.12	140.80	5.127	
11,500.00	7,242.02	11,504.44	7,249.97	71.63	71.87	90.63	247.32	-3,698.92	721.87	577.83	144.04	5.012	
11,600.00	7,241.99	11,604.44	7,250.02	73.26	73.49	90.64	247.47	-3,798.92	721.83	574.54	147.29	4.901	
11,700.00	7,241.97	11,704.44	7,250.07	74.88	75.12	90.64	247.62	-3,898.92	721.79	571.25	150.54	4.795	
11,800.00	7,241.94	11,804.44	7,250.12	76.51	76.75	90.65	247.76	-3,998.92	721.74	567.95	153.79	4.693	
11,900.00	7,241.92	11,904.44	7,250.17	78.14	78.38	90.66	247.91	-4,098.92	721.70	564.65	157.05	4.595	
12,000.00	7,241.89	12,004.44	7,250.22	79.77	80.01	90.66	248.06	-4,198.92	721.66	561.34	160.31	4.502	
12,100.00	7,241.87	12,104.44	7,250.27	81.40	81.64	90.67	248.21	-4,298.92	721.62	558.04	163.58	4.411	
12,200.00	7,241.84	12,204.44	7,250.32	83.03	83.28	90.67	248.35	-4,398.92	721.57	554.73	166.85	4.325	
12,300.00	7,241.82	12,304.44	7,250.38	84.67	84.91	90.68	248.50	-4,498.92	721.53	551.41	170.12	4.241	
12,400.00	7,241.79	12,404.44	7,250.43	86.31	86.55	90.69	248.65	-4,598.92	721.49	548.09	173.39	4.161	
12,500.00	7,241.76	12,504.44	7,250.48	87.94	88.19	90.69	248.80	-4,698.92	721.45	544.78	176.67	4.084	
12,600.00	7,241.74	12,604.44	7,250.53	89.58	89.83	90.70	248.94	-4,798.92	721.40	541.45	179.95	4.009	
12,700.00	7,241.71	12,704.44	7,250.58	91.22	91.47	90.70	249.09	-4,898.92	721.36	538.13	183.23	3.937	
12,800.00	7,241.69	12,804.44	7,250.63	92.87	93.11	90.71	249.24	-4,998.92	721.32	534.80	186.51	3.867	
12,900.00	7,241.66	12,904.44	7,250.68	94.51	94.76	90.72	249.39	-5,098.92	721.27	531.47	189.80	3.800	
13,000.00	7,241.64	13,004.44	7,250.73	96.15	96.40	90.72	249.53	-5,198.92	721.23	528.14	193.09	3.735	
13,100.00	7,241.61	13,104.44	7,250.79	97.80	98.05	90.73	249.68	-5,298.92	721.19	524.81	196.38	3.672	
13,200.00	7,241.58	13,204.44	7,250.84	99.44	99.69	90.74	249.83	-5,398.92	721.15	521.48	199.67	3.612	
13,300.00	7,241.56	13,304.44	7,250.89	101.09	101.34	90.74	249.98	-5,498.92	721.10	518.14	202.96	3.553	
13,400.00	7,241.53	13,404.44	7,250.94	102.73	102.99	90.75	250.12	-5,598.92	721.06	514.81	206.26	3.496	
13,500.00	7,241.51	13,504.44	7,250.99	104.38	104.64	90.75	250.27	-5,698.92	721.02	511.47	209.55	3.441	
13,600.00	7,241.48	13,604.44	7,251.04	106.03	106.29	90.76	250.42	-5,798.92	720.98	508.13	212.85	3.387	
13,700.00	7,241.46	13,704.44	7,251.09	107.68	107.94	90.77	250.57	-5,898.92	720.93	504.79	216.15	3.335	
13,800.00	7,241.43	13,804.44	7,251.14	109.33	109.59	90.77	250.71	-5,998.92	720.89	501.44	219.45	3.285	
13,900.00	7,241.40	13,904.44	7,251.19	110.98	111.24	90.78	250.86	-6,098.92	720.85	498.10	222.75	3.236	
14,000.00	7,241.38	14,004.44	7,251.25	112.63	112.89	90.78	251.01	-6,198.92	720.81	494.75	226.05	3.189	
14,100.00	7,241.35	14,104.44	7,251.30	114.29	114.54	90.79	251.16	-6,298.92	720.76	491.41	229.36	3.143	
14,200.00	7,241.33	14,204.44	7,251.35	115.94	116.20	90.80	251.30	-6,398.92	720.72	488.06	232.66	3.098	
14,300.00	7,241.30	14,304.44	7,251.40	117.59	117.85	90.80	251.45	-6,498.92	720.68	484.71	235.97	3.054	
14,400.00	7,241.28	14,404.44	7,251.45	119.24	119.50	90.81	251.60	-6,598.92	720.64	481.36	239.28	3.012	
14,500.00	7,241.25	14,504.44	7,251.50	120.90	121.16	90.82	251.75	-6,698.92	720.59	478.01	242.58	2.970	
14,600.00	7,241.22	14,604.44	7,251.55	122.55	122.81	90.82	251.89	-6,798.92	720.55	474.66	245.89	2.930	
14,700.00	7,241.20	14,704.44	7,251.60	124.21	124.47	90.83	252.04	-6,898.92	720.51	471.31	249.20	2.891	
14,800.00	7,241.17	14,804.44	7,251.66	125.86	126.12	90.83	252.19	-6,998.92	720.47	467.95	252.51	2.853	
14,900.00	7,241.15	14,895.56	7,251.71	127.52	127.63	90.84	252.34	-7,098.92	720.42	464.75	255.68	2.818	
15,000.00	7,241.12	15,004.44	7,251.76	129.18	129.44	90.85	252.48	-7,198.92	720.38	461.25	259.14	2.780	
15,100.00	7,241.10	15,104.44	7,251.81	130.83	131.09	90.85	252.63	-7,298.92	720.34	457.89	262.45	2.745	
15,200.00	7,241.07	15,204.44	7,251.86	132.49	132.75	90.86	252.78	-7,398.92	720.30	454.53	265.76	2.710	
15,300.00	7,241.04	15,304.44	7,251.91	134.15	134.41	90.86	252.93	-7,498.92	720.25	451.18	269.08	2.677	
15,400.00	7,241.02	15,404.44	7,251.96	135.81	136.07	90.87	253.07	-7,598.92	720.21	447.82	272.39	2.644	
15,471.99	7,241.00	15,467.55	7,252.00	137.00	137.11	90.88	253.18	-7,670.91	720.18	445.55	274.63	2.622 SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.73	-59.75	0.28	59.75				
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-59.75	0.28	59.75	52.22	7.53	7.936	
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-59.75	0.28	59.75	52.18	7.57	7.889	CC, ES
300.00	299.98	298.33	298.31	3.35	3.34	60.60	-61.11	1.27	60.27	52.62	7.65	7.877	
400.00	399.84	396.64	396.48	3.41	3.40	61.95	-65.20	4.25	61.87	54.11	7.76	7.970	
500.00	499.45	494.88	494.36	3.50	3.49	64.04	-72.00	9.21	64.60	56.68	7.92	8.158	
600.00	598.70	593.04	591.81	3.61	3.60	66.68	-81.50	16.14	68.56	60.43	8.13	8.433	
700.00	697.70	691.07	688.67	3.76	3.75	68.65	-93.67	25.02	74.37	65.97	8.40	8.855	
800.00	796.69	788.83	784.69	3.94	3.94	68.66	-108.47	35.81	82.64	73.92	8.72	9.479	
900.00	895.68	888.35	882.11	4.14	4.17	67.91	-124.91	47.80	92.16	83.05	9.11	10.121	
1,000.00	994.67	987.89	979.54	4.36	4.43	67.29	-141.36	59.79	101.69	92.15	9.54	10.664	
1,100.00	1,093.67	1,087.43	1,076.98	4.60	4.72	66.79	-157.81	71.79	111.23	101.23	10.00	11.122	
1,200.00	1,192.66	1,186.96	1,174.41	4.86	5.03	66.36	-174.26	83.78	120.77	110.28	10.50	11.507	
1,300.00	1,291.65	1,286.50	1,271.85	5.12	5.36	65.99	-190.70	95.77	130.33	119.31	11.02	11.831	
1,400.00	1,390.64	1,386.04	1,369.29	5.40	5.70	65.68	-207.15	107.77	139.88	128.33	11.56	12.104	
1,500.00	1,489.64	1,485.58	1,466.72	5.68	6.05	65.40	-223.60	119.76	149.44	137.33	12.12	12.333	
1,600.00	1,588.63	1,585.12	1,564.16	5.98	6.42	65.16	-240.04	131.75	159.01	146.31	12.69	12.526	
1,700.00	1,687.62	1,684.66	1,661.59	6.28	6.79	64.95	-256.49	143.75	168.57	155.29	13.28	12.690	
1,800.00	1,786.61	1,784.20	1,759.03	6.58	7.16	64.76	-272.94	155.74	178.14	164.26	13.88	12.830	
1,900.00	1,885.61	1,883.74	1,856.47	6.75	7.40	64.58	-289.38	167.73	187.71	173.87	13.85	13.555	
2,000.00	1,984.60	1,983.28	1,953.90	6.78	7.47	64.43	-305.83	179.73	197.28	183.36	13.93	14.166	
2,100.00	2,083.59	2,082.82	2,051.34	6.83	7.54	64.29	-322.28	191.72	206.86	192.84	14.01	14.762	
2,200.00	2,182.58	2,182.36	2,148.77	6.89	7.62	64.16	-338.73	203.71	216.43	202.30	14.13	15.317	
2,300.00	2,281.58	2,281.90	2,246.21	6.97	7.72	64.04	-355.17	215.71	226.01	211.73	14.28	15.829	
2,400.00	2,380.57	2,381.44	2,343.65	7.06	7.84	63.94	-371.62	227.70	235.58	221.13	14.46	16.297	
2,500.00	2,479.56	2,480.98	2,441.08	7.17	7.97	63.84	-388.07	239.69	245.16	230.50	14.66	16.721	
2,600.00	2,578.55	2,580.52	2,538.52	7.28	8.11	63.74	-404.51	251.69	254.74	239.84	14.90	17.102	
2,700.00	2,677.55	2,680.06	2,635.95	7.42	8.27	63.66	-420.96	263.68	264.31	249.16	15.15	17.441	
2,800.00	2,776.54	2,779.60	2,733.39	7.56	8.45	63.58	-437.41	275.67	273.89	258.46	15.44	17.741	
2,900.00	2,875.53	2,879.14	2,830.83	7.71	8.64	63.51	-453.85	287.67	283.47	267.73	15.74	18.004	
3,000.00	2,974.52	2,978.68	2,928.26	7.88	8.84	63.44	-470.30	299.66	293.05	276.98	16.07	18.232	
3,100.00	3,073.52	3,078.22	3,025.70	8.05	9.05	63.37	-486.75	311.65	302.63	286.21	16.42	18.428	
3,200.00	3,172.51	3,177.76	3,123.13	8.23	9.27	63.31	-503.20	323.65	312.21	295.42	16.79	18.595	
3,300.00	3,271.50	3,277.29	3,220.57	8.43	9.50	63.25	-519.64	335.64	321.79	304.62	17.18	18.735	
3,400.00	3,370.49	3,376.83	3,318.01	8.63	9.74	63.20	-536.09	347.63	331.37	313.80	17.58	18.852	
3,500.00	3,469.49	3,476.37	3,415.44	8.83	9.98	63.15	-552.54	359.63	340.95	322.96	18.00	18.947	
3,600.00	3,568.48	3,575.91	3,512.88	9.05	10.24	63.10	-568.98	371.62	350.54	332.11	18.43	19.023	
3,700.00	3,667.47	3,675.45	3,610.31	9.27	10.50	63.05	-585.43	383.61	360.12	341.25	18.87	19.082	
3,800.00	3,766.46	3,774.99	3,707.75	9.50	10.77	63.01	-601.88	395.61	369.70	350.37	19.33	19.126	
3,900.00	3,865.46	3,874.53	3,805.19	9.73	11.04	62.97	-618.32	407.60	379.28	359.48	19.80	19.157	
4,000.00	3,964.45	3,974.07	3,902.62	9.97	11.32	62.93	-634.77	419.59	388.86	368.59	20.28	19.177	
4,100.00	4,063.44	4,073.61	4,000.06	10.21	11.61	62.89	-651.22	431.59	398.45	377.68	20.77	19.186	
4,200.00	4,162.43	4,173.15	4,097.49	10.46	11.90	62.86	-667.66	443.58	408.03	386.76	21.27	19.187	
4,300.00	4,261.43	4,272.69	4,194.93	10.71	12.20	62.83	-684.11	455.57	417.61	395.84	21.77	19.180	
4,400.00	4,360.42	4,372.23	4,292.37	10.97	12.50	62.79	-700.56	467.57	427.19	404.91	22.29	19.167	
4,500.00	4,459.41	4,471.77	4,389.80	11.23	12.80	62.76	-717.01	479.56	436.78	413.97	22.81	19.148	
4,600.00	4,558.40	4,571.31	4,487.24	11.49	13.11	62.73	-733.45	491.55	446.36	423.02	23.34	19.125	
4,700.00	4,657.40	4,670.85	4,584.67	11.75	13.42	62.70	-749.90	503.55	455.94	432.07	23.87	19.097	
4,800.00	4,756.39	4,770.39	4,682.11	12.02	13.73	62.68	-766.35	515.54	465.53	441.11	24.42	19.066	
4,900.00	4,855.38	4,869.93	4,779.55	12.29	14.05	62.65	-782.79	527.53	475.11	450.15	24.96	19.032	
5,000.00	4,954.37	4,969.47	4,876.98	12.57	14.37	62.63	-799.24	539.53	484.69	459.18	25.52	18.996	
5,100.00	5,053.37	5,069.01	4,974.42	12.85	14.69	62.60	-815.69	551.52	494.28	468.20	26.07	18.957	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,168.55	5,071.85	13.12	15.01	62.58	-832.13	563.51	503.86	477.23	26.63	18.917		
5,300.00	5,251.35	5,268.08	5,169.29	13.41	15.34	62.56	-848.58	575.51	513.44	486.24	27.20	18.876		
5,400.00	5,350.34	5,367.62	5,266.73	13.69	15.67	62.54	-865.03	587.50	523.03	495.26	27.77	18.834		
5,500.00	5,449.34	5,467.16	5,364.16	13.97	16.00	62.52	-881.48	599.49	532.61	504.27	28.34	18.791		
5,600.00	5,548.33	5,566.70	5,461.60	14.26	16.33	62.50	-897.92	611.49	542.20	513.27	28.92	18.747		
5,700.00	5,647.32	5,666.24	5,559.03	14.55	16.67	62.48	-914.37	623.48	551.78	522.28	29.50	18.703		
5,800.00	5,746.31	5,765.78	5,656.47	14.84	17.00	62.46	-930.82	635.47	561.36	531.28	30.09	18.659		
5,900.00	5,845.31	5,865.32	5,753.91	15.13	17.34	62.44	-947.26	647.47	570.95	540.28	30.67	18.614		
6,000.00	5,944.30	5,964.86	5,851.34	15.42	17.68	62.42	-963.71	659.46	580.53	549.27	31.26	18.570		
6,100.00	6,043.29	6,064.40	5,948.78	15.72	18.02	62.41	-980.16	671.45	590.12	558.26	31.85	18.526		
6,200.00	6,142.28	6,163.94	6,046.21	16.01	18.36	62.39	-996.60	683.45	599.70	567.25	32.45	18.482		
6,300.00	6,241.28	6,263.48	6,143.65	16.31	18.70	62.37	-1,013.05	695.44	609.28	576.24	33.04	18.438		
6,400.00	6,340.27	6,363.02	6,241.09	16.61	19.05	62.36	-1,029.50	707.43	618.87	585.22	33.64	18.395		
6,500.00	6,439.26	6,462.56	6,338.52	16.90	19.39	62.34	-1,045.95	719.43	628.45	594.21	34.24	18.352		
6,600.00	6,538.26	6,562.10	6,435.96	17.20	19.74	59.46	-1,062.39	731.42	638.04	603.19	34.84	18.311		
6,700.00	6,637.86	6,661.13	6,532.90	17.38	20.09	-31.62	-1,078.76	743.35	647.31	612.03	35.28	18.349		
6,800.00	6,736.73	6,757.54	6,627.27	17.50	20.42	-69.95	-1,094.69	754.97	656.52	620.98	35.54	18.474		
6,900.00	6,832.42	6,852.96	6,720.95	17.58	20.69	-79.89	-1,110.50	763.21	666.91	631.28	35.63	18.716		
7,000.00	6,922.59	6,954.50	6,820.79	17.62	20.88	-85.17	-1,127.33	757.09	678.79	643.13	35.66	19.033		
7,100.00	7,005.01	7,063.36	6,925.29	17.63	21.04	-88.91	-1,144.92	732.76	691.73	656.07	35.67	19.395		
7,200.00	7,077.65	7,180.86	7,031.72	17.64	21.14	-91.90	-1,162.82	686.70	705.11	669.45	35.66	19.774		
7,300.00	7,138.73	7,308.22	7,135.51	17.64	21.19	-94.39	-1,180.24	615.37	718.07	682.39	35.68	20.127		
7,400.00	7,186.74	7,446.08	7,229.66	17.69	21.18	-96.44	-1,196.01	516.28	729.60	693.79	35.81	20.377		
7,500.00	7,220.49	7,593.97	7,304.79	17.80	21.11	-97.97	-1,208.53	389.90	738.58	702.39	36.19	20.407		
7,600.00	7,239.17	7,749.71	7,350.66	18.02	20.98	-98.89	-1,216.10	241.67	744.00	707.02	36.98	20.120		
7,700.00	7,243.00	7,907.08	7,360.99	18.40	20.80	-99.11	-1,217.67	99.09	745.31	707.17	38.14	19.543		
7,800.00	7,242.97	8,007.08	7,360.96	18.96	20.70	-99.11	-1,217.55	-0.91	745.38	706.13	39.24	18.994		
