

SRC ENERGY

**WELD COUNTY (NAD83, TRUE NORTH)
5N-66W-29 SANFORD 21-29 PAD
SANFORD 8C-27-XR**

**Wellbore #1
Design #1**

Anticollision Report

25 October, 2018

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	20,407.86	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:Rockies, crustal dec + 3-axis correction	

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-27 Offsets Incomplete (Need 1 Directional)						
GRACIE J 27-19 - Patina D/A Well - No Surveys						Out of range
GRACIE J 27-19X - Noble SI Well - Actual Multishot Surv	17,061.80	7,607.43	477.37	277.59	2.389	CC, ES
GRACIE J 27-19X - Noble SI Well - Actual Multishot Surv	17,100.00	7,609.59	478.89	277.62	2.379	SF
SHAFTO J27-10 - Noble PR Well - No Surveys						Out of range
SHAFTO J27-9 - Noble P&A Well - Actual VES Surveys						Out of range
UPRC 27-11C - Noble SI Well - No Surveys						Out of range
UPRC 27-12C - Noble SI Well - No Surveys						Out of range
UPRC 27-3C Directional Well No Surveys - Noble SI We						Out of range
UPRC 27-4C - Noble SI Well - Actual BHI Tiff Surveys	16,304.00	7,846.35	656.47	425.26	2.839	CC, ES, SF
UPRC 27-5C - Noble T/A Well - Actual VES Surveys	16,227.07	7,455.16	389.65	213.23	2.209	CC, ES, SF
UPRC 27-6C - Noble P&A Well - Actual VES Surveys	17,511.51	7,794.25	399.43	207.24	2.078	CC, ES, SF
UPV 27-1H6 - Noble P&A Well - Actual Sperry Surveys	20,216.02	7,289.89	1,000.17	770.48	4.354	CC, ES
UPV 27-1H6 - Noble P&A Well - Actual Sperry Surveys	20,300.00	7,295.70	1,003.67	771.84	4.329	SF
UPV 27-2H6 - Noble PR Well - Actual VES Surveys	18,762.59	7,554.83	976.14	768.48	4.701	CC, ES, SF
UPV 27-7H6 - Noble PR Well - Actual VES Surveys	18,818.31	7,576.86	138.32	-77.71	0.640	Level 1, CC, ES, SF
UPV 27-8H6 - Noble P&A Well - Actual VES Surveys	20,160.72	7,512.38	79.89	-153.67	0.342	Level 1, CC, ES, SF

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Reference Well:	SANFORD 8C-27-XR	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-28 Offsets						
COLTRANE-IGO 1 - Noble SI Well - No Surveys	12,194.89	7,309.01	355.24	12.81	1.037	Level 2, CC
COLTRANE-IGO 1 - Noble SI Well - No Surveys	12,200.00	7,309.02	355.28	12.72	1.037	Level 2, ES, SF
COLTRANE-PM J 28-4 - Noble PR Well - No Surveys	10,901.02	7,332.28	929.45	607.24	2.885	CC, ES, SF
COLTRANE-PM J28-5 - Noble SI Well - No Surveys	10,849.20	7,330.21	88.15	-233.09	0.274	Level 1, CC, ES, SF
IGO 28-3H6 - Noble SI Well - No Surveys	12,030.24	7,300.79	756.90	417.45	2.230	CC, ES, SF
IGO FARMS J 28-19D - Noble SI Well - Actual Ensign Su	11,573.91	7,359.53	192.65	97.60	2.027	CC, ES, SF
IGO FARMS J 28-20D - Noble PR Well - Actual Ensign S	11,563.11	7,491.03	957.02	859.95	9.859	CC
IGO FARMS J 28-20D - Noble PR Well - Actual Ensign S	11,600.00	7,490.87	957.73	859.74	9.774	ES
IGO FARMS J 28-20D - Noble PR Well - Actual Ensign S	11,700.00	7,490.42	966.76	866.68	9.659	SF
IGO FARMS J 28-31D - Noble PR Well - Actual Ensign S	10,335.95	7,453.08	480.36	397.78	5.817	CC, ES, SF
IGO FARMS J 28-32D - Noble PR Well - Actual Ensign S	10,278.72	7,551.32	969.96	885.97	11.549	CC, ES
IGO FARMS J 28-32D - Noble PR Well - Actual Ensign S	10,300.00	7,551.26	970.19	886.10	11.537	SF
MOSSBERG A-28 - Noble P&A Well - No Surveys						Out of range
MOSSBERG PM J 28-9 - Noble SI Well - Actual VES Su						Out of range
WIEDEMAN 1 - Noble SI Well - No Surveys	14,905.17	7,305.36	324.24	-62.79	0.838	Level 1, CC, ES, SF
WIEDEMAN 28-1H6 - Noble SI Well - No Surveys	14,865.49	7,276.58	992.73	607.38	2.576	CC, ES
WIEDEMAN 28-1H6 - Noble SI Well - No Surveys	14,900.00	7,276.63	993.33	607.59	2.575	SF
WIEDEMAN J 28-17 - Noble SI Well - No Surveys	14,227.46	7,303.73	234.67	-141.08	0.625	Level 1, CC, ES, SF
WIEDEMAN J 28-18D - Noble SI Well - Actual Ensign Su	12,954.59	7,520.84	327.54	192.51	2.426	CC, ES, SF
WIEDEMAN J 28-21D - Noble SI Well - Actual Ensign Su	13,167.47	7,591.51	952.18	817.12	7.050	CC, ES, SF
WIEDEMAN J 28-22D - Noble SI Well - Actual Ensign Su	14,248.36	7,464.53	833.81	690.92	5.835	CC, ES
WIEDEMAN J 28-22D - Noble SI Well - Actual Ensign Su	14,300.00	7,465.69	835.40	691.64	5.811	SF
WIEDEMAN-PM J28-2 - Noble SI Well - No Surveys	13,563.27	7,306.84	840.35	475.48	2.303	CC, ES
WIEDEMAN-PM J28-2 - Noble SI Well - No Surveys	13,600.00	7,306.89	841.16	475.91	2.303	SF
WIEDEMAN-PM J28-7 - Noble SI Well - No Surveys	13,458.47	7,311.70	234.64	-128.68	0.646	Level 1, CC, ES, SF
WIEST 28-11H6 - Noble SI Well - No Surveys						Out of range
WIEST J 28-65-1HN - Noble PR Well - Actual Sperry Su						Out of range
ZION PM J 28-12 - Noble PR Well - Actual VES Surveys						Out of range

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	9,100.00	7,449.23	137.84	73.65	2.147	SF
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	9,119.13	7,449.32	136.51	73.18	2.156	CC, ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,747.11	7,445.74	349.33	301.75	7.343	CC, ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,800.00	7,446.54	352.94	304.63	7.307	SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	8,405.90	7,345.86	808.30	523.51	2.838	CC, ES, SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	8,454.44	7,345.93	809.99	524.59	2.838	CC, ES, 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	860.17	854.84	20.61	-12.91	0.615	Level 1, CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	900.00	905.65	21.21	-14.17	0.599	Level 1, ES, SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys						Out of range
KAMMERZELL 29-5 - XOG PR Well - No Surveys						Out of range
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	7,121.01	7,043.38	226.33	-38.60	0.854	Level 1, CC, ES, SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	5,451.34	5,426.58	823.46	794.33	28.274	CC
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	5,600.00	5,570.83	823.97	793.99	27.491	ES
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	6,800.00	6,777.73	832.51	796.59	23.173	SF
UPRC 29-7C - Noble T/A Well - No Surveys	8,256.77	7,348.66	323.08	39.78	1.140	Level 2, CC, ES, SF
UPRC 29-8C - Noble SI Well - No Surveys	9,382.96	7,439.20	537.23	235.17	1.779	CC
UPRC 29-8C - Noble SI Well - No Surveys	9,400.00	7,439.23	537.50	235.05	1.777	ES, SF
UPV 29-1H6 - Noble PR Well - No Surveys	9,461.18	7,331.31	1,024.12	724.71	3.420	CC, ES
UPV 29-1H6 - Noble PR Well - No Surveys	9,500.00	7,331.36	1,024.86	725.05	3.418	SF
UPV 29-2H6 - Noble SI Well - No Surveys	8,496.20	7,332.99	775.06	489.35	2.713	CC
UPV 29-2H6 - Noble SI Well - No Surveys	8,500.00	7,332.99	775.07	489.33	2.713	ES, SF

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Offset Well - Wellbore - Design						
5N-66W-29 SANFORD 21-29 PAD						
SANFORD 1C-27-XR - Wellbore #1 - Design #1	200.00	200.00	99.82	92.24	13.179	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	20,407.86	20,344.81	885.17	450.39	2.036	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	200.00	80.15	72.58	10.583	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	20,407.86	20,022.13	901.21	482.23	2.151	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	200.00	119.86	112.28	15.825	CC, ES
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	20,400.00	20,166.77	1,112.41	676.29	2.551	SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	315.07	317.48	60.10	52.44	7.841	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	20,407.86	20,349.60	646.12	204.14	1.462	Level 3, SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	200.00	179.96	172.39	23.761	CC, ES, SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	200.00	159.93	152.35	21.115	CC, ES, SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	200.00	139.89	132.31	18.470	CC, ES, SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	199.00	219.42	211.84	28.971	CC, ES, SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	199.00	205.17	197.59	27.090	CC, ES, SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	199.00	234.34	226.77	30.942	CC, ES, SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	199.00	151.32	143.75	19.981	CC, ES
SANFORD 31N-30B-M - Wellbore #1 - Design #1	7,246.70	7,781.87	182.71	145.81	4.951	SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	199.00	155.35	147.77	20.512	CC, ES
SANFORD 31N-30C-M - Wellbore #1 - Design #1	7,300.00	7,804.08	418.78	382.18	11.441	SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	303.36	299.96	169.59	161.93	22.151	CC, ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	8,200.00	7,219.11	972.06	926.54	21.353	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	199.00	161.61	154.04	21.339	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	8,000.00	7,350.00	708.96	666.39	16.655	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	515.26	508.80	59.80	51.89	7.558	CC
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	600.00	591.81	59.85	51.79	7.423	ES
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	20,407.86	20,315.47	718.02	290.13	1.678	SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	600.00	589.16	79.72	71.66	9.890	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	20,407.86	20,468.06	904.08	463.75	2.053	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	395.08	397.82	40.02	32.27	5.165	CC
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	400.00	402.72	40.02	32.27	5.161	ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	20,407.86	20,172.92	471.85	59.57	1.145	Level 2, SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	453.03	454.80	19.98	12.16	2.554	CC
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	20,407.86	20,254.35	220.07	-173.83	0.559	Level 1, ES, SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	199.00	170.07	162.50	22.456	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	7,800.00	7,488.72	673.56	636.58	18.216	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	199.00	161.51	153.94	21.326	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	7,042.70	7,752.12	589.28	552.63	16.080	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	199.00	180.23	172.66	23.798	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	7,100.00	7,876.72	876.65	839.79	23.784	SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	199.00	192.17	184.59	25.373	CC, ES, SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	199.00	151.36	143.79	19.986	CC, ES
SANFORD 5C-30-M - Wellbore #1 - Design #1	7,800.00	7,539.77	307.89	268.25	7.767	SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	199.00	155.15	147.57	20.485	CC, ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	7,400.00	7,743.50	467.89	429.55	12.203	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	7,383.42	7,772.71	21.54	-15.65	0.579	Level 1, CC, ES, SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	504.65	502.54	19.95	12.05	2.526	CC
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	20,407.86	20,240.16	298.73	-82.61	0.783	Level 1, ES, SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	509.71	505.46	39.88	31.97	5.045	CC
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	600.00	594.51	39.99	31.93	4.959	ES
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	20,407.86	20,349.08	470.29	35.52	1.082	Level 2, SF

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Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-27 Offsets Incomplete (Need 1 Directional) - GRACIE J 27-19X - Noble SI Well - Actual Multish										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2° CONE_2.448, 478-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
16,000.00	7,368.10	7,545.42	7,206.66	147.56	48.46	-80.45	-371.85	9,863.93	1,162.60	1,058.17	104.43	11.133	
16,100.00	7,368.24	7,551.52	7,212.74	149.22	48.48	-81.17	-371.62	9,864.28	1,072.35	963.33	109.02	9.836	
16,200.00	7,368.37	7,557.51	7,218.72	150.88	48.49	-81.88	-371.39	9,864.62	983.96	869.57	114.39	8.602	
16,300.00	7,368.50	7,563.42	7,224.61	152.54	48.50	-82.58	-371.17	9,864.95	897.97	777.28	120.69	7.440	
16,400.00	7,368.64	7,569.30	7,230.48	154.21	48.51	-83.28	-370.94	9,865.28	815.14	687.03	128.11	6.363	
16,500.00	7,368.77	7,575.15	7,236.32	155.87	48.52	-83.98	-370.72	9,865.61	736.54	599.70	136.84	5.383	
16,600.00	7,368.90	7,580.97	7,242.12	157.53	48.54	-84.67	-370.50	9,865.93	663.67	516.64	147.03	4.514	
16,700.00	7,369.04	7,586.76	7,247.90	159.19	48.55	-85.36	-370.28	9,866.25	598.64	439.92	158.71	3.772	
16,800.00	7,369.17	7,592.51	7,253.64	160.86	48.56	-86.05	-370.07	9,866.57	544.25	372.67	171.58	3.172	
16,900.00	7,369.31	7,598.24	7,259.35	162.52	48.57	-86.74	-369.85	9,866.89	503.96	319.40	184.56	2.731	
17,000.00	7,369.44	7,603.93	7,265.03	164.18	48.58	-87.42	-369.64	9,867.20	481.34	285.92	195.42	2.463	
17,061.80	7,369.52	7,607.43	7,268.52	165.21	48.59	-87.84	-369.51	9,867.39	477.37	277.59	199.78	2.389 CC, ES	
17,100.00	7,369.57	7,609.59	7,270.68	165.84	48.60	-88.10	-369.43	9,867.51	478.89	277.62	201.27	2.379 SF	
17,200.00	7,369.71	7,615.22	7,276.30	167.51	48.61	-88.77	-369.22	9,867.82	496.91	296.34	200.57	2.478	
17,300.00	7,369.84	7,620.82	7,281.89	169.17	48.62	-89.44	-369.01	9,868.13	533.33	339.08	194.26	2.746	
17,400.00	7,369.97	7,626.39	7,287.45	170.84	48.63	-90.11	-368.81	9,868.43	584.73	400.03	184.70	3.166	
17,500.00	7,370.11	7,631.93	7,292.97	172.50	48.64	-90.77	-368.61	9,868.73	647.54	473.45	174.09	3.720	
17,600.00	7,370.24	7,637.45	7,298.47	174.16	48.65	-91.43	-368.41	9,869.03	718.78	555.02	163.76	4.389	
17,700.00	7,370.38	7,642.93	7,303.95	175.83	48.66	-92.09	-368.21	9,869.33	796.19	641.83	154.36	5.158	
17,800.00	7,370.51	7,648.38	7,309.39	177.49	48.68	-92.74	-368.01	9,869.62	878.14	732.09	146.06	6.012	
17,900.00	7,370.64	7,653.81	7,314.80	179.16	48.69	-93.38	-367.81	9,869.91	963.48	824.64	138.84	6.939	
18,000.00	7,370.78	7,659.20	7,320.19	180.82	48.70	-94.02	-367.62	9,870.20	1,051.38	918.77	132.61	7.928	
18,100.00	7,370.91	7,663.69	7,324.67	182.49	48.71	-94.55	-367.46	9,870.44	1,141.25	1,014.02	127.22	8.970	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-27 Offsets Incomplete (Need 1 Directional) - UPRC 27-4C - Noble SI Well - Actual BHI Tiff Sur												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 988-SRC Energy_2" CONE_2.448, 3537-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	
15,300.00	7,367.16	7,590.08	6,943.81	135.94	86.91	-65.96	-198.63	9,048.31	1,173.31	1,011.87	161.44	7.268	
15,400.00	7,367.30	7,616.99	6,969.83	137.60	86.94	-67.99	-196.86	9,054.91	1,094.46	927.35	167.10	6.550	
15,500.00	7,367.43	7,643.76	6,995.73	139.26	86.98	-70.05	-195.16	9,061.46	1,018.67	845.23	173.44	5.873	
15,600.00	7,367.57	7,670.40	7,021.52	140.92	87.02	-72.15	-193.55	9,067.96	946.70	766.21	180.49	5.245	
15,700.00	7,367.70	7,696.91	7,047.19	142.58	87.06	-74.27	-192.01	9,074.41	879.48	691.26	188.23	4.673	
15,800.00	7,367.83	7,723.29	7,072.74	144.24	87.09	-76.42	-190.54	9,080.81	818.20	621.65	196.55	4.163	
15,900.00	7,367.97	7,749.55	7,098.17	145.90	87.13	-78.58	-189.15	9,087.17	764.29	559.08	205.20	3.725	
16,000.00	7,368.10	7,775.67	7,123.49	147.56	87.17	-80.76	-187.84	9,093.48	719.41	505.67	213.74	3.366	
16,100.00	7,368.24	7,801.67	7,148.69	149.22	87.21	-82.94	-186.60	9,099.74	685.34	463.88	221.47	3.095	
16,200.00	7,368.37	7,820.38	7,166.71	150.88	87.23	-84.52	-185.49	9,104.67	664.13	436.71	227.42	2.920	
16,300.00	7,368.50	7,845.33	7,190.80	152.54	87.26	-86.62	-184.17	9,111.05	656.48	425.36	231.12	2.840	
16,304.00	7,368.51	7,846.35	7,191.78	152.61	87.26	-86.71	-184.12	9,111.31	656.47	425.26	231.21	2.839	CC, ES, SF
16,400.00	7,368.64	7,869.41	7,214.02	154.21	87.30	-88.65	-182.86	9,117.29	663.02	431.04	231.98	2.858	
16,500.00	7,368.77	7,893.66	7,237.38	155.87	87.33	-90.68	-181.46	9,123.62	683.35	453.26	230.09	2.970	
16,600.00	7,368.90	7,918.27	7,261.08	157.53	87.37	-92.74	-179.96	9,130.10	716.27	490.31	225.97	3.170	
16,700.00	7,369.04	7,943.37	7,285.23	159.19	87.76	-94.81	-178.34	9,136.75	760.14	539.31	220.84	3.442	
16,800.00	7,369.17	7,970.03	7,310.87	160.86	91.85	-96.99	-176.58	9,143.84	813.14	593.51	219.63	3.702	
16,900.00	7,369.31	7,996.69	7,336.51	162.52	96.08	-99.14	-174.82	9,150.93	873.60	655.66	217.93	4.009	
17,000.00	7,369.44	8,023.35	7,362.15	164.18	100.52	-101.24	-173.07	9,158.02	940.06	723.82	216.24	4.347	
17,100.00	7,369.57	8,050.01	7,387.78	165.84	105.23	-103.31	-171.31	9,165.11	1,011.36	796.49	214.86	4.707	
17,200.00	7,369.71	8,076.66	7,413.42	167.51	110.18	-105.33	-169.55	9,172.20	1,086.53	872.57	213.96	5.078	
17,300.00	7,369.84	8,103.32	7,439.06	169.17	115.34	-107.30	-167.80	9,179.28	1,164.83	951.24	213.59	5.454	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-27 Offsets Incomplete (Need 1 Directional) - UPRC 27-5C - Noble T/A Well - Actual VES Survey												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_VESSI GyroFlex V4, 6950-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	
15,100.00	7,366.90	7,460.34	7,223.12	132.62	25.46	89.08	-1,228.38	9,024.61	1,192.52	1,120.23	72.29	16.496	
15,200.00	7,367.03	7,459.88	7,222.66	134.28	25.45	89.01	-1,228.37	9,024.61	1,098.49	1,022.46	76.03	14.448	
15,300.00	7,367.16	7,459.42	7,222.20	135.94	25.44	88.94	-1,228.35	9,024.61	1,005.62	925.11	80.51	12.490	
15,400.00	7,367.30	7,458.96	7,221.74	137.60	25.42	88.87	-1,228.34	9,024.62	914.26	828.33	85.92	10.641	
15,500.00	7,367.43	7,458.50	7,221.28	139.26	25.41	88.80	-1,228.33	9,024.62	824.89	732.40	92.50	8.918	
15,600.00	7,367.57	7,458.04	7,220.82	140.92	25.40	88.74	-1,228.31	9,024.62	738.27	637.72	100.54	7.343	
15,700.00	7,367.70	7,457.58	7,220.36	142.58	25.38	88.67	-1,228.30	9,024.62	655.46	545.06	110.40	5.937	
15,800.00	7,367.83	7,457.12	7,219.90	144.24	25.37	88.60	-1,228.28	9,024.63	578.11	455.73	122.38	4.724	
15,900.00	7,367.97	7,456.66	7,219.44	145.90	25.36	88.53	-1,228.27	9,024.63	508.73	372.21	136.51	3.727	
16,000.00	7,368.10	7,456.20	7,218.98	147.56	25.33	88.47	-1,228.26	9,024.63	450.99	298.99	152.00	2.967	
16,100.00	7,368.24	7,455.74	7,218.52	149.22	25.33	88.40	-1,228.24	9,024.64	409.85	243.45	166.40	2.463	
16,200.00	7,368.37	7,455.28	7,218.06	150.88	25.32	88.33	-1,228.23	9,024.64	390.59	215.16	175.43	2.226	
16,227.07	7,368.41	7,455.16	7,217.94	151.33	25.32	88.31	-1,228.23	9,024.64	389.65	213.23	176.42	2.209	CC, ES, SF
16,300.00	7,368.50	7,454.83	7,217.61	152.54	25.31	88.26	-1,228.22	9,024.64	396.42	220.79	175.63	2.257	
16,400.00	7,368.64	7,454.37	7,217.15	154.21	25.29	88.20	-1,228.20	9,024.64	426.30	258.64	167.66	2.543	
16,500.00	7,368.77	7,453.91	7,216.69	155.87	25.28	88.13	-1,228.19	9,024.65	475.73	320.28	155.45	3.060	
16,600.00	7,368.90	7,453.45	7,216.23	157.53	25.27	88.06	-1,228.18	9,024.65	539.35	396.76	142.59	3.782	
16,700.00	7,369.04	7,452.99	7,215.77	159.19	25.25	87.99	-1,228.16	9,024.65	612.77	481.85	130.92	4.681	
16,800.00	7,369.17	7,452.53	7,215.31	160.86	25.24	87.93	-1,228.15	9,024.66	692.87	571.92	120.95	5.728	
16,900.00	7,369.31	7,452.07	7,214.85	162.52	25.23	87.86	-1,228.14	9,024.66	777.59	664.94	112.65	6.902	
17,000.00	7,369.44	7,451.61	7,214.39	164.18	25.22	87.79	-1,228.12	9,024.66	865.58	759.80	105.79	8.182	
17,100.00	7,369.57	7,451.15	7,213.93	165.84	25.20	87.72	-1,228.11	9,024.66	955.94	855.85	100.09	9.551	
17,200.00	7,369.71	7,450.69	7,213.47	167.51	25.19	87.66	-1,228.10	9,024.67	1,048.04	952.71	95.34	10.993	
17,300.00	7,369.84	7,450.23	7,213.01	169.17	25.18	87.59	-1,228.08	9,024.67	1,141.48	1,050.13	91.35	12.496	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-27 Offsets Incomplete (Need 1 Directional) - UPRC 27-6C - Noble P&A Well - Actual VES Surv													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_VESSI GyroFlex V4, 7750-SRC Energy_UNKNOWN													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		
16,400.00	7,368.64	7,535.08	7,032.57	154.21	19.85	65.22	-1,280.15	10,253.67	1,157.59	1,077.60	79.99	14.473		
16,500.00	7,368.77	7,565.67	7,062.00	155.87	19.92	68.34	-1,275.91	10,260.85	1,066.78	982.41	84.37	12.644		
16,600.00	7,368.90	7,594.09	7,089.43	157.53	20.00	71.44	-1,272.11	10,267.27	977.08	887.39	89.68	10.895		
16,700.00	7,369.04	7,621.59	7,116.03	159.19	20.06	74.62	-1,268.54	10,273.26	888.87	792.79	96.08	9.251		
16,800.00	7,369.17	7,647.44	7,141.09	160.86	20.11	77.76	-1,265.24	10,278.69	802.72	698.86	103.87	7.728		
16,900.00	7,369.31	7,668.45	7,161.48	162.52	20.17	80.41	-1,262.58	10,283.01	719.49	605.99	113.50	6.339		
17,000.00	7,369.44	7,689.03	7,181.44	164.18	20.23	83.09	-1,259.98	10,287.24	640.40	515.28	125.12	5.118		
17,100.00	7,369.57	7,709.60	7,201.40	165.84	20.29	85.82	-1,257.37	10,291.47	567.20	428.28	138.93	4.083		
17,200.00	7,369.71	7,730.17	7,221.36	167.51	20.36	88.62	-1,254.77	10,295.70	502.47	347.81	154.66	3.249		
17,300.00	7,369.84	7,750.74	7,241.33	169.17	20.42	91.46	-1,252.17	10,299.93	449.88	278.90	170.98	2.631		
17,400.00	7,369.97	7,771.31	7,261.29	170.84	20.75	94.33	-1,249.56	10,304.16	414.07	229.07	185.01	2.238		
17,500.00	7,370.11	7,791.88	7,281.25	172.50	21.08	97.21	-1,246.96	10,308.39	399.59	207.59	192.00	2.081		
17,511.51	7,370.12	7,794.25	7,283.55	172.69	21.12	97.54	-1,246.66	10,308.87	399.43	207.24	192.19	2.078	CC, ES, SF	
17,600.00	7,370.24	7,812.45	7,301.21	174.16	21.40	100.10	-1,244.36	10,312.62	408.71	219.45	189.27	2.159		
17,700.00	7,370.38	7,833.02	7,321.18	175.83	21.73	102.97	-1,241.76	10,316.85	439.97	261.43	178.54	2.464		
17,800.00	7,370.51	7,853.59	7,341.14	177.49	22.05	105.81	-1,239.15	10,321.07	489.13	324.97	164.16	2.980		
17,900.00	7,370.64	7,874.16	7,361.10	179.16	22.69	108.62	-1,236.55	10,325.30	551.44	401.51	149.93	3.678		
18,000.00	7,370.78	7,894.73	7,381.06	180.82	23.28	111.37	-1,233.95	10,329.53	622.96	485.72	137.24	4.539		
18,100.00	7,370.91	7,915.30	7,401.03	182.49	23.86	114.06	-1,231.34	10,333.76	700.87	574.29	126.58	5.537		
18,200.00	7,371.05	7,935.88	7,420.99	184.15	24.45	116.68	-1,228.74	10,337.99	783.27	665.44	117.83	6.648		
18,300.00	7,371.18	7,956.45	7,440.95	185.82	25.04	119.21	-1,226.14	10,342.22	868.88	758.17	110.71	7.848		
18,400.00	7,371.31	7,960.00	7,444.40	187.48	25.20	119.64	-1,225.69	10,342.95	957.00	852.49	104.51	9.157		