7,900.00	7,242.95	8,107.08	7,360.94	19.67	21.29	-99.11	-1,217.43	-100.91	745.45	704.85	40.59	18.363		
8,000.00	7,242.92	8,207.08	7,360.91	20.51	22.14	-99.11	-1,217.31	-200.91	745.52	703.35	42.17	17.680		
8,100.00	7,242.89	8,307.08	7,360.89	21.45	23.08	-99.11	-1,217.19	-300.91	745.59	701.65	43.94	16.969		
8,200.00	7,242.87	8,407.08	7,360.86	22.48	24.09	-99.10	-1,217.07	-400.91	745.66	699.77	45.88	16.251		
8,300.00	7,242.84	8,507.08	7,360.84	23.59	25.17	-99.10	-1,216.95	-500.91	745.73	697.75	47.98	15.542		
8,400.00	7,242.82	8,607.08	7,360.81	24.76	26.30	-99.10	-1,216.83	-600.91	745.80	695.59	50.21	14.853		
8,500.00	7,242.79	8,707.08	7,360.79	25.98	27.48	-99.10	-1,216.71	-700.91	745.87	693.31	52.56	14.191		
8,600.00	7,242.77	8,807.08	7,360.76	27.25	28.71	-99.10	-1,216.59	-800.91	745.94	690.93	55.01	13.561		
8,700.00	7,242.74	8,907.08	7,360.73	28.56	29.98	-99.10	-1,216.47	-900.91	746.01	688.47	57.54	12.965		
8,800.00	7,242.71	9,007.08	7,360.71	29.91	31.29	-99.10	-1,216.35	-1,000.91	746.08	685.93	60.15	12.403		
8,900.00	7,242.69	9,107.08	7,360.68	31.29	32.63	-99.10	-1,216.23	-1,100.91	746.15	683.32	62.83	11.875		
9,000.00	7,242.66	9,207.08	7,360.66	32.69	33.99	-99.10	-1,216.11	-1,200.91	746.22	680.65	65.57	11.380		
9,100.00	7,242.64	9,307.08	7,360.63	34.12	35.38	-99.10	-1,215.99	-1,300.91	746.29	677.93	68.36	10.916		
9,200.00	7,242.61	9,407.08	7,360.61	35.57	36.80	-99.10	-1,215.88	-1,400.91	746.36	675.16	71.20	10.483		
9,300.00	7,242.59	9,492.92	7,360.58	37.04	38.03	-99.10	-1,215.76	-1,500.91	746.43	672.56	73.87	10.104		
9,400.00	7,242.56	9,625.56	7,360.55	38.53	39.95	-99.13	-1,212.78	-1,633.51	744.43	667.44	76.99	9.669		
9,500.00	7,242.53	9,759.58	7,360.51	40.03	41.91	-99.24	-1,203.54	-1,767.19	737.81	657.82	80.00	9.223		
9,600.00	7,242.51	9,860.57	7,360.49	41.54	43.40	-99.36	-1,194.04	-1,867.73	728.71	645.78	82.93	8.787		
9,700.00	7,242.48	9,960.14	7,360.46	43.07	44.88	-99.48	-1,184.66	-1,966.86	719.61	633.72	85.89	8.379		
9,800.00	7,242.46	10,059.71	7,360.44	44.60	46.38	-99.60	-1,175.29	-2,065.99	710.51	621.65	88.87	7.995		
9,900.00	7,242.43	10,159.29	7,360.41	46.14	47.88	-99.73	-1,165.91	-2,165.13	701.42	609.55	91.86	7.636		
10,000.00	7,242.41	10,258.86	7,360.39	47.70	49.40	-99.85	-1,156.54	-2,264.26	692.32	597.45	94.87	7.297		
10,100.00	7,242.38	10,358.43	7,360.36	49.26	50.92	-99.99	-1,147.16	-2,363.39	683.24	585.33	97.90	6.979		
10,200.00	7,242.35	10,458.01	7,360.34	50.83	52.45	-100.12	-1,137.79	-2,462.52	674.15	573.21	100.94	6.679		
10,300.00	7,242.33	10,557.58	7,360.31	52.40	53.99	-100.26	-1,128.41	-2,561.65	665.07	561.08	103.99	6.395		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,657.15	7,360.28	53.98	55.54	-100.41	-1,119.03	-2,660.78	655.99	548.94	107.05	6.128		
10,500.00	7,242.28	10,756.73	7,360.26	55.57	57.10	-100.55	-1,109.66	-2,759.91	646.92	536.80	110.12	5.875		
10,600.00	7,242.25	10,856.30	7,360.23	57.16	58.66	-100.71	-1,100.28	-2,859.04	637.85	524.66	113.19	5.635		
10,700.00	7,242.23	10,947.49	7,360.21	58.75	60.09	-100.84	-1,091.96	-2,949.85	629.10	512.78	116.32	5.408		
10,800.00	7,242.20	11,029.65	7,360.19	60.35	61.39	-100.94	-1,086.51	-3,031.83	622.77	503.32	119.45	5.213		
10,900.00	7,242.17	11,112.06	7,360.17	61.95	62.70	-100.99	-1,083.41	-3,114.17	619.26	496.73	122.53	5.054		
11,000.00	7,242.15	11,200.74	7,360.15	63.56	64.11	-101.00	-1,082.58	-3,201.37	618.48	492.86	125.62	4.923		
11,100.00	7,242.12	11,300.74	7,360.12	65.17	65.71	-101.00	-1,082.36	-3,301.37	618.45	489.66	128.79	4.802		
11,200.00	7,242.10	11,400.74	7,360.09	66.78	67.30	-101.00	-1,082.13	-3,401.37	618.42	486.45	131.96	4.686		
11,300.00	7,242.07	11,500.74	7,360.07	68.40	68.91	-101.00	-1,081.91	-3,501.37	618.39	483.24	135.15	4.576		
11,400.00	7,242.05	11,600.74	7,360.04	70.01	70.51	-101.00	-1,081.69	-3,601.37	618.36	480.02	138.34	4.470		
11,500.00	7,242.02	11,700.74	7,360.02	71.63	72.12	-101.00	-1,081.47	-3,701.37	618.33	476.80	141.53	4.369		
11,600.00	7,241.99	11,800.74	7,359.99	73.26	73.74	-101.00	-1,081.25	-3,801.37	618.29	473.57	144.73	4.272		
11,700.00	7,241.97	11,900.74	7,359.97	74.88	75.35	-101.00	-1,081.02	-3,901.37	618.26	470.33	147.93	4.179		
11,800.00	7,241.94	12,000.74	7,359.94	76.51	76.97	-101.00	-1,080.80	-4,001.37	618.23	467.09	151.14	4.090		
11,900.00	7,241.92	12,100.74	7,359.92	78.14	78.59	-101.00	-1,080.58	-4,101.37	618.20	463.85	154.35	4.005		
12,000.00	7,241.89	12,200.74	7,359.89	79.77	80.21	-101.00	-1,080.36	-4,201.37	618.17	460.60	157.57	3.923		
12,100.00	7,241.87	12,300.74	7,359.86	81.40	81.83	-101.00	-1,080.13	-4,301.37	618.14	457.35	160.79	3.844		
12,200.00	7,241.84	12,400.74	7,359.84	83.03	83.46	-101.01	-1,079.91	-4,401.37	618.11	454.10	164.01	3.769		
12,300.00	7,241.82	12,500.74	7,359.81	84.67	85.08	-101.01	-1,079.69	-4,501.37	618.08	450.84	167.24	3.696		
12,400.00	7,241.79	12,600.74	7,359.79	86.31	86.71	-101.01	-1,079.47	-4,601.37	618.05	447.58	170.47	3.626		
12,500.00	7,241.76	12,700.74	7,359.76	87.94	88.34	-101.01	-1,079.25	-4,701.37	618.02	444.32	173.70	3.558		
12,600.00	7,241.74	12,800.74	7,359.74	89.58	89.97	-101.01	-1,079.02	-4,801.37	617.99	441.06	176.93	3.493		
12,700.00	7,241.71	12,900.74	7,359.71	91.22	91.61	-101.01	-1,078.80	-4,901.37	617.96	437.79	180.17	3.430		
12,800.00	7,241.69	13,000.74	7,359.68	92.87	93.24	-101.01	-1,078.58	-5,001.37	617.93	434.52	183.41	3.369		
12,900.00	7,241.66	13,100.74	7,359.66	94.51	94.88	-101.01	-1,078.36	-5,101.37	617.90	431.25	186.65	3.310		
13,000.00	7,241.64	13,200.74	7,359.63	96.15	96.51	-101.01	-1,078.13	-5,201.37	617.87	427.97	189.90	3.254		
13,100.00	7,241.61	13,300.74	7,359.61	97.80	98.15	-101.01	-1,077.91	-5,301.37	617.84	424.69	193.14	3.199		
13,200.00	7,241.58	13,400.74	7,359.58	99.44	99.79	-101.01	-1,077.69	-5,401.36	617.81	421.41	196.39	3.146		
13,300.00	7,241.56	13,500.74	7,359.56	101.09	101.43	-101.01	-1,077.47	-5,501.36	617.77	418.13	199.64	3.094		
13,400.00	7,241.53	13,600.74	7,359.53	102.73	103.07	-101.01	-1,077.24	-5,601.36	617.74	414.85	202.89	3.045		
13,500.00	7,241.51	13,700.74	7,359.50	104.38	104.72	-101.01	-1,077.02	-5,701.36	617.71	411.57	206.15	2.996		
13,600.00	7,241.48	13,800.74	7,359.48	106.03	106.36	-101.01	-1,076.80	-5,801.36	617.68	408.28	209.40	2.950		
13,700.00	7,241.46	13,900.74	7,359.45	107.68	108.00	-101.01	-1,076.58	-5,901.36	617.65	404.99	212.66	2.904		
13,800.00	7,241.43	14,000.74	7,359.43	109.33	109.65	-101.01	-1,076.36	-6,001.36	617.62	401.71	215.92	2.860		
13,900.00	7,241.40	14,100.74	7,359.40	110.98	111.29	-101.01	-1,076.13	-6,101.36	617.59	398.42	219.18	2.818		
14,000.00	7,241.38	14,200.74	7,359.38	112.63	112.94	-101.02	-1,075.91	-6,201.36	617.56	395.12	222.44	2.776		
14,100.00	7,241.35	14,300.74	7,359.35	114.29	114.59	-101.02	-1,075.69	-6,301.36	617.53	391.83	225.70	2.736		
14,200.00	7,241.33	14,400.74	7,359.33	115.94	116.24	-101.02	-1,075.47	-6,401.36	617.50	388.54	228.96	2.697		
14,300.00	7,241.30	14,500.74	7,359.30	117.59	117.88	-101.02	-1,075.24	-6,501.36	617.47	385.24	232.23	2.659		
14,400.00	7,241.28	14,600.74	7,359.27	119.24	119.53	-101.02	-1,075.02	-6,601.36	617.44	381.95	235.49	2.622		
14,500.00	7,241.25	14,700.74	7,359.25	120.90	121.18	-101.02	-1,074.80	-6,701.36	617.41	378.65	238.76	2.586		
14,600.00	7,241.22	14,800.74	7,359.22	122.55	122.83	-101.02	-1,074.58	-6,801.36	617.38	375.35	242.03	2.551		
14,700.00	7,241.20	14,900.74	7,359.20	124.21	124.49	-101.02	-1,074.36	-6,901.36	617.35	372.05	245.30	2.517		
14,800.00	7,241.17	15,000.74	7,359.17	125.86	126.14	-101.02	-1,074.13	-7,001.36	617.32	368.75	248.57	2.484		
14,900.00	7,241.15	15,100.74	7,359.15	127.52	127.79	-101.02	-1,073.91	-7,101.36	617.29	365.45	251.84	2.451		
15,000.00	7,241.12	15,200.74	7,359.12	129.18	129.44	-101.02	-1,073.69	-7,201.36	617.25	362.15	255.11	2.420		
15,100.00	7,241.10	15,300.74	7,359.09	130.83	131.09	-101.02	-1,073.47	-7,301.36	617.22	358.84	258.38	2.389		
15,200.00	7,241.07	15,400.74	7,359.07	132.49	132.75	-101.02	-1,073.24	-7,401.36	617.19	355.54	261.65	2.359		
15,300.00	7,241.04	15,500.74	7,359.04	134.15	134.40	-101.02	-1,073.02	-7,501.36	617.16	352.24	264.93	2.330		
15,400.00	7,241.02	15,599.26	7,359.02	135.81	136.03	-101.02	-1,072.80	-7,601.36	617.13	348.95	268.18	2.301		
15,471.99	7,241.00	15,671.25	7,359.00	137.00	137.22	-101.02	-1,072.64	-7,673.35	617.11	346.58	270.53	2.281 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	179.80	-79.78	0.28	79.78				
100.00	100.00	100.00	100.00	3.28	3.28	179.80	-79.78	0.28	79.78	72.25	7.53	10.597	
200.00	200.00	200.00	200.00	3.31	3.31	179.80	-79.78	0.28	79.78	72.21	7.57	10.534	CC, ES
300.00	299.98	297.72	297.70	3.35	3.34	60.59	-81.17	1.20	80.34	72.69	7.65	10.499	
400.00	399.84	395.41	395.26	3.41	3.40	61.74	-85.33	3.96	82.04	74.28	7.76	10.570	
500.00	499.45	493.02	492.51	3.50	3.49	63.53	-92.26	8.55	84.94	77.03	7.92	10.732	
600.00	598.70	590.53	589.33	3.61	3.59	65.84	-101.93	14.97	89.14	81.02	8.12	10.975	
700.00	697.70	687.91	685.55	3.76	3.74	67.76	-114.32	23.19	95.29	86.90	8.39	11.364	
800.00	796.69	785.00	780.94	3.94	3.93	68.21	-129.39	33.17	104.03	95.33	8.70	11.956	
900.00	895.68	882.60	876.21	4.14	4.16	67.55	-147.07	44.90	115.15	106.08	9.07	12.695	
1,000.00	994.67	981.90	972.98	4.36	4.43	66.79	-165.63	57.21	126.82	117.32	9.50	13.349	
1,100.00	1,093.67	1,081.21	1,069.76	4.60	4.74	66.16	-184.19	69.51	138.50	128.54	9.97	13.897	
1,200.00	1,192.66	1,180.51	1,166.53	4.86	5.06	65.62	-202.75	81.82	150.21	139.74	10.46	14.355	
1,300.00	1,291.65	1,279.82	1,263.31	5.12	5.41	65.16	-221.31	94.13	161.92	150.93	10.99	14.737	
1,400.00	1,390.64	1,379.12	1,360.08	5.40	5.77	64.77	-239.87	106.44	173.64	162.11	11.53	15.057	
1,500.00	1,489.64	1,478.43	1,456.85	5.68	6.15	64.42	-258.43	118.75	185.37	173.27	12.10	15.325	
1,600.00	1,588.63	1,577.73	1,553.63	5.98	6.53	64.12	-276.99	131.06	197.10	184.43	12.68	15.549	
1,700.00	1,687.62	1,677.03	1,650.40	6.28	6.92	63.85	-295.55	143.37	208.84	195.57	13.27	15.738	
1,800.00	1,786.61	1,776.34	1,747.18	6.58	7.33	63.61	-314.11	155.67	220.59	206.71	13.88	15.897	
1,900.00	1,885.61	1,875.64	1,843.95	6.75	7.59	63.39	-332.67	167.98	232.33	218.48	13.85	16.772	
2,000.00	1,984.60	1,974.95	1,940.73	6.78	7.69	63.19	-351.23	180.29	244.08	230.14	13.94	17.506	
2,100.00	2,083.59	2,074.25	2,037.50	6.83	7.76	63.02	-369.79	192.60	255.83	241.81	14.03	18.239	
2,200.00	2,182.58	2,173.55	2,134.28	6.89	7.84	62.85	-388.35	204.91	267.59	253.45	14.14	18.920	
2,300.00	2,281.58	2,272.86	2,231.05	6.97	7.95	62.70	-406.92	217.22	279.35	265.06	14.29	19.548	
2,400.00	2,380.57	2,372.16	2,327.82	7.06	8.07	62.57	-425.48	229.52	291.10	276.64	14.47	20.120	
2,500.00	2,479.56	2,471.47	2,424.60	7.17	8.21	62.44	-444.04	241.83	302.86	288.19	14.68	20.638	
2,600.00	2,578.55	2,570.77	2,521.37	7.28	8.37	62.32	-462.60	254.14	314.62	299.71	14.91	21.101	
2,700.00	2,677.55	2,670.07	2,618.15	7.42	8.54	62.22	-481.16	266.45	326.39	311.22	15.17	21.513	
2,800.00	2,776.54	2,769.38	2,714.92	7.56	8.72	62.12	-499.72	278.76	338.15	322.69	15.46	21.876	
2,900.00	2,875.53	2,868.68	2,811.70	7.71	8.92	62.02	-518.28	291.07	349.91	334.15	15.77	22.192	
3,000.00	2,974.52	2,967.99	2,908.47	7.88	9.13	61.93	-536.84	303.37	361.68	345.58	16.10	22.465	
3,100.00	3,073.52	3,067.29	3,005.25	8.05	9.35	61.85	-555.40	315.68	373.45	356.99	16.45	22.698	
3,200.00	3,172.51	3,166.59	3,102.02	8.23	9.58	61.77	-573.96	327.99	385.21	368.39	16.82	22.896	
3,300.00	3,271.50	3,265.90	3,198.79	8.43	9.83	61.70	-592.52	340.30	396.98	379.76	17.21	23.060	
3,400.00	3,370.49	3,365.20	3,295.57	8.63	10.08	61.63	-611.08	352.61	408.75	391.13	17.62	23.196	
3,500.00	3,469.49	3,464.51	3,392.34	8.83	10.34	61.57	-629.64	364.92	420.52	402.47	18.04	23.305	
3,600.00	3,568.48	3,563.81	3,489.12	9.05	10.61	61.51	-648.21	377.22	432.28	413.80	18.48	23.390	
3,700.00	3,667.47	3,663.11	3,585.89	9.27	10.88	61.45	-666.77	389.53	444.05	425.12	18.93	23.455	