18,500.00	7,371.45	7,960.00	7,444.40	189.15	25.20	119.64	-1,225.69	10,342.95	1,047.25	948.07	99.18	10.559		
18,600.00	7,371.58	7,960.00	7,444.40	190.82	25.20	119.64	-1,225.69	10,342.95	1,139.13	1,044.45	94.67	12.032		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-27 Offsets Incomplete (Need 1 Directional) - UPV 27-1H6 - Noble P&A Well - Actual Sperry Su												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_VESSI GyroFlex V4, 699-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	
19,600.00	7,372.92	7,248.81	6,791.33	207.48	48.20	-62.23	9.80	13,023.21	1,173.94	980.93	193.02	6.082	
19,700.00	7,373.05	7,255.30	6,797.18	209.15	48.27	-62.60	12.59	13,023.65	1,124.91	924.74	200.17	5.620	
19,800.00	7,373.19	7,261.86	6,803.09	210.81	48.33	-62.97	15.40	13,024.09	1,082.88	875.72	207.17	5.227	
19,900.00	7,373.32	7,268.49	6,809.06	212.48	48.39	-63.35	18.24	13,024.53	1,048.69	834.88	213.81	4.905	
20,000.00	7,373.45	7,275.18	6,815.09	214.15	48.46	-63.73	21.11	13,024.99	1,023.13	803.25	219.87	4.653	
20,100.00	7,373.59	7,281.95	6,821.19	215.81	48.52	-64.12	24.01	13,025.45	1,006.84	781.76	225.09	4.473	
20,200.00	7,373.72	7,288.79	6,827.35	217.48	48.58	-64.51	26.94	13,025.91	1,000.29	771.13	229.16	4.365	
20,216.02	7,373.74	7,289.89	6,828.35	217.75	48.59	-64.58	27.41	13,025.99	1,000.17	770.48	229.69	4.354	CC, ES
20,300.00	7,373.86	7,295.70	6,833.58	219.15	48.65	-64.91	29.89	13,026.39	1,003.67	771.84	231.83	4.329	SF
20,400.00	7,373.99	7,302.68	6,839.87	220.82	48.72	-65.31	32.88	13,026.87	1,016.87	783.94	232.93	4.365	
20,407.86	7,374.00	7,303.23	6,840.37	220.95	48.72	-65.34	33.11	13,026.91	1,018.32	785.36	232.95	4.371	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-27 Offsets Incomplete (Need 1 Directional) - UPV 27-2H6 - Noble PR Well - Actual VES Survey												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_VESSI GyroFlex V4, 7800-SRC Energy_UNKNOWN												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	
18,100.00	7,370.91	7,672.91	7,111.39	182.49	25.06	-81.63	111.72	11,547.96	1,172.85	995.00	177.84	6.595	
18,200.00	7,371.05	7,654.77	7,094.37	184.15	24.98	-80.60	106.71	11,551.74	1,121.45	936.83	184.62	6.074	
18,300.00	7,371.18	7,636.49	7,077.21	185.82	24.91	-79.56	101.71	11,555.56	1,076.56	885.51	191.05	5.635	
18,400.00	7,371.31	7,618.08	7,059.91	187.48	24.83	-78.51	96.72	11,559.42	1,039.01	842.17	196.84	5.278	
18,500.00	7,371.45	7,600.00	7,042.92	189.15	24.76	-77.48	91.86	11,563.22	1,009.61	807.94	201.67	5.006	
18,600.00	7,371.58	7,582.54	7,026.49	190.82	24.69	-76.48	87.23	11,566.91	989.10	783.87	205.23	4.819	
18,700.00	7,371.71	7,565.50	7,010.44	192.48	24.62	-75.50	82.77	11,570.50	978.07	770.81	207.26	4.719	
18,762.59	7,371.80	7,554.83	7,000.38	193.52	24.58	-74.89	80.02	11,572.75	976.14	768.48	207.66	4.701	CC, ES, SF
18,800.00	7,371.85	7,548.45	6,994.36	194.15	24.56	-74.53	78.39	11,574.10	976.83	769.25	207.58	4.706	
18,900.00	7,371.98	7,531.41	6,978.27	195.81	24.49	-73.55	74.08	11,577.70	985.42	779.22	206.20	4.779	
19,000.00	7,372.12	7,514.36	6,962.15	197.48	24.42	-72.57	69.83	11,581.30	1,003.58	800.31	203.27	4.937	
19,100.00	7,372.25	7,496.28	6,945.05	199.15	24.35	-71.54	65.41	11,585.12	1,030.81	831.80	199.01	5.180	
19,200.00	7,372.38	7,472.69	6,922.72	200.81	24.26	-70.19	59.63	11,590.11	1,066.33	872.71	193.62	5.507	
19,300.00	7,372.52	7,448.98	6,900.31	202.48	24.17	-68.85	53.78	11,595.14	1,109.30	921.72	187.59	5.914	
19,400.00	7,372.65	7,425.17	6,877.80	204.14	24.08	-67.51	47.85	11,600.20	1,158.89	977.68	181.21	6.395	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-27 Offsets Incomplete (Need 1 Directional) - UPV 27-7H6 - Noble PR Well - Actual VES Survey												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_VESSI GyroFlex V4, 7250-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	
17,700.00	7,370.38	7,572.67	7,251.80	175.83	21.78	88.73	-1,001.19	11,618.07	1,126.82	1,072.28	54.54	20.659	
17,800.00	7,370.51	7,573.05	7,252.17	177.49	21.79	88.88	-1,001.19	11,618.07	1,027.65	971.69	55.96	18.365	
17,900.00	7,370.64	7,573.42	7,252.55	179.16	21.79	89.04	-1,001.18	11,618.07	928.66	870.90	57.76	16.077	
18,000.00	7,370.78	7,573.80	7,252.92	180.82	21.80	89.19	-1,001.18	11,618.07	829.91	769.78	60.13	13.803	
18,100.00	7,370.91	7,574.17	7,253.30	182.49	21.81	89.35	-1,001.18	11,618.07	731.50	668.20	63.30	11.556	
18,200.00	7,371.05	7,574.54	7,253.67	184.15	21.82	89.50	-1,001.18	11,618.07	633.59	565.90	67.68	9.361	
18,300.00	7,371.18	7,574.92	7,254.04	185.82	21.83	89.66	-1,001.17	11,618.07	536.44	462.47	73.97	7.252	
18,400.00	7,371.31	7,575.29	7,254.42	187.48	21.84	89.81	-1,001.17	11,618.08	440.58	357.19	83.39	5.283	
18,500.00	7,371.45	7,575.67	7,254.79	189.15	21.84	89.97	-1,001.17	11,618.08	347.06	248.76	98.30	3.531	
18,600.00	7,371.58	7,576.04	7,255.17	190.82	21.85	90.12	-1,001.16	11,618.08	258.44	135.01	123.42	2.094	
18,700.00	7,371.71	7,576.41	7,255.54	192.48	21.86	90.28	-1,001.16	11,618.08	182.01	15.67	166.34	1.094	Level 2
18,800.00	7,371.85	7,576.79	7,255.91	194.15	21.87	90.43	-1,001.16	11,618.08	139.52	-73.94	213.47	0.654	Level 1
18,818.31	7,371.87	7,576.86	7,255.98	194.45	21.87	90.46	-1,001.16	11,618.08	138.32	-77.71	216.02	0.640	Level 1, CC, ES, SF
18,900.00	7,371.98	7,577.16	7,256.29	195.81	21.88	90.59	-1,001.15	11,618.08	160.64	-32.54	193.18	0.832	Level 1
19,000.00	7,372.12	7,577.54	7,256.66	197.48	21.89	90.74	-1,001.15	11,618.08	228.35	81.46	146.89	1.555	
19,100.00	7,372.25	7,577.91	7,257.04	199.15	21.89	90.90	-1,001.15	11,618.08	313.82	196.91	116.91	2.684	
19,200.00	7,372.38	7,578.29	7,257.41	200.81	21.90	91.05	-1,001.15	11,618.08	405.98	306.89	99.09	4.097	
19,300.00	7,372.52	7,578.66	7,257.79	202.48	21.91	91.21	-1,001.14	11,618.08	501.15	413.23	87.93	5.700	
19,400.00	7,372.65	7,579.03	7,258.16	204.14	21.92	91.36	-1,001.14	11,618.08	597.91	517.39	80.52	7.426	
19,500.00	7,372.79	7,579.41	7,258.53	205.81	21.93	91.52	-1,001.14	11,618.09	695.58	620.21	75.36	9.230	
19,600.00	7,372.92	7,579.78	7,258.91	207.48	21.94	91.67	-1,001.13	11,618.09	793.83	722.19	71.64	11.080	
19,700.00	7,373.05	7,580.16	7,259.28	209.15	21.94	91.83	-1,001.13	11,618.09	892.47	823.59	68.88	12.956	
19,800.00	7,373.19	7,580.53	7,259.66	210.81	21.95	91.98	-1,001.13	11,618.09	991.38	924.60	66.79	14.844	
19,900.00	7,373.32	7,580.90	7,260.03	212.48	21.96	92.14	-1,001.12	11,618.09	1,090.49	1,025.33	65.16	16.734	
20,000.00	7,373.45	7,581.28	7,260.40	214.15	21.97	92.29	-1,001.12	11,618.09	1,189.75	1,125.86	63.89	18.621	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-27 Offsets Incomplete (Need 1 Directional) - UPV 27-8H6 - Noble P&A Well - Actual VES Surv												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_VESSI GyroFlex V4, 7550-SRC Energy_UNKNOWN												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	
19,000.00	7,372.12	7,577.16	7,326.86	197.48	18.60	133.07	-950.38	12,957.31	1,161.66	1,111.19	50.47	23.019	
19,100.00	7,372.25	7,571.58	7,321.31	199.15	18.53	130.58	-950.78	12,957.63	1,062.07	1,011.08	50.99	20.829	
19,200.00	7,372.38	7,566.00	7,315.75	200.81	18.45	127.91	-951.18	12,957.94	962.54	910.87	51.67	18.628	
19,300.00	7,372.52	7,560.41	7,310.19	202.48	18.38	125.06	-951.58	12,958.26	863.08	810.50	52.58	16.414	
19,400.00	7,372.65	7,554.83	7,304.63	204.14	18.27	122.03	-951.98	12,958.57	763.72	709.93	53.80	14.197	
19,500.00	7,372.79	7,550.75	7,299.07	205.81	18.26	118.82	-952.38	12,958.89	664.51	608.82	55.69	11.932	
19,600.00	7,372.92	7,556.33	7,293.52	207.48	18.33	115.44	-952.78	12,959.20	565.51	506.93	58.58	9.654	
19,700.00	7,373.05	7,538.09	7,287.96	209.15	18.22	111.89	-953.17	12,959.52	466.89	403.98	62.90	7.422	
19,800.00	7,373.19	7,532.51	7,282.40	210.81	18.20	108.20	-953.57	12,959.83	368.91	298.50	70.41	5.239	
19,900.00	7,373.32	7,526.93	7,276.84	212.48	18.18	104.39	-953.97	12,960.15	272.29	187.84	84.45	3.224	
20,000.00	7,373.45	7,521.35	7,271.28	214.15	18.17	100.48	-954.37	12,960.46	179.25	64.54	114.72	1.563	
20,100.00	7,373.59	7,515.76	7,265.73	215.81	18.15	96.50	-954.77	12,960.78	100.29	-88.34	188.63	0.532 Level 1	
20,160.72	7,373.67	7,512.38	7,262.35	216.83	18.14	94.08	-955.01	12,960.97	79.89	-153.67	233.56	0.342 Level 1, CC, ES, SF	
20,200.00	7,373.72	7,510.18	7,260.17	217.48	18.13	92.51	-955.17	12,961.09	89.00	-124.78	213.78	0.416 Level 1	
20,300.00	7,373.86	7,504.60	7,254.61	219.15	18.12	88.53	-955.57	12,961.41	160.38	27.33	133.05	1.205 Level 2	
20,400.00	7,373.99	7,499.02	7,249.05	220.82	18.10	84.60	-955.97	12,961.72	251.91	154.48	97.43	2.586	
20,407.86	7,374.00	7,498.58	7,248.62	220.95	18.10	84.30	-956.00	12,961.75	259.37	163.68	95.69	2.711	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - COLTRANE-IGO 1 - 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		
11,100.00	7,361.54	7,307.54	7,307.54	66.86	257.17	89.76	-1,156.50	4,992.94	1,151.07	867.39	283.69	4.058		
11,200.00	7,361.68	7,307.68	7,307.68	68.48	257.18	89.79	-1,156.50	4,992.94	1,056.41	771.09	285.32	3.703		
11,300.00	7,361.81	7,307.81	7,307.81	70.10	257.18	89.81	-1,156.50	4,992.94	962.82	675.45	287.37	3.350		
11,400.00	7,361.95	7,307.95	7,307.95	71.72	257.19	89.83	-1,156.50	4,992.94	870.66	580.69	289.97	3.003		
11,500.00	7,362.08	7,308.08	7,308.08	73.35	257.19	89.85	-1,156.50	4,992.94	780.43	487.13	293.29	2.661		
11,600.00	7,362.21	7,308.21	7,308.21	74.97	257.20	89.87	-1,156.50	4,992.94	692.88	395.32	297.56	2.329		
11,700.00	7,362.35	7,308.35	7,308.35	76.60	257.20	89.89	-1,156.50	4,992.94	609.19	306.14	303.04	2.010		
11,800.00	7,362.48	7,308.48	7,308.48	78.23	257.21	89.91	-1,156.50	4,992.94	531.16	221.13	310.03	1.713		
11,900.00	7,362.61	7,308.61	7,308.61	79.86	257.21	89.94	-1,156.50	4,992.94	461.69	143.04	318.65	1.449	Level 3	
12,000.00	7,362.75	7,308.75	7,308.75	81.50	257.22	89.96	-1,156.50	4,992.94	405.19	76.78	328.40	1.234	Level 2	
12,100.00	7,362.88	7,308.88	7,308.88	83.13	257.22	89.98	-1,156.50	4,992.94	367.69	30.26	337.44	1.090	Level 2	
12,194.89	7,363.01	7,309.01	7,309.01	84.68	257.22	90.00	-1,156.50	4,992.94	355.24	12.81	342.43	1.037	Level 2, CC	
12,200.00	7,363.02	7,309.02	7,309.02	84.77	257.23	90.00	-1,156.50	4,992.94	355.28	12.72	342.55	1.037	Level 2, ES, SF	
12,300.00	7,363.15	7,309.15	7,309.15	86.41	257.23	90.02	-1,156.50	4,992.94	370.46	28.76	341.71	1.084	Level 2	
12,400.00	7,363.28	7,309.28	7,309.28	88.05	257.23	90.04	-1,156.50	4,992.94	410.20	73.92	336.29	1.220	Level 2	
12,500.00	7,363.42	7,309.42	7,309.42	89.69	257.24	90.07	-1,156.50	4,992.94	468.28	139.09	329.19	1.423	Level 3	
12,600.00	7,363.55	7,309.55	7,309.55	91.33	257.24	90.09	-1,156.50	4,992.94	538.80	216.44	322.36	1.671		
12,700.00	7,363.69	7,309.69	7,309.69	92.97	257.25	90.11	-1,156.50	4,992.94	617.52	301.02	316.50	1.951		
12,800.00	7,363.82	7,309.82	7,309.82	94.61	257.25	90.13	-1,156.50	4,992.94	701.68	389.99	311.69	2.251		
12,900.00	7,363.95	7,309.95	7,309.95	96.26	257.26	90.15	-1,156.50	4,992.94	789.54	481.76	307.78	2.565		
13,000.00	7,364.09	7,310.09	7,310.09	97.90	257.26	90.17	-1,156.50	4,992.94	880.00	575.38	304.62	2.889		
13,100.00	7,364.22	7,310.22	7,310.22	99.55	257.27	90.20	-1,156.50	4,992.94	972.33	670.29	302.04	3.219		
13,200.00	7,364.35	7,310.35	7,310.35	101.20	257.27	90.22	-1,156.50	4,992.94	1,066.04	766.12	299.92	3.554		
13,300.00	7,364.49	7,310.49	7,310.49	102.85	257.28	90.24	-1,156.50	4,992.94	1,160.80	862.64	298.16	3.893		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - COLTRANE-PM J 28-4 - 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	
10,200.00	7,360.32	7,331.32	7,331.32	52.53	258.02	-89.94	140.17	3,711.07	1,181.89	877.69	304.19	3.885	
10,300.00	7,360.46	7,331.46	7,331.46	54.10	258.02	-89.95	140.17	3,711.07	1,122.61	815.55	307.06	3.656	
10,400.00	7,360.59	7,331.59	7,331.59	55.68	258.03	-89.95	140.17	3,711.07	1,069.41	759.40	310.01	3.450	
10,500.00	7,360.73	7,331.73	7,331.73	57.26	258.03	-89.96	140.17	3,711.07	1,023.24	710.27	312.98	3.269	
10,600.00	7,360.87	7,331.87	7,331.87	58.85	258.03	-89.97	140.17	3,711.07	985.10	669.27	315.83	3.119	
10,700.00	7,361.00	7,332.00	7,332.00	60.44	258.04	-89.98	140.17	3,711.07	955.93	637.52	318.41	3.002	
10,800.00	7,361.14	7,332.14	7,332.14	62.04	258.04	-89.99	140.17	3,711.07	936.59	616.01	320.58	2.922	
10,900.00	7,361.28	7,332.28	7,332.28	63.64	258.05	-90.00	140.17	3,711.07	929.45	607.26	322.20	2.885	
10,901.02	7,361.28	7,332.28	7,332.28	63.66	258.05	-90.00	140.17	3,711.07	929.45	607.24	322.21	2.885 CC, ES, SF	
11,000.00	7,361.41	7,332.41	7,332.41	65.25	258.05	-90.01	140.17	3,711.07	934.71	611.55	323.16	2.892	
11,100.00	7,361.54	7,332.54	7,332.54	66.86	258.06	-90.02	140.17	3,711.07	950.51	627.06	323.45	2.939	
11,200.00	7,361.68	7,332.68	7,332.68	68.48	258.06	-90.02	140.17	3,711.07	976.35	653.23	323.13	3.022	
11,300.00	7,361.81	7,332.81	7,332.81	70.10	258.07	-90.03	140.17	3,711.07	1,011.47	689.17	322.29	3.138	
11,400.00	7,361.95	7,332.95	7,332.95	71.72	258.07	-90.04	140.17	3,711.07	1,054.92	733.85	321.07	3.286	
11,500.00	7,362.08	7,333.08	7,333.08	73.35	258.08	-90.05	140.17	3,711.07	1,105.74	786.15	319.59	3.460	
11,600.00	7,362.21	7,333.21	7,333.21	74.97	258.08	-90.06	140.17	3,711.07	1,162.95	845.00	317.95	3.658	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - COLTRANE-PM J28-5 - 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	
9,700.00	7,359.64	7,328.64	7,328.64	44.77	257.92	88.98	-877.32	3,651.32	1,151.10	873.51	277.59	4.147	
9,800.00	7,359.77	7,328.77	7,328.77	46.30	257.93	89.07	-877.32	3,651.32	1,051.43	773.82	277.61	3.787	
9,900.00	7,359.91	7,328.91	7,328.91	47.85	257.93	89.16	-877.32	3,651.32	951.82	674.19	277.63	3.428	
10,000.00	7,360.05	7,329.05	7,329.05	49.40	257.93	89.25	-877.32	3,651.32	852.30	574.64	277.66	3.070	
10,100.00	7,360.18	7,329.18	7,329.18	50.96	257.94	89.34	-877.32	3,651.32	752.92	475.19	277.72	2.711	
10,200.00	7,360.32	7,329.32	7,329.32	52.53	257.94	89.43	-877.32	3,651.32	653.72	375.88	277.84	2.353	
10,300.00	7,360.46	7,329.46	7,329.46	54.10	257.95	89.52	-877.32	3,651.32	554.81	276.74	278.07	1.995	
10,400.00	7,360.59	7,329.59	7,329.59	55.68	257.95	89.60	-877.32	3,651.32	456.37	177.82	278.55	1.638	
10,500.00	7,360.73	7,329.73	7,329.73	57.26	257.96	89.69	-877.32	3,651.32	358.79	79.15	279.64	1.283	Level 3
10,600.00	7,360.87	7,329.87	7,329.87	58.85	257.96	89.78	-877.32	3,651.32	263.05	-19.35	282.39	0.931	Level 1
10,700.00	7,361.00	7,330.00	7,330.00	60.44	257.97	89.87	-877.32	3,651.32	172.21	-117.95	290.16	0.593	Level 1
10,800.00	7,361.14	7,330.14	7,330.14	62.04	257.97	89.96	-877.32	3,651.32	100.59	-210.89	311.47	0.323	Level 1
10,849.20	7,361.21	7,330.21	7,330.21	62.83	257.98	90.00	-877.32	3,651.32	88.15	-233.09	321.24	0.274	Level 1, CC, ES, SF
10,900.00	7,361.28	7,330.28	7,330.28	63.64	257.98	90.04	-877.32	3,651.32	101.33	-215.04	316.37	0.320	Level 1
11,000.00	7,361.41	7,330.41	7,330.41	65.25	257.98	90.13	-877.32	3,651.32	173.55	-124.71	298.26	0.582	Level 1
11,100.00	7,361.54	7,330.54	7,330.54	66.86	257.99	90.22	-877.32	3,651.32	264.52	-25.46	289.99	0.912	Level 1
11,200.00	7,361.68	7,330.68	7,330.68	68.48	257.99	90.30	-877.32	3,651.32	360.31	74.08	286.23	1.259	Level 3
11,300.00	7,361.81	7,330.81	7,330.81	70.10	258.00	90.39	-877.32	3,651.32	457.91	173.63	284.27	1.611	
11,400.00	7,361.95	7,330.95	7,330.95	71.72	258.00	90.48	-877.32	3,651.32	556.36	273.22	283.14	1.965	
11,500.00	7,362.08	7,331.08	7,331.08	73.35	258.01	90.56	-877.32	3,651.32	655.27	372.84	282.43	2.320	
11,600.00	7,362.21	7,331.21	7,331.21	74.97	258.01	90.65	-877.32	3,651.32	754.48	472.51	281.97	2.676	
11,700.00	7,362.35	7,331.35	7,331.35	76.60	258.02	90.74	-877.32	3,651.32	853.87	572.21	281.66	3.032	
11,800.00	7,362.48	7,331.48	7,331.48	78.23	258.02	90.82	-877.32	3,651.32	953.38	671.94	281.45	3.387	
11,900.00	7,362.61	7,331.61	7,331.61	79.86	258.03	90.91	-877.32	3,651.32	1,052.99	771.69	281.31	3.743	
12,000.00	7,362.75	7,331.75	7,331.75	81.50	258.03	91.00	-877.32	3,651.32	1,152.67	871.46	281.21	4.099	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - IGO 28-3H6 - 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	
11,100.00	7,361.54	7,300.46	7,299.54	66.86	256.92	-89.91	-42.88	4,838.64	1,199.27	894.66	304.61	3.937	
11,200.00	7,361.68	7,300.32	7,299.68	68.48	256.92	-89.92	-42.88	4,838.64	1,123.48	815.44	308.04	3.647	
11,300.00	7,361.81	7,300.19	7,299.81	70.10	256.91	-89.93	-42.88	4,838.64	1,051.74	739.91	311.82	3.373	
11,400.00	7,361.95	7,300.05	7,299.95	71.72	256.91	-89.94	-42.88	4,838.64	984.94	668.99	315.95	3.117	
11,500.00	7,362.08	7,300.08	7,300.08	73.35	256.91	-89.95	-42.88	4,838.64	924.15	603.80	320.35	2.885	
11,600.00	7,362.21	7,300.21	7,300.21	74.97	256.91	-89.96	-42.88	4,838.64	870.63	545.75	324.89	2.680	
11,700.00	7,362.35	7,300.35	7,300.35	76.60	256.92	-89.97	-42.88	4,838.64	825.81	496.46	329.35	2.507	
11,800.00	7,362.48	7,300.48	7,300.48	78.23	256.92	-89.98	-42.88	4,838.64	791.14	457.72	333.42	2.373	
11,900.00	7,362.61	7,300.61	7,300.61	79.86	256.93	-89.99	-42.88	4,838.64	768.02	431.27	336.76	2.281	
12,000.00	7,362.75	7,300.75	7,300.75	81.50	256.93	-90.00	-42.88	4,838.64	757.50	418.49	339.01	2.234	
12,030.24	7,362.79	7,300.79	7,300.79	81.99	256.93	-90.00	-42.88	4,838.64	756.90	417.45	339.45	2.230 CC, ES, SF	
12,100.00	7,362.88	7,300.88	7,300.88	83.13	256.94	-90.01	-42.88	4,838.64	760.10	420.13	339.98	2.236	
12,200.00	7,363.02	7,301.02	7,301.02	84.77	256.94	-90.02	-42.88	4,838.64	775.70	436.08	339.62	2.284	
12,300.00	7,363.15	7,301.15	7,301.15	86.41	256.95	-90.03	-42.88	4,838.64	803.53	465.41	338.12	2.376	
12,400.00	7,363.28	7,301.28	7,301.28	88.05	256.95	-90.04	-42.88	4,838.64	842.38	506.62	335.76	2.509	
12,500.00	7,363.42	7,301.42	7,301.42	89.69	256.96	-90.05	-42.88	4,838.64	890.82	557.95	332.87	2.676	
12,600.00	7,363.55	7,301.55	7,301.55	91.33	256.96	-90.06	-42.88	4,838.64	947.37	617.66	329.71	2.873	
12,700.00	7,363.69	7,301.69	7,301.69	92.97	256.97	-90.07	-42.88	4,838.64	1,010.68	684.17	326.51	3.095	
12,800.00	7,363.82	7,301.82	7,301.82	94.61	256.97	-90.08	-42.88	4,838.64	1,079.54	756.15	323.40	3.338	
12,900.00	7,363.95	7,301.95	7,301.95	96.26	256.97	-90.09	-42.88	4,838.64	1,152.98	832.52	320.46	3.598	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - IGO FARMS J 28-19D - Noble SI Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 139-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	
10,400.00	7,360.59	7,365.29	7,349.65	55.68	19.99	-92.54	-602.92	4,377.05	1,191.95	1,149.22	42.73	27.896	
10,500.00	7,360.73	7,364.78	7,349.14	57.26	19.99	-92.37	-602.91	4,377.05	1,093.04	1,049.75	43.29	25.250	
10,600.00	7,360.87	7,364.27	7,348.64	58.85	19.99	-92.20	-602.91	4,377.05	994.34	950.36	43.98	22.611	
10,700.00	7,361.00	7,363.77	7,348.13	60.44	19.98	-92.02	-602.91	4,377.05	895.93	851.08	44.84	19.980	
10,800.00	7,361.14	7,363.26	7,347.62	62.04	19.98	-91.85	-602.90	4,377.06	797.91	751.95	45.96	17.362	
10,900.00	7,361.28	7,362.77	7,347.13	63.64	19.98	-91.47	-602.90	4,377.06	700.90	653.34	47.56	14.738	
11,000.00	7,361.41	7,362.29	7,346.65	65.25	19.98	-91.33	-602.89	4,377.06	605.38	555.48	49.90	12.131	
11,100.00	7,361.54	7,361.81	7,346.17	66.86	19.98	-91.19	-602.89	4,377.07	511.57	458.32	53.25	9.607	
11,200.00	7,361.68	7,361.33	7,345.69	68.48	19.98	-91.04	-602.88	4,377.07	420.62	362.42	58.20	7.228	
11,300.00	7,361.81	7,360.85	7,345.21	70.10	19.98	-90.90	-602.88	4,377.07	334.87	269.15	65.72	5.095	
11,400.00	7,361.95	7,360.36	7,344.73	71.72	19.98	-90.76	-602.88	4,377.08	259.53	182.58	76.95	3.373	
11,500.00	7,362.08	7,359.88	7,344.25	73.35	19.97	-90.62	-602.87	4,377.08	206.34	116.05	90.29	2.285	
11,573.91	7,362.18	7,359.53	7,343.89	74.55	19.97	-90.51	-602.87	4,377.08	192.65	97.60	95.05	2.027 CC, ES, SF	
11,600.00	7,362.21	7,359.40	7,343.77	74.97	19.97	-90.47	-602.87	4,377.08	194.41	99.96	94.44	2.058	
11,700.00	7,362.35	7,358.92	7,343.28	76.60	19.97	-90.33	-602.86	4,377.08	230.24	146.51	83.73	2.750	
11,800.00	7,362.48	7,358.44	7,342.80	78.23	19.97	-90.19	-602.86	4,377.09	297.03	226.09	70.94	4.187	
11,900.00	7,362.61	7,357.96	7,342.32	79.86	19.97	-90.04	-602.85	4,377.09	378.74	316.90	61.84	6.125	
12,000.00	7,362.75	7,357.48	7,341.84	81.50	19.97	-89.90	-602.85	4,377.09	467.61	411.69	55.92	8.362	
12,100.00	7,362.88	7,356.99	7,341.36	83.13	19.97	-89.76	-602.85	4,377.10	560.24	508.21	52.04	10.767	
12,200.00	7,363.02	7,356.51	7,340.87	84.77	19.97	-89.61	-602.84	4,377.10	655.05	605.63	49.42	13.255	
12,300.00	7,363.15	7,356.03	7,340.39	86.41	19.97	-89.47	-602.84	4,377.10	751.20	703.59	47.61	15.779	
12,400.00	7,363.28	7,355.55	7,339.91	88.05	19.96	-89.33	-602.83	4,377.11	848.24	801.92	46.32	18.313	
12,500.00	7,363.42	7,355.06	7,339.43	89.69	19.96	-89.18	-602.83	4,377.11	945.90	900.51	45.39	20.840	
12,600.00	7,363.55	7,354.58	7,338.94	91.33	19.96	-89.04	-602.82	4,377.11	1,044.00	999.30	44.70	23.353	
12,700.00	7,363.69	7,354.09	7,338.46	92.97	19.96	-88.89	-602.82	4,377.11	1,142.43	1,098.24	44.20	25.849	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - IGO FARMS J 28-20D - Noble PR Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 120-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	
10,900.00	7,361.28	7,493.96	7,338.55	63.64	31.57	89.78	-1,752.37	4,355.58	1,164.30	1,089.30	75.00	15.523	
11,000.00	7,361.41	7,493.53	7,338.11	65.25	31.57	89.76	-1,752.37	4,355.59	1,110.39	1,032.11	78.28	14.184	
11,100.00	7,361.54	7,493.09	7,337.67	66.86	31.57	89.73	-1,752.37	4,355.59	1,063.18	981.45	81.73	13.008	
11,200.00	7,361.68	7,492.65	7,337.23	68.48	31.57	89.70	-1,752.37	4,355.59	1,023.59	938.32	85.27	12.004	
11,300.00	7,361.81	7,492.20	7,336.79	70.10	31.57	89.68	-1,752.36	4,355.59	992.53	903.72	88.81	11.176	
11,400.00	7,361.95	7,491.76	7,336.35	71.72	31.57	89.65	-1,752.36	4,355.60	970.82	878.61	92.21	10.528	
11,500.00	7,362.08	7,491.31	7,335.90	73.35	31.57	89.63	-1,752.36	4,355.60	959.10	863.77	95.32	10.061	
11,563.11	7,362.16	7,491.03	7,335.62	74.37	31.57	89.61	-1,752.35	4,355.60	957.02	859.95	97.07	9.859 CC	
11,600.00	7,362.21	7,490.87	7,335.45	74.97	31.57	89.60	-1,752.35	4,355.60	957.73	859.74	97.99	9.774 ES	
11,700.00	7,362.35	7,490.42	7,335.01	76.60	31.57	89.57	-1,752.35	4,355.60	966.76	866.68	100.08	9.659 SF	
11,800.00	7,362.48	7,489.97	7,334.56	78.23	31.57	89.54	-1,752.35	4,355.61	985.90	884.38	101.52	9.711	
11,900.00	7,362.61	7,489.52	7,334.11	79.86	31.56	89.52	-1,752.34	4,355.61	1,014.58	912.28	102.30	9.918	
12,000.00	7,362.75	7,489.07	7,333.65	81.50	31.56	89.49	-1,752.34	4,355.61	1,052.02	949.55	102.47	10.267	
12,100.00	7,362.88	7,488.61	7,333.20	83.13	31.56	89.46	-1,752.34	4,355.62	1,097.33	995.20	102.13	10.745	
12,200.00	7,363.02	7,488.16	7,332.74	84.77	31.56	89.44	-1,752.34	4,355.62	1,149.57	1,048.19	101.38	11.339	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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: 147-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	
9,300.00	7,359.09	7,445.58	7,333.15	38.73	28.42	-89.12	-321.46	3,125.37	1,141.88	1,089.97	51.91	21.999	
9,400.00	7,359.23	7,446.29	7,333.86	40.22	28.42	-89.21	-321.46	3,125.38	1,052.00	998.38	53.62	19.621	
9,500.00	7,359.36	7,447.01	7,334.58	41.72	28.42	-89.29	-321.46	3,125.38	964.12	908.45	55.66	17.320	
9,600.00	7,359.50	7,447.72	7,335.29	43.24	28.42	-89.38	-321.46	3,125.39	878.83	820.71	58.12	15.121	
9,700.00	7,359.64	7,448.44	7,336.01	44.77	28.42	-89.46	-321.46	3,125.39	796.97	735.91	61.06	13.052	
9,800.00	7,359.77	7,449.16	7,336.73	46.30	28.42	-89.55	-321.46	3,125.39	719.70	655.16	64.54	11.151	
9,900.00	7,359.91	7,449.89	7,337.46	47.85	28.42	-89.64	-321.46	3,125.40	648.68	580.13	68.55	9.463	
10,000.00	7,360.05	7,450.61	7,338.18	49.40	28.42	-89.72	-321.46	3,125.40	586.18	513.23	72.95	8.036	
10,100.00	7,360.18	7,451.34	7,338.91	50.96	28.43	-89.81	-321.46	3,125.41	535.18	457.87	77.30	6.923	
10,200.00	7,360.32	7,452.08	7,339.65	52.53	28.43	-89.90	-321.46	3,125.41	499.23	418.39	80.83	6.176	
10,300.00	7,360.46	7,452.81	7,340.38	54.10	28.43	-89.99	-321.46	3,125.42	481.70	399.15	82.55	5.835	
10,335.95	7,360.51	7,453.08	7,340.65	54.67	28.43	-90.02	-321.46	3,125.42	480.36	397.78	82.58	5.817	CC, ES, SF
10,400.00	7,360.59	7,453.55	7,341.12	55.68	28.43	-90.07	-321.46	3,125.42	484.61	402.79	81.82	5.923	
10,500.00	7,360.73	7,454.29	7,341.86	57.26	28.43	-90.16	-321.46	3,125.42	507.60	428.72	78.88	6.435	
10,600.00	7,360.87	7,455.04	7,342.60	58.85	28.43	-90.25	-321.46	3,125.43	548.15	473.47	74.67	7.340	
10,700.00	7,361.00	7,455.78	7,343.35	60.44	28.43	-90.34	-321.46	3,125.43	602.72	532.54	70.18	8.588	
10,800.00	7,361.14	7,456.53	7,344.10	62.04	28.43	-90.43	-321.46	3,125.44	667.89	601.88	66.01	10.118	
10,900.00	7,361.28	7,457.29	7,344.85	63.64	28.44	-90.54	-321.46	3,125.44	742.00	679.51	62.48	11.875	
11,000.00	7,361.41	7,458.04	7,345.61	65.25	28.44	-90.63	-321.46	3,125.45	822.57	762.95	59.62	13.796	
11,100.00	7,361.54	7,458.79	7,346.36	66.86	28.44	-90.73	-321.46	3,125.45	907.01	849.73	57.28	15.834	
11,200.00	7,361.68	7,459.55	7,347.12	68.48	28.44	-90.82	-321.46	3,125.46	994.35	938.97	55.38	17.956	
11,300.00	7,361.81	7,460.32	7,347.88	70.10	28.44	-90.91	-321.46	3,125.46	1,083.87	1,030.05	53.82	20.138	
11,400.00	7,361.95	7,461.08	7,348.65	71.72	28.44	-91.01	-321.46	3,125.47	1,175.09	1,122.54	52.55	22.363	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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: 86-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	
9,600.00	7,359.50	7,553.16	7,327.76	43.24	37.56	89.25	-1,772.68	3,104.74	1,183.84	1,112.11	71.73	16.504	
9,700.00	7,359.64	7,552.90	7,327.49	44.77	37.56	89.24	-1,772.68	3,104.74	1,129.48	1,055.44	74.04	15.255	
9,800.00	7,359.77	7,552.63	7,327.23	46.30	37.56	89.22	-1,772.67	3,104.74	1,081.66	1,005.30	76.36	14.166	
9,900.00	7,359.91	7,552.36	7,326.96	47.85	37.56	89.20	-1,772.67	3,104.74	1,041.27	962.70	78.57	13.253	
10,000.00	7,360.05	7,552.09	7,326.68	49.40	37.55	89.19	-1,772.66	3,104.74	1,009.21	928.65	80.56	12.528	
10,100.00	7,360.18	7,551.81	7,326.41	50.96	37.55	89.17	-1,772.66	3,104.74	986.29	904.09	82.20	11.999	
10,200.00	7,360.32	7,551.54	7,326.13	52.53	37.55	89.16	-1,772.66	3,104.74	973.15	889.75	83.40	11.669	
10,278.72	7,360.43	7,551.32	7,325.91	53.76	37.55	89.14	-1,772.65	3,104.74	969.96	885.97	83.99	11.549 CC, ES	
10,300.00	7,360.46	7,551.26	7,325.85	54.10	37.55	89.14	-1,772.65	3,104.74	970.19	886.10	84.09	11.537 SF	
10,400.00	7,360.59	7,550.97	7,325.57	55.68	37.55	89.12	-1,772.65	3,104.75	977.51	893.23	84.28	11.598	
10,500.00	7,360.73	7,550.69	7,325.28	57.26	37.55	89.11	-1,772.64	3,104.75	994.88	910.85	84.03	11.840	
10,600.00	7,360.87	7,550.40	7,325.00	58.85	37.55	89.09	-1,772.64	3,104.75	1,021.78	938.35	83.43	12.247	
10,700.00	7,361.00	7,550.11	7,324.71	60.44	37.55	89.07	-1,772.63	3,104.75	1,057.50	974.89	82.61	12.802	
10,800.00	7,361.14	7,549.82	7,324.41	62.04	37.55	89.05	-1,772.63	3,104.75	1,101.16	1,019.50	81.66	13.484	
10,900.00	7,361.28	7,549.55	7,324.14	63.64	37.55	89.05	-1,772.63	3,104.75	1,150.37	1,069.70	80.67	14.260	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - WIEDEMAN 1 - 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	
13,800.00	7,365.16	7,306.84	7,293.16	111.10	257.15	89.74	-1,150.70	7,703.39	1,151.75	858.51	293.24	3.928	
13,900.00	7,365.29	7,306.71	7,293.29	112.75	257.14	89.76	-1,150.70	7,703.39	1,056.17	760.25	295.92	3.569	
14,000.00	7,365.43	7,306.58	7,293.43	114.41	257.14	89.79	-1,150.70	7,703.39	961.49	662.28	299.21	3.213	
14,100.00	7,365.56	7,306.44	7,293.56	116.06	257.13	89.81	-1,150.70	7,703.39	868.00	564.70	303.30	2.862	
14,200.00	7,365.69	7,306.31	7,293.69	117.71	257.13	89.83	-1,150.70	7,703.39	776.14	467.70	308.44	2.516	
14,300.00	7,365.83	7,306.17	7,293.83	119.37	257.12	89.86	-1,150.70	7,703.39	686.56	371.59	314.97	2.180	
14,400.00	7,365.96	7,306.04	7,293.96	121.02	257.12	89.88	-1,150.70	7,703.39	600.27	276.95	323.32	1.857	
14,500.00	7,366.09	7,305.91	7,294.09	122.68	257.12	89.90	-1,150.70	7,703.39	518.93	184.92	334.02	1.554	
14,600.00	7,366.23	7,305.77	7,294.23	124.33	257.11	89.93	-1,150.70	7,703.39	445.26	97.81	347.45	1.282	Level 3
14,700.00	7,366.36	7,305.64	7,294.36	125.99	257.11	89.95	-1,150.70	7,703.39	383.70	20.54	363.16	1.057	Level 2
14,800.00	7,366.50	7,305.50	7,294.50	127.65	257.10	89.98	-1,150.70	7,703.39	340.87	-37.43	378.29	0.901	Level 1
14,900.00	7,366.63	7,305.37	7,294.63	129.31	257.10	90.00	-1,150.70	7,703.39	324.28	-62.60	386.88	0.838	Level 1
14,905.17	7,366.64	7,305.36	7,294.64	129.39	257.10	90.00	-1,150.70	7,703.39	324.24	-62.79	387.03	0.838	Level 1, CC, ES, SF
15,000.00	7,366.76	7,305.24	7,294.76	130.96	257.09	90.02	-1,150.70	7,703.39	337.82	-46.59	384.41	0.879	Level 1
15,100.00	7,366.90	7,305.10	7,294.90	132.62	257.09	90.05	-1,150.70	7,703.39	378.27	4.64	373.63	1.012	Level 2
15,200.00	7,367.03	7,304.97	7,295.03	134.28	257.08	90.07	-1,150.70	7,703.39	438.24	77.80	360.44	1.216	Level 2
15,300.00	7,367.16	7,304.84	7,295.16	135.94	257.08	90.09	-1,150.70	7,703.39	510.90	162.54	348.36	1.467	Level 3
15,400.00	7,367.30	7,304.70	7,295.30	137.60	257.07	90.12	-1,150.70	7,703.39	591.60	253.23	338.37	1.748	
15,500.00	7,367.43	7,304.57	7,295.43	139.26	257.07	90.14	-1,150.70	7,703.39	677.46	347.08	330.38	2.051	
15,600.00	7,367.57	7,304.43	7,295.57	140.92	257.06	90.16	-1,150.70	7,703.39	766.76	442.73	324.03	2.366	
15,700.00	7,367.70	7,304.30	7,295.70	142.58	257.06	90.19	-1,150.70	7,703.39	858.42	539.48	318.94	2.691	
15,800.00	7,367.83	7,304.17	7,295.83	144.24	257.05	90.21	-1,150.70	7,703.39	951.76	636.93	314.83	3.023	
15,900.00	7,367.97	7,304.03	7,295.97	145.90	257.05	90.24	-1,150.70	7,703.39	1,046.33	734.86	311.47	3.359	
16,000.00	7,368.10	7,303.90	7,296.10	147.56	257.04	90.26	-1,150.70	7,703.39	1,141.83	833.13	308.70	3.699	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - WIEDEMAN 28-1H6 - 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	
14,200.00	7,365.69	7,275.69	7,275.69	117.71	256.04	-89.95	166.58	7,675.95	1,195.15	838.19	356.96	3.348	
14,300.00	7,365.83	7,275.83	7,275.83	119.37	256.05	-89.96	166.58	7,675.95	1,142.49	779.97	362.51	3.152	
14,400.00	7,365.96	7,275.96	7,275.96	121.02	256.05	-89.96	166.58	7,675.95	1,096.44	728.47	367.97	2.980	
14,500.00	7,366.09	7,276.09	7,276.09	122.68	256.06	-89.97	166.58	7,675.95	1,057.87	684.76	373.11	2.835	
14,600.00	7,366.23	7,276.23	7,276.23	124.33	256.06	-89.98	166.58	7,675.95	1,027.61	649.92	377.70	2.721	
14,700.00	7,366.36	7,276.36	7,276.36	125.99	256.07	-89.99	166.58	7,675.95	1,006.43	624.95	381.47	2.638	
14,800.00	7,366.50	7,276.50	7,276.50	127.65	256.07	-89.99	166.58	7,675.95	994.88	610.68	384.21	2.589	
14,865.49	7,366.58	7,276.58	7,276.58	128.73	256.08	-90.00	166.58	7,675.95	992.73	607.38	385.35	2.576 CC, ES	
14,900.00	7,366.63	7,276.63	7,276.63	129.31	256.08	-90.00	166.58	7,675.95	993.33	607.59	385.74	2.575 SF	
15,000.00	7,366.76	7,276.76	7,276.76	130.96	256.08	-90.01	166.58	7,675.95	1,001.80	615.79	386.01	2.595	
15,100.00	7,366.90	7,276.90	7,276.90	132.62	256.09	-90.02	166.58	7,675.95	1,020.05	634.97	385.08	2.649	
15,200.00	7,367.03	7,277.03	7,277.03	134.28	256.09	-90.03	166.58	7,675.95	1,047.57	664.48	383.09	2.734	
15,300.00	7,367.16	7,277.16	7,277.16	135.94	256.10	-90.03	166.58	7,675.95	1,083.65	703.39	380.27	2.850	
15,400.00	7,367.30	7,277.30	7,277.30	137.60	256.10	-90.04	166.58	7,675.95	1,127.48	750.65	376.83	2.992	
15,500.00	7,367.43	7,277.43	7,277.43	139.26	256.11	-90.05	166.58	7,675.95	1,178.18	805.17	373.01	3.159	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - WIEDEMAN J 28-17 - 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	
13,100.00	7,364.22	7,302.22	7,302.22	99.55	256.98	-89.63	-585.51	7,030.91	1,151.63	862.47	289.16	3.983	
13,200.00	7,364.35	7,302.35	7,302.35	101.20	256.99	-89.66	-585.51	7,030.91	1,053.92	763.06	290.86	3.623	
13,300.00	7,364.49	7,302.49	7,302.49	102.85	256.99	-89.70	-585.51	7,030.91	956.69	663.73	292.96	3.266	
13,400.00	7,364.62	7,302.62	7,302.62	104.50	257.00	-89.73	-585.51	7,030.91	860.09	564.51	295.59	2.910	
13,500.00	7,364.76	7,302.76	7,302.76	106.15	257.00	-89.76	-585.51	7,030.91	764.38	465.43	298.95	2.557	
13,600.00	7,364.89	7,302.89	7,302.89	107.80	257.01	-89.79	-585.51	7,030.91	669.91	366.57	303.34	2.208	
13,700.00	7,365.02	7,303.02	7,303.02	109.45	257.01	-89.83	-585.51	7,030.91	577.31	268.12	309.19	1.867	
13,800.00	7,365.16	7,303.16	7,303.16	111.10	257.02	-89.86	-585.51	7,030.91	487.64	170.45	317.19	1.537	
13,900.00	7,365.29	7,303.29	7,303.29	112.75	257.02	-89.89	-585.51	7,030.91	402.87	74.59	328.27	1.227	Level 2
14,000.00	7,365.43	7,303.43	7,303.43	114.41	257.03	-89.93	-585.51	7,030.91	326.81	-16.60	343.41	0.952	Level 1
14,100.00	7,365.56	7,303.56	7,303.56	116.06	257.03	-89.96	-585.51	7,030.91	267.05	-94.61	361.66	0.738	Level 1
14,200.00	7,365.69	7,303.69	7,303.69	117.71	257.04	-89.99	-585.51	7,030.91	236.27	-138.62	374.89	0.630	Level 1
14,227.46	7,365.73	7,303.73	7,303.73	118.17	257.04	-90.00	-585.51	7,030.91	234.67	-141.08	375.74	0.625	Level 1, CC, ES, SF
14,300.00	7,365.83	7,303.83	7,303.83	119.37	257.04	-90.02	-585.51	7,030.91	245.62	-125.27	370.89	0.662	Level 1
14,400.00	7,365.96	7,303.96	7,303.96	121.02	257.05	-90.06	-585.51	7,030.91	291.27	-62.91	354.18	0.822	Level 1
14,500.00	7,366.09	7,304.09	7,304.09	122.68	257.05	-90.09	-585.51	7,030.91	359.64	22.44	337.21	1.067	Level 2
14,600.00	7,366.23	7,304.23	7,304.23	124.33	257.06	-90.12	-585.51	7,030.91	440.28	116.10	324.19	1.358	Level 3
14,700.00	7,366.36	7,304.36	7,304.36	125.99	257.06	-90.15	-585.51	7,030.91	527.60	212.78	314.82	1.676	
14,800.00	7,366.50	7,304.50	7,304.50	127.65	257.07	-90.19	-585.51	7,030.91	618.76	310.69	308.07	2.009	
14,900.00	7,366.63	7,304.63	7,304.63	129.31	257.07	-90.22	-585.51	7,030.91	712.30	409.17	303.13	2.350	
15,000.00	7,366.76	7,304.76	7,304.76	130.96	257.07	-90.25	-585.51	7,030.91	807.39	507.94	299.45	2.696	
15,100.00	7,366.90	7,304.90	7,304.90	132.62	257.08	-90.29	-585.51	7,030.91	903.54	606.89	296.65	3.046	
15,200.00	7,367.03	7,305.03	7,305.03	134.28	257.08	-90.32	-585.51	7,030.91	1,000.45	705.96	294.49	3.397	
15,300.00	7,367.16	7,305.16	7,305.16	135.94	257.09	-90.35	-585.51	7,030.91	1,097.91	805.11	292.80	3.750	
15,400.00	7,367.30	7,305.30	7,305.30	137.60	257.09	-90.38	-585.51	7,030.91	1,195.79	904.33	291.46	4.103	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - WIEDEMAN J 28-18D - Noble SI Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 474-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	
11,800.00	7,362.48	7,542.27	7,334.31	78.23	37.48	-93.37	-480.62	5,758.50	1,199.94	1,141.20	58.74	20.427	
11,900.00	7,362.61	7,540.45	7,332.50	79.86	37.48	-93.05	-480.64	5,758.53	1,104.09	1,043.30	60.79	18.163	
12,000.00	7,362.75	7,538.63	7,330.68	81.50	37.47	-92.73	-480.66	5,758.57	1,009.05	945.77	63.28	15.946	
12,100.00	7,362.88	7,536.80	7,328.85	83.13	37.47	-92.42	-480.68	5,758.61	915.06	848.71	66.35	13.792	
12,200.00	7,363.02	7,534.96	7,327.01	84.77	37.47	-92.09	-480.70	5,758.65	822.48	752.31	70.17	11.721	
12,300.00	7,363.15	7,533.12	7,325.16	86.41	37.47	-91.77	-480.72	5,758.69	731.85	656.85	75.00	9.758	
12,400.00	7,363.28	7,531.26	7,323.31	88.05	37.46	-91.45	-480.73	5,758.73	644.00	562.83	81.17	7.934	
12,500.00	7,363.42	7,529.40	7,321.45	89.69	37.46	-91.12	-480.75	5,758.77	560.23	471.14	89.08	6.289	
12,600.00	7,363.55	7,527.53	7,319.58	91.33	37.46	-90.80	-480.77	5,758.81	482.67	383.54	99.13	4.869	
12,700.00	7,363.69	7,525.65	7,317.70	92.97	37.45	-90.47	-480.78	5,758.85	414.82	303.52	111.29	3.727	
12,800.00	7,363.82	7,523.77	7,315.82	94.61	37.45	-90.14	-480.79	5,758.89	362.18	238.05	124.13	2.918	
12,900.00	7,363.95	7,521.88	7,313.93	96.26	37.45	-89.81	-480.81	5,758.93	332.06	198.61	133.45	2.488	
12,954.59	7,364.03	7,520.84	7,312.89	97.16	37.45	-89.63	-480.82	5,758.95	327.54	192.51	135.03	2.426	CC, ES, SF
13,000.00	7,364.09	7,519.98	7,312.02	97.90	37.45	-89.48	-480.82	5,758.97	330.67	196.68	134.00	2.468	
13,100.00	7,364.22	7,518.07	7,310.12	99.55	37.44	-89.14	-480.83	5,759.01	358.36	232.86	125.50	2.855	
13,200.00	7,364.35	7,516.15	7,308.20	101.20	37.44	-88.81	-480.84	5,759.06	409.25	296.19	113.06	3.620	
13,300.00	7,364.49	7,514.22	7,306.27	102.85	37.44	-88.47	-480.86	5,759.10	475.97	374.88	101.08	4.709	
13,400.00	7,364.62	7,512.29	7,304.34	104.50	37.43	-88.13	-480.87	5,759.14	552.81	461.62	91.19	6.062	
13,500.00	7,364.76	7,510.35	7,302.40	106.15	37.43	-87.79	-480.87	5,759.18	636.11	552.67	83.45	7.623	
13,600.00	7,364.89	7,508.40	7,300.45	107.80	37.43	-87.45	-480.88	5,759.23	723.65	646.20	77.46	9.343	
13,700.00	7,365.02	7,506.44	7,298.49	109.45	37.42	-87.11	-480.89	5,759.27	814.07	741.25	72.81	11.180	
13,800.00	7,365.16	7,504.47	7,296.53	111.10	37.42	-86.77	-480.90	5,759.31	906.49	837.31	69.17	13.104	
13,900.00	7,365.29	7,502.50	7,294.55	112.75	37.42	-86.42	-480.90	5,759.36	1,000.37	934.07	66.29	15.090	
14,000.00	7,365.43	7,500.51	7,292.57	114.41	37.41	-86.08	-480.91	5,759.40	1,095.32	1,031.34	63.99	17.118	
14,100.00	7,365.56	7,498.52	7,290.57	116.06	37.41	-85.73	-480.91	5,759.44	1,191.10	1,128.98	62.12	19.174	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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, 474-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	
12,500.00	7,363.42	7,590.70	7,320.90	89.69	41.31	90.34	-1,762.44	5,959.92	1,162.83	1,048.89	113.93	10.206	
12,600.00	7,363.55	7,590.83	7,321.02	91.33	41.31	90.34	-1,762.44	5,959.92	1,108.46	990.02	118.43	9.360	
12,700.00	7,363.69	7,590.95	7,321.14	92.97	41.31	90.35	-1,762.44	5,959.92	1,060.74	937.96	122.79	8.639	
12,800.00	7,363.82	7,591.07	7,321.26	94.61	41.31	90.36	-1,762.43	5,959.92	1,020.63	893.82	126.80	8.049	
12,900.00	7,363.95	7,591.19	7,321.38	96.26	41.31	90.37	-1,762.43	5,959.92	989.03	858.78	130.25	7.593	
13,000.00	7,364.09	7,591.31	7,321.50	97.90	41.31	90.37	-1,762.43	5,959.92	966.80	833.90	132.90	7.275	
13,100.00	7,364.22	7,591.43	7,321.62	99.55	41.31	90.38	-1,762.43	5,959.92	954.57	820.01	134.56	7.094	
13,167.47	7,364.31	7,591.51	7,321.70	100.66	41.31	90.38	-1,762.43	5,959.92	952.18	817.12	135.06	7.050	CC, ES, SF
13,200.00	7,364.35	7,591.54	7,321.74	101.20	41.31	90.39	-1,762.43	5,959.92	952.73	817.61	135.13	7.051	
13,300.00	7,364.49	7,591.66	7,321.86	102.85	41.31	90.39	-1,762.43	5,959.92	961.36	826.74	134.61	7.142	
13,400.00	7,364.62	7,591.78	7,321.98	104.50	41.31	90.40	-1,762.43	5,959.92	980.16	847.02	133.14	7.362	
13,500.00	7,364.76	7,591.90	7,322.09	106.15	41.31	90.41	-1,762.43	5,959.92	1,008.57	877.66	130.92	7.704	
13,600.00	7,364.89	7,592.01	7,322.21	107.80	41.31	90.42	-1,762.43	5,959.92	1,045.81	917.64	128.17	8.159	
13,700.00	7,365.02	7,592.13	7,322.33	109.45	41.31	90.42	-1,762.43	5,959.92	1,090.98	965.84	125.14	8.718	
13,800.00	7,365.16	7,592.25	7,322.44	111.10	41.31	90.43	-1,762.43	5,959.92	1,143.12	1,021.13	121.99	9.371	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - WIEDEMAN J 28-22D - Noble SI Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 474-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	
13,400.00	7,364.62	7,445.47	7,318.91	104.50	31.08	90.15	-1,654.34	7,041.44	1,189.36	1,088.41	100.95	11.782	
13,500.00	7,364.76	7,447.71	7,321.14	106.15	31.08	90.30	-1,654.29	7,041.49	1,120.27	1,014.19	106.07	10.561	
13,600.00	7,364.89	7,449.95	7,323.38	107.80	31.08	90.46	-1,654.23	7,041.53	1,056.12	944.58	111.54	9.469	
13,700.00	7,365.02	7,452.19	7,325.63	109.45	31.09	90.61	-1,654.17	7,041.58	997.89	880.64	117.25	8.511	
13,800.00	7,365.16	7,454.44	7,327.87	111.10	31.09	90.76	-1,654.12	7,041.63	946.66	823.61	123.05	7.693	
13,900.00	7,365.29	7,456.69	7,330.11	112.75	31.09	90.92	-1,654.06	7,041.68	903.62	774.91	128.71	7.021	
14,000.00	7,365.43	7,458.94	7,332.36	114.41	31.09	91.07	-1,654.00	7,041.73	869.99	736.06	133.93	6.496	
14,100.00	7,365.56	7,461.19	7,334.61	116.06	31.10	91.23	-1,653.95	7,041.78	846.90	708.52	138.38	6.120	
14,200.00	7,365.69	7,463.44	7,336.86	117.71	31.10	91.38	-1,653.89	7,041.82	835.21	693.47	141.73	5.893	
14,248.36	7,365.76	7,464.53	7,337.95	118.51	31.10	91.46	-1,653.86	7,041.85	833.81	690.92	142.89	5.835 CC, ES	
14,300.00	7,365.83	7,465.69	7,339.12	119.37	31.10	91.54	-1,653.83	7,041.87	835.40	691.64	143.76	5.811 SF	
14,400.00	7,365.96	7,467.95	7,341.37	121.02	31.10	91.69	-1,653.78	7,041.92	847.47	703.09	144.38	5.870	
14,500.00	7,366.09	7,470.21	7,343.63	122.68	31.10	91.85	-1,653.72	7,041.97	870.93	727.26	143.67	6.062	
14,600.00	7,366.23	7,472.47	7,345.89	124.33	31.11	92.00	-1,653.66	7,042.02	904.88	763.06	141.83	6.380	
14,700.00	7,366.36	7,474.74	7,348.15	125.99	31.11	92.16	-1,653.61	7,042.07	948.21	809.08	139.13	6.815	
14,800.00	7,366.50	7,477.00	7,350.42	127.65	31.11	92.31	-1,653.55	7,042.12	999.69	863.81	135.87	7.357	
14,900.00	7,366.63	7,479.27	7,352.69	129.31	31.11	92.47	-1,653.49	7,042.16	1,058.13	925.82	132.31	7.997	
15,000.00	7,366.76	7,481.54	7,354.95	130.96	31.12	92.63	-1,653.44	7,042.21	1,122.45	993.81	128.64	8.726	
15,100.00	7,366.90	7,483.81	7,357.22	132.62	31.12	92.78	-1,653.38	7,042.26	1,191.70	1,066.70	125.00	9.534	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - WIEDEMAN-PM J28-2 - 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	
12,800.00	7,363.82	7,305.82	7,305.82	94.61	257.11	-89.93	26.32	6,372.38	1,135.24	804.01	331.23	3.427	
12,900.00	7,363.95	7,305.95	7,305.95	96.26	257.12	-89.94	26.32	6,372.38	1,070.57	734.26	336.31	3.183	
13,000.00	7,364.09	7,306.09	7,306.09	97.90	257.12	-89.95	26.32	6,372.38	1,011.67	670.06	341.61	2.961	
13,100.00	7,364.22	7,306.22	7,306.22	99.55	257.13	-89.96	26.32	6,372.38	959.59	612.60	346.99	2.765	
13,200.00	7,364.35	7,306.35	7,306.35	101.20	257.13	-89.97	26.32	6,372.38	915.51	563.30	352.21	2.599	
13,300.00	7,364.49	7,306.49	7,306.49	102.85	257.14	-89.98	26.32	6,372.38	880.63	523.65	356.98	2.467	
13,400.00	7,364.62	7,306.62	7,306.62	104.50	257.14	-89.99	26.32	6,372.38	856.07	495.12	360.94	2.372	
13,500.00	7,364.76	7,306.76	7,306.76	106.15	257.15	-89.99	26.32	6,372.38	842.73	478.96	363.78	2.317	
13,563.27	7,364.84	7,306.84	7,306.84	107.19	257.15	-90.00	26.32	6,372.38	840.35	475.48	364.87	2.303 CC, ES	
13,600.00	7,364.89	7,306.89	7,306.89	107.80	257.15	-90.00	26.32	6,372.38	841.16	475.91	365.24	2.303 SF	
13,700.00	7,365.02	7,307.02	7,307.02	109.45	257.15	-90.01	26.32	6,372.38	851.40	486.14	365.27	2.331	
13,800.00	7,365.16	7,307.16	7,307.16	111.10	257.16	-90.02	26.32	6,372.38	873.06	509.11	363.95	2.399	
13,900.00	7,365.29	7,307.29	7,307.29	112.75	257.16	-90.03	26.32	6,372.38	905.31	543.78	361.52	2.504	
14,000.00	7,365.43	7,307.43	7,307.43	114.41	257.17	-90.04	26.32	6,372.38	947.06	588.76	358.30	2.643	
14,100.00	7,365.56	7,307.56	7,307.56	116.06	257.17	-90.05	26.32	6,372.38	997.13	642.54	354.59	2.812	
14,200.00	7,365.69	7,307.69	7,307.69	117.71	257.18	-90.06	26.32	6,372.38	1,054.33	703.68	350.66	3.007	
14,300.00	7,365.83	7,307.83	7,307.83	119.37	257.18	-90.07	26.32	6,372.38	1,117.57	770.88	346.69	3.224	
14,400.00	7,365.96	7,307.96	7,307.96	121.02	257.19	-90.08	26.32	6,372.38	1,185.88	843.05	342.83	3.459	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-28 Offsets - WIEDEMAN-PM J28-7 - 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							
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
12,300.00	7,363.15	7,310.15	7,310.15	86.41	257.27	89.62	-1,047.65	6,257.58	1,181.99	899.28	282.72	4.181	
12,400.00	7,363.28	7,310.28	7,310.28	88.05	257.27	89.65	-1,047.65	6,257.58	1,084.16	800.30	283.86	3.819	
12,500.00	7,363.42	7,310.42	7,310.42	89.69	257.27	89.69	-1,047.65	6,257.58	986.77	701.45	285.32	3.459	
12,600.00	7,363.55	7,310.55	7,310.55	91.33	257.28	89.72	-1,047.65	6,257.58	889.96	602.75	287.20	3.099	
12,700.00	7,363.69	7,310.69	7,310.69	92.97	257.28	89.75	-1,047.65	6,257.58	793.93	504.25	289.68	2.741	
12,800.00	7,363.82	7,310.82	7,310.82	94.61	257.29	89.78	-1,047.65	6,257.58	699.02	406.02	293.01	2.386	
12,900.00	7,363.95	7,310.95	7,310.95	96.26	257.29	89.82	-1,047.65	6,257.58	605.76	308.21	297.54	2.036	
13,000.00	7,364.09	7,311.09	7,311.09	97.90	257.30	89.85	-1,047.65	6,257.58	515.02	211.16	303.87	1.695	
13,100.00	7,364.22	7,311.22	7,311.22	99.55	257.30	89.88	-1,047.65	6,257.58	428.43	115.61	312.82	1.370	Level 3
13,200.00	7,364.35	7,311.35	7,311.35	101.20	257.31	89.92	-1,047.65	6,257.58	349.09	23.59	325.49	1.072	Level 2