3,800.00	3,766.46	3,762.42	3,682.67	9.50	11.17	61.39	-685.33	401.84	455.82	436.43	19.39	23.502	
3,900.00	3,865.46	3,861.72	3,779.44	9.73	11.45	61.34	-703.89	414.15	467.59	447.72	19.87	23.533	
4,000.00	3,964.45	3,961.03	3,876.22	9.97	11.75	61.29	-722.45	426.46	479.36	459.01	20.35	23.550	
4,100.00	4,063.44	4,060.33	3,972.99	10.21	12.05	61.25	-741.01	438.77	491.14	470.29	20.85	23.556	
4,200.00	4,162.43	4,159.63	4,069.76	10.46	12.35	61.20	-759.57	451.07	502.91	481.55	21.35	23.550	
4,300.00	4,261.43	4,258.94	4,168.54	10.71	12.66	61.16	-778.13	463.38	514.68	492.81	21.87	23.536	
4,400.00	4,360.42	4,358.24	4,263.31	10.97	12.98	61.12	-796.69	475.69	526.45	504.06	22.39	23.514	
4,500.00	4,459.41	4,457.55	4,360.09	11.23	13.30	61.08	-815.25	488.00	538.22	515.31	22.92	23.485	
4,600.00	4,558.40	4,556.85	4,456.86	11.49	13.62	61.04	-833.81	500.31	549.99	526.54	23.45	23.451	
4,700.00	4,657.40	4,656.15	4,553.64	11.75	13.94	61.00	-852.37	512.62	561.77	537.77	23.99	23.412	
4,800.00	4,756.39	4,755.46	4,650.41	12.02	14.27	60.97	-870.93	524.93	573.54	549.00	24.54	23.369	
4,900.00	4,855.38	4,854.76	4,747.19	12.29	14.60	60.94	-889.49	537.23	585.31	560.22	25.10	23.323	
5,000.00	4,954.37	4,954.07	4,843.96	12.57	14.94	60.90	-908.06	549.54	597.09	571.43	25.66	23.274	
5,100.00	5,053.37	5,053.37	4,940.73	12.85	15.27	60.87	-926.62	561.85	608.86	582.64	26.22	23.222	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,152.67	5,037.51	13.12	15.61	60.84	-945.18	574.16	620.63	593.85	26.79	23.169		
5,300.00	5,251.35	5,251.98	5,134.28	13.41	15.95	60.82	-963.74	586.47	632.41	605.05	27.36	23.115		
5,400.00	5,350.34	5,351.28	5,231.06	13.69	16.30	60.79	-982.30	598.78	644.18	616.24	27.94	23.059		
5,500.00	5,449.34	5,450.59	5,327.83	13.97	16.64	60.76	-1,000.86	611.08	655.95	627.44	28.52	23.003		
5,600.00	5,548.33	5,549.89	5,424.61	14.26	16.99	60.74	-1,019.42	623.39	667.73	638.63	29.10	22.946		
5,700.00	5,647.32	5,649.19	5,521.38	14.55	17.34	60.71	-1,037.98	635.70	679.50	649.82	29.69	22.889		
5,800.00	5,746.31	5,748.50	5,618.16	14.84	17.69	60.69	-1,056.54	648.01	691.28	661.00	30.28	22.831		
5,900.00	5,845.31	5,847.80	5,714.93	15.13	18.05	60.67	-1,075.10	660.32	703.05	672.18	30.87	22.774		
6,000.00	5,944.30	5,947.11	5,811.70	15.42	18.40	60.64	-1,093.66	672.63	714.83	683.36	31.47	22.717		
6,100.00	6,043.29	6,046.41	5,908.48	15.72	18.76	60.62	-1,112.22	684.93	726.60	694.53	32.07	22.660		
6,200.00	6,142.28	6,145.71	6,005.25	16.01	19.11	60.60	-1,130.78	697.24	738.37	705.71	32.67	22.604		
6,300.00	6,241.28	6,245.02	6,102.03	16.31	19.47	60.58	-1,149.34	709.55	750.15	716.88	33.27	22.547		
6,400.00	6,340.27	6,344.32	6,198.80	16.61	19.83	60.56	-1,167.91	721.86	761.92	728.05	33.88	22.492		
6,500.00	6,439.26	6,443.63	6,295.58	16.90	20.19	60.54	-1,186.47	734.17	773.70	739.22	34.48	22.437		
6,600.00	6,538.26	6,542.93	6,392.35	17.20	20.55	57.67	-1,205.03	746.48	785.47	750.38	35.09	22.385		
6,700.00	6,637.86	6,641.11	6,488.07	17.38	20.90	-33.00	-1,223.39	758.28	797.21	761.68	35.53	22.437		
6,800.00	6,736.73	6,737.80	6,582.91	17.50	21.12	-69.98	-1,241.71	759.66	809.14	773.34	35.80	22.603		
6,900.00	6,832.42	6,836.61	6,678.85	17.58	21.30	-77.78	-1,260.43	745.97	821.14	785.17	35.97	22.828		
7,000.00	6,922.59	6,937.75	6,773.66	17.62	21.44	-80.89	-1,279.13	716.47	832.92	796.85	36.07	23.090		
7,100.00	7,005.01	7,041.42	6,864.79	17.63	21.53	-82.52	-1,297.31	670.77	844.19	808.05	36.14	23.359		
7,200.00	7,077.65	7,147.74	6,949.38	17.64	21.58	-83.50	-1,314.42	608.90	854.62	818.40	36.22	23.594		
7,300.00	7,138.73	7,256.71	7,024.33	17.64	21.59	-84.13	-1,329.87	531.50	863.91	827.53	36.39	23.743		
7,400.00	7,186.74	7,368.24	7,086.45	17.69	21.55	-84.57	-1,343.01	439.98	871.77	835.06	36.71	23.748		
7,500.00	7,220.49	7,482.05	7,132.68	17.80	21.48	-84.86	-1,353.22	336.66	877.92	840.67	37.25	23.569		
7,600.00	7,239.17	7,597.70	7,160.40	18.02	21.37	-85.05	-1,359.95	224.74	882.14	844.11	38.04	23.192		
7,700.00	7,243.00	7,711.86	7,168.03	18.40	21.24	-85.14	-1,362.83	111.01	884.31	845.25	39.06	22.641		
7,800.00	7,242.97	7,811.85	7,168.21	18.96	21.14	-85.16	-1,364.09	11.03	885.75	845.51	40.24	22.012		
7,900.00	7,242.95	7,911.84	7,168.39	19.67	21.24	-85.18	-1,365.36	-88.95	887.18	845.52	41.66	21.298		
8,000.00	7,242.92	8,011.83	7,168.57	20.51	22.00	-85.20	-1,366.62	-188.93	888.61	845.33	43.29	20.529		
8,100.00	7,242.89	8,111.82	7,168.75	21.45	22.91	-85.22	-1,367.89	-288.91	890.05	844.94	45.11	19.732		
8,200.00	7,242.87	8,211.81	7,168.93	22.48	23.91	-85.24	-1,369.15	-388.89	891.48	844.39	47.09	18.930		
8,300.00	7,242.84	8,311.80	7,169.11	23.59	24.97	-85.26	-1,370.42	-488.87	892.91	843.69	49.23	18.139		
8,400.00	7,242.82	8,411.79	7,169.29	24.76	26.09	-85.28	-1,371.68	-588.86	894.35	842.86	51.49	17.369		
8,500.00	7,242.79	8,511.78	7,169.47	25.98	27.26	-85.30	-1,372.94	-688.84	895.78	841.92	53.87	16.630		
8,600.00	7,242.77	8,611.77	7,169.65	27.25	28.48	-85.32	-1,374.21	-788.82	897.22	840.88	56.34	15.926		
8,700.00	7,242.74	8,711.76	7,169.82	28.56	29.74	-85.35	-1,375.47	-888.80	898.65	839.75	58.90	15.258		
8,800.00	7,242.71	8,811.74	7,170.00	29.91	31.04	-85.37	-1,376.74	-988.78	900.08	838.56	61.53	14.629		
8,900.00	7,242.69	8,911.73	7,170.18	31.29	32.37	-85.39	-1,378.00	-1,088.76	901.52	837.29	64.23	14.036		
9,000.00	7,242.66	9,011.72	7,170.36	32.69	33.72	-85.41	-1,379.27	-1,188.74	902.95	835.97	66.98	13.480		
9,100.00	7,242.64	9,111.71	7,170.54	34.12	35.11	-85.43	-1,380.53	-1,288.72	904.39	834.60	69.79	12.959		
9,200.00	7,242.61	9,211.70	7,170.72	35.57	36.51	-85.45	-1,381.80	-1,388.70	905.82	833.18	72.64	12.470		
9,300.00	7,242.59	9,311.69	7,170.90	37.04	37.94	-85.47	-1,383.06	-1,488.69	907.26	831.73	75.53	12.012		
9,400.00	7,242.56	9,411.68	7,171.08	38.53	39.39	-85.49	-1,384.32	-1,588.67	908.69	830.24	78.46	11.582		
9,500.00	7,242.53	9,511.67	7,171.26	40.03	40.85	-85.51	-1,385.59	-1,688.65	910.13	828.71	81.41	11.179		
9,600.00	7,242.51	9,611.66	7,171.44	41.54	42.33	-85.53	-1,386.85	-1,788.63	911.56	827.16	84.40	10.800		
9,700.00	7,242.48	9,711.65	7,171.62	43.07	43.82	-85.55	-1,388.12	-1,888.61	913.00	825.59	87.41	10.445		
9,800.00	7,242.46	9,811.64	7,171.80	44.60	45.32	-85.57	-1,389.38	-1,988.59	914.43	823.99	90.44	10.110		
9,900.00	7,242.43	9,911.63	7,171.98	46.14	46.83	-85.59	-1,390.65	-2,088.57	915.87	822.37	93.50	9.795		
10,000.00	7,242.41	10,011.61	7,172.15	47.70	48.35	-85.61	-1,391.91	-2,188.55	917.30	820.73	96.57	9.499		
10,100.00	7,242.38	10,111.60	7,172.33	49.26	49.89	-85.63	-1,393.18	-2,288.53	918.74	819.08	99.66	9.219		
10,200.00	7,242.35	10,211.59	7,172.51	50.83	51.43	-85.65	-1,394.44	-2,388.51	920.18	817.41	102.77	8.954		
10,300.00	7,242.33	10,311.58	7,172.69	52.40	52.97	-85.67	-1,395.70	-2,488.50	921.61	815.73	105.89	8.704		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,242.30	10,411.57	7,172.87	53.98	54.53	-85.69	-1,396.97	-2,588.48	923.05	814.03	109.02	8.467		
10,500.00	7,242.28	10,511.56	7,173.05	55.57	56.09	-85.70	-1,398.23	-2,688.46	924.48	812.32	112.16	8.242		
10,600.00	7,242.25	10,611.55	7,173.23	57.16	57.66	-85.72	-1,399.50	-2,788.44	925.92	810.60	115.32	8.029		
10,700.00	7,242.23	10,716.52	7,173.42	58.75	59.31	-85.74	-1,400.78	-2,893.40	927.33	808.81	118.52	7.824		
10,800.00	7,242.20	10,833.95	7,173.63	60.35	61.16	-85.76	-1,399.93	-3,010.82	926.69	804.89	121.80	7.608		
10,900.00	7,242.17	10,933.94	7,173.81	61.95	62.74	-85.76	-1,398.77	-3,110.81	925.71	800.73	124.99	7.406		
11,000.00	7,242.15	11,033.94	7,173.99	63.56	64.33	-85.77	-1,397.62	-3,210.80	924.73	796.55	128.18	7.214		
11,100.00	7,242.12	11,133.93	7,174.17	65.17	65.92	-85.78	-1,396.46	-3,310.79	923.75	792.37	131.38	7.031		
11,200.00	7,242.10	11,233.93	7,174.35	66.78	67.51	-85.79	-1,395.30	-3,410.77	922.77	788.19	134.59	6.856		
11,300.00	7,242.07	11,333.92	7,174.53	68.40	69.11	-85.80	-1,394.14	-3,510.76	921.79	783.99	137.80	6.689		
11,400.00	7,242.05	11,433.92	7,174.71	70.01	70.71	-85.81	-1,392.98	-3,610.75	920.81	779.79	141.02	6.530		
11,500.00	7,242.02	11,533.91	7,174.89	71.63	72.32	-85.81	-1,391.82	-3,710.74	919.83	775.59	144.24	6.377		
11,600.00	7,241.99	11,633.91	7,175.07	73.26	73.93	-85.82	-1,390.67	-3,810.73	918.85	771.38	147.47	6.231		
11,700.00	7,241.97	11,733.90	7,175.25	74.88	75.54	-85.83	-1,389.51	-3,910.71	917.87	767.17	150.70	6.091		
11,800.00	7,241.94	11,833.90	7,175.43	76.51	77.15	-85.84	-1,388.35	-4,010.70	916.89	762.95	153.94	5.956		
11,900.00	7,241.92	11,933.89	7,175.61	78.14	78.77	-85.85	-1,387.19	-4,110.69	915.91	758.73	157.19	5.827		
12,000.00	7,241.89	12,033.89	7,175.78	79.77	80.38	-85.86	-1,386.03	-4,210.68	914.93	754.50	160.43	5.703		
12,100.00	7,241.87	12,133.88	7,175.96	81.40	82.00	-85.86	-1,384.87	-4,310.67	913.95	750.27	163.68	5.584		
12,200.00	7,241.84	12,233.88	7,176.14	83.03	83.63	-85.87	-1,383.71	-4,410.66	912.97	746.04	166.94	5.469		
12,300.00	7,241.82	12,333.87	7,176.32	84.67	85.25	-85.88	-1,382.56	-4,510.64	911.99	741.80	170.19	5.359		
12,400.00	7,241.79	12,433.87	7,176.50	86.31	86.87	-85.89	-1,381.40	-4,610.63	911.02	737.56	173.45	5.252		
12,500.00	7,241.76	12,533.86	7,176.68	87.94	88.50	-85.90	-1,380.24	-4,710.62	910.04	733.32	176.72	5.150		
12,600.00	7,241.74	12,633.86	7,176.86	89.58	90.13	-85.91	-1,379.08	-4,810.61	909.06	729.07	179.98	5.051		
12,700.00	7,241.71	12,733.85	7,177.04	91.22	91.76	-85.92	-1,377.92	-4,910.60	908.08	724.83	183.25	4.955		
12,800.00	7,241.69	12,833.85	7,177.22	92.87	93.39	-85.92	-1,376.76	-5,010.59	907.10	720.58	186.52	4.863		
12,900.00	7,241.66	12,933.84	7,177.40	94.51	95.03	-85.93	-1,375.61	-5,110.57	906.12	716.32	189.79	4.774		
13,000.00	7,241.64	13,033.84	7,177.58	96.15	96.66	-85.94	-1,374.45	-5,210.56	905.14	712.07	193.07	4.688		
13,100.00	7,241.61	13,133.83	7,177.76	97.80	98.30	-85.95	-1,373.29	-5,310.55	904.16	707.81	196.35	4.605		
13,200.00	7,241.58	13,233.83	7,177.94	99.44	99.94	-85.96	-1,372.13	-5,410.54	903.18	703.55	199.63	4.524		
13,300.00	7,241.56	13,333.82	7,178.12	101.09	101.57	-85.97	-1,370.97	-5,510.53	902.20	699.29	202.91	4.446		
13,400.00	7,241.53	13,433.82	7,178.30	102.73	103.21	-85.98	-1,369.81	-5,610.51	901.22	695.03	206.19	4.371		
13,500.00	7,241.51	13,533.81	7,178.48	104.38	104.85	-85.99	-1,368.66	-5,710.50	900.24	690.76	209.48	4.298		
13,600.00	7,241.48	13,633.81	7,178.66	106.03	106.50	-85.99	-1,367.50	-5,810.49	899.26	686.50	212.77	4.227		
13,700.00	7,241.46	13,733.80	7,178.84	107.68	108.14	-86.00	-1,366.34	-5,910.48	898.28	682.23	216.05	4.158		
13,800.00	7,241.43	13,833.80	7,179.02	109.33	109.78	-86.01	-1,365.18	-6,010.47	897.30	677.96	219.34	4.091		
13,900.00	7,241.40	13,933.79	7,179.20	110.98	111.43	-86.02	-1,364.02	-6,110.46	896.32	673.69	222.64	4.026		
14,000.00	7,241.38	14,033.79	7,179.38	112.63	113.07	-86.03	-1,362.86	-6,210.44	895.34	669.41	225.93	3.963		
14,100.00	7,241.35	14,133.78	7,179.56	114.29	114.72	-86.04	-1,361.71	-6,310.43	894.36	665.14	229.22	3.902		
14,200.00	7,241.33	14,233.78	7,179.74	115.94	116.36	-86.05	-1,360.55	-6,410.42	893.38	660.87	232.52	3.842		
14,300.00	7,241.30	14,333.77	7,179.92	117.59	118.01	-86.06	-1,359.39	-6,510.41	892.41	656.59	235.82	3.784		
14,400.00	7,241.28	14,433.77	7,180.10	119.24	119.66	-86.06	-1,358.23	-6,610.40	891.43	652.31	239.11	3.728		
14,500.00	7,241.25	14,533.76	7,180.28	120.90	121.31	-86.07	-1,357.07	-6,710.39	890.45	648.03	242.41	3.673		
14,600.00	7,241.22	14,633.76	7,180.46	122.55	122.96	-86.08	-1,355.91	-6,810.37	889.47	643.75	245.71	3.620		
14,700.00	7,241.20	14,733.75	7,180.64	124.21	124.61	-86.09	-1,354.75	-6,910.36	888.49	639.47	249.02	3.568		
14,800.00	7,241.17	14,833.75	7,180.82	125.86	126.26	-86.10	-1,353.60	-7,010.35	887.51	635.19	252.32	3.517		
14,900.00	7,241.15	14,933.75	7,181.00	127.52	127.91	-86.11	-1,352.44	-7,110.34	886.53	630.91	255.62	3.468		
15,000.00	7,241.12	15,033.74	7,181.18	129.18	129.56	-86.12	-1,351.28	-7,210.33	885.55	626.63	258.93	3.420		