13,300.00	7,364.49	7,311.49	7,311.49	102.85	257.31	89.95	-1,047.65	6,257.58	283.14	-59.07	342.21	0.827	Level 1
13,400.00	7,364.62	7,311.62	7,311.62	104.50	257.32	89.98	-1,047.65	6,257.58	241.81	-116.81	358.62	0.674	Level 1
13,458.47	7,364.70	7,311.70	7,311.70	105.46	257.32	90.00	-1,047.65	6,257.58	234.64	-128.68	363.31	0.646	Level 1, CC, ES, SF
13,500.00	7,364.76	7,311.76	7,311.76	106.15	257.32	90.01	-1,047.65	6,257.58	238.29	-124.72	363.00	0.656	Level 1
13,600.00	7,364.89	7,311.89	7,311.89	107.80	257.33	90.05	-1,047.65	6,257.58	274.02	-78.50	352.52	0.777	Level 1
13,700.00	7,365.02	7,312.02	7,312.02	109.45	257.33	90.08	-1,047.65	6,257.58	336.74	-1.31	338.05	0.996	Level 1
13,800.00	7,365.16	7,312.16	7,312.16	111.10	257.34	90.11	-1,047.65	6,257.58	414.37	88.37	326.00	1.271	Level 3
13,900.00	7,365.29	7,312.29	7,312.29	112.75	257.34	90.14	-1,047.65	6,257.58	500.00	182.91	317.09	1.577	
14,000.00	7,365.43	7,312.43	7,312.43	114.41	257.35	90.18	-1,047.65	6,257.58	590.18	279.56	310.62	1.900	
14,100.00	7,365.56	7,312.56	7,312.56	116.06	257.35	90.21	-1,047.65	6,257.58	683.09	377.25	305.84	2.233	
14,200.00	7,365.69	7,312.69	7,312.69	117.71	257.36	90.24	-1,047.65	6,257.58	777.77	475.51	302.26	2.573	
14,300.00	7,365.83	7,312.83	7,312.83	119.37	257.36	90.27	-1,047.65	6,257.58	873.63	574.13	299.50	2.917	
14,400.00	7,365.96	7,312.96	7,312.96	121.02	257.36	90.31	-1,047.65	6,257.58	970.33	672.97	297.35	3.263	
14,500.00	7,366.09	7,313.09	7,313.09	122.68	257.37	90.34	-1,047.65	6,257.58	1,067.63	771.98	295.65	3.611	
14,600.00	7,366.23	7,313.23	7,313.23	124.33	257.37	90.37	-1,047.65	6,257.58	1,165.40	871.12	294.28	3.960	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 29-17D - 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						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	
8,000.00	7,357.31	7,444.74	7,342.70	21.89	30.29	-88.26	-695.84	1,917.63	1,127.41	1,078.63	48.78	23.112	
8,100.00	7,357.45	7,445.13	7,343.08	22.89	30.29	-88.42	-695.84	1,917.63	1,028.22	979.24	48.98	20.994	
8,200.00	7,357.58	7,445.52	7,343.47	23.96	30.29	-88.59	-695.84	1,917.63	929.20	879.98	49.22	18.879	
8,300.00	7,357.72	7,445.91	7,343.86	25.11	30.29	-88.75	-695.84	1,917.63	830.42	780.89	49.52	16.768	
8,400.00	7,357.86	7,446.31	7,344.26	26.31	30.29	-88.92	-695.84	1,917.63	731.96	682.04	49.92	14.663	
8,500.00	7,357.99	7,446.71	7,344.66	27.56	30.29	-89.09	-695.84	1,917.63	633.99	583.55	50.45	12.567	
8,600.00	7,358.13	7,447.11	7,345.07	28.86	30.29	-89.26	-695.85	1,917.63	536.77	485.58	51.19	10.486	
8,700.00	7,358.27	7,447.53	7,345.48	30.19	30.29	-89.43	-695.85	1,917.64	440.79	388.50	52.29	8.429	
8,800.00	7,358.40	7,447.95	7,345.90	31.55	30.29	-89.61	-695.85	1,917.64	347.10	293.05	54.04	6.423	
8,900.00	7,358.54	7,448.37	7,346.32	32.95	30.29	-89.78	-695.85	1,917.64	258.17	201.17	56.99	4.530	
9,000.00	7,358.68	7,448.80	7,346.75	34.36	30.30	-89.96	-695.85	1,917.64	181.18	119.44	61.73	2.935	
9,100.00	7,358.81	7,449.23	7,347.19	35.80	30.30	-90.15	-695.85	1,917.64	137.84	73.65	64.19	2.147 SF	
9,119.13	7,358.84	7,449.32	7,347.27	36.08	30.30	-90.18	-695.85	1,917.64	136.51	73.18	63.32	2.156 CC, ES	
9,200.00	7,358.95	7,449.67	7,347.63	37.26	30.30	-90.33	-695.85	1,917.64	158.66	102.33	56.33	2.816	
9,300.00	7,359.09	7,450.12	7,348.07	38.73	30.30	-90.52	-695.85	1,917.64	226.60	176.38	50.22	4.512	
9,400.00	7,359.23	7,450.57	7,348.53	40.22	30.30	-90.71	-695.86	1,917.65	312.28	264.36	47.92	6.516	
9,500.00	7,359.36	7,451.03	7,348.98	41.72	30.30	-90.90	-695.86	1,917.65	404.59	357.47	47.12	8.586	
9,600.00	7,359.50	7,451.49	7,349.45	43.24	30.30	-91.09	-695.86	1,917.65	499.87	453.00	46.87	10.665	
9,700.00	7,359.64	7,451.96	7,349.92	44.77	30.30	-91.29	-695.86	1,917.65	596.69	549.86	46.83	12.742	
9,800.00	7,359.77	7,452.44	7,350.39	46.30	30.30	-91.49	-695.86	1,917.65	694.41	647.54	46.88	14.814	
9,900.00	7,359.91	7,452.92	7,350.88	47.85	30.30	-91.69	-695.86	1,917.65	792.70	745.75	46.96	16.880	
10,000.00	7,360.05	7,453.41	7,351.37	49.40	30.30	-91.90	-695.86	1,917.65	891.38	844.32	47.06	18.941	
10,100.00	7,360.18	7,453.91	7,351.86	50.96	30.30	-92.11	-695.87	1,917.66	990.31	943.15	47.17	20.996	
10,200.00	7,360.32	7,454.41	7,352.37	52.53	30.30	-92.32	-695.87	1,917.66	1,089.45	1,042.17	47.28	23.044	
10,300.00	7,360.46	7,454.92	7,352.88	54.10	30.30	-92.53	-695.87	1,917.66	1,188.72	1,141.34	47.38	25.087	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	92.17	-44.05	1,163.48	1,164.38					
100.00	100.00	88.00	88.00	3.28	3.55	92.17	-44.05	1,163.48	1,164.31	1,156.69	7.62	152.723		
200.00	200.00	188.00	188.00	3.31	5.70	92.17	-44.05	1,163.48	1,164.31	1,154.52	9.79	118.869		
300.00	299.98	287.98	287.98	3.34	8.83	-92.22	-44.05	1,163.48	1,164.38	1,151.41	12.97	89.779		
400.00	399.84	387.84	387.84	3.40	12.19	-92.47	-44.05	1,163.48	1,164.59	1,148.21	16.38	71.088		
500.00	499.45	487.40	487.40	3.49	14.97	-92.89	-44.03	1,163.48	1,165.00	1,145.76	19.25	60.534		
600.00	598.74	586.87	586.87	3.60	16.12	-93.47	-43.78	1,163.49	1,165.68	1,145.16	20.51	56.821		
700.00	697.94	687.13	687.13	3.74	16.13	-94.09	-43.86	1,163.44	1,166.46	1,145.80	20.66	56.453		
800.00	797.15	785.66	785.66	3.91	16.14	-94.69	-44.10	1,163.37	1,167.36	1,146.51	20.84	56.012		
900.00	896.35	884.70	884.70	4.10	16.15	-95.29	-44.16	1,163.35	1,168.44	1,147.39	21.04	55.524		
1,000.00	995.55	985.29	985.28	4.31	16.17	-95.89	-44.47	1,163.27	1,169.59	1,148.31	21.27	54.984		
1,100.00	1,094.76	1,085.66	1,085.65	4.53	16.20	-96.48	-45.10	1,163.08	1,170.75	1,149.23	21.52	54.407		
1,200.00	1,193.96	1,185.80	1,185.80	4.77	16.22	-97.06	-45.75	1,162.82	1,171.95	1,150.17	21.78	53.803		
1,300.00	1,293.17	1,285.62	1,285.61	5.02	16.25	-97.63	-46.49	1,162.51	1,173.22	1,151.16	22.06	53.174		
1,400.00	1,392.37	1,386.45	1,386.43	5.28	16.29	-98.20	-47.55	1,162.16	1,174.55	1,152.20	22.36	52.534		
1,500.00	1,491.58	1,493.23	1,493.21	5.55	16.33	-98.79	-48.77	1,161.35	1,175.58	1,152.91	22.67	51.859		
1,600.00	1,590.78	1,627.19	1,627.11	5.83	16.39	-99.51	-50.87	1,158.52	1,175.47	1,152.48	22.99	51.132		
1,700.00	1,689.99	1,779.35	1,778.81	6.12	16.48	-100.15	-57.64	1,149.15	1,170.95	1,147.66	23.30	50.259		
1,800.00	1,789.19	1,933.01	1,931.30	6.41	16.59	-100.65	-68.12	1,133.47	1,162.39	1,138.81	23.58	49.295		
1,900.00	1,888.40	2,080.49	2,076.53	6.56	16.72	-101.00	-81.80	1,111.94	1,149.09	1,125.59	23.51	48.882		
2,000.00	1,987.60	2,244.88	2,236.61	6.59	16.94	-101.15	-102.52	1,081.02	1,131.44	1,107.98	23.46	48.230		
2,100.00	2,086.81	2,350.62	2,338.41	6.64	17.13	-101.12	-118.73	1,057.42	1,109.79	1,086.20	23.59	47.041		
2,200.00	2,186.01	2,433.90	2,418.33	6.70	17.28	-100.95	-134.07	1,039.74	1,088.87	1,065.05	23.81	45.722		
2,300.00	2,285.22	2,544.91	2,524.94	6.77	17.51	-100.69	-155.05	1,017.04	1,068.77	1,044.79	23.98	44.561		
2,400.00	2,384.42	2,645.60	2,621.26	6.86	17.75	-100.45	-174.04	994.68	1,046.85	1,022.63	24.21	43.232		
2,500.00	2,483.63	2,793.22	2,761.66	6.96	18.17	-100.17	-200.53	957.67	1,021.88	997.55	24.33	42.003		
2,600.00	2,582.83	2,886.63	2,850.00	7.08	18.48	-99.97	-217.67	932.61	995.44	970.80	24.64	40.403		
2,700.00	2,682.04	2,961.11	2,920.73	7.21	18.71	-99.82	-230.89	913.42	970.20	945.18	25.02	38.777		
2,800.00	2,781.24	3,039.72	2,995.92	7.34	18.96	-99.66	-244.81	895.19	947.42	922.01	25.41	37.291		
2,900.00	2,880.45	3,145.80	3,097.03	7.50	19.35	-99.23	-266.50	871.57	925.39	899.63	25.76	35.918		
3,000.00	2,979.65	3,246.19	3,192.60	7.66	19.73	-98.88	-286.05	847.88	902.13	875.98	26.16	34.490		
3,100.00	3,078.86	3,341.65	3,284.02	7.83	20.08	-98.74	-301.58	825.17	879.00	852.46	26.55	33.110		
3,200.00	3,178.06	3,416.05	3,355.63	8.01	20.35	-98.67	-312.90	808.51	857.34	830.33	27.00	31.747		
3,300.00	3,277.27	3,496.32	3,433.35	8.20	20.64	-98.61	-324.82	792.34	837.97	810.52	27.45	30.530		
3,400.00	3,376.47	3,593.81	3,528.02	8.39	20.99	-98.55	-338.90	773.83	819.81	791.94	27.87	29.418		
3,500.00	3,475.68	3,663.21	3,595.74	8.60	21.22	-98.57	-348.03	761.76	803.32	774.98	28.33	28.352		
3,600.00	3,574.88	3,749.00	3,680.04	8.81	21.49	-98.70	-357.83	749.18	789.66	760.91	28.76	27.460		
3,700.00	3,674.09	3,923.82	3,850.28	9.02	22.15	-98.76	-380.89	717.30	772.74	743.70	29.05	26.604		
3,800.00	3,773.29	4,033.11	3,954.83	9.25	22.68	-98.60	-398.24	690.62	748.99	719.47	29.51	25.379		
3,900.00	3,872.50	4,133.92	4,050.81	9.48	23.19	-98.32	-415.79	665.24	724.38	694.34	30.04	24.117		
4,000.00	3,971.70	4,223.29	4,135.98	9.71	23.64	-98.07	-431.07	642.92	700.03	669.43	30.60	22.876		
4,100.00	4,070.91	4,303.20	4,212.77	9.95	24.00	-98.00	-442.78	624.20	677.44	646.27	31.17	21.732		
4,200.00	4,170.11	4,382.03	4,289.41	10.19	24.34	-98.15	-451.84	608.12	657.99	626.28	31.71	20.751		
4,300.00	4,269.32	4,474.62	4,379.60	10.44	24.72	-98.30	-462.67	590.19	639.65	607.45	32.20	19.864		
4,400.00	4,368.52	4,551.55	4,455.03	10.69	25.01	-98.55	-470.35	577.21	623.91	591.20	32.71	19.074		
4,500.00	4,467.73	4,630.53	4,533.00	10.95	25.26	-98.95	-476.67	566.37	611.49	578.33	33.16	18.441		
4,600.00	4,566.93	4,710.15	4,611.97	11.21	25.48	-99.41	-482.44	558.03	602.41	568.83	33.57	17.944		
4,700.00	4,666.14	4,799.17	4,700.54	11.47	25.70	-100.05	-487.57	550.77	595.85	561.90	33.95	17.552		
4,800.00	4,765.34	4,889.94	4,791.01	11.73	25.89	-100.80	-491.65	544.75	591.02	556.72	34.30	17.231		
4,900.00	4,864.55	4,980.86	4,881.69	12.00	26.08	-101.50	-496.28	539.99	587.66	553.00	34.66	16.955		
5,000.00	4,963.75	5,069.87	4,970.54	12.27	26.25	-102.16	-500.96	537.17	586.38	551.37	35.01	16.747		
5,100.00	5,062.96	5,167.11	5,067.64	12.54	26.41	-102.95	-505.27	534.61	585.88	550.51	35.37	16.565		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
5,101.71	5,064.65	5,168.66	5,069.19	12.54	26.42	-102.96	-505.31	534.57	585.88	550.51	35.37	16.563	
5,200.00	5,162.16	5,256.91	5,157.42	12.81	26.54	-104.01	-505.68	532.78	586.74	551.09	35.65	16.458	
5,300.00	5,261.37	5,349.37	5,249.87	13.09	26.65	-105.20	-504.78	532.15	589.43	553.51	35.92	16.409	
5,400.00	5,360.57	5,445.73	5,346.23	13.37	26.75	-106.42	-503.88	532.12	593.04	556.83	36.21	16.379	
5,500.00	5,459.78	5,545.01	5,445.51	13.65	26.87	-107.62	-503.24	532.44	597.22	560.70	36.52	16.353	
5,600.00	5,558.98	5,645.70	5,546.19	13.93	26.99	-108.77	-503.21	532.70	601.44	564.59	36.85	16.321	
5,700.00	5,658.18	5,734.18	5,634.67	14.21	27.08	-109.73	-503.36	533.67	606.64	569.49	37.15	16.330	
5,800.00	5,757.39	5,824.57	5,725.02	14.50	27.17	-110.68	-503.31	536.28	613.80	576.34	37.45	16.388	
5,900.00	5,856.59	5,946.68	5,847.10	14.79	27.32	-111.88	-504.07	538.38	619.86	581.96	37.91	16.352	
6,000.00	5,955.80	6,051.63	5,952.03	15.07	27.47	-112.89	-505.74	537.49	623.36	585.06	38.30	16.277	
6,100.00	6,055.00	6,147.92	6,048.31	15.36	27.61	-113.82	-507.04	536.84	627.29	588.63	38.66	16.224	
6,200.00	6,154.21	6,244.88	6,145.27	15.65	27.75	-114.73	-508.27	536.61	631.84	592.80	39.04	16.185	
6,300.00	6,253.41	6,342.21	6,242.59	15.94	27.89	-115.60	-509.79	536.86	636.91	597.49	39.42	16.157	
6,400.00	6,352.62	6,440.95	6,341.31	16.24	28.03	-116.48	-511.14	537.25	642.32	602.51	39.81	16.134	
6,500.00	6,451.82	6,539.49	6,439.85	16.53	28.17	-117.38	-512.05	537.56	648.00	607.79	40.20	16.118	
6,600.00	6,551.03	6,637.88	6,538.24	16.83	28.31	-118.26	-512.88	537.99	653.97	613.37	40.60	16.109	
6,700.00	6,650.23	6,736.47	6,636.82	17.12	28.45	-119.12	-513.75	538.58	660.22	619.22	41.00	16.103	
6,800.00	6,749.44	6,835.17	6,735.51	17.41	28.59	-97.45	-514.65	539.29	665.97	624.57	41.40	16.088	
6,900.00	6,847.87	6,934.33	6,834.67	17.64	28.73	-58.79	-515.49	539.97	660.95	619.22	41.73	15.838	
7,000.00	6,943.29	7,030.51	6,930.84	17.88	28.87	-48.54	-516.10	540.43	642.37	600.33	42.04	15.279	
7,100.00	7,033.35	7,119.16	7,019.49	18.10	29.00	-47.10	-516.48	540.88	611.62	569.30	42.32	14.453	
7,200.00	7,115.82	7,201.14	7,101.46	18.32	29.12	-50.10	-516.70	541.40	570.61	528.02	42.59	13.398	
7,300.00	7,188.68	7,274.67	7,174.99	18.52	29.23	-56.49	-516.91	541.91	521.93	479.03	42.90	12.166	
7,400.00	7,250.14	7,336.89	7,237.21	18.71	29.32	-65.47	-517.14	542.36	469.36	426.03	43.33	10.832	
7,500.00	7,298.67	7,385.78	7,286.10	18.92	29.39	-75.44	-517.35	542.75	418.38	374.34	44.04	9.501	
7,600.00	7,333.08	7,420.71	7,321.03	19.20	29.44	-84.06	-517.49	543.07	376.44	331.24	45.20	8.329	
7,700.00	7,352.53	7,441.01	7,341.33	19.62	29.47	-89.27	-517.56	543.27	352.30	305.51	46.80	7.528	
7,747.11	7,356.80	7,445.74	7,346.06	19.89	29.47	-90.21	-517.58	543.32	349.33	301.75	47.57	7.343 CC, ES	
7,800.00	7,357.04	7,446.54	7,346.85	20.23	29.48	-90.31	-517.58	543.33	352.94	304.63	48.30	7.307 SF	
7,900.00	7,357.17	7,447.73	7,348.04	21.00	29.48	-90.50	-517.58	543.34	380.28	331.12	49.16	7.736	
8,000.00	7,357.31	7,448.92	7,349.24	21.89	29.48	-90.70	-517.59	543.36	429.72	380.39	49.33	8.711	
8,100.00	7,357.45	7,450.13	7,350.45	22.89	29.48	-90.90	-517.59	543.37	494.68	445.54	49.13	10.068	
8,200.00	7,357.58	7,451.35	7,351.66	23.96	29.48	-91.10	-517.59	543.38	569.87	521.06	48.80	11.677	
8,300.00	7,357.72	7,452.57	7,352.89	25.11	29.48	-91.30	-517.60	543.39	651.75	603.29	48.47	13.447	
8,400.00	7,357.86	7,453.80	7,354.12	26.31	29.49	-91.50	-517.60	543.41	738.12	689.95	48.17	15.323	
8,500.00	7,357.99	7,455.04	7,355.36	27.56	29.49	-91.70	-517.61	543.42	827.56	779.64	47.92	17.270	
8,600.00	7,358.13	7,456.29	7,356.60	28.86	29.49	-91.91	-517.61	543.43	919.17	871.46	47.71	19.266	
8,700.00	7,358.27	7,457.54	7,357.86	30.19	29.49	-92.11	-517.62	543.45	1,012.38	964.84	47.54	21.295	
8,800.00	7,358.40	7,458.81	7,359.13	31.55	29.49	-92.32	-517.62	543.46	1,106.77	1,059.36	47.40	23.348	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	92.04	-42.24	1,187.72	1,188.53				
100.00	100.00	88.00	88.00	3.28	3.55	92.04	-42.24	1,187.72	1,188.47	1,180.85	7.62	155.891	
200.00	200.00	188.00	188.00	3.31	5.70	92.04	-42.24	1,187.72	1,188.47	1,178.68	9.79	121.335	
300.00	299.98	287.98	287.98	3.34	8.83	-92.35	-42.24	1,187.72	1,188.54	1,175.57	12.97	91.642	
400.00	399.84	387.84	387.84	3.40	12.19	-92.59	-42.24	1,187.72	1,188.77	1,172.38	16.38	72.564	
500.00	499.45	487.45	487.45	3.49	15.62	-93.00	-42.24	1,187.72	1,189.19	1,169.30	19.89	59.776	
600.00	598.74	586.74	586.74	3.60	19.07	-93.56	-42.24	1,187.72	1,189.88	1,166.42	23.46	50.715	
700.00	697.94	685.94	685.94	3.74	22.54	-94.16	-42.24	1,187.72	1,190.74	1,163.66	27.08	43.978	
800.00	797.15	785.15	785.15	3.91	26.03	-94.76	-42.24	1,187.72	1,191.72	1,161.00	30.73	38.785	
900.00	896.35	884.35	884.35	4.10	29.52	-95.36	-42.24	1,187.72	1,192.84	1,158.44	34.41	34.670	
1,000.00	995.55	983.55	983.55	4.31	33.01	-95.96	-42.24	1,187.72	1,194.09	1,155.98	38.11	31.333	
1,100.00	1,094.76	1,082.76	1,082.76	4.53	36.51	-96.55	-42.24	1,187.72	1,195.47	1,153.64	41.83	28.578	
1,200.00	1,193.96	1,181.96	1,181.96	4.77	40.01	-97.15	-42.24	1,187.72	1,196.99	1,151.42	45.57	26.266	
1,300.00	1,293.17	1,281.17	1,281.17	5.02	43.52	-97.74	-42.24	1,187.72	1,198.63	1,149.30	49.33	24.300	
7,600.00	7,333.08	7,321.08	7,321.08	19.20	257.42	-75.88	-42.24	1,187.72	1,137.72	860.66	277.06	4.106	
7,700.00	7,352.53	7,340.53	7,340.53	19.62	258.11	-84.30	-42.24	1,187.72	1,072.61	794.33	278.28	3.854	
7,800.00	7,357.04	7,345.04	7,345.04	20.23	258.27	-89.94	-42.24	1,187.72	1,010.18	731.10	279.08	3.620	
7,900.00	7,357.17	7,345.17	7,345.17	21.00	258.28	-89.95	-42.24	1,187.72	953.56	673.70	279.85	3.407	
8,000.00	7,357.31	7,345.31	7,345.31	21.89	258.28	-89.96	-42.24	1,187.72	904.49	623.73	280.75	3.222	
8,100.00	7,357.45	7,345.45	7,345.45	22.89	258.29	-89.97	-42.24	1,187.72	864.24	582.49	281.76	3.067	
8,200.00	7,357.58	7,345.58	7,345.58	23.96	258.29	-89.98	-42.24	1,187.72	834.11	551.31	282.80	2.949	
8,300.00	7,357.72	7,345.72	7,345.72	25.11	258.30	-89.99	-42.24	1,187.72	815.20	531.38	283.82	2.872	
8,400.00	7,357.86	7,345.86	7,345.86	26.31	258.30	-90.00	-42.24	1,187.72	808.32	523.58	284.73	2.839	
8,405.90	7,357.86	7,345.86	7,345.86	26.39	258.30	-90.00	-42.24	1,187.72	808.30	523.51	284.78	2.838 CC, ES, SF	
8,500.00	7,357.99	7,345.99	7,345.99	27.56	258.31	-90.01	-42.24	1,187.72	813.75	528.29	285.47	2.851	
8,600.00	7,358.13	7,346.13	7,346.13	28.86	258.31	-90.02	-42.24	1,187.72	831.27	545.29	285.99	2.907	
8,700.00	7,358.27	7,346.27	7,346.27	30.19	258.31	-90.03	-42.24	1,187.72	860.14	573.85	286.28	3.004	
8,800.00	7,358.40	7,346.40	7,346.40	31.55	258.32	-90.04	-42.24	1,187.72	899.25	612.87	286.39	3.140	
8,900.00	7,358.54	7,346.54	7,346.54	32.95	258.32	-90.05	-42.24	1,187.72	947.35	661.02	286.34	3.309	
9,000.00	7,358.68	7,346.68	7,346.68	34.36	258.33	-90.06	-42.24	1,187.72	1,003.14	716.97	286.18	3.505	
9,100.00	7,358.81	7,346.81	7,346.81	35.80	258.33	-90.07	-42.24	1,187.72	1,065.42	779.47	285.95	3.726	
9,200.00	7,358.95	7,346.95	7,346.95	37.26	258.34	-90.08	-42.24	1,187.72	1,133.11	847.42	285.69	3.966	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
7,600.00	7,333.08	7,321.08	7,321.08	19.20	257.42	-75.10	-39.32	1,236.20	1,173.68	896.59	277.08	4.236	
7,700.00	7,352.53	7,340.53	7,340.53	19.62	258.11	-83.92	-39.32	1,236.20	1,106.39	828.10	278.29	3.976	
7,800.00	7,357.04	7,345.04	7,345.04	20.23	258.27	-89.94	-39.32	1,236.20	1,041.33	762.25	279.08	3.731	
7,900.00	7,357.17	7,345.17	7,345.17	21.00	258.28	-89.95	-39.32	1,236.20	981.57	701.73	279.84	3.508	
8,000.00	7,357.31	7,345.31	7,345.31	21.89	258.28	-89.96	-39.32	1,236.20	928.76	648.02	280.74	3.308	
8,100.00	7,357.45	7,345.45	7,345.45	22.89	258.29	-89.97	-39.32	1,236.20	884.15	602.39	281.75	3.138	
8,200.00	7,357.58	7,345.58	7,345.58	23.96	258.29	-89.98	-39.32	1,236.20	849.02	566.18	282.83	3.002	
8,300.00	7,357.72	7,345.72	7,345.72	25.11	258.30	-89.99	-39.32	1,236.20	824.59	540.67	283.92	2.904	
8,400.00	7,357.86	7,345.86	7,345.86	26.31	258.30	-89.99	-39.32	1,236.20	811.82	526.90	284.92	2.849	
8,454.44	7,357.93	7,345.93	7,345.93	26.99	258.30	-90.00	-39.32	1,236.20	809.99	524.59	285.40	2.838 CC, ES, SF	
8,500.00	7,357.99	7,345.99	7,345.99	27.56	258.31	-90.00	-39.32	1,236.20	811.27	525.52	285.76	2.839	
8,600.00	7,358.13	7,346.13	7,346.13	28.86	258.31	-90.01	-39.32	1,236.20	822.97	536.59	286.38	2.874	
8,700.00	7,358.27	7,346.27	7,346.27	30.19	258.31	-90.02	-39.32	1,236.20	846.40	559.62	286.78	2.951	
8,800.00	7,358.40	7,346.40	7,346.40	31.55	258.32	-90.03	-39.32	1,236.20	880.63	593.68	286.95	3.069	
8,900.00	7,358.54	7,346.54	7,346.54	32.95	258.32	-90.04	-39.32	1,236.20	924.46	637.52	286.94	3.222	
9,000.00	7,358.68	7,346.68	7,346.68	34.36	258.33	-90.05	-39.32	1,236.20	976.59	689.80	286.80	3.405	
9,100.00	7,358.81	7,346.81	7,346.81	35.80	258.33	-90.06	-39.32	1,236.20	1,035.78	749.22	286.57	3.614	
9,200.00	7,358.95	7,346.95	7,346.95	37.26	258.34	-90.07	-39.32	1,236.20	1,100.89	814.60	286.29	3.845	
9,300.00	7,359.09	7,347.09	7,347.09	38.73	258.34	-90.08	-39.32	1,236.20	1,170.93	884.94	285.98	4.094	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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	2.00	-2.00	3.28	3.28	-156.85	-58.65	-25.08	63.79				
100.00	100.00	102.00	98.00	3.28	3.76	-156.85	-58.65	-25.08	63.79	55.95	7.84	8.140	
200.00	200.00	202.00	198.00	3.31	6.31	-156.85	-58.65	-25.08	63.79	53.38	10.40	6.132	
300.00	299.98	302.02	297.98	3.34	9.51	19.38	-58.65	-25.08	62.14	48.49	13.65	4.552	
400.00	399.84	402.16	397.84	3.40	12.90	21.15	-58.65	-25.08	57.23	40.13	17.10	3.347	
500.00	499.45	502.55	497.45	3.49	16.37	24.88	-58.65	-25.08	49.20	28.55	20.65	2.383	
600.00	598.74	603.26	596.74	3.60	19.88	32.39	-58.65	-25.08	38.69	14.42	24.27	1.594	
700.00	697.94	704.06	695.94	3.74	23.41	45.86	-58.65	-25.08	28.83	0.90	27.93	1.032 Level 2	
800.00	797.15	804.85	795.15	3.91	26.95	69.97	-58.65	-25.08	21.95	-9.69	31.64	0.694 Level 1	
860.17	856.84	854.84	854.84	4.02	28.71	90.00	-58.65	-25.08	20.61	-12.91	33.52	0.615 Level 1, CC	
900.00	896.35	905.65	894.35	4.10	30.49	103.57	-58.65	-25.08	21.21	-14.17	35.38	0.599 Level 1, ES, SF	
1,000.00	995.55	1,006.45	993.55	4.31	34.05	130.27	-58.65	-25.08	27.10	-12.00	39.10	0.693 Level 1	
1,100.00	1,094.76	1,107.24	1,092.76	4.53	37.60	145.46	-58.65	-25.08	36.55	-6.27	42.82	0.854 Level 1	
1,200.00	1,193.96	1,208.04	1,191.96	4.77	41.16	154.09	-58.65	-25.08	47.47	0.91	46.56	1.020 Level 2	
1,300.00	1,293.17	1,308.83	1,291.17	5.02	44.72	159.43	-58.65	-25.08	59.07	8.75	50.32	1.174 Level 2	
1,400.00	1,392.37	1,409.63	1,390.37	5.28	48.29	163.00	-58.65	-25.08	71.00	16.91	54.09	1.313 Level 3	
1,500.00	1,491.58	1,489.58	1,489.58	5.55	51.11	165.54	-58.65	-25.08	83.12	25.98	57.14	1.455 Level 3	
1,600.00	1,590.78	1,588.78	1,588.78	5.83	54.62	167.42	-58.65	-25.08	95.36	34.49	60.87	1.567	
1,700.00	1,689.99	1,687.99	1,687.99	6.12	58.13	168.88	-58.65	-25.08	107.68	43.07	64.61	1.667	
1,800.00	1,789.19	1,787.19	1,787.19	6.41	61.64	170.04	-58.65	-25.08	120.06	51.70	68.36	1.756	
1,900.00	1,888.40	1,886.40	1,886.40	6.66	65.15	170.98	-58.65	-25.08	132.48	60.69	71.79	1.845	
2,000.00	1,987.60	1,985.60	1,985.60	6.59	68.66	171.76	-58.65	-25.08	144.92	69.61	75.31	1.924	
2,100.00	2,086.81	2,084.81	2,084.81	6.64	72.17	172.42	-58.65	-25.08	157.39	78.54	78.85	1.996	
2,200.00	2,186.01	2,184.01	2,184.01	6.70	75.68	172.98	-58.65	-25.08	169.88	87.47	82.41	2.061	
2,300.00	2,285.22	2,283.22	2,283.22	6.77	79.20	173.46	-58.65	-25.08	182.37	96.40	85.97	2.121	
2,400.00	2,384.42	2,382.42	2,382.42	6.86	82.71	173.88	-58.65	-25.08	194.88	105.33	89.56	2.176	
2,500.00	2,483.63	2,481.63	2,481.63	6.96	86.22	174.25	-58.65	-25.08	207.40	114.25	93.15	2.227	
2,600.00	2,582.83	2,580.83	2,580.83	7.08	89.73	174.58	-58.65	-25.08	219.93	123.17	96.76	2.273	
2,700.00	2,682.04	2,680.04	2,680.04	7.21	93.25	174.87	-58.65	-25.08	232.46	132.08	100.38	2.316	
2,800.00	2,781.24	2,779.24	2,779.24	7.34	96.76	175.14	-58.65	-25.08	245.00	140.99	104.01	2.356	
2,900.00	2,880.45	2,878.45	2,878.45	7.50	100.27	175.37	-58.65	-25.08	257.54	149.89	107.65	2.392	
3,000.00	2,979.65	2,977.65	2,977.65	7.66	103.79	175.59	-58.65	-25.08	270.09	158.78	111.31	2.427	
3,100.00	3,078.86	3,076.86	3,076.86	7.83	107.30	175.79	-58.65	-25.08	282.64	167.67	114.97	2.458	
3,200.00	3,178.06	3,176.06	3,176.06	8.01	110.81	175.97	-58.65	-25.08	295.19	176.55	118.64	2.488	
3,300.00	3,277.27	3,275.27	3,275.27	8.20	114.33	176.13	-58.65	-25.08	307.75	185.43	122.32	2.516	
3,400.00	3,376.47	3,374.47	3,374.47	8.39	117.84	176.28	-58.65	-25.08	320.31	194.30	126.01	2.542	
3,500.00	3,475.68	3,473.68	3,473.68	8.60	121.35	176.42	-58.65	-25.08	332.87	203.16	129.71	2.566	
3,600.00	3,574.88	3,572.88	3,572.88	8.81	124.87	176.55	-58.65	-25.08	345.43	212.02	133.41	2.589	
3,700.00	3,674.09	3,672.09	3,672.09	9.02	128.38	176.67	-58.65	-25.08	357.99	220.88	137.12	2.611	
3,800.00	3,773.29	3,771.29	3,771.29	9.25	131.90	176.79	-58.65	-25.08	370.56	229.73	140.83	2.631	
3,900.00	3,872.50	3,870.50	3,870.50	9.48	135.41	176.89	-58.65	-25.08	383.13	238.57	144.55	2.650	
4,000.00	3,971.70	3,969.70	3,969.70	9.71	138.92	176.99	-58.65	-25.08	395.69	247.42	148.28	2.669	
4,100.00	4,070.91	4,068.91	4,068.91	9.95	142.44	177.08	-58.65	-25.08	408.26	256.25	152.01	2.686	
4,200.00	4,170.11	4,168.11	4,168.11	10.19	145.95	177.17	-58.65	-25.08	420.83	265.09	155.74	2.702	
4,300.00	4,269.32	4,267.32	4,267.32	10.44	149.47	177.25	-58.65	-25.08	433.40	273.92	159.48	2.718	
4,400.00	4,368.52	4,366.52	4,366.52	10.69	152.98	177.33	-58.65	-25.08	445.97	282.75	163.22	2.732	
4,500.00	4,467.73	4,465.73	4,465.73	10.95	156.49	177.40	-58.65	-25.08	458.55	291.58	166.97	2.746	
4,600.00	4,566.93	4,564.93	4,564.93	11.21	160.01	177.47	-58.65	-25.08	471.12	300.40	170.72	2.760	
4,700.00	4,666.14	4,664.14	4,664.14	11.47	163.52	177.54	-58.65	-25.08	483.69	309.22	174.47	2.772	
4,800.00	4,765.34	4,763.34	4,763.34	11.73	167.04	177.60	-58.65	-25.08	496.27	318.04	178.23	2.784	
4,900.00	4,864.55	4,862.55	4,862.55	12.00	170.55	177.66	-58.65	-25.08	508.84	326.86	181.99	2.796	
5,000.00	4,963.75	4,961.75	4,961.75	12.27	174.07	177.72	-58.65	-25.08	521.42	335.67	185.75	2.807	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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
5,100.00	5,062.96	5,060.96	5,060.96	12.54	177.58	177.77	-58.65	-25.08	533.99	344.48	189.51	2.818	
5,200.00	5,162.16	5,160.16	5,160.16	12.81	181.09	177.82	-58.65	-25.08	546.57	353.29	193.28	2.828	
5,300.00	5,261.37	5,259.37	5,259.37	13.09	184.61	177.87	-58.65	-25.08	559.14	362.10	197.04	2.838	
5,400.00	5,360.57	5,358.57	5,358.57	13.37	188.12	177.92	-58.65	-25.08	571.72	370.91	200.81	2.847	
5,500.00	5,459.78	5,457.78	5,457.78	13.65	191.64	177.96	-58.65	-25.08	584.30	379.71	204.58	2.856	
5,600.00	5,558.98	5,556.98	5,556.98	13.93	195.15	178.01	-58.65	-25.08	596.88	388.52	208.36	2.865	
5,700.00	5,658.18	5,656.18	5,656.18	14.21	198.67	178.05	-58.65	-25.08	609.45	397.32	212.13	2.873	
5,800.00	5,757.39	5,755.39	5,755.39	14.50	202.18	178.09	-58.65	-25.08	622.03	406.12	215.91	2.881	
5,900.00	5,856.59	5,854.59	5,854.59	14.79	205.70	178.12	-58.65	-25.08	634.61	414.93	219.69	2.889	
6,000.00	5,955.80	5,953.80	5,953.80	15.07	209.21	178.16	-58.65	-25.08	647.19	423.72	223.46	2.896	
6,100.00	6,055.00	6,053.00	6,053.00	15.36	212.73	178.20	-58.65	-25.08	659.77	432.52	227.25	2.903	
6,200.00	6,154.21	6,152.21	6,152.21	15.65	216.24	178.23	-58.65	-25.08	672.35	441.32	231.03	2.910	
6,300.00	6,253.41	6,251.41	6,251.41	15.94	219.76	178.26	-58.65	-25.08	684.93	450.12	234.81	2.917	
6,400.00	6,352.62	6,350.62	6,350.62	16.24	223.27	178.29	-58.65	-25.08	697.51	458.91	238.59	2.923	
6,500.00	6,451.82	6,449.82	6,449.82	16.53	226.78	178.32	-58.65	-25.08	710.09	467.71	242.38	2.930	
6,600.00	6,551.03	6,549.03	6,549.03	16.83	230.30	178.35	-58.65	-25.08	722.67	476.50	246.16	2.936	
6,700.00	6,650.23	6,648.23	6,648.23	17.12	233.81	178.38	-58.65	-25.08	735.25	485.30	249.95	2.942	
6,800.00	6,749.44	6,747.44	6,747.44	17.41	237.33	-158.80	-58.65	-25.08	747.77	494.04	253.73	2.947	
6,900.00	6,847.87	6,845.87	6,845.87	17.64	240.82	-118.53	-58.65	-25.08	759.43	501.98	257.45	2.950	
7,000.00	6,943.29	6,941.29	6,941.29	17.88	244.20	-106.55	-58.65	-25.08	770.46	509.42	261.04	2.952	
7,100.00	7,033.35	7,031.35	7,031.35	18.10	247.39	-102.71	-58.65	-25.08	782.14	517.70	264.44	2.958	
7,200.00	7,115.82	7,113.82	7,113.82	18.32	250.31	-101.78	-58.65	-25.08	796.34	528.76	267.57	2.976	
7,300.00	7,188.68	7,186.68	7,186.68	18.52	252.89	-101.80	-58.65	-25.08	815.18	544.78	270.39	3.015	
7,400.00	7,250.14	7,248.14	7,248.14	18.71	255.07	-101.69	-58.65	-25.08	840.62	567.77	272.85	3.081	
7,500.00	7,298.67	7,303.33	7,296.67	18.92	257.02	-100.73	-58.65	-25.08	874.03	598.92	275.11	3.177	
7,600.00	7,333.08	7,331.08	7,331.08	19.20	258.01	-98.37	-58.65	-25.08	915.91	639.49	276.42	3.313	
7,700.00	7,352.53	7,350.53	7,350.53	19.62	258.70	-94.30	-58.65	-25.08	965.73	688.32	277.41	3.481	
7,800.00	7,357.04	7,355.04	7,355.04	20.23	258.86	-90.06	-58.65	-25.08	1,022.13	744.31	277.82	3.679	
7,900.00	7,357.17	7,355.17	7,355.17	21.00	258.86	-90.07	-58.65	-25.08	1,084.50	806.44	278.06	3.900	
8,000.00	7,357.31	7,355.31	7,355.31	21.89	258.87	-90.08	-58.65	-25.08	1,152.18	873.91	278.27	4.141	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	8.00	-8.00	3.28	3.28	-179.55	-1,064.11	-8.36	1,064.14				
100.00	100.00	108.00	92.00	3.28	3.87	-179.55	-1,064.11	-8.36	1,064.14	1,056.19	7.94	133.939	
200.00	200.00	208.00	192.00	3.31	6.49	-179.55	-1,064.11	-8.36	1,064.14	1,053.55	10.59	100.530	
300.00	299.98	308.02	291.98	3.34	9.71	-3.86	-1,064.11	-8.36	1,062.40	1,048.55	13.85	76.710	
400.00	399.84	408.16	391.84	3.40	13.11	-3.88	-1,064.11	-8.36	1,057.18	1,039.87	17.30	61.094	
500.00	499.45	508.55	491.45	3.49	16.58	-3.93	-1,064.11	-8.36	1,048.48	1,027.62	20.86	50.272	
600.00	598.74	609.26	590.74	3.60	20.09	-3.98	-1,064.11	-8.36	1,036.58	1,012.10	24.48	42.350	
700.00	697.94	689.94	689.94	3.74	22.91	-4.03	-1,064.11	-8.36	1,024.02	996.60	27.42	37.343	
800.00	797.15	789.15	789.15	3.91	26.39	-4.08	-1,064.11	-8.36	1,011.47	980.42	31.04	32.581	
900.00	896.35	888.35	888.35	4.10	29.89	-4.13	-1,064.11	-8.36	998.92	964.22	34.69	28.794	
1,000.00	995.55	987.55	987.55	4.31	33.38	-4.19	-1,064.11	-8.36	986.36	948.00	38.36	25.714	
1,100.00	1,094.76	1,086.76	1,086.76	4.53	36.88	-4.24	-1,064.11	-8.36	973.81	931.77	42.04	23.162	
1,200.00	1,193.96	1,185.96	1,185.96	4.77	40.38	-4.30	-1,064.11	-8.36	961.26	915.52	45.74	21.015	
1,300.00	1,293.17	1,285.17	1,285.17	5.02	43.89	-4.35	-1,064.11	-8.36	948.71	899.26	49.45	19.185	
1,400.00	1,392.37	1,384.37	1,384.37	5.28	47.39	-4.41	-1,064.11	-8.36	936.16	882.99	53.17	17.606	
1,500.00	1,491.58	1,483.58	1,483.58	5.55	50.90	-4.47	-1,064.11	-8.36	923.61	866.71	56.90	16.232	
1,600.00	1,590.78	1,582.78	1,582.78	5.83	54.41	-4.53	-1,064.11	-8.36	911.07	850.43	60.64	15.024	
1,700.00	1,689.99	1,681.99	1,681.99	6.12	57.92	-4.60	-1,064.11	-8.36	898.52	834.14	64.39	13.955	
1,800.00	1,789.19	1,781.19	1,781.19	6.41	61.43	-4.66	-1,064.11	-8.36	885.98	817.84	68.14	13.003	
1,900.00	1,888.40	1,880.40	1,880.40	6.56	64.94	-4.73	-1,064.11	-8.36	873.43	801.87	71.57	12.205	
2,000.00	1,987.60	1,979.60	1,979.60	6.59	68.45	-4.80	-1,064.11	-8.36	860.89	785.80	75.09	11.464	
2,100.00	2,086.81	2,078.81	2,078.81	6.64	71.96	-4.87	-1,064.11	-8.36	848.35	769.71	78.63	10.789	
2,200.00	2,186.01	2,178.01	2,178.01	6.70	75.47	-4.94	-1,064.11	-8.36	835.81	753.62	82.19	10.169	
2,300.00	2,285.22	2,277.22	2,277.22	6.77	78.98	-5.02	-1,064.11	-8.36	823.27	737.51	85.76	9.600	
2,400.00	2,384.42	2,376.42	2,376.42	6.86	82.50	-5.10	-1,064.11	-8.36	810.73	721.39	89.34	9.074	
2,500.00	2,483.63	2,475.63	2,475.63	6.96	86.01	-5.18	-1,064.11	-8.36	798.20	705.26	92.94	8.588	
2,600.00	2,582.83	2,574.83	2,574.83	7.08	89.52	-5.26	-1,064.11	-8.36	785.66	689.12	96.55	8.138	
2,700.00	2,682.04	2,674.04	2,674.04	7.21	93.03	-5.34	-1,064.11	-8.36	773.13	672.96	100.17	7.718	
2,800.00	2,781.24	2,773.24	2,773.24	7.34	96.55	-5.43	-1,064.11	-8.36	760.60	656.80	103.80	7.327	
2,900.00	2,880.45	2,872.45	2,872.45	7.50	100.06	-5.52	-1,064.11	-8.36	748.07	640.63	107.44	6.962	
3,000.00	2,979.65	2,971.65	2,971.65	7.66	103.57	-5.62	-1,064.11	-8.36	735.55	624.45	111.10	6.621	
3,100.00	3,078.86	3,070.86	3,070.86	7.83	107.09	-5.72	-1,064.11	-8.36	723.02	608.26	114.76	6.300	
3,200.00	3,178.06	3,170.06	3,170.06	8.01	110.60	-5.82	-1,064.11	-8.36	710.50	592.06	118.43	5.999	
3,300.00	3,277.27	3,269.27	3,269.27	8.20	114.11	-5.92	-1,064.11	-8.36	697.98	575.86	122.12	5.716	
3,400.00	3,376.47	3,368.47	3,368.47	8.39	117.63	-6.03	-1,064.11	-8.36	685.46	559.66	125.80	5.449	
3,500.00	3,475.68	3,467.68	3,467.68	8.60	121.14	-6.14	-1,064.11	-8.36	672.94	543.44	129.50	5.196	
3,600.00	3,574.88	3,566.88	3,566.88	8.81	124.65	-6.26	-1,064.11	-8.36	660.43	527.23	133.20	4.958	
3,700.00	3,674.09	3,666.09	3,666.09	9.02	128.17	-6.38	-1,064.11	-8.36	647.92	511.01	136.91	4.732	
3,800.00	3,773.29	3,765.29	3,765.29	9.25	131.68	-6.51	-1,064.11	-8.36	635.41	494.79	140.63	4.518	
3,900.00	3,872.50	3,864.50	3,864.50	9.48	135.20	-6.64	-1,064.11	-8.36	622.91	478.56	144.35	4.315	
4,000.00	3,971.70	3,963.70	3,963.70	9.71	138.71	-6.78	-1,064.11	-8.36	610.41	462.33	148.08	4.122	
4,100.00	4,070.91	4,062.91	4,062.91	9.95	142.22	-6.92	-1,064.11	-8.36	597.91	446.11	151.81	3.939	
4,200.00	4,170.11	4,162.11	4,162.11	10.19	145.74	-7.07	-1,064.11	-8.36	585.42	429.88	155.54	3.764	
4,300.00	4,269.32	4,261.32	4,261.32	10.44	149.25	-7.22	-1,064.11	-8.36	572.93	413.65	159.28	3.597	
4,400.00	4,368.52	4,360.52	4,360.52	10.69	152.77	-7.38	-1,064.11	-8.36	560.45	397.42	163.03	3.438	
4,500.00	4,467.73	4,459.73	4,459.73	10.95	156.28	-7.55	-1,064.11	-8.36	547.97	381.19	166.78	3.286	
4,600.00	4,566.93	4,558.93	4,558.93	11.21	159.80	-7.73	-1,064.11	-8.36	535.49	364.96	170.53	3.140	
4,700.00	4,666.14	4,658.14	4,658.14	11.47	163.31	-7.91	-1,064.11	-8.36	523.02	348.74	174.28	3.001	
4,800.00	4,765.34	4,757.34	4,757.34	11.73	166.82	-8.11	-1,064.11	-8.36	510.56	332.52	178.04	2.868	
4,900.00	4,864.55	4,856.55	4,856.55	12.00	170.34	-8.31	-1,064.11	-8.36	498.10	316.30	181.80	2.740	
5,000.00	4,963.75	4,955.75	4,955.75	12.27	173.85	-8.53	-1,064.11	-8.36	485.65	300.08	185.56	2.617	
5,100.00	5,062.96	5,054.96	5,054.96	12.54	177.37	-8.75	-1,064.11	-8.36	473.20	283.87	189.33	2.499	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 29-6H6 - 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	5,162.16	5,154.16	5,154.16	12.81	180.88	-8.99	-1,064.11	-8.36	460.76	267.67	193.09	2.386	
5,300.00	5,261.37	5,253.37	5,253.37	13.09	184.40	-9.24	-1,064.11	-8.36	448.34	251.47	196.86	2.277	
5,400.00	5,360.57	5,352.57	5,352.57	13.37	187.91	-9.51	-1,064.11	-8.36	435.92	235.28	200.64	2.173	
5,500.00	5,459.78	5,451.78	5,451.78	13.65	191.43	-9.79	-1,064.11	-8.36	423.51	219.09	204.41	2.072	
5,600.00	5,558.98	5,550.98	5,550.98	13.93	194.94	-10.09	-1,064.11	-8.36	411.11	202.92	208.19	1.975	
5,700.00	5,658.18	5,650.18	5,650.18	14.21	198.46	-10.40	-1,064.11	-8.36	398.72	186.75	211.97	1.881	
5,800.00	5,757.39	5,749.39	5,749.39	14.50	201.97	-10.74	-1,064.11	-8.36	386.34	170.60	215.75	1.791	
5,900.00	5,856.59	5,848.59	5,848.59	14.79	205.48	-11.10	-1,064.11	-8.36	373.98	154.45	219.53	1.704	
6,000.00	5,955.80	5,947.80	5,947.80	15.07	209.00	-11.48	-1,064.11	-8.36	361.64	138.32	223.31	1.619	
6,100.00	6,055.00	6,047.00	6,047.00	15.36	212.51	-11.89	-1,064.11	-8.36	349.31	122.21	227.10	1.538	
6,200.00	6,154.21	6,146.21	6,146.21	15.65	216.03	-12.34	-1,064.11	-8.36	337.00	106.11	230.89	1.460	Level 3
6,300.00	6,253.41	6,245.41	6,245.41	15.94	219.54	-12.81	-1,064.11	-8.36	324.71	90.04	234.68	1.384	Level 3
6,400.00	6,352.62	6,344.62	6,344.62	16.24	223.06	-13.32	-1,064.11	-8.36	312.45	73.98	238.47	1.310	Level 3
6,500.00	6,451.82	6,443.82	6,443.82	16.53	226.57	-13.87	-1,064.11	-8.36	300.21	57.95	242.26	1.239	Level 2
6,600.00	6,551.03	6,543.03	6,543.03	16.83	230.09	-14.47	-1,064.11	-8.36	288.00	41.94	246.06	1.170	Level 2
6,700.00	6,650.23	6,642.23	6,642.23	17.12	233.60	-15.13	-1,064.11	-8.36	275.83	25.97	249.85	1.104	Level 2
6,800.00	6,749.44	6,741.44	6,741.44	17.41	237.12	7.19	-1,064.11	-8.36	263.55	9.91	253.65	1.039	Level 2
6,900.00	6,847.87	6,839.87	6,839.87	17.64	240.60	50.76	-1,064.11	-8.36	249.51	-7.82	257.32	0.970	Level 1
7,000.00	6,943.29	6,935.29	6,935.29	17.88	243.98	70.97	-1,064.11	-8.36	235.32	-25.52	260.84	0.902	Level 1
7,100.00	7,033.35	7,025.35	7,025.35	18.10	247.18	86.86	-1,064.11	-8.36	226.67	-37.55	264.22	0.858	Level 1
7,121.01	7,051.38	7,043.38	7,043.38	18.15	247.81	90.00	-1,064.11	-8.36	226.33	-38.60	264.93	0.854	Level 1, CC, ES, SF
7,200.00	7,115.82	7,107.82	7,107.82	18.32	250.10	101.02	-1,064.11	-8.36	232.02	-35.55	267.57	0.867	Level 1
7,300.00	7,188.68	7,180.68	7,180.68	18.52	252.68	112.23	-1,064.11	-8.36	258.63	-12.20	270.83	0.955	Level 1
7,400.00	7,250.14	7,242.14	7,242.14	18.71	254.86	119.37	-1,064.11	-8.36	307.88	34.17	273.71	1.125	Level 2
7,500.00	7,298.67	7,309.33	7,290.67	18.92	257.24	121.94	-1,064.11	-8.36	375.89	99.25	276.64	1.359	Level 3
7,600.00	7,333.08	7,325.08	7,325.08	19.20	257.79	118.97	-1,064.11	-8.36	457.34	179.77	277.58	1.648	
7,700.00	7,352.53	7,344.53	7,344.53	19.62	258.48	107.53	-1,064.11	-8.36	547.45	268.93	278.51	1.966	
7,800.00	7,357.04	7,349.04	7,349.04	20.23	258.64	90.26	-1,064.11	-8.36	642.20	363.37	278.83	2.303	
7,900.00	7,357.17	7,349.17	7,349.17	21.00	258.65	90.31	-1,064.11	-8.36	738.60	459.66	278.94	2.648	
8,000.00	7,357.31	7,349.31	7,349.31	21.89	258.65	90.35	-1,064.11	-8.36	835.84	556.82	279.03	2.996	
8,100.00	7,357.45	7,349.45	7,349.45	22.89	258.66	90.39	-1,064.11	-8.36	933.67	654.57	279.10	3.345	
8,200.00	7,357.58	7,349.58	7,349.58	23.96	258.66	90.43	-1,064.11	-8.36	1,031.91	752.75	279.16	3.696	
8,300.00	7,357.72	7,349.72	7,349.72	25.11	258.67	90.48	-1,064.11	-8.36	1,130.47	851.25	279.22	4.049	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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

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	12.98	12.98	3.28	3.28	-122.39	-528.22	-832.79	986.18				
100.00	100.00	106.10	106.10	3.28	3.29	-122.38	-528.42	-833.18	986.66	979.30	7.36	134.070	
200.00	200.00	206.00	206.00	3.31	3.32	-122.39	-528.89	-833.84	987.46	980.05	7.42	133.164	
300.00	299.98	304.74	304.73	3.34	3.38	53.38	-529.56	-834.46	987.31	979.79	7.52	131.343	
400.00	399.84	409.52	409.51	3.40	3.47	53.65	-530.31	-834.84	984.88	977.22	7.67	128.454	
500.00	499.45	506.62	506.60	3.49	3.58	54.09	-531.14	-835.04	980.36	972.50	7.86	124.750	
600.00	598.74	609.44	609.42	3.60	3.72	54.70	-531.96	-835.16	973.90	965.79	8.11	120.109	
700.00	697.94	706.49	706.47	3.74	3.87	55.25	-532.81	-835.21	967.13	958.74	8.39	115.240	
800.00	797.15	806.43	806.40	3.91	4.04	55.82	-533.83	-835.23	960.51	951.78	8.72	110.111	
900.00	896.35	908.42	908.38	4.10	4.23	56.40	-534.78	-835.10	953.80	944.71	9.09	104.937	
1,000.00	995.55	1,008.82	1,008.78	4.31	4.41	56.99	-535.60	-834.81	947.00	937.53	9.48	99.942	
1,100.00	1,094.76	1,108.74	1,108.70	4.53	4.61	57.59	-536.33	-834.47	940.21	930.33	9.89	95.114	
1,200.00	1,193.96	1,203.62	1,203.57	4.77	4.82	58.15	-537.28	-834.25	933.75	923.43	10.32	90.474	
1,300.00	1,293.17	1,300.44	1,300.38	5.02	5.05	58.73	-538.43	-834.31	927.72	916.93	10.79	85.951	
1,400.00	1,392.37	1,399.65	1,399.59	5.28	5.30	59.34	-539.55	-834.56	921.95	910.65	11.29	81.631	
1,500.00	1,491.58	1,500.53	1,500.46	5.55	5.56	59.96	-540.73	-834.70	916.20	904.38	11.82	77.544	
1,600.00	1,590.78	1,598.26	1,598.18	5.83	5.82	60.56	-542.00	-834.79	910.57	898.22	12.34	73.770	
1,700.00	1,689.99	1,697.35	1,697.26	6.12	6.08	61.18	-543.32	-834.98	905.14	892.25	12.89	70.229	
1,800.00	1,789.19	1,798.97	1,798.89	6.41	6.35	61.85	-544.19	-835.27	899.72	886.28	13.44	66.940	
1,900.00	1,888.40	1,897.12	1,897.03	6.56	6.60	62.54	-544.58	-835.68	894.35	880.72	13.63	65.598	
2,000.00	1,987.60	1,995.23	1,995.14	6.59	6.83	63.24	-544.90	-836.25	889.24	875.35	13.89	63.998	
2,100.00	2,086.81	2,093.18	2,093.08	6.64	7.04	63.96	-545.15	-836.99	884.42	870.26	14.16	62.480	
2,200.00	2,186.01	2,189.82	2,189.72	6.70	7.26	64.68	-545.43	-837.94	879.95	865.52	14.43	60.976	
2,300.00	2,285.22	2,290.15	2,290.04	6.77	7.47	65.44	-545.67	-839.06	875.74	861.02	14.72	59.476	
2,400.00	2,384.42	2,393.69	2,393.58	6.86	7.64	66.25	-545.52	-840.01	871.38	856.39	14.99	58.135	
2,500.00	2,483.63	2,494.72	2,494.60	6.96	7.76	67.06	-545.08	-840.64	866.80	851.59	15.21	56.972	
2,600.00	2,582.83	2,591.69	2,591.58	7.08	7.88	67.86	-544.51	-841.31	862.41	846.97	15.45	55.836	
2,700.00	2,682.04	2,689.25	2,689.13	7.21	8.02	68.68	-543.86	-842.24	858.44	842.72	15.72	54.620	
2,800.00	2,781.24	2,786.19	2,786.06	7.34	8.19	69.49	-543.37	-843.33	854.85	838.82	16.03	53.328	
2,900.00	2,880.45	2,882.58	2,882.43	7.50	8.38	70.31	-542.93	-844.70	851.74	835.37	16.38	52.009	
3,000.00	2,979.65	2,980.25	2,980.09	7.66	8.60	71.14	-542.63	-846.31	849.09	832.33	16.76	50.663	
3,100.00	3,078.86	3,077.23	3,077.05	7.83	8.83	71.96	-542.42	-848.09	846.81	829.65	17.16	49.340	
3,200.00	3,178.06	3,176.00	3,175.81	8.01	9.07	72.81	-542.22	-850.09	844.91	827.32	17.59	48.032	
3,300.00	3,277.27	3,272.21	3,272.00	8.20	9.32	73.62	-542.36	-852.08	843.32	825.29	18.04	46.756	
3,400.00	3,376.47	3,372.46	3,372.22	8.39	9.61	74.43	-543.05	-854.31	842.16	823.64	18.52	45.469	
3,500.00	3,475.68	3,463.78	3,463.51	8.60	9.88	75.12	-544.37	-856.33	841.31	822.32	19.00	44.288	
3,507.72	3,483.34	3,470.52	3,470.24	8.61	9.90	75.17	-544.47	-856.53	841.31	822.28	19.03	44.203	
3,600.00	3,574.88	3,561.01	3,560.67	8.81	10.16	75.88	-545.67	-859.54	841.64	822.14	19.50	43.168	
3,700.00	3,674.09	3,662.95	3,662.56	9.02	10.46	76.70	-546.65	-862.62	841.80	821.78	20.02	42.053	
3,800.00	3,773.29	3,765.32	3,764.89	9.25	10.77	77.51	-547.70	-865.45	841.88	821.33	20.55	40.968	
3,900.00	3,872.50	3,868.90	3,868.42	9.48	11.08	78.28	-549.49	-867.72	841.64	820.54	21.10	39.893	
4,000.00	3,971.70	3,971.91	3,971.40	9.71	11.40	79.03	-551.35	-869.48	841.08	819.42	21.65	38.848	
4,100.00	4,070.91	4,073.18	4,072.65	9.95	11.71	79.78	-553.07	-870.88	840.31	818.11	22.20	37.848	
4,200.00	4,170.11	4,178.82	4,178.27	10.19	12.02	80.56	-554.84	-871.93	839.31	816.55	22.76	36.876	
4,300.00	4,269.32	4,284.15	4,283.58	10.44	12.30	81.32	-556.86	-872.09	837.63	814.34	23.29	35.965	
4,400.00	4,368.52	4,381.94	4,381.35	10.69	12.55	82.02	-558.80	-871.94	835.78	811.98	23.80	35.124	
4,500.00	4,467.73	4,485.87	4,485.27	10.95	12.79	82.81	-560.32	-871.78	834.04	809.75	24.29	34.333	
4,600.00	4,566.93	4,579.75	4,579.15	11.21	12.98	83.58	-560.79	-871.57	832.34	807.59	24.75	33.628	
4,700.00	4,666.14	4,678.56	4,677.96	11.47	13.22	84.42	-561.10	-871.88	831.34	806.09	25.26	32.917	
4,800.00	4,765.34	4,782.23	4,781.61	11.73	13.49	85.21	-562.62	-871.89	830.23	804.44	25.79	32.189	
4,900.00	4,864.55	4,885.18	4,884.54	12.00	13.74	85.96	-564.63	-871.36	828.73	802.43	26.31	31.500	
5,000.00	4,963.75	4,984.88	4,984.23	12.27	13.96	86.71	-566.33	-870.59	827.14	800.34	26.80	30.866	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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
5,100.00	5,062.96	5,084.24	5,083.57	12.54	14.17	87.48	-567.74	-869.84	825.70	798.41	27.29	30.259	
5,200.00	5,162.16	5,180.55	5,179.87	12.81	14.41	88.21	-569.34	-869.27	824.56	796.77	27.80	29.665	
5,300.00	5,261.37	5,278.62	5,277.93	13.09	14.65	89.00	-570.38	-868.97	823.90	795.58	28.31	29.098	
5,400.00	5,360.57	5,376.67	5,375.98	13.37	14.90	89.81	-571.09	-868.78	823.52	794.67	28.84	28.551	
5,451.34	5,411.50	5,426.58	5,425.88	13.51	15.03	90.21	-571.60	-868.75	823.46	794.33	29.12	28.274 CC	
5,500.00	5,459.78	5,473.60	5,472.90	13.65	15.17	90.59	-572.16	-868.82	823.52	794.12	29.40	28.013	
5,600.00	5,558.98	5,570.83	5,570.13	13.93	15.46	91.34	-573.51	-869.17	823.97	793.99	29.97	27.491 ES	
5,700.00	5,658.18	5,666.29	5,665.57	14.21	15.76	92.07	-574.95	-869.84	824.89	794.34	30.55	27.001	
5,800.00	5,757.39	5,769.91	5,769.17	14.50	16.07	92.85	-576.64	-870.79	826.17	795.01	31.15	26.520	
5,900.00	5,856.59	5,875.82	5,875.07	14.79	16.37	93.67	-578.18	-870.81	826.70	794.98	31.73	26.057	
6,000.00	5,955.80	5,974.55	5,973.79	15.07	16.62	94.46	-579.22	-870.36	827.00	794.74	32.26	25.632	
6,100.00	6,055.00	6,077.74	6,076.98	15.36	16.87	95.28	-580.43	-869.90	827.45	794.65	32.80	25.226	
6,200.00	6,154.21	6,177.99	6,177.21	15.65	17.08	96.10	-581.41	-868.96	827.61	794.31	33.30	24.856	
6,300.00	6,253.41	6,277.39	6,276.61	15.94	17.27	96.91	-582.23	-868.01	827.95	794.17	33.78	24.510	
6,400.00	6,352.62	6,376.50	6,375.71	16.24	17.45	97.73	-583.00	-867.05	828.44	794.19	34.25	24.189	
6,500.00	6,451.82	6,476.86	6,476.06	16.53	17.62	98.58	-583.48	-865.98	829.09	794.39	34.70	23.892	
6,600.00	6,551.03	6,578.35	6,577.54	16.83	17.75	99.46	-583.70	-864.61	829.70	794.58	35.12	23.625	
6,700.00	6,650.23	6,673.64	6,672.82	17.12	17.85	100.33	-583.28	-863.17	830.52	795.02	35.51	23.391	
6,800.00	6,749.44	6,777.73	6,776.90	17.41	17.99	123.72	-583.55	-862.00	832.51	796.59	35.93	23.173 SF	
6,900.00	6,847.87	6,878.97	6,878.12	17.64	18.16	164.81	-584.25	-860.25	845.47	809.15	36.32	23.276	
7,000.00	6,943.29	6,971.03	6,970.17	17.88	18.34	178.80	-585.00	-858.78	873.17	836.44	36.73	23.775	
7,100.00	7,033.35	7,071.30	7,070.42	18.10	18.52	-174.40	-585.67	-857.15	914.81	877.70	37.11	24.652	
7,200.00	7,115.82	7,158.91	7,157.99	18.32	18.63	-169.78	-585.12	-854.35	968.36	930.96	37.40	25.894	
7,300.00	7,188.68	7,240.49	7,239.49	18.52	18.70	-165.71	-583.47	-851.32	1,033.59	995.96	37.63	27.471	
7,400.00	7,250.14	7,306.87	7,305.80	18.71	18.79	-161.19	-582.46	-848.49	1,108.62	1,070.78	37.84	29.297	
7,500.00	7,298.67	7,359.02	7,357.90	18.92	18.91	-154.94	-581.67	-846.26	1,192.25	1,154.20	38.06	31.329	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
6,500.00	6,451.82	6,442.82	6,442.82	16.53	226.54	-74.44	-1,177.01	1,067.13	1,196.93	953.38	243.55	4.914	
6,600.00	6,551.03	6,542.03	6,542.03	16.83	230.05	-75.01	-1,177.01	1,067.13	1,193.59	946.23	247.37	4.825	
6,700.00	6,650.23	6,641.23	6,641.23	17.12	233.57	-75.59	-1,177.01	1,067.13	1,190.38	939.19	251.18	4.739	
6,800.00	6,749.44	6,740.44	6,740.44	17.41	237.08	-53.62	-1,177.01	1,067.13	1,186.51	931.52	254.99	4.653	
6,900.00	6,847.87	6,838.87	6,838.87	17.64	240.57	-13.39	-1,177.01	1,067.13	1,171.41	912.69	258.72	4.528	
7,000.00	6,943.29	6,934.29	6,934.29	17.88	243.95	0.41	-1,177.01	1,067.13	1,141.95	879.63	262.32	4.353	