15,100.00	7,241.10	15,133.74	7,181.36	130.83	131.21	-86.13	-1,350.12	-7,310.31	884.57	622.34	262.23	3.373		
15,200.00	7,241.07	15,233.73	7,181.53	132.49	132.86	-86.14	-1,348.96	-7,410.30	883.59	618.06	265.54	3.328		
15,300.00	7,241.04	15,333.73	7,181.71	134.15	134.52	-86.15	-1,347.80	-7,510.29	882.61	613.77	268.84	3.283		
15,400.00	7,241.02	15,433.72	7,181.89	135.81	136.17	-86.15	-1,346.65	-7,610.28	881.64	609.48	272.15	3.239		
15,467.92	7,241.00	15,501.64	7,182.02	136.93	137.29	-86.16	-1,345.86	-7,678.19	880.97	606.57	274.40	3.211		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,471.99	7,241.00	15,492.61	7,182.00	137.00	137.14	-86.16	-1,345.96	-7,669.16	881.03	606.57	274.46	3.210 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	180.00	-39.71	0.00	39.71				
100.00	100.00	100.00	100.00	3.28	3.28	180.00	-39.71	0.00	39.71	32.18	7.53	5.274	
200.00	200.00	200.00	200.00	3.31	3.31	180.00	-39.71	0.00	39.71	32.13	7.57	5.243	CC, ES
300.00	299.98	299.01	298.99	3.35	3.35	60.85	-40.94	1.18	40.09	32.44	7.65	5.239	
400.00	399.84	398.00	397.84	3.41	3.41	62.14	-44.64	4.73	41.27	33.50	7.77	5.314	
500.00	499.45	496.97	496.44	3.50	3.49	64.13	-50.81	10.64	43.27	35.34	7.93	5.458	
600.00	598.70	595.89	594.63	3.61	3.60	66.62	-59.42	18.90	46.14	38.00	8.14	5.666	
700.00	697.70	694.74	692.29	3.76	3.75	67.86	-70.47	29.50	50.49	42.07	8.42	5.998	
800.00	796.69	805.62	790.34	3.94	3.97	67.08	-83.22	41.73	56.28	47.51	8.78	6.412	
900.00	895.68	905.80	888.57	4.14	4.20	66.40	-96.04	54.02	62.12	52.95	9.17	6.776	
1,000.00	994.67	1,005.97	986.81	4.36	4.45	65.84	-108.86	66.32	67.96	58.36	9.60	7.082	
1,100.00	1,093.67	1,106.14	1,085.04	4.60	4.72	65.36	-121.69	78.61	73.81	63.75	10.06	7.337	
1,200.00	1,192.66	1,206.31	1,183.28	4.86	5.01	64.96	-134.51	90.91	79.66	69.11	10.55	7.550	
1,300.00	1,291.65	1,306.49	1,281.51	5.12	5.31	64.61	-147.33	103.20	85.51	74.45	11.07	7.728	
1,400.00	1,390.64	1,406.66	1,379.74	5.40	5.63	64.31	-160.15	115.50	91.37	79.77	11.60	7.876	
1,500.00	1,489.64	1,506.83	1,477.98	5.68	5.96	64.04	-172.97	127.79	97.23	85.08	12.15	7.999	
1,600.00	1,588.63	1,607.01	1,576.21	5.98	6.29	63.81	-185.79	140.09	103.09	90.37	12.72	8.103	
1,700.00	1,687.62	1,707.18	1,674.45	6.28	6.63	63.60	-198.61	152.38	108.96	95.65	13.31	8.189	
1,800.00	1,786.61	1,792.65	1,772.68	6.58	6.93	63.41	-211.43	164.68	114.82	100.97	13.85	8.289	
1,900.00	1,885.61	1,907.52	1,870.91	6.75	7.15	63.24	-224.25	176.97	120.69	106.88	13.81	8.738	
2,000.00	1,984.60	2,007.70	1,969.15	6.78	7.19	63.08	-237.08	189.27	126.56	112.69	13.87	9.125	
2,100.00	2,083.59	2,107.87	2,067.38	6.83	7.25	62.94	-249.90	201.56	132.42	118.47	13.96	9.488	
2,200.00	2,182.58	2,191.96	2,165.62	6.89	7.32	62.81	-262.72	213.86	138.29	124.23	14.06	9.833	
2,300.00	2,281.58	2,291.78	2,263.85	6.97	7.41	62.69	-275.54	226.15	144.16	129.95	14.21	10.146	
2,400.00	2,380.57	2,408.39	2,362.08	7.06	7.53	62.58	-288.36	238.45	150.03	135.63	14.40	10.419	
2,500.00	2,479.56	2,491.44	2,460.32	7.17	7.63	62.48	-301.18	250.74	155.90	141.32	14.59	10.689	
2,600.00	2,578.55	2,608.73	2,558.55	7.28	7.79	62.39	-314.00	263.04	161.77	146.94	14.84	10.904	
2,700.00	2,677.55	2,691.09	2,656.79	7.42	7.92	62.30	-326.82	275.33	167.64	152.57	15.07	11.126	
2,800.00	2,776.54	2,809.08	2,755.02	7.56	8.11	62.22	-339.64	287.63	173.51	158.14	15.37	11.288	
2,900.00	2,875.53	2,909.25	2,853.25	7.71	8.29	62.14	-352.46	299.92	179.39	163.71	15.67	11.445	
3,000.00	2,974.52	3,009.43	2,951.49	7.88	8.47	62.07	-365.29	312.22	185.26	169.26	16.00	11.580	
3,100.00	3,073.52	3,109.60	3,049.72	8.05	8.67	62.00	-378.11	324.51	191.13	174.79	16.34	11.696	
3,200.00	3,172.51	3,209.77	3,147.96	8.23	8.88	61.94	-390.93	336.81	197.00	180.30	16.70	11.794	
3,300.00	3,271.50	3,290.06	3,246.19	8.43	9.05	61.88	-403.75	349.10	202.87	185.83	17.04	11.904	
3,400.00	3,370.49	3,389.88	3,344.43	8.63	9.27	61.83	-416.57	361.40	208.75	191.31	17.44	11.972	
3,500.00	3,469.49	3,489.71	3,442.66	8.83	9.50	61.77	-429.39	373.69	214.62	196.78	17.84	12.028	
3,600.00	3,568.48	3,589.54	3,540.89	9.05	9.74	61.72	-442.21	385.99	220.49	202.23	18.27	12.071	
3,700.00	3,667.47	3,689.37	3,639.13	9.27	9.98	61.67	-455.03	398.28	226.37	207.67	18.70	12.104	
3,800.00	3,766.46	3,789.19	3,737.36	9.50	10.24	61.63	-467.85	410.58	232.24	213.09	19.15	12.128	
3,900.00	3,865.46	3,889.02	3,835.60	9.73	10.49	61.59	-480.68	422.87	238.12	218.51	19.61	12.144	
4,000.00	3,964.45	3,988.85	3,933.83	9.97	10.75	61.55	-493.50	435.17	243.99	223.91	20.08	12.153	
4,100.00	4,063.44	4,088.67	4,032.06	10.21	11.02	61.51	-506.32	447.46	249.86	229.31	20.56	12.156	
4,200.00	4,162.43	4,188.50	4,130.30	10.46	11.29	61.47	-519.14	459.76	255.74	234.69	21.04	12.153	
4,300.00	4,261.43	4,288.33	4,228.53	10.71	11.57	61.43	-531.96	472.05	261.61	240.07	21.54	12.146	
4,400.00	4,360.42	4,388.16	4,326.77	10.97	11.85	61.40	-544.78	484.35	267.49	245.44	22.04	12.134	
4,500.00	4,459.41	4,487.98	4,425.00	11.23	12.14	61.37	-557.60	496.64	273.36	250.81	22.56	12.120	
4,600.00	4,558.40	4,587.81	4,523.23	11.49	12.42	61.34	-570.42	508.94	279.23	256.16	23.07	12.102	
4,700.00	4,657.40	4,687.64	4,621.47	11.75	12.72	61.31	-583.24	521.23	285.11	261.51	23.60	12.082	
4,800.00	4,756.39	4,787.46	4,719.70	12.02	13.01	61.28	-596.07	533.53	290.98	266.86	24.13	12.060	
4,900.00	4,855.38	4,887.29	4,817.94	12.29	13.31	61.25	-608.89	545.82	296.86	272.19	24.66	12.036	
5,000.00	4,954.37	4,987.12	4,916.17	12.57	13.61	61.23	-621.71	558.12	302.73	277.53	25.21	12.011	
5,100.00	5,053.37	5,086.95	5,014.40	12.85	13.91	61.20	-634.53	570.41	308.61	282.86	25.75	11.984	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,186.77	5,112.64	13.12	14.21	61.18	-647.35	582.71	314.48	288.18	26.30	11.957		
5,300.00	5,251.35	5,286.60	5,210.87	13.41	14.52	61.15	-660.17	595.00	320.36	293.50	26.86	11.929		
5,400.00	5,350.34	5,386.43	5,309.11	13.69	14.83	61.13	-672.99	607.30	326.23	298.82	27.41	11.900		
5,500.00	5,449.34	5,486.25	5,407.34	13.97	15.14	61.11	-685.81	619.59	332.11	304.13	27.98	11.871		
5,600.00	5,548.33	5,586.08	5,505.57	14.26	15.45	61.09	-698.63	631.89	337.98	309.44	28.54	11.841		
5,700.00	5,647.32	5,685.91	5,603.81	14.55	15.77	61.07	-711.45	644.18	343.86	314.75	29.11	11.812		
5,800.00	5,746.31	5,785.74	5,702.04	14.84	16.09	61.05	-724.28	656.48	349.73	320.05	29.68	11.782		
5,900.00	5,845.31	5,885.56	5,800.28	15.13	16.40	61.03	-737.10	668.77	355.61	325.35	30.26	11.752		
6,000.00	5,944.30	5,985.39	5,898.51	15.42	16.72	61.01	-749.92	681.07	361.48	330.65	30.84	11.722		
6,100.00	6,043.29	6,085.22	5,996.74	15.72	17.04	60.99	-762.74	693.36	367.36	335.94	31.42	11.693		
6,200.00	6,142.28	6,185.04	6,094.98	16.01	17.36	60.97	-775.56	705.66	373.23	341.23	32.00	11.663		
6,300.00	6,241.28	6,284.87	6,193.21	16.31	17.69	60.96	-788.38	717.95	379.11	346.52	32.59	11.634		
6,400.00	6,340.27	6,384.70	6,291.45	16.61	18.01	60.94	-801.20	730.25	384.99	351.81	33.17	11.605		
6,500.00	6,439.26	6,484.53	6,389.68	16.90	18.34	60.93	-814.02	742.54	390.86	357.10	33.76	11.577		
6,600.00	6,538.26	6,584.35	6,487.91	17.20	18.66	58.00	-826.84	754.84	396.74	362.39	34.35	11.550		
6,700.00	6,637.86	6,683.67	6,585.89	17.38	18.93	-33.50	-839.63	764.46	402.58	367.85	34.73	11.592		
6,800.00	6,736.73	6,783.70	6,684.87	17.50	19.11	-71.18	-852.51	759.88	408.51	373.56	34.95	11.687		
6,900.00	6,832.42	6,885.02	6,783.17	17.58	19.24	-79.63	-865.27	739.37	414.40	379.32	35.08	11.813		
7,000.00	6,922.59	6,987.67	6,878.19	17.62	19.32	-83.34	-877.57	702.85	420.08	384.95	35.13	11.958		
7,100.00	7,005.01	7,091.64	6,967.24	17.63	19.36	-85.49	-889.06	650.67	425.40	390.25	35.15	12.102		
7,200.00	7,077.65	7,196.85	7,047.58	17.64	19.36	-86.91	-899.38	583.71	430.18	394.99	35.19	12.223		
7,300.00	7,138.73	7,303.21	7,116.58	17.64	19.33	-87.89	-908.20	503.42	434.28	398.94	35.34	12.290		
7,400.00	7,186.74	7,410.55	7,171.81	17.69	19.29	-88.58	-915.20	411.79	437.55	401.90	35.65	12.274		
7,500.00	7,220.49	7,518.67	7,211.24	17.80	19.24	-89.04	-920.13	311.38	439.87	403.68	36.19	12.156		
7,600.00	7,239.17	7,627.30	7,233.34	18.02	19.20	-89.29	-922.78	205.19	441.16	404.19	36.97	11.933		
7,700.00	7,243.00	7,733.65	7,237.97	18.40	19.26	-89.35	-923.16	99.03	441.42	403.46	37.97	11.626		
7,800.00	7,242.97	7,833.65	7,237.88	18.96	19.62	-89.34	-922.94	-0.97	441.39	402.23	39.16	11.271		
7,900.00	7,242.95	7,933.65	7,237.79	19.67	20.30	-89.33	-922.72	-100.97	441.36	400.76	40.60	10.872		
8,000.00	7,242.92	8,033.65	7,237.70	20.51	21.13	-89.32	-922.49	-200.97	441.33	399.08	42.25	10.445		
8,100.00	7,242.89	8,133.65	7,237.61	21.45	22.07	-89.31	-922.27	-300.97	441.30	397.20	44.10	10.006		
8,200.00	7,242.87	8,233.65	7,237.52	22.48	23.09	-89.31	-922.05	-400.97	441.27	395.15	46.12	9.567		
8,300.00	7,242.84	8,333.65	7,237.43	23.59	24.18	-89.30	-921.83	-500.97	441.24	392.95	48.29	9.137		
8,400.00	7,242.82	8,433.65	7,237.34	24.76	25.33	-89.29	-921.60	-600.97	441.21	390.62	50.59	8.721		
8,500.00	7,242.79	8,533.65	7,237.25	25.98	26.54	-89.28	-921.38	-700.97	441.18	388.18	53.00	8.324		
8,600.00	7,242.77	8,633.65	7,237.16	27.25	27.79	-89.27	-921.16	-800.97	441.15	385.64	55.51	7.947		
8,700.00	7,242.74	8,733.65	7,237.07	28.56	29.09	-89.26	-920.94	-900.97	441.12	383.01	58.11	7.591		
8,800.00	7,242.71	8,833.65	7,236.98	29.91	30.42	-89.26	-920.72	-1,000.97	441.09	380.31	60.78	7.258		
8,900.00	7,242.69	8,933.65	7,236.89	31.29	31.78	-89.25	-920.49	-1,100.97	441.06	377.55	63.51	6.945		
9,000.00	7,242.66	9,033.65	7,236.80	32.69	33.16	-89.24	-920.27	-1,200.97	441.03	374.73	66.30	6.652		
9,100.00	7,242.64	9,133.65	7,236.71	34.12	34.58	-89.23	-920.05	-1,300.97	441.00	371.86	69.14	6.379		
9,200.00	7,242.61	9,233.65	7,236.62	35.57	36.01	-89.22	-919.83	-1,400.97	440.97	368.95	72.02	6.123		
9,300.00	7,242.59	9,333.65	7,236.53	37.04	37.46	-89.21	-919.60	-1,500.97	440.94	365.99	74.94	5.884		
9,400.00	7,242.56	9,433.65	7,236.45	38.53	38.93	-89.21	-919.38	-1,600.97	440.91	363.01	77.90	5.660		
9,500.00	7,242.53	9,533.65	7,236.36	40.03	40.42	-89.20	-919.16	-1,700.97	440.88	359.99	80.88	5.451		
9,600.00	7,242.51	9,633.65	7,236.27	41.54	41.92	-89.19	-918.94	-1,800.97	440.85	356.95	83.90	5.255		
9,700.00	7,242.48	9,733.65	7,236.18	43.07	43.43	-89.18	-918.72	-1,900.97	440.82	353.88	86.94	5.071		
9,800.00	7,242.46	9,833.65	7,236.09	44.60	44.95	-89.17	-918.49	-2,000.97	440.79	350.79	89.99	4.898		
9,900.00	7,242.43	9,933.65	7,236.00	46.14	46.49	-89.16	-918.27	-2,100.97	440.76	347.68	93.07	4.736		
10,000.00	7,242.41	10,033.65	7,235.91	47.70	48.03	-89.16	-918.05	-2,200.97	440.73	344.55	96.17	4.583		
10,100.00	7,242.38	10,133.65	7,235.82	49.26	49.58	-89.15	-917.83	-2,300.97	440.69	341.41	99.28	4.439		
10,200.00	7,242.35	10,233.65	7,235.73	50.83	51.14	-89.14	-917.60	-2,400.97	440.66	338.25	102.41	4.303		
10,300.00	7,242.33	10,333.65	7,235.64	52.40	52.70	-89.13	-917.38	-2,500.97	440.63	335.08	105.55	4.175		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,242.30	10,433.65	7,235.55	53.98	54.27	-89.12	-917.16	-2,600.97	440.60	331.90	108.71	4.053	
10,500.00	7,242.28	10,533.65	7,235.46	55.57	55.85	-89.11	-916.94	-2,700.96	440.57	328.70	111.87	3.938	
10,600.00	7,242.25	10,633.65	7,235.37	57.16	57.43	-89.10	-916.72	-2,800.96	440.54	325.50	115.04	3.829	
10,700.00	7,242.23	10,733.65	7,235.28	58.75	59.01	-89.10	-916.49	-2,900.96	440.51	322.29	118.23	3.726	
10,800.00	7,242.20	10,833.65	7,235.19	60.35	60.61	-89.09	-916.27	-3,000.96	440.48	319.06	121.42	3.628	
10,900.00	7,242.17	10,933.65	7,235.10	61.95	62.20	-89.08	-916.05	-3,100.96	440.45	315.83	124.62	3.534	
11,000.00	7,242.15	11,033.65	7,235.01	63.56	63.80	-89.07	-915.83	-3,200.96	440.42	312.60	127.83	3.445	
11,100.00	7,242.12	11,133.65	7,234.92	65.17	65.40	-89.06	-915.60	-3,300.96	440.39	309.35	131.04	3.361	
11,200.00	7,242.10	11,233.65	7,234.83	66.78	67.01	-89.05	-915.38	-3,400.96	440.36	306.10	134.26	3.280	
11,300.00	7,242.07	11,333.65	7,234.74	68.40	68.62	-89.05	-915.16	-3,500.96	440.33	302.84	137.49	3.203	