7,100.00	7,033.35	7,024.35	7,024.35	18.10	247.14	7.73	-1,177.01	1,067.13	1,098.82	833.11	265.71	4.135	
7,200.00	7,115.82	7,106.82	7,106.82	18.32	250.06	13.70	-1,177.01	1,067.13	1,043.13	774.33	268.80	3.881	
7,300.00	7,188.68	7,179.68	7,179.68	18.52	252.64	20.34	-1,177.01	1,067.13	976.41	704.89	271.51	3.596	
7,400.00	7,250.14	7,241.14	7,241.14	18.71	254.82	29.21	-1,177.01	1,067.13	900.56	626.79	273.77	3.290	
7,500.00	7,298.67	7,289.67	7,289.67	18.92	256.54	41.95	-1,177.01	1,067.13	817.93	542.42	275.51	2.969	
7,600.00	7,333.08	7,324.08	7,324.08	19.20	257.76	59.27	-1,177.01	1,067.13	731.27	454.57	276.69	2.643	
7,700.00	7,352.53	7,343.53	7,343.53	19.62	258.45	78.16	-1,177.01	1,067.13	643.84	366.52	277.32	2.322	
7,800.00	7,357.04	7,348.04	7,348.04	20.23	258.61	89.89	-1,177.01	1,067.13	559.48	282.04	277.44	2.017	
7,900.00	7,357.17	7,348.17	7,348.17	21.00	258.61	89.91	-1,177.01	1,067.13	481.32	203.68	277.63	1.734	
8,000.00	7,357.31	7,348.31	7,348.31	21.89	258.62	89.94	-1,177.01	1,067.13	412.69	134.39	278.30	1.483	Level 3
8,100.00	7,357.45	7,348.45	7,348.45	22.89	258.62	89.96	-1,177.01	1,067.13	359.11	79.35	279.76	1.284	Level 3
8,200.00	7,357.58	7,348.58	7,348.58	23.96	258.63	89.99	-1,177.01	1,067.13	328.03	46.05	281.98	1.163	Level 2
8,256.77	7,357.66	7,348.66	7,348.66	24.61	258.63	90.00	-1,177.01	1,067.13	323.08	39.78	283.31	1.140	Level 2, CC, ES, SF
8,300.00	7,357.72	7,348.72	7,348.72	25.11	258.63	90.01	-1,177.01	1,067.13	325.96	41.80	284.16	1.147	Level 2
8,400.00	7,357.86	7,348.86	7,348.86	26.31	258.64	90.03	-1,177.01	1,067.13	353.41	68.02	285.39	1.238	Level 2
8,500.00	7,357.99	7,348.99	7,348.99	27.56	258.64	90.06	-1,177.01	1,067.13	404.41	118.77	285.64	1.416	Level 3
8,600.00	7,358.13	7,349.13	7,349.13	28.86	258.65	90.08	-1,177.01	1,067.13	471.37	186.00	285.38	1.652	
8,700.00	7,358.27	7,349.27	7,349.27	30.19	258.65	90.11	-1,177.01	1,067.13	548.49	263.54	284.95	1.925	
8,800.00	7,358.40	7,349.40	7,349.40	31.55	258.66	90.13	-1,177.01	1,067.13	632.05	347.52	284.52	2.221	
8,900.00	7,358.54	7,349.54	7,349.54	32.95	258.66	90.16	-1,177.01	1,067.13	719.81	435.66	284.15	2.533	
9,000.00	7,358.68	7,349.68	7,349.68	34.36	258.67	90.18	-1,177.01	1,067.13	810.42	526.59	283.83	2.855	
9,100.00	7,358.81	7,349.81	7,349.81	35.80	258.67	90.20	-1,177.01	1,067.13	903.01	619.44	283.57	3.184	
9,200.00	7,358.95	7,349.95	7,349.95	37.26	258.68	90.23	-1,177.01	1,067.13	997.03	713.68	283.35	3.519	
9,300.00	7,359.09	7,350.09	7,350.09	38.73	258.68	90.25	-1,177.01	1,067.13	1,092.12	808.94	283.18	3.857	
9,400.00	7,359.23	7,350.23	7,350.23	40.22	258.69	90.28	-1,177.01	1,067.13	1,188.01	904.97	283.04	4.197	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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) - UPRC 29-8C - 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	
8,400.00	7,357.86	7,437.86	7,437.86	26.31	261.79	89.86	-1,362.73	2,198.36	1,120.19	838.85	281.34	3.982	
8,500.00	7,357.99	7,437.99	7,437.99	27.56	261.79	89.87	-1,362.73	2,198.36	1,033.55	751.72	281.84	3.667	
8,600.00	7,358.13	7,438.13	7,438.13	28.86	261.80	89.89	-1,362.73	2,198.36	949.55	666.96	282.59	3.360	
8,700.00	7,358.27	7,438.27	7,438.27	30.19	261.80	89.90	-1,362.73	2,198.36	868.94	585.26	283.68	3.063	
8,800.00	7,358.40	7,438.40	7,438.40	31.55	261.81	89.91	-1,362.73	2,198.36	792.75	507.55	285.20	2.780	
8,900.00	7,358.54	7,438.54	7,438.54	32.95	261.81	89.93	-1,362.73	2,198.36	722.40	435.14	287.26	2.515	
9,000.00	7,358.68	7,438.68	7,438.68	34.36	261.82	89.94	-1,362.73	2,198.36	659.75	369.86	289.89	2.276	
9,100.00	7,358.81	7,438.81	7,438.81	35.80	261.82	89.96	-1,362.73	2,198.36	607.19	314.15	293.04	2.072	
9,200.00	7,358.95	7,438.95	7,438.95	37.26	261.83	89.97	-1,362.73	2,198.36	567.53	271.05	296.48	1.914	
9,300.00	7,359.09	7,439.09	7,439.09	38.73	261.83	89.99	-1,362.73	2,198.36	543.59	243.80	299.79	1.813	
9,382.96	7,359.20	7,439.20	7,439.20	39.97	261.84	90.00	-1,362.73	2,198.36	537.23	235.17	302.06	1.779 CC	
9,400.00	7,359.23	7,439.23	7,439.23	40.22	261.84	90.00	-1,362.73	2,198.36	537.50	235.05	302.44	1.777 ES, SF	
9,500.00	7,359.36	7,439.36	7,439.36	41.72	261.84	90.02	-1,362.73	2,198.36	549.83	245.77	304.06	1.808	
9,600.00	7,359.50	7,439.50	7,439.50	43.24	261.85	90.03	-1,362.73	2,198.36	579.41	274.83	304.58	1.902	
9,700.00	7,359.64	7,439.64	7,439.64	44.77	261.85	90.05	-1,362.73	2,198.36	623.80	319.56	304.24	2.050	
9,800.00	7,359.77	7,439.77	7,439.77	46.30	261.86	90.06	-1,362.73	2,198.36	680.10	376.71	303.39	2.242	
9,900.00	7,359.91	7,439.91	7,439.91	47.85	261.86	90.08	-1,362.73	2,198.36	745.61	443.33	302.29	2.467	
10,000.00	7,360.05	7,440.05	7,440.05	49.40	261.87	90.09	-1,362.73	2,198.36	818.14	517.01	301.13	2.717	
10,100.00	7,360.18	7,440.18	7,440.18	50.96	261.87	90.10	-1,362.73	2,198.36	895.97	595.96	300.01	2.986	
10,200.00	7,360.32	7,440.32	7,440.32	52.53	261.88	90.12	-1,362.73	2,198.36	977.84	678.86	298.98	3.271	
10,300.00	7,360.46	7,440.46	7,440.46	54.10	261.88	90.13	-1,362.73	2,198.36	1,062.81	764.76	298.05	3.566	
10,400.00	7,360.59	7,440.59	7,440.59	55.68	261.89	90.15	-1,362.73	2,198.36	1,150.21	852.98	297.22	3.870	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
8,900.00	7,358.54	7,330.54	7,330.54	32.95	257.99	-89.96	200.10	2,237.23	1,167.80	877.36	290.44	4.021	
9,000.00	7,358.68	7,330.68	7,330.68	34.36	257.99	-89.96	200.10	2,237.23	1,123.17	830.96	292.21	3.844	
9,100.00	7,358.81	7,330.81	7,330.81	35.80	258.00	-89.97	200.10	2,237.23	1,085.95	791.94	294.00	3.694	
9,200.00	7,358.95	7,330.95	7,330.95	37.26	258.00	-89.98	200.10	2,237.23	1,056.90	761.17	295.73	3.574	
9,300.00	7,359.09	7,331.09	7,331.09	38.73	258.01	-89.99	200.10	2,237.23	1,036.73	739.41	297.32	3.487	
9,400.00	7,359.23	7,331.23	7,331.23	40.22	258.01	-90.00	200.10	2,237.23	1,025.95	727.25	298.70	3.435	
9,461.18	7,359.31	7,331.31	7,331.31	41.14	258.02	-90.00	200.10	2,237.23	1,024.12	724.71	299.42	3.420 CC, ES	
9,500.00	7,359.36	7,331.36	7,331.36	41.72	258.02	-90.00	200.10	2,237.23	1,024.86	725.05	299.81	3.418 SF	
9,600.00	7,359.50	7,331.50	7,331.50	43.24	258.02	-90.01	200.10	2,237.23	1,033.49	732.88	300.61	3.438	
9,700.00	7,359.64	7,331.64	7,331.64	44.77	258.03	-90.02	200.10	2,237.23	1,051.60	750.52	301.08	3.493	
9,800.00	7,359.77	7,331.77	7,331.77	46.30	258.03	-90.03	200.10	2,237.23	1,078.72	777.47	301.25	3.581	
9,900.00	7,359.91	7,331.91	7,331.91	47.85	258.04	-90.03	200.10	2,237.23	1,114.18	813.02	301.16	3.700	
10,000.00	7,360.05	7,332.05	7,332.05	49.40	258.04	-90.04	200.10	2,237.23	1,157.22	856.37	300.85	3.847	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
7,600.00	7,333.08	7,308.08	7,308.08	19.20	257.19	-73.74	-73.19	1,278.83	1,181.22	904.33	276.89	4.266	
7,700.00	7,352.53	7,327.53	7,327.53	19.62	257.88	-83.30	-73.19	1,278.83	1,110.63	832.56	278.08	3.994	
7,800.00	7,357.04	7,332.04	7,332.04	20.23	258.04	-89.93	-73.19	1,278.83	1,041.83	762.98	278.84	3.736	
7,900.00	7,357.17	7,332.17	7,332.17	21.00	258.05	-89.94	-73.19	1,278.83	977.84	698.25	279.59	3.497	
8,000.00	7,357.31	7,332.31	7,332.31	21.89	258.05	-89.95	-73.19	1,278.83	920.29	639.81	280.48	3.281	
8,100.00	7,357.45	7,332.45	7,332.45	22.89	258.06	-89.96	-73.19	1,278.83	870.45	588.96	281.49	3.092	
8,200.00	7,357.58	7,332.58	7,332.58	23.96	258.06	-89.97	-73.19	1,278.83	829.73	547.12	282.60	2.936	
8,300.00	7,357.72	7,332.72	7,332.72	25.11	258.07	-89.98	-73.19	1,278.83	799.51	515.76	283.74	2.818	
8,400.00	7,357.86	7,332.86	7,332.86	26.31	258.07	-89.99	-73.19	1,278.83	781.01	496.19	284.82	2.742	
8,496.20	7,357.99	7,332.99	7,332.99	27.52	258.07	-90.00	-73.19	1,278.83	775.06	489.35	285.71	2.713 CC	
8,500.00	7,357.99	7,332.99	7,332.99	27.56	258.07	-90.00	-73.19	1,278.83	775.07	489.33	285.74	2.713 ES, SF	
8,600.00	7,358.13	7,333.13	7,333.13	28.86	258.08	-90.01	-73.19	1,278.83	781.98	495.55	286.43	2.730	
8,700.00	7,358.27	7,333.27	7,333.27	30.19	258.08	-90.02	-73.19	1,278.83	801.41	514.55	286.86	2.794	
8,800.00	7,358.40	7,333.40	7,333.40	31.55	258.09	-90.03	-73.19	1,278.83	832.47	545.44	287.03	2.900	
8,900.00	7,358.54	7,333.54	7,333.54	32.95	258.09	-90.04	-73.19	1,278.83	873.94	586.94	287.00	3.045	
9,000.00	7,358.68	7,333.68	7,333.68	34.36	258.10	-90.05	-73.19	1,278.83	924.41	637.60	286.81	3.223	
9,100.00	7,358.81	7,333.81	7,333.81	35.80	258.10	-90.06	-73.19	1,278.83	982.49	695.97	286.52	3.429	
9,200.00	7,358.95	7,333.95	7,333.95	37.26	258.11	-90.07	-73.19	1,278.83	1,046.92	760.74	286.18	3.658	
9,300.00	7,359.09	7,334.09	7,334.09	38.73	258.11	-90.08	-73.19	1,278.83	1,116.61	830.79	285.82	3.907	
9,400.00	7,359.23	7,334.23	7,334.23	40.22	258.12	-90.09	-73.19	1,278.83	1,190.62	905.16	285.46	4.171	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	-0.32	99.82	-0.56	99.82				
100.00	100.00	100.00	100.00	3.28	3.28	-0.32	99.82	-0.56	99.82	92.29	7.53	13.258	
200.00	200.00	200.00	200.00	3.31	3.31	-0.32	99.82	-0.56	99.82	92.24	7.57	13.179 CC, ES	
300.00	299.98	300.85	300.85	3.34	3.34	175.11	99.08	-1.17	100.83	93.18	7.65	13.178	
400.00	399.84	400.75	400.74	3.40	3.40	174.94	98.21	-1.90	105.19	97.42	7.77	13.539	
500.00	499.45	500.44	500.42	3.49	3.48	174.94	97.35	-2.63	113.01	105.08	7.93	14.247	
600.00	598.74	600.17	599.80	3.60	3.58	175.07	96.48	-3.35	124.04	115.90	8.14	15.238	
700.00	697.94	700.86	699.11	3.74	3.70	175.22	95.62	-4.08	135.73	127.35	8.38	16.199	
800.00	797.15	801.54	798.42	3.91	3.83	175.34	94.76	-4.80	147.41	138.76	8.65	17.037	
900.00	896.35	902.23	897.73	4.10	3.98	175.44	93.89	-5.53	159.10	150.14	8.96	17.761	
1,000.00	995.55	1,002.91	997.04	4.31	4.15	175.53	93.03	-6.25	170.78	161.49	9.29	18.381	
1,100.00	1,094.76	1,096.40	1,096.34	4.53	4.31	175.61	92.17	-6.98	182.47	172.83	9.64	18.934	
1,200.00	1,193.96	1,204.29	1,195.65	4.77	4.51	175.68	91.30	-7.70	194.16	184.13	10.03	19.357	
1,300.00	1,293.17	1,304.97	1,294.96	5.02	4.70	175.74	90.44	-8.42	205.84	195.41	10.43	19.736	
1,400.00	1,392.37	1,405.66	1,394.27	5.28	4.90	175.80	89.58	-9.15	217.53	206.69	10.85	20.055	
1,500.00	1,491.58	1,506.34	1,493.58	5.55	5.11	175.84	88.72	-9.87	229.22	217.94	11.28	20.324	
1,600.00	1,590.78	1,607.03	1,592.88	5.83	5.33	175.89	87.85	-10.60	240.91	229.18	11.72	20.549	
1,700.00	1,689.99	1,707.71	1,692.19	6.12	5.55	175.93	86.99	-11.32	252.60	240.42	12.18	20.739	
1,800.00	1,789.19	1,808.40	1,791.50	6.41	5.78	175.97	86.13	-12.04	264.28	251.81	12.47	21.186	
1,900.00	1,888.40	1,909.08	1,890.81	6.66	6.01	176.00	85.26	-12.77	275.97	263.35	12.62	21.861	
2,000.00	1,987.60	2,009.77	1,990.12	6.59	6.24	176.03	84.40	-13.49	287.66	274.79	12.87	22.346	
2,100.00	2,086.81	2,089.55	2,089.42	6.64	6.43	176.06	83.54	-14.22	299.35	286.26	13.09	22.869	
2,200.00	2,186.01	2,188.86	2,188.73	6.70	6.67	176.08	82.67	-14.94	311.04	297.67	13.37	23.264	
2,300.00	2,285.22	2,288.17	2,288.04	6.77	6.91	176.11	81.81	-15.67	322.73	309.06	13.67	23.615	
2,400.00	2,384.42	2,387.49	2,387.35	6.86	7.15	176.13	80.95	-16.39	334.41	320.44	13.98	23.923	
2,500.00	2,483.63	2,486.80	2,486.66	6.96	7.40	176.15	80.09	-17.11	346.10	331.80	14.31	24.192	
2,600.00	2,582.83	2,586.12	2,585.97	7.08	7.64	176.17	79.22	-17.84	357.79	343.14	14.65	24.426	
2,700.00	2,682.04	2,685.43	2,685.27	7.21	7.89	176.19	78.36	-18.56	369.48	354.48	15.00	24.626	
2,800.00	2,781.24	2,784.75	2,784.58	7.34	8.14	176.21	77.50	-19.29	381.17	365.80	15.37	24.795	
2,900.00	2,880.45	2,884.06	2,883.89	7.50	8.39	176.22	76.63	-20.01	392.86	377.10	15.75	24.938	
3,000.00	2,979.65	2,983.38	2,983.20	7.66	8.65	176.24	75.77	-20.74	404.55	388.40	16.15	25.056	
3,100.00	3,078.86	3,082.69	3,082.51	7.83	8.90	176.25	74.91	-21.46	416.24	399.69	16.55	25.151	
3,200.00	3,178.06	3,182.00	3,181.81	8.01	9.16	176.27	74.04	-22.18	427.92	410.96	16.96	25.228	
3,300.00	3,277.27	3,281.32	3,281.12	8.20	9.41	176.28	73.18	-22.91	439.61	422.23	17.39	25.287	
3,400.00	3,376.47	3,380.63	3,380.43	8.39	9.67	176.29	72.32	-23.63	451.30	433.49	17.82	25.330	
3,500.00	3,475.68	3,479.95	3,479.74	8.60	9.93	176.30	71.45	-24.36	462.99	444.73	18.26	25.360	
3,600.00	3,574.88	3,579.26	3,579.05	8.81	10.19	176.31	70.59	-25.08	474.68	455.98	18.70	25.379	
3,700.00	3,674.09	3,678.58	3,678.35	9.02	10.45	176.33	69.73	-25.80	486.37	467.21	19.16	25.387	
3,800.00	3,773.29	3,777.89	3,777.66	9.25	10.71	176.34	68.87	-26.53	498.06	478.44	19.62	25.386	
3,900.00	3,872.50	3,877.21	3,876.97	9.48	10.97	176.34	68.00	-27.25	509.75	489.66	20.09	25.378	
4,000.00	3,971.70	3,976.52	3,976.28	9.71	11.24	176.35	67.14	-27.98	521.44	500.88	20.56	25.362	
4,100.00	4,070.91	4,075.83	4,075.59	9.95	11.50	176.36	66.28	-28.70	533.12	512.09	21.04	25.341	
4,200.00	4,170.11	4,175.15	4,174.89	10.19	11.76	176.37	65.41	-29.43	544.81	523.29	21.52	25.316	
4,300.00	4,269.32	4,274.46	4,274.20	10.44	12.03	176.38	64.55	-30.15	556.50	534.49	22.01	25.286	
4,400.00	4,368.52	4,373.78	4,373.51	10.69	12.29	176.39	63.69	-30.87	568.19	545.69	22.50	25.252	
4,500.00	4,467.73	4,473.09	4,472.82	10.95	12.55	176.39	62.82	-31.60	579.88	556.88	23.00	25.216	
4,600.00	4,566.93	4,572.41	4,572.13	11.21	12.82	176.40	61.96	-32.32	591.57	568.07	23.50	25.177	
4,700.00	4,666.14	4,671.72	4,671.43	11.47	13.09	176.41	61.10	-33.05	603.26	579.26	24.00	25.136	
4,800.00	4,765.34	4,771.04	4,770.74	11.73	13.35	176.41	60.23	-33.77	614.95	590.44	24.51	25.094	
4,900.00	4,864.55	4,870.35	4,870.05	12.00	13.62	176.42	59.37	-34.50	626.64	601.62	25.02	25.050	
5,000.00	4,963.75	4,969.66	4,969.36	12.27	13.88	176.43	58.51	-35.22	638.33	612.80	25.53	25.005	
5,100.00	5,062.96	5,068.98	5,068.67	12.54	14.15	176.43	57.65	-35.94	650.02	623.97	26.04	24.960	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
5,200.00	5,162.16	5,168.29	5,167.97	12.81	14.42	176.44	56.78	-36.67	661.70	635.14	26.56	24.913		
5,300.00	5,261.37	5,267.61	5,267.28	13.09	14.69	176.44	55.92	-37.39	673.39	646.31	27.08	24.867		
5,400.00	5,360.57	5,366.92	5,366.59	13.37	14.95	176.45	55.06	-38.12	685.08	657.48	27.60	24.820		
5,500.00	5,459.78	5,466.24	5,465.90	13.65	15.22	176.45	54.19	-38.84	696.77	668.65	28.13	24.773		
5,600.00	5,558.98	5,565.55	5,565.21	13.93	15.49	176.46	53.33	-39.56	708.46	679.81	28.65	24.726		
5,700.00	5,658.18	5,664.87	5,664.52	14.21	15.76	176.46	52.47	-40.29	720.15	690.97	29.18	24.680		
5,800.00	5,757.39	5,764.18	5,763.82	14.50	16.03	176.47	51.60	-41.01	731.84	702.13	29.71	24.633		
5,900.00	5,856.59	5,863.49	5,863.13	14.79	16.30	176.47	50.74	-41.74	743.53	713.29	30.24	24.587		
6,000.00	5,955.80	5,962.81	5,962.44	15.07	16.57	176.48	49.88	-42.46	755.22	724.44	30.77	24.541		
6,100.00	6,055.00	6,062.12	6,061.75	15.36	16.83	176.48	49.01	-43.19	766.91	735.60	31.31	24.496		
6,200.00	6,154.21	6,161.44	6,161.06	15.65	17.10	176.49	48.15	-43.91	778.60	746.75	31.84	24.451		
6,300.00	6,253.41	6,260.75	6,260.36	15.94	17.37	176.49	47.29	-44.63	790.29	757.91	32.38	24.407		
6,400.00	6,352.62	6,360.07	6,359.67	16.24	17.64	176.49	46.43	-45.36	801.97	769.06	32.92	24.363		
6,500.00	6,451.82	6,459.38	6,458.98	16.53	17.91	176.50	45.56	-46.08	813.66	780.21	33.46	24.320		
6,600.00	6,551.03	6,558.70	6,558.29	16.83	18.18	176.50	44.70	-46.81	825.35	791.36	34.00	24.277		
6,700.00	6,650.23	6,658.01	6,657.60	17.12	18.45	176.50	43.84	-47.53	837.04	802.50	34.54	24.235		
6,800.00	6,749.44	6,756.38	6,755.95	17.41	18.71	-160.65	42.99	-47.33	848.72	813.66	35.06	24.208		
6,900.00	6,847.87	6,853.01	6,851.77	17.64	18.92	-119.47	42.23	-35.54	860.07	824.59	35.48	24.242		
7,000.00	6,943.29	6,949.73	6,944.77	17.88	19.12	-105.58	41.59	-9.38	870.76	834.89	35.87	24.274		
7,100.00	7,033.35	7,046.62	7,032.91	18.10	19.33	-99.18	41.08	30.65	880.53	844.26	36.27	24.278		
7,200.00	7,115.82	7,143.79	7,114.18	18.32	19.54	-95.54	40.70	83.74	889.13	852.41	36.73	24.210		
7,300.00	7,188.68	7,241.29	7,186.66	18.52	19.88	-93.23	40.48	148.81	896.37	859.04	37.33	24.009		
7,400.00	7,250.14	7,339.19	7,248.59	18.71	20.44	-91.73	40.42	224.50	902.07	863.86	38.21	23.609		
7,500.00	7,298.67	7,437.50	7,298.38	18.92	21.27	-90.80	40.51	309.16	906.08	866.62	39.45	22.966		
7,600.00	7,333.08	7,536.23	7,334.69	19.20	22.42	-90.32	40.77	400.87	908.31	867.18	41.13	22.084		
7,700.00	7,352.53	7,635.38	7,356.45	19.62	23.88	-90.21	41.18	497.49	908.70	865.47	43.24	21.017		
7,800.00	7,357.04	7,734.93	7,363.00	20.23	25.52	-90.37	41.74	596.73	907.31	861.68	45.63	19.883		
7,900.00	7,357.17	7,834.91	7,362.88	21.00	26.22	-90.36	42.36	696.71	905.42	858.22	47.20	19.185		
8,000.00	7,357.31	7,934.89	7,362.77	21.89	26.45	-90.35	42.99	796.69	903.52	855.14	48.38	18.676		
8,100.00	7,357.45	8,034.88	7,362.66	22.89	26.78	-90.33	43.61	896.67	901.62	851.88	49.75	18.124		
8,200.00	7,357.58	8,134.86	7,362.55	23.96	27.20	-90.31	44.23	996.65	899.72	848.44	51.29	17.543		
8,300.00	7,357.72	8,234.84	7,362.44	25.11	27.73	-90.30	44.85	1,096.63	897.83	844.84	52.98	16.946		
8,400.00	7,357.86	8,334.82	7,362.33	26.31	28.34	-90.28	45.47	1,196.61	895.93	841.11	54.82	16.343		
8,500.00	7,357.99	8,434.80	7,362.22	27.56	29.03	-90.27	46.10	1,296.59	894.03	837.24	56.79	15.742		
8,600.00	7,358.13	8,534.78	7,362.11	28.86	29.80	-90.25	46.72	1,396.57	892.13	833.25	58.88	15.152		
8,700.00	7,358.27	8,634.77	7,362.00	30.19	30.65	-90.24	47.34	1,496.55	890.24	829.16	61.07	14.576		
8,800.00	7,358.40	8,734.75	7,361.88	31.55	31.55	-90.22	47.96	1,596.53	888.34	824.97	63.37	14.019		
8,900.00	7,358.54	8,834.73	7,361.77	32.95	32.52	-90.21	48.59	1,696.51	886.44	820.70	65.74	13.483		
9,000.00	7,358.68	8,934.71	7,361.66	34.36	33.55	-90.19	49.21	1,796.49	884.54	816.34	68.20	12.970		
9,100.00	7,358.81	9,034.69	7,361.55	35.80	34.62	-90.18	49.83	1,896.47	882.65	811.92	70.73	12.479		
9,200.00	7,358.95	9,134.68	7,361.44	37.26	35.75	-90.16	50.45	1,996.45	880.75	807.43	73.32	12.012		
9,300.00	7,359.09	9,234.66	7,361.33	38.73	36.91	-90.14	51.08	2,096.43	878.85	802.88	75.97	11.568		
9,400.00	7,359.23	9,334.64	7,361.22	40.22	38.11	-90.13	51.70	2,196.41	876.96	798.28	78.67	11.147		
9,500.00	7,359.36	9,434.62	7,361.11	41.72	39.34	-90.11	52.32	2,296.39	875.06	793.64	81.42	10.747		
9,600.00	7,359.50	9,534.60	7,361.00	43.24	40.61	-90.10	52.94	2,396.37	873.16	788.95	84.21	10.369		
9,700.00	7,359.64	9,634.58	7,360.88	44.77	41.90	-90.08	53.56	2,496.35	871.27	784.22	87.04	10.010		
9,800.00	7,359.77	9,734.57	7,360.77	46.30	43.22	-90.06	54.19	2,596.32	869.37	779.46	89.91	9.670		
9,900.00	7,359.91	9,834.55	7,360.66	47.85	44.57	-90.05	54.81	2,696.30	867.47	774.67	92.80	9.347		
10,000.00	7,360.05	9,934.53	7,360.55	49.40	45.93	-90.03	55.43	2,796.28	865.58	769.85	95.73	9.042		
10,100.00	7,360.18	10,034.51	7,360.44	50.96	47.32	-90.02	56.05	2,896.26	863.68	765.00	98.68	8.752		
10,200.00	7,360.32	10,134.49	7,360.33	52.53	48.72	-90.00	56.68	2,996.24	861.78	760.13	101.66	8.477		
10,300.00	7,360.46	10,234.47	7,360.22	54.10	50.14	-89.98	57.30	3,096.22	859.89	755.23	104.66	8.216		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
10,400.00	7,360.59	10,334.46	7,360.11	55.68	51.57	-89.97	57.92	3,196.20	857.99	750.32	107.67	7.968		
10,500.00	7,360.73	10,434.44	7,360.00	57.26	53.02	-89.95	58.54	3,296.18	856.10	745.38	110.71	7.733		
10,600.00	7,360.87	10,534.42	7,359.89	58.85	54.48	-89.93	59.16	3,396.16	854.20	740.43	113.77	7.508		
10,700.00	7,361.00	10,634.40	7,359.77	60.44	55.96	-89.92	59.79	3,496.14	852.30	735.47	116.84	7.295		
10,800.00	7,361.14	10,734.38	7,359.66	62.04	57.44	-89.90	60.41	3,596.12	850.41	730.49	119.92	7.091		
10,854.62	7,361.22	10,789.00	7,359.60	62.91	58.25	-89.89	60.75	3,650.74	849.90	728.29	121.61	6.989		
10,900.00	7,361.28	10,826.48	7,359.56	63.64	58.81	-89.89	61.11	3,688.21	850.44	727.59	122.86	6.922		
11,000.00	7,361.41	10,924.14	7,359.45	65.25	60.28	-89.87	62.87	3,785.86	853.18	727.26	125.92	6.776		
11,100.00	7,361.54	11,024.10	7,359.34	66.86	61.79	-89.85	64.70	3,885.80	855.93	726.89	129.04	6.633		
11,200.00	7,361.68	11,124.06	7,359.23	68.48	63.30	-89.84	66.52	3,985.75	858.69	726.51	132.17	6.497		
11,300.00	7,361.81	11,224.02	7,359.12	70.10	64.83	-89.82	68.34	4,085.69	861.44	726.12	135.32	6.366		
11,400.00	7,361.95	11,323.98	7,359.01	71.72	66.36	-89.81	70.16	4,185.64	864.19	725.72	138.47	6.241		
11,500.00	7,362.08	11,423.95	7,358.90	73.35	67.90	-89.79	71.98	4,285.58	866.94	725.31	141.63	6.121		
11,600.00	7,362.21	11,523.91	7,358.79	74.97	69.44	-89.78	73.80	4,385.53	869.70	724.89	144.80	6.006		
11,700.00	7,362.35	11,623.87	7,358.67	76.60	70.99	-89.76	75.62	4,485.47	872.45	724.47	147.98	5.896		
11,800.00	7,362.48	11,723.83	7,358.56	78.23	72.54	-89.75	77.45	4,585.42	875.20	724.04	151.17	5.790		
11,900.00	7,362.61	11,823.79	7,358.45	79.86	74.10	-89.73	79.27	4,685.36	877.95	723.60	154.36	5.688		
12,000.00	7,362.75	11,923.75	7,358.34	81.50	75.67	-89.72	81.09	4,785.31	880.71	723.15	157.56	5.590		
12,100.00	7,362.88	12,023.72	7,358.23	83.13	77.24	-89.70	82.91	4,885.25	883.46	722.70	160.76	5.496		
12,200.00	7,363.02	12,123.68	7,358.12	84.77	78.81	-89.69	84.73	4,985.20	886.21	722.24	163.97	5.405		
12,300.00	7,363.15	12,223.64	7,358.01	86.41	80.39	-89.67	86.55	5,085.14	888.96	721.78	167.18	5.317		
12,400.00	7,363.28	12,323.60	7,357.90	88.05	81.97	-89.66	88.37	5,185.09	891.72	721.32	170.40	5.233		
12,500.00	7,363.42	12,423.56	7,357.79	89.69	83.55	-89.64	90.20	5,285.03	894.47	720.84	173.63	5.152		
12,600.00	7,363.55	12,523.53	7,357.68	91.33	85.14	-89.63	92.02	5,384.98	897.22	720.37	176.85	5.073		
12,700.00	7,363.69	12,623.49	7,357.56	92.97	86.73	-89.61	93.84	5,484.92	899.98	719.89	180.09	4.997		
12,800.00	7,363.82	12,723.45	7,357.45	94.61	88.32	-89.60	95.66	5,584.87	902.73	719.41	183.32	4.924		
12,900.00	7,363.95	12,823.41	7,357.34	96.26	89.92	-89.58	97.48	5,684.82	905.48	718.92	186.56	4.853		
13,000.00	7,364.09	12,923.37	7,357.23	97.90	91.52	-89.57	99.30	5,784.76	908.24	718.43	189.81	4.785		
13,100.00	7,364.22	13,023.33	7,357.12	99.55	93.12	-89.56	101.12	5,884.71	910.99	717.93	193.05	4.719		
13,200.00	7,364.35	13,123.30	7,357.01	101.20	94.72	-89.54	102.94	5,984.65	913.74	717.44	196.31	4.655		
13,300.00	7,364.49	13,223.26	7,356.90	102.85	96.33	-89.53	104.77	6,084.60	916.50	716.94	199.56	4.593		
13,400.00	7,364.62	13,323.22	7,356.79	104.50	97.93	-89.51	106.59	6,184.54	919.25	716.44	202.81	4.532		
13,500.00	7,364.76	13,423.18	7,356.68	106.15	99.54	-89.50	108.41	6,284.49	922.00	715.93	206.07	4.474		