11,400.00	7,242.05	11,433.65	7,234.65	70.01	70.23	-89.04	-914.94	-3,600.96	440.30	299.58	140.72	3.129	
11,500.00	7,242.02	11,533.65	7,234.56	71.63	71.85	-89.03	-914.72	-3,700.96	440.27	296.31	143.96	3.058	
11,600.00	7,241.99	11,633.65	7,234.47	73.26	73.46	-89.02	-914.49	-3,800.96	440.24	293.04	147.20	2.991	
11,700.00	7,241.97	11,733.65	7,234.38	74.88	75.08	-89.01	-914.27	-3,900.96	440.21	289.77	150.45	2.926	
11,800.00	7,241.94	11,833.65	7,234.29	76.51	76.70	-89.00	-914.05	-4,000.96	440.18	286.49	153.70	2.864	
11,900.00	7,241.92	11,933.65	7,234.20	78.14	78.33	-89.00	-913.83	-4,100.96	440.15	283.20	156.95	2.804	
12,000.00	7,241.89	12,033.65	7,234.11	79.77	79.95	-88.99	-913.60	-4,200.96	440.12	279.91	160.21	2.747	
12,100.00	7,241.87	12,133.65	7,234.02	81.40	81.58	-88.98	-913.38	-4,300.96	440.09	276.62	163.47	2.692	
12,200.00	7,241.84	12,233.65	7,233.93	83.03	83.21	-88.97	-913.16	-4,400.96	440.06	273.33	166.74	2.639	
12,300.00	7,241.82	12,333.65	7,233.84	84.67	84.84	-88.96	-912.94	-4,500.96	440.03	270.03	170.00	2.588	
12,400.00	7,241.79	12,433.65	7,233.75	86.31	86.47	-88.95	-912.72	-4,600.96	440.00	266.73	173.27	2.539	
12,500.00	7,241.76	12,533.65	7,233.66	87.94	88.11	-88.95	-912.49	-4,700.96	439.97	263.43	176.55	2.492	
12,600.00	7,241.74	12,633.65	7,233.57	89.58	89.74	-88.94	-912.27	-4,800.96	439.94	260.12	179.82	2.447	
12,700.00	7,241.71	12,733.65	7,233.48	91.22	91.38	-88.93	-912.05	-4,900.96	439.91	256.81	183.10	2.403	
12,800.00	7,241.69	12,833.65	7,233.39	92.87	93.02	-88.92	-911.83	-5,000.96	439.88	253.50	186.38	2.360	
12,900.00	7,241.66	12,933.65	7,233.31	94.51	94.66	-88.91	-911.60	-5,100.96	439.85	250.19	189.66	2.319	
13,000.00	7,241.64	13,033.65	7,233.22	96.15	96.30	-88.90	-911.38	-5,200.96	439.82	246.87	192.95	2.279	
13,100.00	7,241.61	13,133.65	7,233.13	97.80	97.94	-88.89	-911.16	-5,300.96	439.79	243.56	196.24	2.241	
13,200.00	7,241.58	13,233.65	7,233.04	99.44	99.58	-88.89	-910.94	-5,400.96	439.76	240.24	199.53	2.204	
13,300.00	7,241.56	13,333.65	7,232.95	101.09	101.23	-88.88	-910.72	-5,500.96	439.73	236.92	202.82	2.168	
13,400.00	7,241.53	13,433.65	7,232.86	102.73	102.87	-88.87	-910.49	-5,600.96	439.70	233.60	206.11	2.133	
13,500.00	7,241.51	13,533.65	7,232.77	104.38	104.52	-88.86	-910.27	-5,700.96	439.67	230.27	209.40	2.100	
13,600.00	7,241.48	13,633.65	7,232.68	106.03	106.16	-88.85	-910.05	-5,800.96	439.64	226.95	212.70	2.067	
13,700.00	7,241.46	13,733.65	7,232.59	107.68	107.81	-88.84	-909.83	-5,900.95	439.61	223.62	215.99	2.035	
13,800.00	7,241.43	13,833.65	7,232.50	109.33	109.46	-88.84	-909.60	-6,000.95	439.58	220.29	219.29	2.005	
13,900.00	7,241.40	13,933.65	7,232.41	110.98	111.10	-88.83	-909.38	-6,100.95	439.55	216.96	222.59	1.975	
14,000.00	7,241.38	14,033.65	7,232.32	112.63	112.75	-88.82	-909.16	-6,200.95	439.52	213.63	225.89	1.946	
14,100.00	7,241.35	14,133.65	7,232.23	114.29	114.40	-88.81	-908.94	-6,300.95	439.49	210.30	229.19	1.918	
14,200.00	7,241.33	14,233.65	7,232.14	115.94	116.05	-88.80	-908.72	-6,400.95	439.46	206.97	232.50	1.890	
14,300.00	7,241.30	14,333.65	7,232.05	117.59	117.70	-88.79	-908.49	-6,500.95	439.43	203.64	235.80	1.864	
14,400.00	7,241.28	14,433.65	7,231.96	119.24	119.35	-88.79	-908.27	-6,600.95	439.40	200.30	239.10	1.838	
14,500.00	7,241.25	14,533.65	7,231.87	120.90	121.01	-88.78	-908.05	-6,700.95	439.38	196.97	242.41	1.813	
14,600.00	7,241.22	14,633.65	7,231.78	122.55	122.66	-88.77	-907.83	-6,800.95	439.35	193.63	245.72	1.788	
14,700.00	7,241.20	14,733.65	7,231.69	124.21	124.31	-88.76	-907.60	-6,900.95	439.32	190.29	249.03	1.764	
14,800.00	7,241.17	14,833.65	7,231.60	125.86	125.97	-88.75	-907.38	-7,000.95	439.29	186.95	252.33	1.741	
14,900.00	7,241.15	14,933.65	7,231.51	127.52	127.62	-88.74	-907.16	-7,100.95	439.26	183.61	255.64	1.718	
15,000.00	7,241.12	15,033.65	7,231.42	129.18	129.27	-88.73	-906.94	-7,200.95	439.23	180.27	258.95	1.696	
15,100.00	7,241.10	15,133.65	7,231.33	130.83	130.93	-88.73	-906.72	-7,300.95	439.20	176.93	262.27	1.675	
15,200.00	7,241.07	15,233.65	7,231.24	132.49	132.58	-88.72	-906.49	-7,400.95	439.17	173.59	265.58	1.654	
15,300.00	7,241.04	15,333.65	7,231.15	134.15	134.24	-88.71	-906.27	-7,500.95	439.14	170.25	268.89	1.633	
15,400.00	7,241.02	15,433.65	7,231.06	135.81	135.90	-88.70	-906.05	-7,600.95	439.11	166.90	272.20	1.613	
15,471.99	7,241.00	15,505.64	7,231.00	137.00	137.09	-88.69	-905.89	-7,672.94	439.09	164.50	274.59	1.599 SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-105.23	-40.80	-149.89	155.35				
100.00	100.00	101.00	101.00	3.28	3.28	-105.23	-40.80	-149.89	155.35	147.82	7.53	20.633	
200.00	200.00	201.00	201.00	3.31	3.31	-105.23	-40.80	-149.89	155.35	147.77	7.57	20.510	CC, ES
300.00	299.98	299.17	299.15	3.35	3.34	135.00	-42.51	-150.02	157.17	149.52	7.65	20.535	
400.00	399.84	397.15	397.00	3.41	3.40	134.52	-47.56	-150.40	162.61	154.84	7.77	20.925	
500.00	499.45	494.74	494.22	3.50	3.48	133.79	-55.91	-151.03	171.68	163.74	7.94	21.622	
600.00	598.70	607.55	591.24	3.61	3.61	132.92	-67.40	-151.89	184.31	176.13	8.18	22.520	
700.00	697.70	708.59	689.42	3.76	3.76	132.51	-79.82	-152.83	198.58	190.11	8.47	23.442	
800.00	796.69	809.62	787.60	3.94	3.93	132.17	-92.24	-153.76	212.87	204.07	8.80	24.185	
900.00	895.68	889.35	885.78	4.14	4.08	131.87	-104.66	-154.69	227.16	218.03	9.13	24.872	
1,000.00	994.67	988.32	983.96	4.36	4.28	131.61	-117.08	-155.63	241.46	231.93	9.54	25.323	
1,100.00	1,093.67	1,087.28	1,082.14	4.60	4.50	131.38	-129.50	-156.56	255.76	245.79	9.97	25.656	
1,200.00	1,192.66	1,186.25	1,180.32	4.86	4.74	131.17	-141.92	-157.50	270.07	259.64	10.43	25.893	
1,300.00	1,291.65	1,285.22	1,278.50	5.12	4.99	130.99	-154.34	-158.43	284.38	273.46	10.92	26.053	
1,400.00	1,390.64	1,384.18	1,376.68	5.40	5.24	130.82	-166.76	-159.36	298.69	287.27	11.42	26.154	
1,500.00	1,489.64	1,483.15	1,474.86	5.68	5.51	130.67	-179.18	-160.30	313.00	301.06	11.94	26.207	
1,600.00	1,588.63	1,582.12	1,573.04	5.98	5.78	130.53	-191.60	-161.23	327.32	314.84	12.48	26.225	
1,700.00	1,687.62	1,681.08	1,671.22	6.28	6.06	130.40	-204.02	-162.17	341.64	328.60	13.03	26.214	
1,800.00	1,786.61	1,780.05	1,769.40	6.58	6.35	130.28	-216.44	-163.10	355.96	342.36	13.60	26.183	
1,900.00	1,885.61	1,879.02	1,867.58	6.75	6.53	130.17	-228.86	-164.03	370.28	356.73	13.55	27.336	
2,000.00	1,984.60	1,977.98	1,965.76	6.78	6.59	130.07	-241.28	-164.97	384.60	370.97	13.63	28.227	
2,100.00	2,083.59	2,076.95	2,063.94	6.83	6.63	129.98	-253.70	-165.90	398.92	385.22	13.71	29.105	
2,200.00	2,182.58	2,175.92	2,162.12	6.89	6.68	129.89	-266.12	-166.84	413.25	399.43	13.82	29.909	
2,300.00	2,281.58	2,274.89	2,260.30	6.97	6.75	129.81	-278.54	-167.77	427.57	413.61	13.96	30.636	
2,400.00	2,380.57	2,373.85	2,358.48	7.06	6.84	129.73	-290.96	-168.70	441.90	427.77	14.12	31.287	
2,500.00	2,479.56	2,472.82	2,456.66	7.17	6.93	129.66	-303.38	-169.64	456.22	441.90	14.32	31.863	
2,600.00	2,578.55	2,571.79	2,554.84	7.28	7.05	129.60	-315.80	-170.57	470.55	456.01	14.54	32.366	
2,700.00	2,677.55	2,670.75	2,653.02	7.42	7.17	129.53	-328.22	-171.51	484.88	470.09	14.78	32.798	
2,800.00	2,776.54	2,769.72	2,751.20	7.56	7.30	129.47	-340.64	-172.44	499.20	484.15	15.05	33.166	
2,900.00	2,875.53	2,868.69	2,849.38	7.71	7.45	129.42	-353.06	-173.37	513.53	498.19	15.34	33.471	
3,000.00	2,974.52	2,967.65	2,947.56	7.88	7.60	129.37	-365.48	-174.31	527.86	512.21	15.65	33.721	
3,100.00	3,073.52	3,066.62	3,045.74	8.05	7.77	129.32	-377.90	-175.24	542.19	526.21	15.98	33.919	
3,200.00	3,172.51	3,165.59	3,143.92	8.23	7.95	129.27	-390.32	-176.18	556.52	540.19	16.33	34.071	
3,300.00	3,271.50	3,264.55	3,242.10	8.43	8.13	129.22	-402.74	-177.11	570.85	554.15	16.70	34.181	
3,400.00	3,370.49	3,363.52	3,340.28	8.63	8.32	129.18	-415.16	-178.04	585.18	568.10	17.08	34.255	
3,500.00	3,469.49	3,462.49	3,438.46	8.83	8.52	129.14	-427.58	-178.98	599.51	582.03	17.48	34.296	
3,600.00	3,568.48	3,561.46	3,536.64	9.05	8.73	129.10	-440.00	-179.91	613.84	595.95	17.89	34.308	
3,700.00	3,667.47	3,660.42	3,634.82	9.27	8.94	129.06	-452.42	-180.85	628.17	609.86	18.32	34.296	
3,800.00	3,766.46	3,759.39	3,733.00	9.50	9.16	129.03	-464.84	-181.78	642.51	623.75	18.75	34.262	
3,900.00	3,865.46	3,858.36	3,831.18	9.73	9.38	128.99	-477.26	-182.71	656.84	637.64	19.20	34.209	
4,000.00	3,964.45	3,957.32	3,929.36	9.97	9.61	128.96	-489.68	-183.65	671.17	651.51	19.66	34.141	
4,100.00	4,063.44	4,056.29	4,027.54	10.21	9.85	128.93	-502.11	-184.58	685.50	665.38	20.13	34.060	
4,200.00	4,162.43	4,155.26	4,125.72	10.46	10.08	128.90	-514.53	-185.51	699.83	679.23	20.60	33.967	
4,300.00	4,261.43	4,254.22	4,223.90	10.71	10.33	128.87	-526.95	-186.45	714.17	693.08	21.09	33.865	
4,400.00	4,360.42	4,353.19	4,322.08	10.97	10.57	128.84	-539.37	-187.38	728.50	706.92	21.58	33.756	
4,500.00	4,459.41	4,452.16	4,420.26	11.23	10.83	128.82	-551.79	-188.32	742.83	720.75	22.08	33.640	
4,600.00	4,558.40	4,551.13	4,518.44	11.49	11.08	128.79	-564.21	-189.25	757.17	734.58	22.59	33.519	
4,700.00	4,657.40	4,650.09	4,616.62	11.75	11.34	128.77	-576.63	-190.18	771.50	748.40	23.10	33.395	
4,800.00	4,756.39	4,749.06	4,714.80	12.02	11.60	128.74	-589.05	-191.12	785.83	762.21	23.62	33.267	
4,900.00	4,855.38	4,848.03	4,812.98	12.29	11.86	128.72	-601.47	-192.05	800.17	776.02	24.15	33.138	
5,000.00	4,954.37	4,946.99	4,911.17	12.57	12.13	128.70	-613.89	-192.99	814.50	789.82	24.68	33.007	
5,100.00	5,053.37	5,045.96	5,009.35	12.85	12.39	128.68	-626.31	-193.92	828.83	803.62	25.21	32.875	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,152.36	5,144.93	5,107.53	13.12	12.66	128.66	-638.73	-194.85	843.17	817.42	25.75	32.743		
5,300.00	5,251.35	5,243.89	5,205.71	13.41	12.94	128.64	-651.15	-195.79	857.50	831.21	26.29	32.611		
5,400.00	5,350.34	5,342.86	5,303.89	13.69	13.21	128.62	-663.57	-196.72	871.83	844.99	26.84	32.480		
5,500.00	5,449.34	5,441.83	5,402.07	13.97	13.49	128.60	-675.99	-197.66	886.17	858.77	27.39	32.350		
5,600.00	5,548.33	5,540.79	5,500.25	14.26	13.76	128.58	-688.41	-198.59	900.50	872.55	27.95	32.220		
5,700.00	5,647.32	5,639.76	5,598.43	14.55	14.04	128.57	-700.83	-199.52	914.84	886.33	28.51	32.092		
5,800.00	5,746.31	5,738.73	5,696.61	14.84	14.32	128.55	-713.25	-200.46	929.17	900.10	29.07	31.965		
5,900.00	5,845.31	5,837.70	5,794.79	15.13	14.61	128.53	-725.67	-201.39	943.51	913.87	29.63	31.840		
6,000.00	5,944.30	5,936.66	5,892.97	15.42	14.89	128.52	-738.09	-202.33	957.84	927.64	30.20	31.717		
6,100.00	6,043.29	6,035.63	5,991.15	15.72	15.18	128.50	-750.51	-203.26	972.17	941.41	30.77	31.596		
6,200.00	6,142.28	6,134.60	6,089.33	16.01	15.46	128.49	-762.93	-204.19	986.51	955.17	31.34	31.476		
6,300.00	6,241.28	6,233.56	6,187.51	16.31	15.75	128.47	-775.35	-205.13	1,000.84	968.93	31.92	31.359		
6,400.00	6,340.27	6,332.53	6,285.69	16.61	16.04	128.46	-787.77	-206.06	1,015.18	982.69	32.49	31.243		
6,500.00	6,439.26	6,431.50	6,383.87	16.90	16.33	128.44	-800.19	-207.00	1,029.51	996.44	33.07	31.130		
6,600.00	6,538.26	6,530.48	6,481.15	17.20	23.11	68.70	-898.26	773.45	941.11	910.17	30.94	30.422		
6,700.00	6,637.86	6,629.98	6,580.48	17.38	23.15	-40.33	-898.18	776.53	852.10	820.49	31.60	26.961		
6,800.00	6,736.73	6,728.73	6,680.48	17.50	23.01	-90.22	-898.50	763.97	766.62	734.35	32.27	23.756		
6,900.00	6,832.42	6,824.28	6,776.42	17.58	22.72	-105.61	-899.20	736.07	687.64	654.71	32.93	20.880		
7,000.00	6,922.59	6,914.12	6,866.37	17.62	22.30	-112.30	-900.27	693.51	617.93	584.35	33.58	18.404		
7,100.00	7,005.01	6,996.45	6,948.29	17.63	21.75	-114.65	-901.68	637.36	559.75	525.60	34.15	16.390		
7,200.00	7,077.65	7,068.95	7,020.20	17.64	21.14	-114.34	-903.41	568.98	514.47	479.85	34.62	14.859		
7,300.00	7,138.73	7,130.03	7,081.09	17.64	20.50	-112.38	-905.39	490.07	482.15	447.20	34.95	13.794		
7,400.00	7,186.74	7,178.04	7,128.10	17.69	19.82	-108.90	-907.79	389.39	461.16	426.00	35.16	13.115		
7,500.00	7,220.49	7,211.79	7,161.08	17.80	19.23	-103.10	-908.42	264.41	444.12	408.65	35.47	12.520		