13,600.00	7,364.89	13,523.15	7,356.55	107.80	101.13	-89.48	110.23	6,384.44	924.75	715.42	209.32	4.412		
13,700.00	7,365.02	13,623.11	7,356.42	109.45	102.74	-89.47	112.05	6,484.39	927.50	714.91	212.57	4.350		
13,800.00	7,365.16	13,723.07	7,356.31	111.10	104.35	-89.45	113.87	6,584.34	930.25	714.40	215.82	4.288		
13,900.00	7,365.29	13,823.03	7,356.20	112.75	106.00	-89.44	115.69	6,684.29	933.00	713.89	219.07	4.226		
14,000.00	7,365.43	13,923.00	7,356.09	114.41	107.66	-89.42	117.51	6,784.24	935.75	713.38	222.32	4.164		
14,100.00	7,365.56	14,023.00	7,355.98	116.06	109.31	-89.40	119.33	6,884.19	938.50	712.87	225.57	4.102		
14,200.00	7,365.69	14,123.00	7,355.87	117.71	111.02	-89.39	121.15	6,984.14	941.25	712.36	228.82	4.040		
14,300.00	7,365.83	14,223.00	7,355.75	119.37	112.77	-89.37	122.97	7,084.09	944.00	711.85	232.07	3.978		
14,400.00	7,365.96	14,323.00	7,355.64	121.02	114.48	-89.36	124.79	7,184.04	946.75	711.34	235.32	3.916		
14,500.00	7,366.09	14,423.00	7,355.53	122.68	116.19	-89.34	126.61	7,284.00	949.50	710.83	238.57	3.854		
14,600.00	7,366.23	14,523.00	7,355.42	124.33	117.90	-89.33	128.43	7,384.00	952.25	710.32	241.82	3.792		
14,700.00	7,366.36	14,623.00	7,355.31	125.99	119.61	-89.31	130.25	7,484.00	955.00	709.81	245.07	3.730		
14,800.00	7,366.50	14,723.00	7,355.20	127.65	121.32	-89.29	132.07	7,584.00	957.75	709.30	248.32	3.668		
14,900.00	7,366.63	14,823.00	7,355.09	129.31	123.03	-89.28	133.89	7,684.00	960.50	708.79	251.57	3.606		
15,000.00	7,366.76	14,923.00	7,354.98	130.96	124.74	-89.26	135.71	7,784.00	963.25	708.28	254.82	3.544		
15,100.00	7,366.90	15,023.00	7,354.87	132.62	126.45	-89.25	137.53	7,884.00	966.00	707.77	258.07	3.482		
15,200.00	7,367.03	15,123.00	7,354.76	134.28	128.16	-89.23	139.35	7,984.00	968.75	707.26	261.32	3.420		
15,300.00	7,367.16	15,223.00	7,354.65	135.94	129.87	-89.22	141.17	8,084.00	971.50	706.75	264.57	3.358		
15,400.00	7,367.30	15,323.00	7,354.53	137.60	131.58	-89.20	142.99	8,184.00	974.25	706.24	267.82	3.296		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
15,500.00	7,367.43	15,454.04	7,354.42	139.26	132.62	-89.18	81.67	8,315.11	913.87	641.48	272.38	3.355		
15,600.00	7,367.57	15,554.04	7,354.31	140.92	134.26	-89.17	80.14	8,415.09	913.28	637.59	275.68	3.313		
15,700.00	7,367.70	15,654.03	7,354.20	142.58	135.91	-89.15	78.62	8,515.08	912.69	633.70	278.98	3.271		
15,800.00	7,367.83	15,754.03	7,354.09	144.24	137.55	-89.14	77.10	8,615.07	912.10	629.81	282.29	3.231		
15,900.00	7,367.97	15,854.03	7,353.98	145.90	139.19	-89.12	75.57	8,715.05	911.51	625.92	285.59	3.192		
16,000.00	7,368.10	15,954.03	7,353.87	147.56	140.83	-89.10	74.05	8,815.04	910.92	622.02	288.89	3.153		
16,100.00	7,368.24	16,054.03	7,353.76	149.22	142.48	-89.09	72.53	8,915.03	910.33	618.13	292.20	3.115		
16,200.00	7,368.37	16,154.02	7,353.65	150.88	144.12	-89.07	71.01	9,015.01	909.74	614.23	295.51	3.079		
16,300.00	7,368.50	16,254.02	7,353.54	152.54	145.77	-89.06	69.48	9,115.00	909.15	610.34	298.81	3.043		
16,400.00	7,368.64	16,354.02	7,353.43	154.21	147.42	-89.04	67.96	9,214.98	908.56	606.44	302.12	3.007		
16,500.00	7,368.77	16,454.02	7,353.31	155.87	149.06	-89.02	66.44	9,314.97	907.97	602.54	305.43	2.973		
16,600.00	7,368.90	16,554.02	7,353.20	157.53	150.71	-89.01	64.91	9,414.96	907.38	598.64	308.74	2.939		
16,700.00	7,369.04	16,654.01	7,353.09	159.19	152.36	-88.99	63.39	9,514.94	906.79	594.74	312.05	2.906		
16,800.00	7,369.17	16,754.01	7,352.98	160.86	154.01	-88.98	61.87	9,614.93	906.20	590.85	315.36	2.874		
16,900.00	7,369.31	16,854.01	7,352.87	162.52	155.66	-88.96	60.35	9,714.92	905.62	586.94	318.67	2.842		
17,000.00	7,369.44	16,954.01	7,352.76	164.18	157.31	-88.94	58.82	9,814.90	905.03	583.04	321.98	2.811		
17,100.00	7,369.57	17,054.01	7,352.65	165.84	158.96	-88.93	57.30	9,914.89	904.44	579.14	325.30	2.780		
17,200.00	7,369.71	17,154.00	7,352.54	167.51	160.61	-88.91	55.78	10,014.87	903.85	575.24	328.61	2.751		
17,300.00	7,369.84	17,254.00	7,352.43	169.17	162.26	-88.89	54.25	10,114.86	903.26	571.34	331.92	2.721		
17,400.00	7,369.97	17,354.00	7,352.32	170.84	163.91	-88.88	52.73	10,214.85	902.67	567.44	335.24	2.693		
17,500.00	7,370.11	17,454.00	7,352.21	172.50	165.56	-88.86	51.21	10,314.83	902.08	563.53	338.55	2.665		
17,600.00	7,370.24	17,553.99	7,352.09	174.16	167.21	-88.85	49.68	10,414.82	901.50	559.63	341.87	2.637		
17,700.00	7,370.38	17,653.99	7,351.98	175.83	168.87	-88.83	48.16	10,514.81	900.91	555.72	345.18	2.610		
17,800.00	7,370.51	17,753.99	7,351.87	177.49	170.52	-88.81	46.64	10,614.79	900.32	551.82	348.50	2.583		
17,900.00	7,370.64	17,853.99	7,351.76	179.16	172.17	-88.80	45.12	10,714.78	899.73	547.91	351.82	2.557		
18,000.00	7,370.78	17,953.99	7,351.65	180.82	173.83	-88.78	43.59	10,814.76	899.14	544.01	355.14	2.532		
18,100.00	7,370.91	18,053.98	7,351.54	182.49	175.48	-88.76	42.07	10,914.75	898.56	540.10	358.45	2.507		
18,200.00	7,371.05	18,153.98	7,351.43	184.15	177.14	-88.75	40.55	11,014.74	897.97	536.19	361.77	2.482		
18,300.00	7,371.18	18,253.98	7,351.32	185.82	178.79	-88.73	39.02	11,114.72	897.38	532.29	365.09	2.458		
18,400.00	7,371.31	18,353.98	7,351.21	187.48	180.45	-88.71	37.50	11,214.71	896.79	528.38	368.41	2.434		
18,500.00	7,371.45	18,453.98	7,351.10	189.15	182.10	-88.70	35.98	11,314.70	896.20	524.47	371.73	2.411		
18,600.00	7,371.58	18,553.97	7,350.99	190.82	183.76	-88.68	34.45	11,414.68	895.62	520.57	375.05	2.388		
18,700.00	7,371.71	18,653.97	7,350.88	192.48	185.41	-88.67	32.93	11,514.67	895.03	516.66	378.37	2.365		
18,800.00	7,371.85	18,753.97	7,350.76	194.15	187.07	-88.65	31.41	11,614.66	894.44	512.75	381.69	2.343		
18,900.00	7,371.98	18,853.97	7,350.65	195.81	188.73	-88.63	29.89	11,714.64	893.85	508.84	385.01	2.322		
19,000.00	7,372.12	18,953.97	7,350.54	197.48	190.39	-88.62	28.36	11,814.63	893.27	504.93	388.34	2.300		
19,100.00	7,372.25	19,053.96	7,350.43	199.15	192.04	-88.60	26.84	11,914.61	892.68	501.02	391.66	2.279		
19,200.00	7,372.38	19,153.96	7,350.32	200.81	193.70	-88.58	25.32	12,014.60	892.09	497.11	394.98	2.259		
19,300.00	7,372.52	19,253.96	7,350.21	202.48	195.36	-88.57	23.79	12,114.59	891.51	493.20	398.30	2.238		
19,400.00	7,372.65	19,353.96	7,350.10	204.14	197.02	-88.55	22.27	12,214.57	890.92	489.29	401.63	2.218		
19,500.00	7,372.79	19,453.96	7,349.99	205.81	198.68	-88.53	20.75	12,314.56	890.33	485.38	404.95	2.199		
19,600.00	7,372.92	19,553.95	7,349.88	207.48	200.33	-88.52	19.22	12,414.55	889.75	481.47	408.27	2.179		
19,700.00	7,373.05	19,653.95	7,349.77	209.15	201.99	-88.50	17.70	12,514.53	889.16	477.56	411.60	2.160		
19,800.00	7,373.19	19,753.95	7,349.66	210.81	203.65	-88.48	16.18	12,614.52	888.57	473.65	414.92	2.142		
19,900.00	7,373.32	19,853.95	7,349.54	212.48	205.31	-88.47	14.66	12,714.50	887.99	469.74	418.25	2.123		
20,000.00	7,373.45	19,953.95	7,349.43	214.15	206.97	-88.45	13.13	12,814.49	887.40	465.83	421.57	2.105		
20,100.00	7,373.59	20,053.94	7,349.32	215.81	208.63	-88.43	11.61	12,914.48	886.81	461.92	424.90	2.087		
20,200.00	7,373.72	20,153.94	7,349.21	217.48	210.29	-88.41	10.09	13,014.46	886.23	458.01	428.22	2.070		
20,300.00	7,373.86	20,253.94	7,349.10	219.15	211.95	-88.40	8.56	13,114.45	885.64	454.09	431.55	2.052		
20,395.35	7,373.98	20,349.29	7,349.00	220.74	213.54	-88.38	7.11	13,209.79	885.08	450.36	434.72	2.036		
20,400.00	7,373.99	20,344.81	7,349.00	220.82	213.46	-88.38	7.18	13,205.31	885.10	450.40	434.70	2.036		
20,407.86	7,374.00	20,344.81	7,349.00	220.95	213.46	-88.38	7.18	13,205.31	885.17	450.39	434.78	2.036 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	-0.40	80.15	-0.56	80.15				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	80.15	-0.56	80.15	72.62	7.53	10.646	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	80.15	-0.56	80.15	72.58	7.57	10.583 CC, ES	
300.00	299.98	300.47	300.46	3.34	3.34	174.89	79.63	-1.27	81.38	73.73	7.65	10.635	
400.00	399.84	400.35	400.34	3.40	3.40	174.64	79.03	-2.10	86.00	78.23	7.77	11.067	
500.00	499.45	500.02	500.01	3.49	3.48	174.60	78.42	-2.93	94.09	86.15	7.94	11.857	
600.00	598.74	600.62	599.36	3.60	3.58	174.74	77.82	-3.76	105.38	97.24	8.15	12.938	
700.00	697.94	701.34	698.64	3.74	3.70	174.89	77.22	-4.59	117.33	108.94	8.38	13.994	
800.00	797.15	802.05	797.92	3.91	3.84	175.02	76.62	-5.42	129.28	120.62	8.66	14.930	
900.00	896.35	902.77	897.19	4.10	3.99	175.12	76.02	-6.24	141.22	132.26	8.96	15.753	
1,000.00	995.55	1,003.49	996.47	4.31	4.15	175.21	75.42	-7.07	153.17	143.87	9.30	16.472	
1,100.00	1,094.76	1,104.20	1,095.75	4.53	4.33	175.28	74.82	-7.90	165.12	155.46	9.66	17.096	
1,200.00	1,193.96	1,204.92	1,195.03	4.77	4.51	175.35	74.22	-8.72	177.07	167.03	10.04	17.638	
1,300.00	1,293.17	1,305.64	1,294.31	5.02	4.71	175.40	73.61	-9.55	189.01	178.58	10.44	18.106	
1,400.00	1,392.37	1,406.35	1,393.58	5.28	4.91	175.45	73.01	-10.38	200.96	190.11	10.86	18.511	
1,500.00	1,491.58	1,507.07	1,492.86	5.55	5.12	175.50	72.41	-11.21	212.91	201.62	11.29	18.860	
1,600.00	1,590.78	1,607.79	1,592.14	5.83	5.34	175.53	71.81	-12.03	224.86	213.13	11.73	19.163	
1,700.00	1,689.99	1,708.50	1,691.42	6.12	5.56	175.57	71.21	-12.86	236.81	224.62	12.19	19.425	
1,800.00	1,789.19	1,809.22	1,790.70	6.41	5.77	175.60	70.61	-13.69	248.76	236.28	12.48	19.940	
1,900.00	1,888.40	1,909.94	1,889.98	6.56	5.88	175.63	70.01	-14.51	260.71	248.21	12.50	20.855	
2,000.00	1,987.60	1,989.35	1,989.25	6.59	5.89	175.66	69.41	-15.34	272.66	260.13	12.53	21.766	
2,100.00	2,086.81	2,088.63	2,088.53	6.64	5.92	175.68	68.81	-16.17	284.61	272.03	12.58	22.623	
2,200.00	2,186.01	2,187.91	2,187.81	6.70	5.95	175.70	68.21	-16.99	296.55	283.89	12.66	23.423	
2,300.00	2,285.22	2,287.20	2,287.09	6.77	6.00	175.72	67.61	-17.82	308.50	295.74	12.77	24.164	
2,400.00	2,384.42	2,386.48	2,386.37	6.86	6.06	175.74	67.00	-18.65	320.45	307.55	12.90	24.843	
2,500.00	2,483.63	2,485.76	2,485.64	6.96	6.14	175.76	66.40	-19.48	332.40	319.35	13.06	25.461	
2,600.00	2,582.83	2,585.05	2,584.92	7.08	6.22	175.78	65.80	-20.30	344.35	331.12	13.24	26.018	
2,700.00	2,682.04	2,684.33	2,684.20	7.21	6.31	175.79	65.20	-21.13	356.30	342.86	13.44	26.515	
2,800.00	2,781.24	2,783.62	2,783.48	7.34	6.42	175.81	64.60	-21.96	368.25	354.59	13.66	26.954	
2,900.00	2,880.45	2,882.90	2,882.76	7.50	6.54	175.82	64.00	-22.78	380.20	366.29	13.91	27.339	
3,000.00	2,979.65	2,982.18	2,982.04	7.66	6.66	175.83	63.40	-23.61	392.15	377.98	14.17	27.673	
3,100.00	3,078.86	3,081.47	3,081.31	7.83	6.79	175.84	62.80	-24.44	404.10	389.65	14.45	27.960	
3,200.00	3,178.06	3,180.75	3,180.59	8.01	6.93	175.85	62.20	-25.27	416.05	401.30	14.75	28.202	
3,300.00	3,277.27	3,280.03	3,279.87	8.20	7.08	175.87	61.60	-26.09	428.00	412.93	15.07	28.404	
3,400.00	3,376.47	3,379.32	3,379.15	8.39	7.24	175.88	61.00	-26.92	439.95	424.55	15.40	28.570	
3,500.00	3,475.68	3,478.60	3,478.43	8.60	7.40	175.88	60.39	-27.75	451.90	436.15	15.74	28.703	
3,600.00	3,574.88	3,577.88	3,577.70	8.81	7.57	175.89	59.79	-28.57	463.85	447.74	16.10	28.807	
3,700.00	3,674.09	3,677.17	3,676.98	9.02	7.75	175.90	59.19	-29.40	475.80	459.32	16.47	28.885	
3,800.00	3,773.29	3,776.45	3,776.26	9.25	7.93	175.91	58.59	-30.23	487.75	470.89	16.85	28.939	
3,900.00	3,872.50	3,875.73	3,875.54	9.48	8.12	175.92	57.99	-31.06	499.70	482.45	17.25	28.974	
4,000.00	3,971.70	3,975.02	3,974.82	9.71	8.31	175.93	57.39	-31.88	511.64	494.00	17.65	28.990	
4,100.00	4,070.91	4,074.30	4,074.10	9.95	8.50	175.93	56.79	-32.71	523.59	505.53	18.06	28.991	
4,200.00	4,170.11	4,173.58	4,173.37	10.19	8.70	175.94	56.19	-33.54	535.54	517.06	18.48	28.978	
4,300.00	4,269.32	4,272.87	4,272.65	10.44	8.91	175.95	55.59	-34.36	547.49	528.58	18.91	28.954	
4,400.00	4,368.52	4,372.15	4,371.93	10.69	9.11	175.95	54.99	-35.19	559.44	540.10	19.35	28.919	
4,500.00	4,467.73	4,471.43	4,471.21	10.95	9.33	175.96	54.39	-36.02	571.39	551.60	19.79	28.876	
4,600.00	4,566.93	4,570.72	4,570.49	11.21	9.54	175.96	53.78	-36.85	583.34	563.10	20.24	28.825	
4,700.00	4,666.14	4,670.00	4,669.76	11.47	9.76	175.97	53.18	-37.67	595.29	574.60	20.69	28.768	
4,800.00	4,765.34	4,769.28	4,769.04	11.73	9.98	175.97	52.58	-38.50	607.24	586.09	21.15	28.706	
4,900.00	4,864.55	4,868.57	4,868.32	12.00	10.20	175.98	51.98	-39.33	619.19	597.57	21.62	28.640	
5,000.00	4,963.75	4,967.85	4,967.60	12.27	10.43	175.98	51.38	-40.15	631.14	609.05	22.09	28.570	
5,100.00	5,062.96	5,067.13	5,066.88	12.54	10.65	175.99	50.78	-40.98	643.09	620.52	22.57	28.497	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
5,200.00	5,162.16	5,166.42	5,166.16	12.81	10.88	175.99	50.18	-41.81	655.04	631.99	23.05	28.422		
5,300.00	5,261.37	5,265.70	5,265.43	13.09	11.11	176.00	49.58	-42.63	666.99	643.46	23.53	28.344		
5,400.00	5,360.57	5,364.99	5,364.71	13.37	11.35	176.00	48.98	-43.46	678.94	654.92	24.02	28.266		
5,500.00	5,459.78	5,464.27	5,463.99	13.65	11.58	176.00	48.38	-44.29	690.89	666.38	24.51	28.186		
5,600.00	5,558.98	5,563.55	5,563.27	13.93	11.82	176.01	47.77	-45.12	702.84	677.83	25.01	28.106		
5,700.00	5,658.18	5,662.84	5,662.55	14.21	12.06	176.01	47.17	-45.94	714.79	689.28	25.51	28.025		
5,800.00	5,757.39	5,762.12	5,761.83	14.50	12.30	176.02	46.57	-46.77	726.74	700.73	26.01	27.945		
5,900.00	5,856.59	5,861.40	5,861.10	14.79	12.54	176.02	45.97	-47.60	738.69	712.18	26.51	27.864		
6,000.00	5,955.80	5,960.69	5,960.38	15.07	12.78	176.02	45.37	-48.42	750.64	723.62	27.02	27.783		
6,100.00	6,055.00	6,059.97	6,059.66	15.36	13.03	176.03	44.77	-49.25	762.59	735.06	27.53	27.703		
6,200.00	6,154.21	6,159.25	6,158.94	15.65	13.27	176.03	44.17	-50.08	774.54	746.50	28.04	27.624		
6,300.00	6,253.41	6,258.54	6,258.22	15.94	13.52	176.03	43.57	-50.91	786.49	757.93	28.55	27.545		
6,400.00	6,352.62	6,357.82	6,357.49	16.24	13.77	176.04	42.97	-51.73	798.44	769.37	29.07	27.467		
6,500.00	6,451.82	6,457.79	6,457.40	16.53	13.98	176.24	42.31	-49.71	810.36	780.81	29.55	27.422		
6,600.00	6,551.03	6,555.41	6,553.62	16.83	14.17	177.41	41.44	-33.88	822.35	792.36	29.99	27.419		
6,700.00	6,650.23	6,646.07	6,639.85	17.12	14.35	179.36	40.41	-6.17	835.27	804.86	30.41	27.469		
6,800.00	6,749.44	6,727.63	6,713.38	17.41	14.52	-155.31	39.33	29.00	850.36	819.56	30.80	27.612		
6,900.00	6,847.87	6,804.37	6,777.91	17.64	14.67	-111.49	38.20	70.40	866.89	835.76	31.13	27.845		
7,000.00	6,943.29	6,878.45	6,835.06	17.88	14.83	-95.17	37.01	117.47	883.68	852.23	31.46	28.093		
7,100.00	7,033.35	6,950.00	6,884.70	18.10	15.01	-86.61	35.79	168.93	899.89	868.12	31.77	28.321		
7,200.00	7,115.82	7,020.86	6,927.87	18.32	15.25	-81.04	34.53	225.06	914.76	882.63	32.13	28.469		
7,300.00	7,188.68	7,089.99	6,963.73	18.52	15.55	-77.11	33.26	284.11	927.64	895.10	32.54	28.503		
7,400.00	7,250.14	7,158.14	6,992.60	18.71	15.91	-74.27	31.99	345.80	938.00	904.94	33.06	28.375		
7,500.00	7,298.67	7,225.54	7,014.51	18.92	16.34	-72.28	30.72	409.49	945.42	911.71	33.70	28.051		
7,600.00	7,333.08	7,292.39	7,029.47	19.20	16.81	-71.02	29.48	474.60	949.58	915.09	34.50	27.526		
7,700.00	7,352.53	7,358.87	7,037.49	19.62	17.34	-70.42	28.26	540.55	950.31	914.85	35.45	26.806		
7,800.00	7,357.04	7,436.36	7,038.99	20.23	18.02	-70.37	26.88	617.99	947.53	910.85	36.68	25.832		
7,900.00	7,357.17	7,536.27	7,038.93	21.00	18.98	-70.27	25.11	717.89	943.55	905.22	38.33	24.616		
8,000.00	7,357.31	7,636.17	7,038.87	21.89	20.03	-70.17	23.34	817.78	939.58	899.42	40.17	23.391		
8,100.00	7,357.45	7,736.08	7,038.82	22.89	21.16	-70.07	21.57	917.67	935.62	893.45	42.17	22.188		
8,200.00	7,357.58	7,835.99	7,038.76	23.96	22.36	-69.97	19.80	1,017.56	931.65	887.35	44.31	21.028		
8,300.00	7,357.72	7,935.90	7,038.70	25.11	23.62	-69.87	18.04	1,117.45	927.69	881.13	46.56	19.923		
8,400.00	7,357.86	8,035.81	7,038.65	26.31	24.93	-69.76	16.27	1,217.35	923.73	874.81	48.92	18.881		
8,500.00	7,357.99	8,151.57	7,038.58	27.56	26.49	-69.63	13.73	1,333.08	919.46	867.84	51.62	17.812		
8,600.00	7,358.13	8,252.71	7,038.52	28.86	27.90	-69.48	9.93	1,434.15	913.64	859.48	54.16	16.869		
8,700.00	7,358.27	8,352.51	7,038.47	30.19	29.31	-69.33	6.17	1,533.88	907.83	851.09	56.74	16.000		
8,800.00	7,358.40	8,452.32	7,038.41	31.55	30.76	-69.18	2.42	1,633.61	902.03	842.65	59.37	15.193		
8,900.00	7,358.54	8,552.12	7,038.36	32.95	32.22	-69.03	-1.34	1,733.34	896.23	834.18	62.05	14.444		
9,000.00	7,358.68	8,651.92	7,038.30	34.36	33.71	-68.87	-5.09	1,833.08	890.43	825.67	64.76	13.749		
9,100.00	7,358.81	8,751.72	7,038.25	35.80	35.21	-68.71	-8.85	1,932.81	884.65	817.14	67.51	13.104		
9,200.00	7,358.95	8,851.53	7,038.19	37.26	36.73	-68.55	-12.60	2,032.54	878.87	808.58	70.29	12.504		
9,300.00	7,359.09	8,951.33	7,038.14	38.73	38.26	-68.39	-16.36	2,132.27	873.10	800.01	73.09	11.946		
9,400.00	7,359.23	9,051.13	7,038.08	40.22	39.80	-68.23	-20.12	2,232.00	867.33	791.43	75.91	11.426		
9,500.00	7,359.36	9,150.93	7,038.03	41.72	41.35	-68.06	-23.87	2,331.74	861.57	782.83	78.74	10.941		
9,600.00	7,359.50	9,250.74	7,037.97	43.24	42.91	-67.89	-27.63	2,431.47	855.82	774.23	81.60	10.489		
9,700.00	7,359.64	9,350.54	7,037.92	44.77	44.48	-67.72	-31.38	2,531.20	850.08	765.62	84.46	10.065		
9,800.00	7,359.77	9,450.34	7,037.86	46.30	46.05	-67.54	-35.14	2,630.93	844.35	757.01	87.34	9.668		
9,900.00	7,359.91	9,550.14	7,037.81	47.85	47.64	-67.37	-38.89	2,730.66	838.62	748.40	90.22	9.295		
10,000.00	7,360.05	9,649.95	7,037.75	49.40	49.22	-67.19	-42.65	2,830.39	832.90	739.79	93.11	8.945		
10,100.00	7,360.18	9,749.75	7,037.70	50.96	50.82	-67.01	-46.41	2,930.13	827.19	731.18	96.00	8.616		
10,200.00	7,360.32	9,849.55	7,037.64	52.53	52.42	-66.83	-50.16	3,029.86	821.48	722.58	98.90	8.306		
10,300.00	7,360.46	9,949.35	7,037.59	54.10	54.02	-66.64	-53.92	3,129.59	815.79	713.98	101.81	8.013		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
10,400.00	7,360.59	10,049.16	7,037.53	55.68	55.63	-66.45	-57.67	3,229.32	810.10	705.40	104.71	7.737		
10,500.00	7,360.73	10,148.96	7,037.48	57.26	57.24	-66.26	-61.43	3,329.05	804.43	696.81	107.61	7.475		
10,600.00	7,360.87	10,248.76	7,037.42	58.85	58.85	-66.07	-65.19	3,428.79	798.76	688.24	110.52	7.227		
10,700.00	7,361.00	10,348.56	7,037.37	60.44	60.47	-65.87	-68.94	3,528.52	793.10	679.68	113.42	6.993		
10,800.00	7,361.14	10,448.37	7,037.31	62.04	62.09	-65.67	-72.70	3,628.25	787.45	671.13	116.32	6.770		
10,900.00	7,361.28	10,548.26	7,037.26	63.64	63.71	-65.56	-76.46	3,728.07	783.42	664.17	119.25	6.569		
11,000.00	7,361.41	10,648.22	7,037.20	65.25	65.34	-65.46	-80.22	3,827.96	780.92	658.69	122.23	6.389		
11,100.00	7,361.54	10,748.18	7,037.15	66.86	66.97	-65.36	-83.98	3,927.85	778.42	653.22	125.20	6.217		
11,200.00	7,361.68	10,848.14	7,037.09	68.48	68.61	-65.26	-87.74	4,027.74	775.93	647.75	128.18	6.053		
11,300.00	7,361.81	10,948.10	7,037.04	70.10	70.24	-65.16	-91.50	4,127.63	773.43	642.28	131.16	5.897		
11,400.00	7,361.95	11,048.06	7,036.98	71.72	71.88	-65.06	-95.26	4,227.52	770.94	636.81	134.13	5.748		
11,500.00	7,362.08	11,148.02	7,036.93	73.35	73.51	-64.96	-99.03	4,327.40	768.45	631.34	137.11	5.605		
11,600.00	7,362.21	11,247.98	7,036.87	74.97	75.15	-64.85	-102.79	4,427.29	765.97	625.88	140.09	5.468		
11,700.00	7,362.35	11,347.94	7,036.82	76.60	76.79	-64.75	-106.55	4,527.18	763.48	620.42	143.07	5.337		
11,800.00	7,362.48	11,447.90	7,036.76	78.23	78.44	-64.65	-110.31	4,627.07	761.00	614.96	146.04	5.211		
11,900.00	7,362.61	11,547.86	7,036.70	79.86	80.08	-64.54	-114.07	4,726.96	758.52	609.51	149.01	5.090		
12,000.00	7,362.75	11,647.81	7,036.65	81.50	81.73	-64.44	-117.83	4,826.85	756.05	604.06	151.99	4.974		
12,100.00	7,362.88	11,738.89	7,036.60	83.13	83.22	-64.35	-121.02	4,917.86	753.84	599.04	154.81	4.870		
12,150.88	7,362.95	11,780.01	7,036.58	83.96	83.90	-64.33	-121.73	4,958.98	753.52	597.36	156.15	4.826		
12,200.00	7,363.02	11,819.72	7,036.55	84.77	84.55	-64.34	-121.86	4,998.69	753.82	596.38	157.44	4.788		
12,300.00	7,363.15	11,915.72	7,036.50	86.41	86.13	-64.38	-121.00	5,094.68	755.55	595.10	160.44	4.709		
12,400.00	7,363.28	12,015.70	7,036.45	88.05	87.77	-64.43	-120.05	5,194.66	757.32	593.77	163.55	4.630		
12,500.00	7,363.42	12,115.68	7,036.39	89.69	89.42	-64.48	-119.09	5,294.64	759.10	592.44	166.67	4.555		
12,600.00	7,363.55	12,215.66	7,036.33	91.33	91.06	-64.53	-118.14	5,394.62	760.88	591.10	169.78	4.481		
12,700.00	7,363.69	12,315.65	7,036.28	92.97	92.71	-64.57	-117.19	5,494.59	762.66	589.76	172.90	4.411		
12,800.00	7,363.82	12,415.63	7,036.22	94.61	94.36	-64.62	-116.24	5,594.57	764.44	588.42	176.03	4.343		
12,900.00	7,363.95	12,515.61	7,036.17	96.26	96.00	-64.67	-115.29	5,694.55	766.22	587.07	179.15	4.277		
13,000.00	7,364.09	12,615.59	7,036.11	97.90	97.65	-64.72	-114.34	5,794.53	768.00	585.72	182.28	4.213		
13,100.00	7,364.22	12,715.57	7,036.06	99.55	99.30	-64.76	-113.39	5,894.50	769.79	584.37	185.42	4.152		
13,200.00	7,364.35	12,815.56	7,036.00	101.20	100.95	-64.81	-112.44	5,994.48	771.57	583.02	188.55	4.092		
13,300.00	7,364.49	12,915.54	7,035.95	102.85	102.60	-64.86	-111.48	6,094.46	773.35	581.66	191.69	4.034		
13,400.00	7,364.62	13,015.52	7,035.89	104.50	104.25	-64.90	-110.53	6,194.44	775.14	580.31	194.83	3.979		
13,500.00	7,364.76	13,115.50	7,035.84	106.15	105.91	-64.95	-109.58	6,294.41	776.92	578.95	197.97	3.924		
13,600.00	7,364.89	13,215.48	7,035.78	107.80	107.56	-65.00	-108.63	6,394.39	778.70	577.59	201.12	3.872		
13,700.00	7,365.02	13,315.47	7,035.72	109.45	109.21	-65.04	-107.68	6,494.37	780.49	576.22	204.27	3.821		
13,800.00	7,365.16	13,415.45	7,035.67	111.10	110.87	-65.09	-106.73	6,594.35	782.28	574.86	207.42	3.772		
13,900.00	7,365.29	13,515.43	7,035.61	112.75	112.52	-65.13	-105.78	6,694.32	784.06	573.49	210.57	3.724		
14,000.00	7,365.43	13,615.41	7,035.56	114.41	114.18	-65.18	-104.82	6,794.30	785.85	572.12	213.72	3.677		
14,100.00	7,365.56	13,715.40	7,035.50	116.06	115.83	-65.22	-103.87	6,894.28	787.64	570.75	216.88	3.632		
14,200.00	7,365.69	13,815.38	7,035.45	117.71	117.49	-65.27	-102.92	6,994.26	789.42	569.38	220.04	3.588		
14,300.00	7,365.83	13,915.36	7,035.39	119.37	119.14	-65.31	-101.97	7,094.23	791.21	568.01	223.20	3.545		
14,400.00	7,365.96	14,015.34	7,035.34	121.02	120.80	-65.36	-101.02	7,194.21	793.00	566.64	226.36	3.503		