7,600.00	7,239.17	7,230.47	7,180.76	18.02	18.92	-97.07	-906.31	159.21	430.45	394.64	35.81	12.020		
7,700.00	7,243.00	7,234.30	7,184.59	18.40	18.71	-90.67	-902.34	71.88	421.54	385.39	36.15	11.661		
7,785.88	7,242.98	7,234.31	7,204.74	18.88	18.56	-84.62	-898.25	13.33	418.49	381.95	36.53	11.455		
7,800.00	7,242.97	7,234.33	7,197.63	18.96	18.54	-83.64	-897.56	5.11	418.59	381.99	36.60	11.438 SF		
7,900.00	7,242.95	7,244.96	7,149.89	19.67	18.41	-77.12	-892.77	-43.67	425.74	388.59	37.15	11.461		
8,000.00	7,242.92	7,189.50	7,107.58	20.51	18.29	-71.47	-888.33	-79.23	446.02	408.27	37.75	11.816		
8,100.00	7,242.89	7,144.30	7,070.95	21.45	18.20	-66.77	-884.37	-105.39	480.09	441.76	38.32	12.527		
8,200.00	7,242.87	7,107.11	7,039.49	22.48	18.12	-62.90	-880.89	-124.92	526.78	487.98	38.80	13.576		
8,300.00	7,242.84	7,076.16	7,012.49	23.59	18.05	-59.73	-877.86	-139.73	584.05	544.88	39.16	14.913		
8,400.00	7,242.82	7,050.00	6,989.14	24.76	17.99	-57.10	-875.20	-151.21	649.70	610.29	39.42	16.483		
8,500.00	7,242.79	7,028.00	6,969.15	25.98	17.94	-54.94	-872.90	-160.11	721.86	682.28	39.59	18.236		
8,600.00	7,242.77	7,000.00	6,943.29	27.25	17.88	-52.28	-869.90	-170.42	799.14	759.46	39.68	20.139		
8,700.00	7,242.74	7,000.00	6,943.29	28.56	17.88	-52.28	-869.90	-170.42	880.16	840.39	39.77	22.133		
8,800.00	7,242.71	6,978.12	6,922.79	29.91	17.83	-50.26	-867.49	-177.68	964.16	924.36	39.80	24.226		
8,900.00	7,242.69	6,965.44	6,910.81	31.29	17.80	-49.12	-866.08	-181.56	1,050.62	1,010.80	39.82	26.384		
9,000.00	7,242.66	6,950.00	6,896.11	32.69	17.76	-47.76	-864.33	-185.96	1,139.00	1,099.17	39.83	28.595		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-112.13	-60.84	-149.61	161.51					
100.00	100.00	101.00	101.00	3.28	3.28	-112.13	-60.84	-149.61	161.51	153.98	7.53	21.452		
200.00	200.00	201.00	201.00	3.31	3.31	-112.13	-60.84	-149.61	161.51	153.94	7.57	21.324	CC, ES	
300.00	299.98	298.55	298.53	3.35	3.34	128.18	-62.53	-149.72	163.35	155.69	7.65	21.343		
400.00	399.84	395.93	395.78	3.41	3.40	127.92	-67.52	-150.04	168.82	161.05	7.77	21.728		
500.00	499.45	492.92	492.41	3.50	3.48	127.53	-75.77	-150.57	177.92	169.99	7.94	22.418		
600.00	598.70	589.35	588.15	3.61	3.59	127.04	-87.20	-151.30	190.63	182.47	8.16	23.363		
700.00	697.70	686.28	683.98	3.76	3.73	126.44	-101.71	-152.22	205.92	197.48	8.44	24.401		
800.00	796.69	785.02	781.50	3.94	3.90	125.78	-117.14	-153.21	221.54	212.77	8.77	25.257		
900.00	895.68	883.76	879.03	4.14	4.10	125.20	-132.57	-154.19	237.19	228.04	9.15	25.925		
1,000.00	994.67	982.50	976.55	4.36	4.32	124.69	-148.01	-155.17	252.86	243.30	9.57	26.432		
1,100.00	1,093.67	1,081.24	1,074.07	4.60	4.56	124.25	-163.44	-156.16	268.55	258.53	10.02	26.806		
1,200.00	1,192.66	1,179.98	1,171.60	4.86	4.82	123.85	-178.87	-157.14	284.26	273.76	10.50	27.075		
1,300.00	1,291.65	1,278.72	1,269.12	5.12	5.09	123.49	-194.30	-158.13	299.97	288.96	11.00	27.259		
1,400.00	1,390.64	1,377.47	1,366.64	5.40	5.37	123.17	-209.73	-159.11	315.69	304.16	11.53	27.377		
1,500.00	1,489.64	1,476.21	1,464.16	5.68	5.67	122.88	-225.17	-160.10	331.43	319.35	12.08	27.444		
1,600.00	1,588.63	1,574.95	1,561.69	5.98	5.97	122.62	-240.60	-161.08	347.17	334.53	12.64	27.472		
1,700.00	1,687.62	1,673.69	1,659.21	6.28	6.27	122.38	-256.03	-162.07	362.91	349.70	13.21	27.469		
1,800.00	1,786.61	1,772.43	1,756.73	6.58	6.59	122.16	-271.46	-163.05	378.67	364.87	13.80	27.444		
1,900.00	1,885.61	1,871.17	1,854.26	6.75	6.80	121.95	-286.90	-164.04	394.43	380.65	13.77	28.634		
2,000.00	1,984.60	1,969.91	1,951.78	6.78	6.87	121.77	-302.33	-165.02	410.19	396.32	13.87	29.569		
2,100.00	2,083.59	2,068.65	2,049.30	6.83	6.92	121.59	-317.76	-166.00	425.95	412.00	13.96	30.516		
2,200.00	2,182.58	2,167.40	2,146.82	6.89	6.99	121.43	-333.19	-166.99	441.72	427.65	14.08	31.384		
2,300.00	2,281.58	2,266.14	2,244.35	6.97	7.06	121.28	-348.62	-167.97	457.50	443.28	14.22	32.170		
2,400.00	2,380.57	2,364.88	2,341.87	7.06	7.16	121.14	-364.06	-168.96	473.27	458.88	14.40	32.875		
2,500.00	2,479.56	2,463.62	2,439.39	7.17	7.27	121.01	-379.49	-169.94	489.05	474.45	14.60	33.499		
2,600.00	2,578.55	2,562.36	2,536.92	7.28	7.39	120.89	-394.92	-170.93	504.83	490.01	14.83	34.046		
2,700.00	2,677.55	2,661.10	2,634.44	7.42	7.52	120.77	-410.35	-171.91	520.62	505.53	15.08	34.518		
2,800.00	2,776.54	2,759.84	2,731.96	7.56	7.67	120.66	-425.79	-172.90	536.40	521.04	15.36	34.920		
2,900.00	2,875.53	2,858.59	2,829.49	7.71	7.83	120.56	-441.22	-173.88	552.19	536.53	15.66	35.257		
3,000.00	2,974.52	2,957.33	2,927.01	7.88	8.00	120.46	-456.65	-174.87	567.98	551.99	15.98	35.534		
3,100.00	3,073.52	3,056.07	3,024.53	8.05	8.18	120.37	-472.08	-175.85	583.77	567.44	16.33	35.757		
3,200.00	3,172.51	3,154.81	3,122.05	8.23	8.37	120.29	-487.51	-176.83	599.56	582.87	16.69	35.930		
3,300.00	3,271.50	3,253.55	3,219.58	8.43	8.57	120.20	-502.95	-177.82	615.35	598.29	17.07	36.059		
3,400.00	3,370.49	3,352.29	3,317.10	8.63	8.77	120.12	-518.38	-178.80	631.14	613.68	17.46	36.148		
3,500.00	3,469.49	3,451.03	3,414.62	8.83	8.99	120.05	-533.81	-179.79	646.94	629.07	17.87	36.203		
3,600.00	3,568.48	3,549.78	3,512.15	9.05	9.21	119.98	-549.24	-180.77	662.74	644.44	18.29	36.228		
3,700.00	3,667.47	3,648.52	3,609.67	9.27	9.44	119.91	-564.68	-181.76	678.53	659.80	18.73	36.226		
3,800.00	3,766.46	3,747.26	3,707.19	9.50	9.67	119.85	-580.11	-182.74	694.33	675.15	19.18	36.201		
3,900.00	3,865.46	3,846.00	3,804.72	9.73	9.91	119.79	-595.54	-183.73	710.13	690.49	19.64	36.156		
4,000.00	3,964.45	3,944.74	3,902.24	9.97	10.16	119.73	-610.97	-184.71	725.93	705.82	20.11	36.094		
4,100.00	4,063.44	4,043.48	3,999.76	10.21	10.41	119.67	-626.40	-185.70	741.73	721.13	20.59	36.018		
4,200.00	4,162.43	4,142.22	4,097.28	10.46	10.67	119.62	-641.84	-186.68	757.53	736.44	21.08	35.930		
4,300.00	4,261.43	4,240.96	4,194.81	10.71	10.93	119.57	-657.27	-187.66	773.33	751.75	21.58	35.832		
4,400.00	4,360.42	4,339.71	4,292.33	10.97	11.19	119.52	-672.70	-188.65	789.13	767.04	22.09	35.726		
4,500.00	4,459.41	4,438.45	4,389.85	11.23	11.46	119.47	-688.13	-189.63	804.93	782.33	22.60	35.612		
4,600.00	4,558.40	4,537.19	4,487.38	11.49	11.73	119.42	-703.56	-190.62	820.74	797.61	23.12	35.494		
4,700.00	4,657.40	4,635.93	4,584.90	11.75	12.00	119.38	-719.00	-191.60	836.54	812.89	23.65	35.371		
4,800.00	4,756.39	4,734.67	4,682.42	12.02	12.28	119.34	-734.43	-192.59	852.34	828.16	24.18	35.244		
4,900.00	4,855.38	4,833.41	4,779.95	12.29	12.56	119.29	-749.86	-193.57	868.15	843.43	24.72	35.116		
5,000.00	4,954.37	4,932.15	4,877.47	12.57	12.85	119.25	-765.29	-194.56	883.95	858.69	25.27	34.985		
5,100.00	5,053.37	5,030.90	4,974.99	12.85	13.13	119.22	-780.73	-195.54	899.76	873.94	25.82	34.853		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program:													0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA		Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
5,200.00	5,152.36	5,129.64	5,072.51	13.12	13.42	119.18	-796.16	-196.53	915.56	889.19	26.37	34.721						
5,300.00	5,251.35	5,228.38	5,170.04	13.41	13.71	119.14	-811.59	-197.51	931.37	904.44	26.93	34.589						
5,400.00	5,350.34	5,327.12	5,267.56	13.69	14.00	119.11	-827.02	-198.49	947.18	919.69	27.49	34.457						
5,500.00	5,449.34	5,425.86	5,365.08	13.97	14.29	119.08	-842.45	-199.48	962.98	934.93	28.05	34.326						
5,600.00	5,548.33	5,524.60	5,462.61	14.26	14.59	119.04	-857.89	-200.46	978.79	950.17	28.62	34.196						
5,700.00	5,647.32	5,623.34	5,560.13	14.55	14.89	119.01	-873.32	-201.45	994.60	965.40	29.20	34.066						
5,800.00	5,746.31	5,722.08	5,657.65	14.84	15.19	118.98	-888.75	-202.43	1,010.40	980.63	29.77	33.939						
5,900.00	5,845.31	5,820.83	5,755.18	15.13	15.49	118.95	-904.18	-203.42	1,026.21	995.86	30.35	33.813						
6,000.00	5,944.30	5,919.57	5,852.70	15.42	15.79	118.92	-919.62	-204.40	1,042.02	1,011.09	30.93	33.688						
6,100.00	6,043.29	6,018.31	5,950.22	15.72	16.09	118.90	-935.05	-205.39	1,057.83	1,026.31	31.52	33.565						
6,200.00	6,142.28	6,117.05	6,047.74	16.01	16.40	118.87	-950.48	-206.37	1,073.64	1,041.53	32.10	33.444						
6,300.00	6,241.28	6,215.79	6,145.27	16.31	16.70	118.84	-965.91	-207.35	1,089.44	1,056.75	32.69	33.325						
6,400.00	6,340.27	7,918.06	7,159.77	16.61	23.24	69.55	-1,123.26	738.29	1,079.51	1,047.99	31.52	34.248						
6,500.00	6,439.26	7,930.60	7,159.80	16.90	23.37	68.47	-1,123.22	750.83	1,001.65	969.15	32.49	30.825						
6,600.00	6,538.26	7,943.08	7,159.83	17.20	23.50	63.65	-1,123.18	763.31	927.86	894.25	33.61	27.609						
6,700.00	6,637.86	7,946.44	7,159.84	17.38	23.53	-36.32	-1,123.17	766.67	858.82	824.09	34.74	24.724						
6,800.00	6,736.73	7,934.14	7,159.81	17.50	23.40	-79.42	-1,123.21	754.37	796.83	761.04	35.79	22.263						
6,900.00	6,832.42	7,906.48	7,159.74	17.58	23.12	-90.47	-1,123.29	726.71	744.57	707.90	36.67	20.302						
7,000.00	6,922.59	7,864.15	7,159.63	17.62	22.72	-94.33	-1,123.42	684.38	703.87	666.55	37.32	18.860						
7,100.00	7,005.01	7,808.18	7,159.49	17.63	22.20	-94.69	-1,123.58	628.41	675.25	637.63	37.63	17.946						
7,200.00	7,077.65	7,739.96	7,159.32	17.64	21.63	-92.97	-1,123.78	560.19	657.76	620.12	37.63	17.478						
7,300.00	7,138.73	7,661.16	7,159.12	17.64	21.05	-90.14	-1,124.01	481.39	649.16	611.76	37.41	17.355 SF						
7,400.00	7,186.74	7,569.88	7,157.99	17.69	20.49	-86.83	-1,124.14	390.14	646.47	609.40	37.07	17.440						
7,452.30	7,206.23	7,518.66	7,153.13	17.74	20.24	-84.90	-1,123.54	339.16	646.18	609.26	36.92	17.502						
7,500.00	7,220.49	7,473.65	7,145.54	17.80	20.06	-83.15	-1,122.49	294.82	646.42	609.63	36.79	17.573						
7,600.00	7,239.17	7,383.82	7,121.23	18.02	19.77	-79.54	-1,118.93	208.48	648.30	611.67	36.64	17.695						
7,700.00	7,243.00	7,299.29	7,087.63	18.40	19.55	-76.10	-1,113.87	131.16	651.90	615.25	36.66	17.784						
7,800.00	7,242.97	7,223.91	7,049.35	18.96	19.38	-72.74	-1,108.03	66.53	659.35	622.45	36.90	17.868						
7,900.00	7,242.95	7,158.97	7,010.53	19.67	19.24	-69.38	-1,102.06	14.85	672.99	635.65	37.33	18.026						
8,000.00	7,242.92	7,103.53	6,973.42	20.51	19.12	-66.25	-1,096.33	-25.91	694.17	656.26	37.91	18.313						
8,100.00	7,242.89	7,056.33	6,939.16	21.45	19.01	-63.43	-1,091.01	-57.93	723.58	685.03	38.55	18.768						
8,200.00	7,242.87	7,016.07	6,908.16	22.48	18.92	-60.96	-1,086.19	-83.14	761.30	722.09	39.22	19.413						
8,300.00	7,242.84	6,981.59	6,880.41	23.59	18.84	-58.81	-1,081.87	-103.13	806.90	767.06	39.84	20.251						
8,400.00	7,242.82	6,950.00	6,854.07	24.76	18.77	-56.83	-1,077.76	-120.08	859.66	819.26	40.40	21.278						
8,500.00	7,242.79	6,926.16	6,833.66	25.98	18.71	-55.33	-1,074.57	-131.99	918.73	877.84	40.89	22.466						
8,600.00	7,242.77	6,900.00	6,810.79	27.25	18.65	-53.70	-1,070.99	-144.15	983.27	941.98	41.29	23.815						
8,700.00	7,242.74	6,883.99	6,796.55	28.56	18.61	-52.71	-1,068.76	-151.12	1,052.43	1,010.79	41.63	25.279						
8,800.00	7,242.71	6,866.57	6,780.87	29.91	18.57	-51.64	-1,066.31	-158.29	1,125.54	1,083.64	41.90	26.862						

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-118.39	-80.87	-149.61	170.07					
100.00	100.00	101.00	101.00	3.28	3.28	-118.39	-80.87	-149.61	170.07	162.54	7.53	22.589		
200.00	200.00	201.00	201.00	3.31	3.31	-118.39	-80.87	-149.61	170.07	162.50	7.57	22.454	CC, ES, SF	
300.00	299.98	297.93	297.91	3.35	3.34	121.98	-82.54	-149.70	171.90	164.25	7.65	22.462		
400.00	399.84	394.70	394.55	3.41	3.40	121.91	-87.48	-149.97	177.34	169.57	7.77	22.829		
500.00	499.45	491.10	490.60	3.50	3.48	121.81	-95.63	-150.41	186.37	178.44	7.93	23.493		
600.00	598.70	586.95	585.77	3.61	3.58	121.68	-106.93	-151.03	198.97	190.82	8.15	24.404		
700.00	697.70	682.18	679.91	3.76	3.72	121.44	-121.30	-151.80	214.33	205.90	8.43	25.428		
800.00	796.69	778.56	774.70	3.94	3.90	120.62	-138.69	-152.75	231.25	222.50	8.76	26.406		
900.00	895.68	877.00	871.43	4.14	4.11	119.80	-156.94	-153.73	248.50	239.35	9.14	27.177		
1,000.00	994.67	975.45	968.16	4.36	4.35	119.09	-175.19	-154.72	265.78	256.21	9.57	27.768		
1,100.00	1,093.67	1,073.89	1,064.90	4.60	4.61	118.47	-193.44	-155.71	283.11	273.07	10.04	28.209		
1,200.00	1,192.66	1,172.34	1,161.63	4.86	4.89	117.91	-211.69	-156.70	300.46	289.93	10.53	28.531		
1,300.00	1,291.65	1,270.78	1,258.36	5.12	5.18	117.42	-229.94	-157.69	317.83	306.78	11.05	28.758		
1,400.00	1,390.64	1,369.22	1,355.09	5.40	5.49	116.98	-248.19	-158.68	335.23	323.63	11.59	28.912		
1,500.00	1,489.64	1,467.67	1,451.83	5.68	5.81	116.58	-266.44	-159.67	352.64	340.48	12.16	29.007		
1,600.00	1,588.63	1,566.11	1,548.56	5.98	6.13	116.22	-284.69	-160.65	370.07	357.33	12.74	29.058		
1,700.00	1,687.62	1,664.56	1,645.29	6.28	6.47	115.90	-302.95	-161.64	387.51	374.18	13.33	29.075		
1,800.00	1,786.61	1,763.00	1,742.02	6.58	6.81	115.60	-321.20	-162.63	404.96	391.03	13.93	29.067		
1,900.00	1,885.61	1,861.45	1,838.76	6.75	7.06	115.32	-339.45	-163.62	422.42	408.48	13.93	30.314		
2,000.00	1,984.60	1,959.89	1,935.49	6.78	7.16	115.07	-357.70	-164.61	439.89	425.84	14.05	31.306		
2,100.00	2,083.59	2,058.33	2,032.22	6.83	7.21	114.83	-375.95	-165.60	457.37	443.23	14.14	32.347		
2,200.00	2,182.58	2,156.78	2,128.95	6.89	7.28	114.62	-394.20	-166.59	474.85	460.59	14.26	33.302		
2,300.00	2,281.58	2,255.22	2,225.69	6.97	7.37	114.42	-412.45	-167.57	492.34	477.93	14.41	34.168		
2,400.00	2,380.57	2,353.67	2,322.42	7.06	7.47	114.23	-430.70	-168.56	509.84	495.25	14.59	34.947		
2,500.00	2,479.56	2,452.11	2,419.15	7.17	7.59	114.05	-448.95	-169.55	527.34	512.54	14.80	35.638		
2,600.00	2,578.55	2,550.56	2,515.88	7.28	7.73	113.89	-467.21	-170.54	544.85	529.81	15.03	36.244		
2,700.00	2,677.55	2,649.00	2,612.62	7.42	7.87	113.74	-485.46	-171.53	562.36	547.06	15.29	36.770		
2,800.00	2,776.54	2,747.45	2,709.35	7.56	8.03	113.59	-503.71	-172.52	579.87	564.29	15.58	37.220		
2,900.00	2,875.53	2,845.89	2,806.08	7.71	8.20	113.46	-521.96	-173.51	597.39	581.50	15.89	37.599		
3,000.00	2,974.52	2,944.33	2,902.82	7.88	8.39	113.33	-540.21	-174.49	614.91	598.69	16.22	37.913		
3,100.00	3,073.52	3,042.78	2,999.55	8.05	8.58	113.21	-558.46	-175.48	632.43	615.86	16.57	38.168		
3,200.00	3,172.51	3,141.22	3,096.28	8.23	8.79	113.09	-576.71	-176.47	649.95	633.01	16.94	38.368		
3,300.00	3,271.50	3,239.67	3,193.01	8.43	9.00	112.99	-594.96	-177.46	667.48	650.15	17.33	38.521		
3,400.00	3,370.49	3,338.11	3,289.75	8.63	9.22	112.88	-613.21	-178.45	685.01	667.28	17.73	38.631		
3,500.00	3,469.49	3,436.56	3,386.48	8.83	9.45	112.78	-631.47	-179.44	702.54	684.39	18.15	38.704		
3,600.00	3,568.48	3,535.00	3,483.21	9.05	9.69	112.69	-649.72	-180.43	720.08	701.49	18.59	38.743		
3,700.00	3,667.47	3,633.44	3,579.94	9.27	9.94	112.60	-667.97	-181.41	737.61	718.58	19.03	38.753		
3,800.00	3,766.46	3,731.89	3,676.68	9.50	10.19	112.52	-686.22	-182.40	755.15	735.65	19.49	38.738		
3,900.00	3,865.46	3,830.33	3,773.41	9.73	10.45	112.44	-704.47	-183.39	772.69	752.72	19.96	38.702		
4,000.00	3,964.45	3,928.78	3,870.14	9.97	10.71	112.36	-722.72	-184.38	790.23	769.78	20.45	38.647		
4,100.00	4,063.44	4,027.22	3,966.87	10.21	10.98	112.29	-740.97	-185.37	807.77	786.83	20.94	38.577		
4,200.00	4,162.43	4,125.67	4,063.61	10.46	11.25	112.22	-759.22	-186.36	825.31	803.87	21.44	38.493		
4,300.00	4,261.43	4,224.11	4,160.34	10.71	11.53	112.15	-777.47	-187.34	842.85	820.90	21.95	38.398		
4,400.00	4,360.42	4,322.55	4,257.07	10.97	11.81	112.08	-795.72	-188.33	860.40	837.93	22.47	38.293		
4,500.00	4,459.41	4,421.00	4,353.80	11.23	12.10	112.02	-813.98	-189.32	877.95	854.95	22.99	38.182		
4,600.00	4,558.40	4,519.44	4,450.54	11.49	12.38	111.96	-832.23	-190.31	895.49	871.97	23.53	38.063		
4,700.00	4,657.40	4,617.89	4,547.27	11.75	12.68	111.90	-850.48	-191.30	913.04	888.97	24.07	37.940		
4,800.00	4,756.39	4,716.33	4,644.00	12.02	12.97	111.85	-868.73	-192.29	930.59	905.98	24.61	37.814		
4,900.00	4,855.38	4,814.78	4,740.74	12.29	13.27	111.80	-886.98	-193.28	948.14	922.98	25.16	37.684		
5,000.00	4,954.37	4,913.22	4,837.47	12.57	13.57	111.74	-905.23	-194.26	965.69	939.97	25.72	37.552		
5,100.00	5,053.37	5,011.66	4,934.20	12.85	13.88	111.70	-923.48	-195.25	983.24	956.96	26.28	37.418		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,152.36	5,110.11	5,030.93	13.12	14.18	111.65	-941.73	-196.24	1,000.79	973.95	26.84	37.284	
5,300.00	5,251.35	5,208.55	5,127.67	13.41	14.49	111.60	-959.98	-197.23	1,018.34	990.93	27.41	37.150	
5,400.00	5,350.34	5,307.00	5,224.40	13.69	14.80	111.56	-978.24	-198.22	1,035.90	1,007.91	27.99	37.016	
5,500.00	5,449.34	5,405.44	5,321.13	13.97	15.11	111.51	-996.49	-199.21	1,053.45	1,024.89	28.56	36.882	
5,600.00	5,548.33	5,503.89	5,417.86	14.26	15.43	111.47	-1,014.74	-200.20	1,071.00	1,041.86	29.14	36.749	
5,700.00	5,647.32	5,602.33	5,514.60	14.55	15.74	111.43	-1,032.99	-201.18	1,088.56	1,058.83	29.73	36.617	
5,800.00	5,746.31	5,700.77	5,611.33	14.84	16.06	111.39	-1,051.24	-202.17	1,106.11	1,075.80	30.32	36.486	
5,900.00	5,845.31	5,800.78	5,708.06	15.13	16.39	111.35	-1,069.49	-203.16	1,123.67	1,092.76	30.91	36.351	
6,000.00	5,944.30	5,902.34	5,804.79	15.42	16.72	111.32	-1,087.74	-204.15	1,141.22	1,109.71	31.51	36.212	
6,100.00	6,043.29	6,003.89	5,901.53	15.72	17.05	111.28	-1,105.99	-205.14	1,158.78	1,126.66	32.12	36.076	
6,200.00	6,142.28	6,105.45	5,998.26	16.01	17.38	111.25	-1,124.24	-206.13	1,176.34	1,143.61	32.73	35.941	
6,300.00	6,241.28	6,207.00	6,094.99	16.31	17.72	111.21	-1,142.50	-207.12	1,193.89	1,160.55	33.34	35.809	
6,600.00	6,538.26	8,060.65	7,229.98	17.20	24.65	61.82	-1,338.96	776.56	1,139.00	1,104.26	34.74	32.788	
6,700.00	6,637.86	8,063.93	7,229.99	17.38	24.68	-36.87	-1,338.90	779.84	1,075.59	1,039.82	35.77	30.069	
6,800.00	6,736.73	8,051.56	7,229.96	17.50	24.56	-79.34	-1,339.11	767.46	1,018.69	982.01	36.68	27.776	
6,900.00	6,832.42	8,023.83	7,229.88	17.58	24.30	-90.40	-1,339.59	739.74	970.35	932.97	37.38	25.958	
7,000.00	6,922.59	7,981.43	7,229.76	17.62	23.92	-94.79	-1,340.32	697.35	931.86	894.02	37.84	24.623	
7,100.00	7,005.01	7,925.41	7,229.61	17.63	23.46	-96.10	-1,341.29	641.34	903.51	865.46	38.05	23.747	
7,200.00	7,077.65	7,857.15	7,229.42	17.64	22.94	-95.60	-1,342.47	573.08	884.54	846.52	38.02	23.267	
7,300.00	7,138.73	7,778.31	7,229.20	17.64	22.42	-94.08	-1,343.82	494.26	873.40	835.58	37.82	23.091	
7,400.00	7,186.74	7,682.68	7,228.41	17.69	21.93	-91.93	-1,345.38	398.65	868.00	830.44	37.55	23.113	
7,500.00	7,220.49	7,559.81	7,211.59	17.80	21.48	-88.74	-1,344.36	277.14	864.11	826.79	37.33	23.151	
7,600.00	7,239.17	7,449.97	7,177.39	18.02	21.19	-85.61	-1,339.77	173.00	860.79	823.52	37.27	23.097	
7,700.00	7,243.00	7,350.65	7,131.75	18.40	20.97	-82.49	-1,332.72	85.18	858.46	821.07	37.38	22.964	
7,749.60	7,242.98	7,306.69	7,107.38	18.67	20.87	-80.84	-1,328.78	48.82	858.05	820.51	37.54	22.860	
7,800.00	7,242.97	7,266.14	7,082.76	18.96	20.78	-79.17	-1,324.70	16.86	858.57	820.85	37.71	22.765	
7,900.00	7,242.95	7,196.86	7,036.26	19.67	20.63	-76.04	-1,316.84	-33.84	863.42	825.18	38.24	22.578	
8,000.00	7,242.92	7,140.29	6,994.47	20.51	20.50	-73.24	-1,309.63	-71.25	874.70	835.77	38.93	22.468	
8,100.00	7,242.89	7,093.91	6,957.89	21.45	20.39	-70.81	-1,303.23	-99.02	893.44	853.72	39.72	22.492	
8,200.00	7,242.87	7,055.57	6,926.22	22.48	20.30	-68.73	-1,297.63	-119.88	920.08	879.51	40.57	22.680	
8,300.00	7,242.84	7,023.57	6,898.89	23.59	20.22	-66.96	-1,292.76	-135.79	954.57	913.16	41.41	23.053	
8,400.00	7,242.82	7,000.00	6,878.28	24.76	20.17	-65.64	-1,289.06	-146.60	996.53	954.32	42.22	23.606	
8,500.00	7,242.79	6,973.59	6,854.73	25.98	20.10	-64.16	-1,284.82	-157.79	1,045.33	1,002.41	42.92	24.358	
8,600.00	7,242.77	6,950.00	6,833.34	27.25	20.04	-62.82	-1,280.95	-166.93	1,100.31	1,056.78	43.53	25.278	
8,700.00	7,242.74	6,936.66	6,821.10	28.56	20.00	-62.07	-1,278.73	-171.74	1,160.68	1,116.60	44.08	26.333	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - HOMYAK 1 - XOG PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,200.00	7,242.10	7,304.10	7,304.10	66.78	257.05	90.03	66.34	-4,435.74	1,168.72	874.74	293.98	3.975	
11,300.00	7,242.07	7,304.07	7,304.07	68.40	257.05	90.03	66.34	-4,435.74	1,081.00	784.17	296.83	3.642	
11,400.00	7,242.05	7,304.05	7,304.05	70.01	257.05	90.02	66.34	-4,435.74	995.59	695.43	300.16	3.317	
11,500.00	7,242.02	7,304.02	7,304.02	71.63	257.05	90.02	66.34	-4,435.74	913.15	609.11	304.04	3.003	
11,600.00	7,241.99	7,303.99	7,303.99	73.26	257.05	90.02	66.34	-4,435.74	834.56	526.01	308.55	2.705	
11,700.00	7,241.97	7,303.97	7,303.97	74.88	257.05	90.01	66.34	-4,435.74	761.00	447.28	313.73	2.426	
11,800.00	7,241.94	7,303.94	7,303.94	76.51	257.05	90.01	66.34	-4,435.74	694.10	374.57	319.53	2.172	
11,900.00	7,241.92	7,303.92	7,303.92	78.14	257.04	90.01	66.34	-4,435.74	635.94	310.19	325.75	1.952	
12,000.00	7,241.89	7,303.89	7,303.89	79.77	257.04	90.01	66.34	-4,435.74	589.12	257.21	331.90	1.775	
12,100.00	7,241.87	7,303.87	7,303.87	81.40	257.04	90.00	66.34	-4,435.74	556.51	219.33	337.17	1.651	
12,200.00	7,241.84	7,303.84	7,303.84	83.03	257.04	90.00	66.34	-4,435.74	540.69	200.09	340.60	1.587	
12,236.78	7,241.83	7,303.83	7,303.83	83.64	257.04	90.00	66.34	-4,435.74	539.44	198.21	341.23	1.581	CC, ES, SF
12,300.00	7,241.82	7,303.82	7,303.82	84.67	257.04	90.00	66.34	-4,435.74	543.13	201.67	341.46	1.591	
12,400.00	7,241.79	7,303.79	7,303.79	86.31	257.04	90.00	66.34	-4,435.74	563.59	223.85	339.74	1.659	
12,500.00	7,241.76	7,303.76	7,303.76	87.94	257.04	89.99	66.34	-4,435.74	600.23	264.14	336.09	1.786	
12,600.00	7,241.74	7,303.74	7,303.74	89.58	257.04	89.99	66.34	-4,435.74	650.32	318.90	331.42	1.962	
12,700.00	7,241.71	7,303.71	7,303.71	91.22	257.04	89.99	66.34	-4,435.74	711.03	384.55	326.48	2.178	
12,800.00	7,241.69	7,303.69	7,303.69	92.87	257.04	89.98	66.34	-4,435.74	779.87	458.15	321.73	2.424	
12,900.00	7,241.66	7,303.66	7,303.66	94.51	257.04	89.98	66.34	-4,435.74	854.90	537.50	317.39	2.693	
13,000.00	7,241.64	7,303.64	7,303.64	96.15	257.03	89.98	66.34	-4,435.74	934.61	621.06	313.55	2.981	
13,100.00	7,241.61	7,303.61	7,303.61	97.80	257.03	89.98	66.34	-4,435.74	1,017.91	707.72	310.18	3.282	
13,200.00	7,241.58	7,303.58	7,303.58	99.44	257.03	89.97	66.34	-4,435.74	1,103.98	796.72	307.26	3.593	
13,300.00	7,241.56	7,303.56	7,303.56	101.09	257.03	89.97	66.34	-4,435.74	1,192.23	887.51	304.72	3.913	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - HOMYAK 2 - XOG SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	7,242.43	7,272.43	7,272.43	46.14	255.93	-90.02	-1,246.80	-2,994.65	1,179.89	891.83	288.06	4.096	
10,000.00	7,242.41	7,272.41	7,272.41	47.70	255.93	-90.02	-1,246.80	-2,994.65	1,106.12	815.41	290.71	3.805	
10,100.00	7,242.38	7,272.38	7,272.38	49.26	255.93	-90.01	-1,246.80	-2,994.65	1,036.76	743.07	293.69	3.530	
10,200.00	7,242.35	7,272.35	7,272.35	50.83	255.93	-90.01	-1,246.80	-2,994.65	972.74	675.75	297.00	3.275	
10,300.00	7,242.33	7,272.33	7,272.33	52.40	255.93	-90.01	-1,246.80	-2,994.65	915.20	614.62	300.58	3.045	
10,400.00	7,242.30	7,272.30	7,272.30	53.98	255.92	-90.01	-1,246.80	-2,994.65	865.42	561.09	304.33	2.844	
10,500.00	7,242.28	7,272.28	7,272.28	55.57	255.92	-90.01	-1,246.80	-2,994.65	824.81	516.74	308.08	2.677	
10,600.00	7,242.25	7,272.25	7,272.25	57.16	255.92	-90.00	-1,246.80	-2,994.65	794.78	483.19	311.59	2.551	
10,700.00	7,242.23	7,272.23	7,272.23	58.75	255.92	-90.00	-1,246.80	-2,994.65	776.56	461.97	314.59	2.468	
10,793.19	7,242.20	7,272.20	7,272.20	60.24	255.92	-90.00	-1,246.80	-2,994.65	770.94	454.24	316.71	2.434 CC	
10,800.00	7,242.20	7,272.20	7,272.20	60.35	255.92	-90.00	-1,246.80	-2,994.65	770.97	454.14	316.83	2.433 ES, SF	
10,900.00	7,242.17	7,272.17	7,272.17	61.95	255.92	-90.00	-1,246.80	-2,994.65	778.31	460.14	318.16	2.446	
11,000.00	7,242.15	7,272.15	7,272.15	63.56	255.92	-90.00	-1,246.80	-2,994.65	798.20	479.64	318.56	2.506	
11,100.00	7,242.12	7,272.12	7,272.12	65.17	255.92	-89.99	-1,246.80	-2,994.65	829.75	511.60	318.15	2.608	
11,200.00	7,242.10	7,272.10	7,272.10	66.78	255.92	-89.99	-1,246.80	-2,994.65	871.69	554.60	317.10	2.749	
11,300.00	7,242.07	7,272.07	7,272.07	68.40	255.92	-89.99	-1,246.80	-2,994.65	922.61	606.99	315.62	2.923	
11,400.00	7,242.05	7,272.05	7,272.05	70.01	255.92	-89.99	-1,246.80	-2,994.65	981.11	667.20	313.91	3.125	
11,500.00	7,242.02	7,272.02	7,272.02	71.63	255.91	-89.99	-1,246.80	-2,994.65	1,045.91	733.81	312.10	3.351	
11,600.00	7,241.99	7,271.99	7,271.99	73.26	255.91	-89.98	-1,246.80	-2,994.65	1,115.93	805.64	310.29	3.596	
11,700.00	7,241.97	7,271.97	7,271.97	74.88	255.91	-89.98	-1,246.80	-2,994.65	1,190.24	881.70	308.54	3.858	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL 3 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	7,241.38	7,303.62	7,296.38	112.63	257.03	-90.02	-1,205.89	-7,070.92	1,140.37	809.97	330.40	3.451	
14,100.00	7,241.35	7,303.65	7,296.35	114.29	257.04	-90.02	-1,205.89	-7,070.92	1,066.09	729.66	336.43	3.169	
14,200.00	7,241.33	7,303.67	7,296.33	115.94	257.04	-90.01	-1,205.89	-7,070.92	996.32	653.28	343.03	2.904	
14,300.00	7,241.30	7,303.70	7,296.30	117.59	257.04	-90.01	-1,205.89	-7,070.92	932.06	581.93	350.14	2.662	
14,400.00	7,241.28	7,303.72	7,296.28	119.24	257.04	-90.01	-1,205.89	-7,070.92	874.55	516.97	357.58	2.446	
14,500.00	7,241.25	7,303.75	7,296.25	120.90	257.04	-90.01	-1,205.89	-7,070.92	825.19	460.12	365.06	2.260	
14,600.00	7,241.22	7,303.78	7,296.22	122.55	257.04	-90.01	-1,205.89	-7,070.92	785.51	413.38	372.14	2.111	
14,700.00	7,241.20	7,303.80	7,296.20	124.21	257.04	-90.00	-1,205.89	-7,070.92	757.05	378.83	378.22	2.002	
14,800.00	7,241.17	7,303.83	7,296.17	125.86	257.04	-90.00	-1,205.89	-7,070.92	741.09	358.39	382.70	1.936	
14,869.52	7,241.15	7,303.85	7,296.15	127.01	257.04	-90.00	-1,205.89	-7,070.92	737.82	353.21	384.62	1.918 CC, ES	
14,900.00	7,241.15	7,303.85	7,296.15	127.52	257.04	-90.00	-1,205.89	-7,070.92	738.45	353.34	385.11	1.917 SF	
15,000.00	7,241.12	7,303.88	7,296.12	129.18	257.04	-90.00	-1,205.89	-7,070.92	749.27	364.00	385.28	1.945	
15,100.00	7,241.10	7,303.90	7,296.10	130.83	257.04	-90.00	-1,205.89	-7,070.92	772.99	389.62	383.37	2.016	
15,200.00	7,241.07	7,303.93	7,296.07	132.49	257.05	-89.99	-1,205.89	-7,070.92	808.46	428.63	379.83	2.128	
15,300.00	7,241.04	7,303.96	7,296.04	134.15	257.05	-89.99	-1,205.89	-7,070.92	854.22	479.01	375.21	2.277	
15,400.00	7,241.02	7,303.98	7,296.02	135.81	257.05	-89.99	-1,205.89	-7,070.92	908.73	538.70	370.03	2.456	
15,471.99	7,241.00	7,304.00	7,296.00	137.00	257.05	-89.99	-1,205.89	-7,070.92	952.55	584.65	367.90	2.589	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL 4 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,500.00	7,241.76	7,327.76	7,327.76	87.94	257.89	90.03	101.58	-5,738.79	1,186.92	881.07	305.85	3.881	
12,600.00	7,241.74	7,327.74	7,327.74	89.58	257.89	90.02	101.58	-5,738.79	1,100.37	790.72	309.64	3.554	
12,700.00	7,241.71	7,327.71	7,327.71	91.22	257.89	90.02	101.58	-5,738.79	1,016.28	702.28	314.00	3.237	
12,800.00	7,241.69	7,327.69	7,327.69	92.87	257.89	90.02	101.58	-5,738.79	935.33	616.32	319.02	2.932	
12,900.00	7,241.66	7,327.66	7,327.66	94.51	257.89	90.02	101.58	-5,738.79	858.41	533.67	324.74	2.643	
13,000.00	7,241.64	7,327.64	7,327.64	96.15	257.88	90.01	101.58	-5,738.79	786.69	455.50	331.19	2.375	
13,100.00	7,241.61	7,327.61	7,327.61	97.80	257.88	90.01	101.58	-5,738.79	721.74	383.47	338.27	2.134	
13,200.00	7,241.58	7,327.58	7,327.58	99.44	257.88	90.01	101.58	-5,738.79	665.53	319.84	345.69	1.925	
13,300.00	7,241.56	7,327.56	7,327.56	101.09	257.88	90.01	101.58	-5,738.79	620.44	267.57	352.87	1.758	
13,400.00	7,241.53	7,327.53	7,327.53	102.73	257.88	90.00	101.58	-5,738.79	589.04	230.15	358.89	1.641	
13,500.00	7,241.51	7,327.51	7,327.51	104.38	257.88	90.00	101.58	-5,738.79	573.58	210.84	362.74	1.581	
13,539.90	7,241.50	7,327.50	7,327.50	105.04	257.88	90.00	101.58	-5,738.79	572.19	208.71	363.48	1.574	CC, ES, SF
13,600.00	7,241.48	7,327.48	7,327.48	106.03	257.88	90.00	101.58	-5,738.79	575.33	211.67	363.67	1.582	
13,700.00	7,241.46	7,327.46	7,327.46	107.68	257.88	90.00	101.58	-5,738.79	594.16	232.51	361.65	1.643	
13,800.00	7,241.43	7,327.43	7,327.43	109.33	257.88	89.99	101.58	-5,738.79	628.53	271.17	357.36	1.759	
13,900.00	7,241.40	7,327.40	7,327.40	110.98	257.88	89.99	101.58	-5,738.79	676.07	324.31	351.76	1.922	
14,000.00	7,241.38	7,327.38	7,327.38	112.63	257.88	89.99	101.58	-5,738.79	734.23	388.52	345.71	2.124	
14,100.00	7,241.35	7,327.35	7,327.35	114.29	257.87	89.99	101.58	-5,738.79	800.70	460.93	339.77	2.357	
14,200.00	7,241.33	7,327.33	7,327.33	115.94	257.87	89.98	101.58	-5,738.79	873.58	539.32	334.25	2.614	
14,300.00	7,241.30	7,327.30	7,327.30	117.59	257.87	89.98	101.58	-5,738.79	951.40	622.11	329.28	2.889	
14,400.00	7,241.28	7,327.28	7,327.28	119.24	257.87	89.98	101.58	-5,738.79	1,033.04	708.16	324.88	3.180	
14,500.00	7,241.25	7,327.25	7,327.25	120.90	257.87	89.98	101.58	-5,738.79	1,117.67	796.67	321.01	3.482	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 1023-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,100.00	7,241.61	7,446.00	7,335.28	97.80	42.97	-84.95	-583.12	-6,404.40	1,110.09	1,048.29	61.80	17.962	
13,200.00	7,241.58	7,446.88	7,336.16	99.44	42.97	-85.39	-583.12	-6,404.41	1,010.68	948.39	62.29	16.226	
13,300.00	7,241.56	7,447.75	7,337.03	101.09	42.97	-85.83	-583.13	-6,404.42	911.39	848.46	62.92	14.484	
13,400.00	7,241.53	7,448.62	7,337.90	102.73	42.97	-86.26	-583.13	-6,404.42	812.27	748.48	63.79	12.734	
13,500.00	7,241.51	7,449.48	7,338.76	104.38	42.98	-86.70	-583.14	-6,404.43	713.40	648.40	64.99	10.976	
13,600.00	7,241.48	7,450.33	7,339.61	106.03	42.98	-87.13	-583.14	-6,404.44	614.89	548.14	66.75	9.211	
13,700.00	7,241.46	7,451.18	7,340.46	107.68	42.98	-87.55	-583.15	-6,404.45	516.95	447.52	69.43	7.446	
13,800.00	7,241.43	7,452.02	7,341.30	109.33	42.98	-87.98	-583.15	-6,404.45	419.99	346.26	73.73	5.696	
13,900.00	7,241.40	7,452.86	7,342.14	110.98	42.98	-88.40	-583.16	-6,404.46	324.87	243.75	81.12	4.005	
14,000.00	7,241.38	7,453.69	7,342.97	112.63	42.98	-88.81	-583.16	-6,404.47	233.85	138.89	94.96	2.463	
14,100.00	7,241.35	7,454.51	7,343.78	114.29	42.98	-89.22	-583.17	-6,404.48	154.38	31.80	122.57	1.259 Level 3	
14,200.00	7,241.33	7,455.33	7,344.61	115.94	42.98	-89.64	-583.17	-6,404.48	113.92	-42.66	156.58	0.728 Level 1	
14,204.28	7,241.33	7,455.37	7,344.65	116.01	42.98	-89.66	-583.17	-6,404.48	113.84	-43.16	157.00	0.725 Level 1, CC, ES, SF	
14,300.00	7,241.30	7,456.16	7,345.44	117.59	42.98	-90.06	-583.18	-6,404.49	148.73	12.76	135.97	1.094 Level 2	
14,400.00	7,241.28	7,456.98	7,346.26	119.24	42.98	-90.47	-583.18	-6,404.50	226.41	118.48	107.93	2.098	
14,500.00	7,241.25	7,457.79	7,347.07	120.90	42.98	-90.88	-583.19	-6,404.50	316.86	224.23	92.64	3.420	
14,600.00	7,241.22	7,458.61	7,347.88	122.55	42.99	-91.29	-583.19	-6,404.51	411.76	327.62	84.14	4.894	
14,700.00	7,241.20	7,459.41	7,348.69	124.21	42.99	-91.69	-583.20	-6,404.52	508.61	429.60	79.01	6.437	
14,800.00	7,241.17	7,460.22	7,349.50	125.86	42.99	-92.10	-583.20	-6,404.52	606.48	530.78	75.70	8.012	
14,900.00	7,241.15	7,461.02	7,350.30	127.52	42.99	-92.50	-583.21	-6,404.53	704.95	631.50	73.45	9.598	
15,000.00	7,241.12	7,461.82	7,351.09	129.18	42.99	-92.90	-583.21	-6,404.54	803.79	731.94	71.86	11.186	
15,100.00	7,241.10	7,462.61	7,351.89	130.83	42.99	-93.30	-583.22	-6,404.54	902.89	832.19	70.70	12.771	
15,200.00	7,241.07	7,463.40	7,352.67	132.49	42.99	-93.69	-583.22	-6,404.55	1,002.17	932.33	69.84	14.349	
15,300.00	7,241.04	7,464.18	7,353.46	134.15	42.99	-94.08	-583.23	-6,404.56	1,101.58	1,032.39	69.19	15.920	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 608-SRC Energy_ISCWSA REV 2 MWD, 7534-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,500.00	7,241.76	7,508.96	7,314.15	87.94	41.87	-90.83	-1,204.56	-5,616.09	1,172.66	1,081.91	90.74	12.923	
12,600.00	7,241.74	7,507.72	7,312.91	89.58	41.87	-90.73	-1,204.56	-5,616.10	1,096.44	1,000.26	96.18	11.400	
12,700.00	7,241.71	7,506.47	7,311.66	91.22	41.87	-90.64	-1,204.56	-5,616.12	1,024.32	922.11	102.21	10.022	
12,800.00	7,241.69	7,505.23	7,310.42	92.87	41.87	-90.54	-1,204.56	-5,616.13	957.23	848.43	108.80	8.798	
12,900.00	7,241.66	7,503.99	7,309.18	94.51	41.87	-90.44	-1,204.56	-5,616.15	896.29	780.44	115.86	7.736	
13,000.00	7,241.64	7,502.74	7,307.93	96.15	41.87	-90.34	-1,204.56	-5,616.16	842.85	719.71	123.14	6.845	
13,100.00	7,241.61	7,501.50	7,306.69	97.80	41.86	-90.25	-1,204.56	-5,616.18	798.39	668.13	130.26	6.129	
13,200.00	7,241.58	7,500.26	7,305.45	99.44	41.86	-90.15	-1,204.55	-5,616.19	764.51	627.80	136.71	5.592	
13,300.00	7,241.56	7,499.02	7,304.20	101.09	41.86	-90.05	-1,204.55	-5,616.21	742.64	600.80	141.83	5.236	
13,400.00	7,241.53	7,497.77	7,302.96	102.73	41.86	-89.96	-1,204.55	-5,616.23	733.85	588.77	145.08	5.058	
13,414.84	7,241.53	7,497.59	7,302.78	102.98	41.86	-89.94	-1,204.55	-5,616.23	733.70	588.33	145.38	5.047	CC, ES, SF
13,500.00	7,241.51	7,496.53	7,301.72	104.38	41.86	-89.86	-1,204.55	-5,616.24	738.63	592.51	146.12	5.055	
13,600.00	7,241.48	7,495.29	7,300.48	106.03	41.86	-89.76	-1,204.55	-5,616.26	756.70	611.71	145.00	5.219	
13,700.00	7,241.46	7,494.04	7,299.23	107.68	41.86	-89.66	-1,204.55	-5,616.27	787.16	645.11	142.05	5.541	
13,800.00	7,241.43	7,492.80	7,297.99	109.33	41.86	-89.57	-1,204.55	-5,616.29	828.64	690.80	137.84	6.012	
13,900.00	7,241.40	7,491.56	7,296.75	110.98	41.86	-89.47	-1,204.55	-5,616.30	879.58	746.67	132.91	6.618	
14,000.00	7,241.38	7,490.31	7,295.50	112.63	41.85	-89.37	-1,204.54	-5,616.32	938.45	810.74	127.71	7.348	
14,100.00	7,241.35	7,489.07	7,294.26	114.29	41.85	-89.28	-1,204.54	-5,616.33	1,003.84	881.28	122.56	8.191	
14,200.00	7,241.33	7,487.83	7,293.02	115.94	41.85	-89.18	-1,204.54	-5,616.35	1,074.57	956.92	117.65	9.133	
14,300.00	7,241.30	7,486.58	7,291.77	117.59	41.85	-89.08	-1,204.54	-5,616.36	1,149.66	1,036.57	113.09	10.166	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 4' @ 4908.00usft (RIG)

Offset Depths are relative to Offset Datum

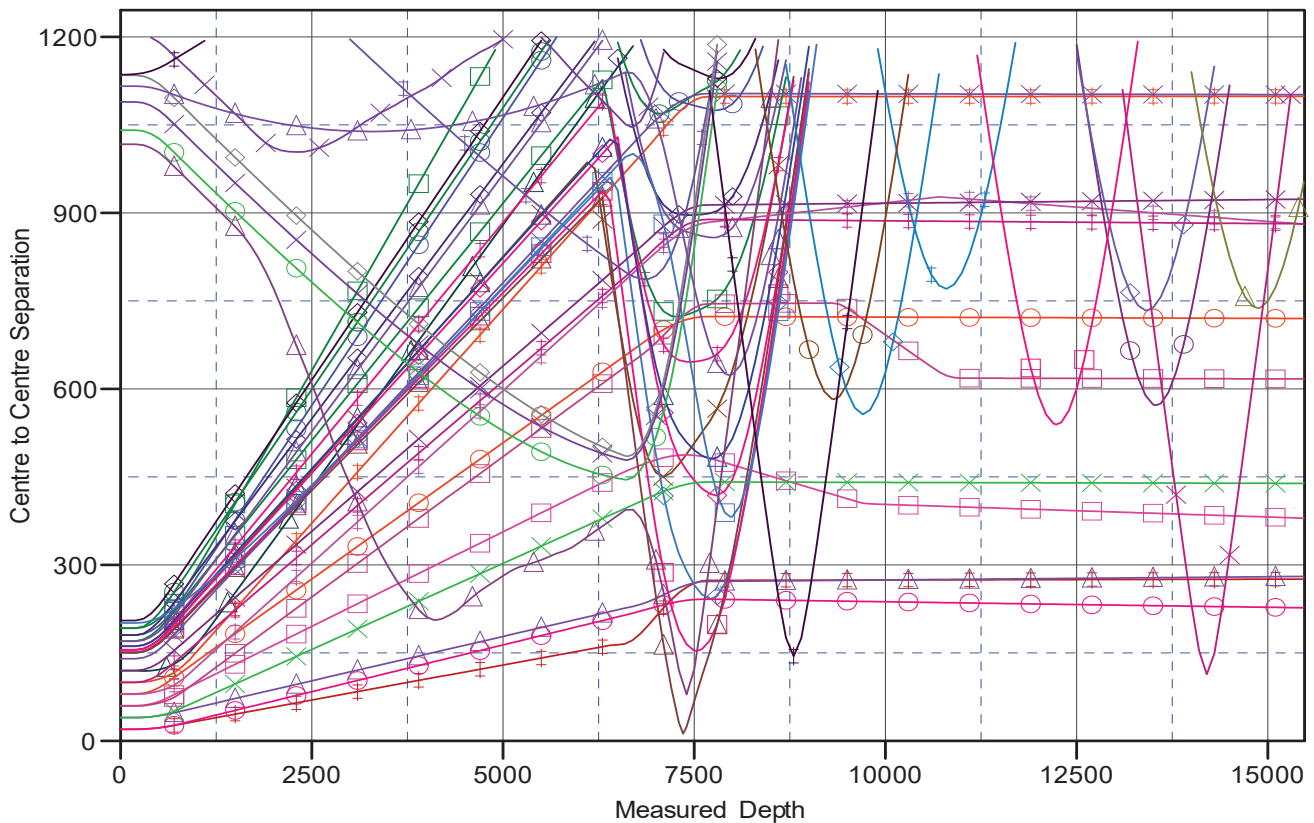
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 31N-30C-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	HOMYAK 2 XOG SI Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 1 XOG PR Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 9N-30B-M, Wellbore #1, Design #1 V0	LUNDVALL 3 30-19, Noble PR Well, Actual Eneign Surveys V0
SANFORD 4C-30A-M, Wellbore #1, Design #1 V0	SANFORD 5C-30-M, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLEY J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	BENSLEY J29-18D, Noble SI Well, Actual Eneign Surveys V0
SANFORD 29N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	BENSLEY J29-17D, Noble PR Well, Actual Eneign Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Qgras V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	

Hewlett-Packard

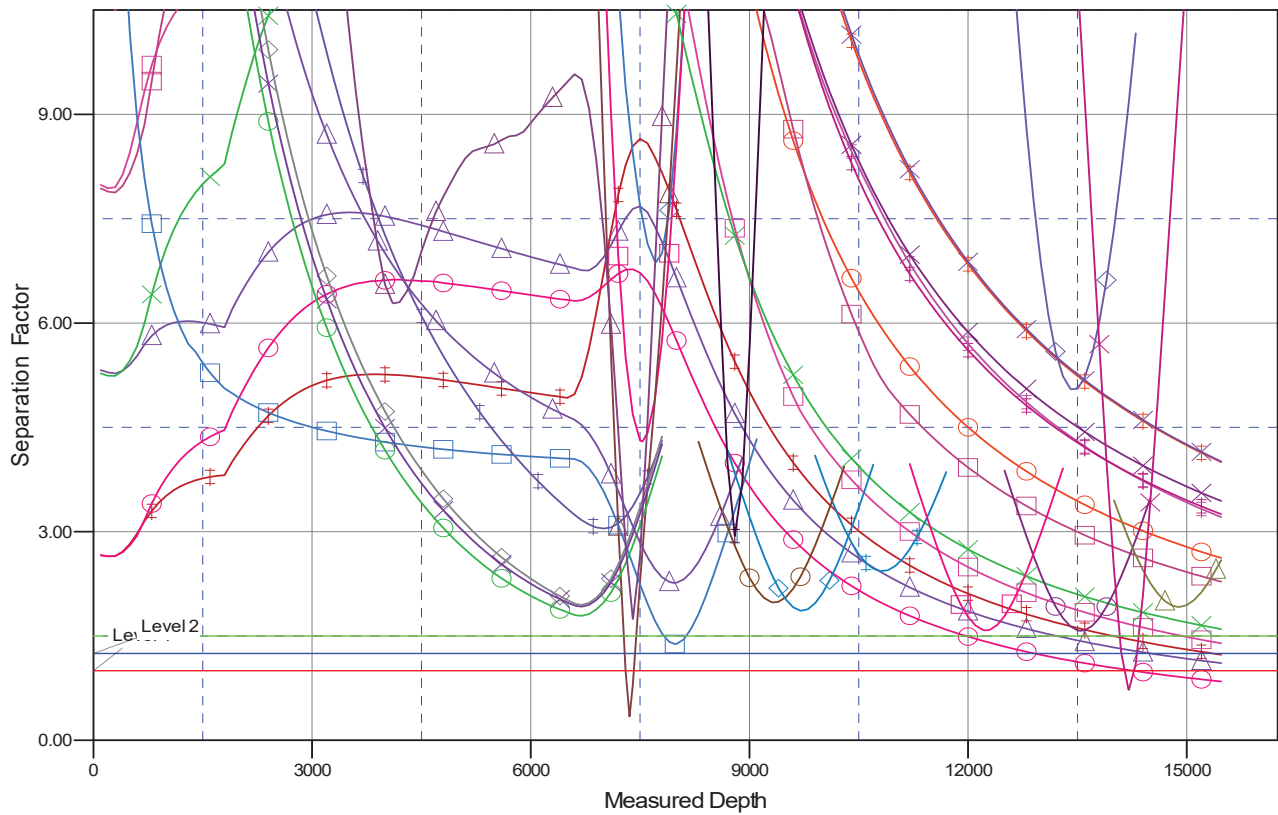
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 4' @ 4908.00usft (RIG)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 31N-30C-M
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 31N-27C-XR, Wellbore #1, Design #1 V0	HOMYAK 2 XOG SI Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 1 XOG PR Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	LUNDVALL J 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 5C-30-M, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLEY J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 9C-27-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	BENSLEY J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 29N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	BENSLEY J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Qiros V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	