14,500.00	7,366.09	14,115.32	7,035.28	122.68	122.46	-65.40	-100.07	7,294.19	794.79	565.26	229.53	3.463		
14,600.00	7,366.23	14,215.31	7,035.23	124.33	124.11	-65.44	-99.12	7,394.17	796.58	563.88	232.70	3.423		
14,700.00	7,366.36	14,315.29	7,035.17	125.99	125.77	-65.49	-98.17	7,494.15	798.37	562.50	235.86	3.385		
14,800.00	7,366.50	14,415.27	7,035.11	127.65	127.43	-65.53	-97.21	7,594.12	800.16	561.12	239.04	3.347		
14,900.00	7,366.63	14,515.25	7,035.06	129.31	129.09	-65.58	-96.26	7,694.10	801.95	559.74	242.21	3.311		
15,000.00	7,366.76	14,615.23	7,035.00	130.96	130.74	-65.62	-95.31	7,794.08	803.74	558.36	245.38	3.275		
15,100.00	7,366.90	14,715.22	7,034.95	132.62	132.40	-65.66	-94.36	7,894.06	805.53	556.97	248.56	3.241		
15,200.00	7,367.03	14,815.20	7,034.89	134.28	134.06	-65.70	-93.41	7,994.03	807.32	555.59	251.74	3.207		
15,300.00	7,367.16	14,915.18	7,034.84	135.94	135.72	-65.75	-92.46	8,094.01	809.12	554.20	254.92	3.174		
15,400.00	7,367.30	15,015.16	7,034.78	137.60	137.38	-65.79	-91.51	8,193.99	810.91	552.81	258.10	3.142		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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
15,500.00	7,367.43	15,115.14	7,034.73	139.26	139.04	-65.83	-90.56	8,293.97	812.70	551.42	261.28	3.110	
15,600.00	7,367.57	15,215.13	7,034.67	140.92	140.70	-65.87	-89.60	8,393.94	814.50	550.03	264.46	3.080	
15,700.00	7,367.70	15,315.11	7,034.61	142.58	142.36	-65.92	-88.65	8,493.92	816.29	548.64	267.65	3.050	
15,800.00	7,367.83	15,415.09	7,034.56	144.24	144.02	-65.96	-87.70	8,593.90	818.09	547.25	270.84	3.021	
15,900.00	7,367.97	15,515.07	7,034.50	145.90	145.68	-66.00	-86.75	8,693.88	819.88	545.86	274.02	2.992	
16,000.00	7,368.10	15,615.06	7,034.45	147.56	147.34	-66.04	-85.80	8,793.85	821.68	544.46	277.22	2.964	
16,100.00	7,368.24	15,715.04	7,034.39	149.22	149.00	-66.08	-84.85	8,893.83	823.47	543.07	280.41	2.937	
16,200.00	7,368.37	15,815.02	7,034.34	150.88	150.67	-66.12	-83.90	8,993.81	825.27	541.67	283.60	2.910	
16,300.00	7,368.50	15,915.00	7,034.28	152.54	152.33	-66.16	-82.95	9,093.79	827.07	540.27	286.79	2.884	
16,400.00	7,368.64	16,014.98	7,034.23	154.21	153.99	-66.20	-81.99	9,193.76	828.86	538.87	289.99	2.858	
16,500.00	7,368.77	16,114.97	7,034.17	155.87	155.65	-66.24	-81.04	9,293.74	830.66	537.48	293.19	2.833	
16,600.00	7,368.90	16,214.95	7,034.12	157.53	157.31	-66.28	-80.09	9,393.72	832.46	536.08	296.39	2.809	
16,700.00	7,369.04	16,314.93	7,034.06	159.19	158.98	-66.32	-79.14	9,493.70	834.26	534.67	299.58	2.785	
16,800.00	7,369.17	16,414.91	7,034.00	160.86	160.64	-66.36	-78.19	9,593.67	836.06	533.27	302.79	2.761	
16,900.00	7,369.31	16,514.89	7,033.95	162.52	162.30	-66.40	-77.24	9,693.65	837.86	531.87	305.99	2.738	
17,000.00	7,369.44	16,614.88	7,033.89	164.18	163.96	-66.44	-76.29	9,793.63	839.66	530.47	309.19	2.716	
17,100.00	7,369.57	16,714.86	7,033.84	165.84	165.63	-66.48	-75.33	9,893.61	841.46	529.06	312.40	2.694	
17,200.00	7,369.71	16,814.84	7,033.78	167.51	167.29	-66.52	-74.38	9,993.59	843.26	527.66	315.60	2.672	
17,300.00	7,369.84	16,914.82	7,033.73	169.17	168.95	-66.56	-73.43	10,093.56	845.06	526.25	318.81	2.651	
17,400.00	7,369.97	17,014.81	7,033.67	170.84	170.62	-66.60	-72.48	10,193.54	846.86	524.84	322.02	2.630	
17,500.00	7,370.11	17,114.79	7,033.62	172.50	172.28	-66.64	-71.53	10,293.52	848.66	523.44	325.23	2.609	
17,600.00	7,370.24	17,214.77	7,033.56	174.16	173.94	-66.68	-70.58	10,393.50	850.46	522.03	328.44	2.589	
17,700.00	7,370.38	17,314.75	7,033.51	175.83	175.61	-66.71	-69.63	10,493.47	852.27	520.62	331.65	2.570	
17,800.00	7,370.51	17,414.73	7,033.45	177.49	177.27	-66.75	-68.68	10,593.45	854.07	519.21	334.86	2.551	
17,900.00	7,370.64	17,514.72	7,033.39	179.16	178.93	-66.79	-67.72	10,693.43	855.87	517.80	338.07	2.532	
18,000.00	7,370.78	17,614.70	7,033.34	180.82	180.60	-66.83	-66.77	10,793.41	857.68	516.39	341.29	2.513	
18,100.00	7,370.91	17,714.68	7,033.28	182.49	182.26	-66.87	-65.82	10,893.38	859.48	514.98	344.51	2.495	
18,200.00	7,371.05	17,814.66	7,033.23	184.15	183.93	-66.90	-64.87	10,993.36	861.29	513.56	347.72	2.477	
18,300.00	7,371.18	17,914.64	7,033.17	185.82	185.59	-66.94	-63.92	11,093.34	863.09	512.15	350.94	2.459	
18,400.00	7,371.31	18,014.63	7,033.12	187.48	187.26	-66.98	-62.97	11,193.32	864.90	510.74	354.16	2.442	
18,500.00	7,371.45	18,114.61	7,033.06	189.15	188.92	-67.02	-62.02	11,293.29	866.70	509.32	357.38	2.425	
18,600.00	7,371.58	18,214.59	7,033.01	190.82	190.59	-67.05	-61.07	11,393.27	868.51	507.91	360.60	2.409	
18,700.00	7,371.71	18,314.57	7,032.95	192.48	192.25	-67.09	-60.11	11,493.25	870.31	506.49	363.82	2.392	
18,800.00	7,371.85	18,414.56	7,032.89	194.15	193.92	-67.13	-59.16	11,593.23	872.12	505.07	367.05	2.376	
18,900.00	7,371.98	18,514.54	7,032.84	195.81	195.58	-67.16	-58.21	11,693.20	873.93	503.66	370.27	2.360	
19,000.00	7,372.12	18,614.52	7,032.78	197.48	197.25	-67.20	-57.26	11,793.18	875.73	502.24	373.49	2.345	
19,100.00	7,372.25	18,714.50	7,032.73	199.15	198.91	-67.24	-56.31	11,893.16	877.54	500.82	376.72	2.329	
19,200.00	7,372.38	18,814.48	7,032.67	200.81	200.58	-67.27	-55.36	11,993.14	879.35	499.40	379.95	2.314	
19,300.00	7,372.52	18,914.47	7,032.62	202.48	202.24	-67.31	-54.41	12,093.11	881.16	497.98	383.17	2.300	
19,400.00	7,372.65	19,014.45	7,032.56	204.14	203.91	-67.34	-53.46	12,193.09	882.97	496.56	386.40	2.285	
19,500.00	7,372.79	19,114.43	7,032.51	205.81	205.57	-67.38	-52.50	12,293.07	884.78	495.14	389.63	2.271	
19,600.00	7,372.92	19,214.41	7,032.45	207.48	207.24	-67.41	-51.55	12,393.05	886.59	493.72	392.86	2.257	
19,700.00	7,373.05	19,314.39	7,032.40	209.15	208.90	-67.45	-50.60	12,493.02	888.39	492.30	396.09	2.243	
19,800.00	7,373.19	19,414.38	7,032.34	210.81	210.57	-67.49	-49.65	12,593.00	890.21	490.88	399.32	2.229	
19,900.00	7,373.32	19,514.36	7,032.28	212.48	212.24	-67.52	-48.70	12,692.98	892.02	489.46	402.56	2.216	
20,000.00	7,373.45	19,614.34	7,032.23	214.15	213.90	-67.55	-47.75	12,792.96	893.83	488.04	405.79	2.203	
20,100.00	7,373.59	19,714.32	7,032.17	215.81	215.57	-67.59	-46.80	12,892.94	895.64	486.61	409.03	2.190	
20,200.00	7,373.72	19,814.30	7,032.12	217.48	217.23	-67.62	-45.84	12,992.91	897.45	485.19	412.26	2.177	
20,300.00	7,373.86	19,914.29	7,032.06	219.15	218.90	-67.66	-44.89	13,092.89	899.26	483.76	415.50	2.164	
20,400.00	7,373.99	20,014.27	7,032.01	220.82	220.57	-67.69	-43.94	13,192.87	901.07	482.34	418.73	2.152	
20,407.86	7,374.00	20,022.13	7,032.00	220.95	220.70	-67.70	-43.87	13,200.73	901.21	482.23	418.99	2.151 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	-0.40	119.85	-0.84	119.86				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	119.85	-0.84	119.86	112.33	7.53	15.920	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	119.85	-0.84	119.86	112.28	7.57	15.825 CC, ES	
300.00	299.98	303.06	296.92	3.34	3.35	175.13	121.32	-1.34	123.11	115.45	7.66	16.071	
400.00	399.84	403.36	396.59	3.40	3.42	174.95	123.79	-2.19	130.80	123.01	7.79	16.792	
500.00	499.45	503.99	495.92	3.49	3.51	174.91	126.25	-3.04	141.96	133.99	7.96	17.824	
600.00	598.74	605.03	594.85	3.60	3.62	174.98	128.70	-3.88	156.31	148.12	8.18	19.099	
700.00	697.94	706.16	693.69	3.74	3.74	175.07	131.15	-4.72	171.30	162.87	8.43	20.321	
800.00	797.15	807.29	792.52	3.91	3.89	175.15	133.59	-5.57	186.30	177.59	8.71	21.388	
900.00	896.35	908.43	891.35	4.10	4.04	175.22	136.04	-6.41	201.30	192.28	9.02	22.311	
1,000.00	995.55	1,009.56	990.19	4.31	4.21	175.28	138.49	-7.25	216.31	206.94	9.36	23.105	
1,100.00	1,094.76	1,089.31	1,089.02	4.53	4.35	175.32	140.94	-8.10	231.31	221.62	9.69	23.878	
1,200.00	1,193.96	1,188.18	1,187.86	4.77	4.54	175.37	143.38	-8.94	246.31	236.24	10.07	24.469	
1,300.00	1,293.17	1,287.05	1,286.69	5.02	4.73	175.41	145.83	-9.78	261.31	250.84	10.46	24.972	
1,400.00	1,392.37	1,385.92	1,385.53	5.28	4.93	175.44	148.28	-10.62	276.31	265.43	10.88	25.400	
1,500.00	1,491.58	1,484.78	1,484.36	5.55	5.14	175.47	150.72	-11.47	291.31	280.00	11.31	25.763	
1,600.00	1,590.78	1,583.65	1,583.20	5.83	5.35	175.50	153.17	-12.31	306.31	294.56	11.75	26.072	
1,700.00	1,689.99	1,682.52	1,682.03	6.12	5.57	175.53	155.62	-13.15	321.31	309.11	12.20	26.333	
1,800.00	1,789.19	1,781.39	1,780.86	6.41	5.79	175.55	158.07	-13.99	336.31	323.65	12.66	26.555	
1,900.00	1,888.40	1,880.26	1,879.70	6.56	5.93	175.57	160.51	-14.84	351.31	338.77	12.55	27.996	
2,000.00	1,987.60	1,979.13	1,978.53	6.59	5.96	175.59	162.96	-15.68	366.32	353.72	12.60	29.077	
2,100.00	2,086.81	2,077.99	2,077.37	6.64	5.98	175.61	165.41	-16.52	381.32	368.67	12.65	30.142	
2,200.00	2,186.01	2,176.86	2,176.20	6.70	6.02	175.62	167.85	-17.36	396.32	383.59	12.73	31.134	
2,300.00	2,285.22	2,275.73	2,275.04	6.77	6.07	175.64	170.30	-18.21	411.32	398.49	12.83	32.049	
2,400.00	2,384.42	2,374.60	2,373.87	6.86	6.13	175.65	172.75	-19.05	426.32	413.36	12.96	32.885	
2,500.00	2,483.63	2,473.47	2,472.71	6.96	6.20	175.67	175.20	-19.89	441.32	428.20	13.12	33.642	
2,600.00	2,582.83	2,572.34	2,571.54	7.08	6.28	175.68	177.64	-20.73	456.32	443.03	13.30	34.320	
2,700.00	2,682.04	2,671.20	2,670.37	7.21	6.37	175.69	180.09	-21.58	471.33	457.83	13.50	34.923	
2,800.00	2,781.24	2,770.07	2,769.21	7.34	6.47	175.70	182.54	-22.42	486.33	472.61	13.72	35.452	
2,900.00	2,880.45	2,868.94	2,868.04	7.50	6.59	175.71	184.98	-23.26	501.33	487.37	13.96	35.912	
3,000.00	2,979.65	2,967.81	2,966.88	7.66	6.71	175.72	187.43	-24.10	516.33	502.11	14.22	36.307	
3,100.00	3,078.86	3,066.68	3,065.71	7.83	6.84	175.73	189.88	-24.95	531.33	516.83	14.50	36.641	
3,200.00	3,178.06	3,165.55	3,164.55	8.01	6.97	175.74	192.32	-25.79	546.33	531.54	14.80	36.920	
3,300.00	3,277.27	3,264.41	3,263.38	8.20	7.12	175.75	194.77	-26.63	561.34	546.22	15.11	37.148	
3,400.00	3,376.47	3,363.28	3,362.22	8.39	7.27	175.75	197.22	-27.47	576.34	560.90	15.44	37.330	
3,500.00	3,475.68	3,462.15	3,461.05	8.60	7.43	175.76	199.67	-28.32	591.34	575.56	15.78	37.472	
3,600.00	3,574.88	3,561.02	3,559.88	8.81	7.60	175.77	202.11	-29.16	606.34	590.20	16.14	37.576	
3,700.00	3,674.09	3,659.89	3,658.72	9.02	7.77	175.78	204.56	-30.00	621.34	604.84	16.50	37.648	
3,800.00	3,773.29	3,758.76	3,757.55	9.25	7.95	175.78	207.01	-30.85	636.34	619.46	16.88	37.691	
3,900.00	3,872.50	3,857.62	3,856.39	9.48	8.14	175.79	209.45	-31.69	651.35	634.07	17.27	37.709	
4,000.00	3,971.70	3,956.49	3,955.22	9.71	8.32	175.79	211.90	-32.53	666.35	648.67	17.67	37.705	
4,100.00	4,070.91	4,055.36	4,054.06	9.95	8.52	175.80	214.35	-33.37	681.35	663.27	18.08	37.681	
4,200.00	4,170.11	4,154.23	4,152.89	10.19	8.71	175.80	216.80	-34.22	696.35	677.85	18.50	37.641	
4,300.00	4,269.32	4,253.10	4,251.73	10.44	8.92	175.81	219.24	-35.06	711.35	692.43	18.93	37.586	
4,400.00	4,368.52	4,351.97	4,350.56	10.69	9.12	175.81	221.69	-35.90	726.35	706.99	19.36	37.520	
4,500.00	4,467.73	4,450.83	4,449.39	10.95	9.33	175.82	224.14	-36.74	741.36	721.56	19.80	37.443	
4,600.00	4,566.93	4,549.70	4,548.23	11.21	9.54	175.82	226.58	-37.59	756.36	736.11	20.25	37.357	
4,700.00	4,666.14	4,648.57	4,647.06	11.47	9.76	175.83	229.03	-38.43	771.36	750.66	20.70	37.264	
4,800.00	4,765.34	4,747.44	4,745.90	11.73	9.97	175.83	231.48	-39.27	786.36	765.20	21.16	37.165	
4,900.00	4,864.55	4,846.31	4,844.73	12.00	10.20	175.84	233.92	-40.11	801.36	779.74	21.62	37.061	
5,000.00	4,963.75	4,945.18	4,943.57	12.27	10.42	175.84	236.37	-40.96	816.36	794.27	22.09	36.952	
5,100.00	5,062.96	5,044.04	5,042.40	12.54	10.64	175.84	238.82	-41.80	831.37	808.80	22.57	36.841	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,142.91	5,141.24	12.81	10.87	175.85	241.27	-42.64	846.37	823.32	23.04	36.727		
5,300.00	5,261.37	5,241.78	5,240.07	13.09	11.10	175.85	243.71	-43.48	861.37	837.84	23.53	36.612		
5,400.00	5,360.57	5,340.65	5,338.90	13.37	11.33	175.85	246.16	-44.33	876.37	852.36	24.01	36.495		
5,500.00	5,459.78	5,439.52	5,437.74	13.65	11.56	175.86	248.61	-45.17	891.37	866.87	24.50	36.377		
5,600.00	5,558.98	5,538.39	5,536.57	13.93	11.80	175.86	251.05	-46.01	906.37	881.38	25.00	36.259		
5,700.00	5,658.18	5,637.25	5,635.41	14.21	12.04	175.86	253.50	-46.85	921.38	895.88	25.49	36.141		
5,800.00	5,757.39	5,736.12	5,734.24	14.50	12.27	175.87	255.95	-47.70	936.38	910.38	25.99	36.024		
5,900.00	5,856.59	5,834.99	5,833.08	14.79	12.51	175.87	258.40	-48.54	951.38	924.88	26.50	35.906		
6,000.00	5,955.80	5,933.86	5,931.91	15.07	12.76	175.87	260.84	-49.38	966.38	939.38	27.00	35.790		
6,100.00	6,055.00	6,032.73	6,030.75	15.36	13.00	175.87	263.29	-50.22	981.38	953.87	27.51	35.675		
6,200.00	6,154.21	6,131.60	6,129.58	15.65	13.24	175.88	265.74	-51.07	996.39	968.37	28.02	35.560		
6,300.00	6,253.41	6,230.46	6,228.41	15.94	13.49	175.88	268.18	-51.91	1,011.39	982.85	28.53	35.447		
6,400.00	6,352.62	6,329.33	6,327.25	16.24	13.73	175.88	270.63	-52.75	1,026.39	997.34	29.05	35.335		
6,500.00	6,451.82	6,428.20	6,426.08	16.53	13.98	175.88	273.08	-53.60	1,041.39	1,011.83	29.56	35.225		
6,600.00	6,551.03	6,527.07	6,524.92	16.83	14.22	175.89	275.52	-54.44	1,056.39	1,026.31	30.08	35.116		
6,700.00	6,650.23	6,625.41	6,622.97	17.12	14.44	176.24	277.92	-48.76	1,071.41	1,040.84	30.57	35.052		
6,800.00	6,749.44	6,719.80	6,715.20	17.41	14.64	-159.77	280.11	-29.20	1,086.69	1,055.66	31.03	35.021		
6,900.00	6,847.87	6,810.66	6,800.32	17.64	14.85	-117.14	282.06	2.29	1,101.97	1,070.53	31.45	35.043		
7,000.00	6,943.29	6,899.10	6,878.06	17.88	15.07	-101.90	283.79	44.28	1,116.68	1,084.83	31.85	35.058		
7,100.00	7,033.35	6,985.56	6,947.72	18.10	15.31	-94.27	285.27	95.36	1,130.34	1,098.08	32.27	35.030		
7,200.00	7,115.82	7,070.40	7,008.75	18.32	15.59	-89.51	286.50	154.20	1,142.55	1,109.82	32.72	34.915		
7,300.00	7,188.68	7,153.94	7,060.67	18.52	15.93	-86.25	287.47	219.55	1,152.91	1,119.65	33.26	34.664		
7,400.00	7,250.14	7,236.43	7,103.13	18.71	16.33	-83.94	288.19	290.20	1,161.11	1,127.18	33.92	34.227		
7,500.00	7,298.67	7,318.12	7,135.83	18.92	16.80	-82.36	288.64	365.00	1,166.90	1,132.15	34.75	33.580		
7,600.00	7,333.08	7,399.21	7,158.56	19.20	17.33	-81.39	288.84	442.78	1,170.09	1,134.33	35.75	32.727		
7,700.00	7,352.53	7,479.90	7,171.19	19.62	17.94	-80.96	288.77	522.43	1,170.58	1,133.63	36.94	31.687		
7,800.00	7,357.04	7,565.11	7,173.96	20.23	18.64	-80.98	288.44	607.54	1,168.42	1,130.09	38.33	30.481		
7,900.00	7,357.17	7,665.06	7,173.77	21.00	19.56	-80.94	287.96	707.50	1,165.51	1,125.44	40.07	29.088		
8,000.00	7,357.31	7,765.02	7,173.59	21.89	20.57	-80.90	287.49	807.45	1,162.61	1,120.61	41.99	27.687		
8,100.00	7,357.45	7,864.97	7,173.41	22.89	21.66	-80.86	287.01	907.40	1,159.70	1,115.62	44.08	26.309		
8,200.00	7,357.58	7,964.93	7,173.23	23.96	22.82	-80.82	286.53	1,007.36	1,156.79	1,110.48	46.31	24.978		
8,300.00	7,357.72	8,064.88	7,173.04	25.11	24.04	-80.78	286.06	1,107.31	1,153.89	1,105.22	48.67	23.708		
8,400.00	7,357.86	8,164.84	7,172.86	26.31	25.31	-80.74	285.58	1,207.26	1,150.98	1,099.85	51.13	22.509		
8,500.00	7,357.99	8,264.79	7,172.68	27.56	26.62	-80.70	285.10	1,307.22	1,148.08	1,094.39	53.69	21.384		
8,600.00	7,358.13	8,364.74	7,172.50	28.86	27.98	-80.66	284.63	1,407.17	1,145.17	1,088.85	56.32	20.333		
8,700.00	7,358.27	8,464.70	7,172.32	30.19	29.36	-80.62	284.15	1,507.12	1,142.27	1,083.24	59.02	19.353		
8,800.00	7,358.40	8,564.65	7,172.13	31.55	30.78	-80.58	283.67	1,607.08	1,139.36	1,077.58	61.78	18.441		
8,900.00	7,358.54	8,664.61	7,171.95	32.95	32.22	-80.54	283.20	1,707.03	1,136.46	1,071.86	64.60	17.593		
9,000.00	7,358.68	8,764.56	7,171.77	34.36	33.68	-80.50	282.72	1,806.98	1,133.56	1,066.11	67.45	16.805		
9,100.00	7,358.81	8,864.52	7,171.59	35.80	35.16	-80.46	282.24	1,906.94	1,130.66	1,060.31	70.35	16.072		
9,200.00	7,358.95	8,964.47	7,171.41	37.26	36.66	-80.42	281.76	2,006.89	1,127.76	1,054.48	73.28	15.390		
9,300.00	7,359.09	9,064.43	7,171.22	38.73	38.17	-80.38	281.29	2,106.84	1,124.86	1,048.62	76.24	14.754		
9,400.00	7,359.23	9,164.38	7,171.04	40.22	39.69	-80.34	280.81	2,206.80	1,121.96	1,042.73	79.23	14.161		
9,500.00	7,359.36	9,264.34	7,170.86	41.72	41.23	-80.30	280.33	2,306.75	1,119.06	1,036.82	82.24	13.608		
9,600.00	7,359.50	9,364.29	7,170.68	43.24	42.77	-80.25	279.86	2,406.70	1,116.16	1,030.89	85.27	13.090		
9,700.00	7,359.64	9,464.25	7,170.50	44.77	44.33	-80.21	279.38	2,506.66	1,113.26	1,024.94	88.32	12.605		
9,800.00	7,359.77	9,564.20	7,170.31	46.30	45.89	-80.17	278.90	2,606.61	1,110.36	1,018.97	91.39	12.150		
9,900.00	7,359.91	9,664.15	7,170.13	47.85	47.46	-80.13	278.43	2,706.56	1,107.47	1,012.99	94.47	11.723		
10,000.00	7,360.05	9,764.11	7,169.95	49.40	49.04	-80.08	277.95	2,806.52	1,104.57	1,007.00	97.57	11.321		
10,100.00	7,360.18	9,864.06	7,169.77	50.96	50.62	-80.04	277.47	2,906.47	1,101.68	1,001.00	100.68	10.942		
10,200.00	7,360.32	9,964.02	7,169.59	52.53	52.21	-80.00	277.00	3,006.42	1,098.78	994.98	103.80	10.586		
10,300.00	7,360.46	10,063.97	7,169.40	54.10	53.80	-79.95	276.52	3,106.38	1,095.89	988.96	106.93	10.249		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
10,400.00	7,360.59	10,163.93	7,169.22	55.68	55.40	-79.91	276.04	3,206.33	1,092.99	982.92	110.07	9.930		
10,500.00	7,360.73	10,263.88	7,169.04	57.26	57.00	-79.87	275.57	3,306.28	1,090.10	976.88	113.22	9.628		
10,600.00	7,360.87	10,363.84	7,168.86	58.85	58.61	-79.82	275.09	3,406.24	1,087.21	970.84	116.37	9.343		
10,700.00	7,361.00	10,463.79	7,168.68	60.44	60.22	-79.78	274.61	3,506.19	1,084.32	964.78	119.53	9.071		
10,800.00	7,361.14	10,563.75	7,168.49	62.04	61.83	-79.73	274.14	3,606.14	1,081.42	958.72	122.70	8.813		
10,885.09	7,361.26	10,648.82	7,168.34	63.40	63.21	-79.71	273.73	3,691.22	1,080.21	954.80	125.41	8.614		
10,900.00	7,361.28	10,663.73	7,168.31	63.64	63.45	-79.71	273.66	3,706.13	1,080.28	954.39	125.88	8.582		
11,000.00	7,361.41	10,763.73	7,168.13	65.25	65.07	-79.70	273.18	3,806.12	1,080.78	951.70	129.08	8.373		
11,100.00	7,361.54	10,863.73	7,167.95	66.86	66.69	-79.69	272.70	3,906.12	1,081.28	949.00	132.28	8.174		
11,200.00	7,361.68	10,963.73	7,167.76	68.48	68.31	-79.67	272.23	4,006.12	1,081.78	946.30	135.48	7.985		
11,300.00	7,361.81	11,063.73	7,167.58	70.10	69.94	-79.66	271.75	4,106.12	1,082.28	943.59	138.69	7.803		
11,400.00	7,361.95	11,163.73	7,167.40	71.72	71.57	-79.65	271.27	4,206.11	1,082.79	940.88	141.91	7.630		
11,500.00	7,362.08	11,263.72	7,167.22	73.35	73.20	-79.64	270.80	4,306.11	1,083.29	938.16	145.13	7.464		
11,600.00	7,362.21	11,363.72	7,167.04	74.97	74.83	-79.63	270.32	4,406.11	1,083.79	935.44	148.35	7.306		
11,700.00	7,362.35	11,463.72	7,166.85	76.60	76.47	-79.61	269.84	4,506.10	1,084.29	932.72	151.58	7.154		
11,800.00	7,362.48	11,563.72	7,166.67	78.23	78.10	-79.60	269.37	4,606.10	1,084.80	929.99	154.80	7.008		
11,900.00	7,362.61	11,663.72	7,166.49	79.86	79.74	-79.59	268.89	4,706.10	1,085.30	927.26	158.04	6.867		
12,000.00	7,362.75	11,763.72	7,166.31	81.50	81.38	-79.58	268.41	4,806.10	1,085.80	924.53	161.27	6.733		
12,100.00	7,362.88	11,863.72	7,166.13	83.13	83.02	-79.56	267.93	4,906.09	1,086.30	921.79	164.51	6.603		
12,200.00	7,363.02	11,963.71	7,165.94	84.77	84.66	-79.55	267.46	5,006.09	1,086.81	919.06	167.75	6.479		
12,300.00	7,363.15	12,063.71	7,165.76	86.41	86.31	-79.54	266.98	5,106.09	1,087.31	916.32	170.99	6.359		
12,400.00	7,363.28	12,163.71	7,165.58	88.05	87.95	-79.53	266.50	5,206.08	1,087.81	913.57	174.24	6.243		
12,500.00	7,363.42	12,263.71	7,165.40	89.69	89.59	-79.52	266.03	5,306.08	1,088.31	910.83	177.48	6.132		
12,600.00	7,363.55	12,363.71	7,165.21	91.33	91.24	-79.50	265.55	5,406.08	1,088.82	908.08	180.73	6.024		
12,700.00	7,363.69	12,463.71	7,165.03	92.97	92.89	-79.49	265.07	5,506.08	1,089.32	905.34	183.98	5.921		
12,800.00	7,363.82	12,563.70	7,164.85	94.61	94.53	-79.48	264.60	5,606.07	1,089.82	902.59	187.23	5.821		
12,900.00	7,363.95	12,663.70	7,164.67	96.26	96.18	-79.47	264.12	5,706.07	1,090.32	899.84	190.49	5.724		
13,000.00	7,364.09	12,763.70	7,164.49	97.90	97.83	-79.46	263.64	5,806.07	1,090.83	897.08	193.74	5.630		
13,100.00	7,364.22	12,863.70	7,164.30	99.55	99.48	-79.44	263.16	5,906.07	1,091.33	894.33	197.00	5.540		
13,200.00	7,364.35	12,963.70	7,164.12	101.20	101.13	-79.43	262.69	6,006.06	1,091.83	891.57	200.26	5.452		
13,300.00	7,364.49	13,063.70	7,163.94	102.85	102.78	-79.42	262.21	6,106.06	1,092.34	888.82	203.52	5.367		
13,400.00	7,364.62	13,163.70	7,163.76	104.50	104.44	-79.41	261.73	6,206.06	1,092.84	886.06	206.78	5.285		
13,500.00	7,364.76	13,263.69	7,163.58	106.15	106.09	-79.40	261.26	6,306.05	1,093.34	883.30	210.04	5.205		
13,600.00	7,364.89	13,363.69	7,163.39	107.80	107.74	-79.39	260.78	6,406.05	1,093.84	880.54	213.31	5.128		
13,700.00	7,365.02	13,463.69	7,163.21	109.45	109.40	-79.37	260.30	6,506.05	1,094.35	877.78	216.57	5.053		
13,800.00	7,365.16	13,563.69	7,163.03	111.10	111.05	-79.36	259.83	6,606.05	1,094.85	875.02	219.83	4.980		
13,900.00	7,365.29	13,663.69	7,162.85	112.75	112.71	-79.35	259.35	6,706.04	1,095.35	872.25	223.10	4.910		
14,000.00	7,365.43	13,763.69	7,162.66	114.41	114.36	-79.34	258.87	6,806.04	1,095.86	869.49	226.37	4.841		
14,100.00	7,365.56	13,863.68	7,162.48	116.06	116.02	-79.33	258.39	6,906.04	1,096.36	866.73	229.64	4.774		
14,200.00	7,365.69	13,963.68	7,162.30	117.71	117.67	-79.31	257.92	7,006.03	1,096.86	863.96	232.90	4.709		
14,300.00	7,365.83	14,063.68	7,162.12	119.37	119.33	-79.30	257.44	7,106.03	1,097.37	861.19	236.17	4.646		
14,400.00	7,365.96	14,163.68	7,161.94	121.02	120.99	-79.29	256.96	7,206.03	1,097.87	858.43	239.44	4.585		
14,500.00	7,366.09	14,263.68	7,161.75	122.68	122.65	-79.28	256.49	7,306.03	1,098.37	855.66	242.72	4.525		
14,600.00	7,366.23	14,363.68	7,161.57	124.33	124.30	-79.27	256.01	7,406.02	1,098.88	852.89	245.99	4.467		
14,700.00	7,366.36	14,463.68	7,161.39	125.99	125.96	-79.25	255.53	7,506.02	1,099.38	850.12	249.26	4.411		
14,800.00	7,366.50	14,563.67	7,161.21	127.65	127.62	-79.24	255.05	7,606.02	1,099.89	847.35	252.53	4.355		
14,900.00	7,366.63	14,666.80	7,161.02	129.31	129.33	-79.23	254.40	7,709.14	1,100.23	844.37	255.86	4.300		
15,000.00	7,366.76	14,766.80	7,160.84	130.96	130.99	-79.21	253.63	7,809.14	1,100.45	841.32	259.14	4.247		
15,100.00	7,366.90	14,866.80	7,160.65	132.62	132.65	-79.20	252.87	7,909.13	1,100.67	838.26	262.41	4.195		
15,200.00	7,367.03	14,966.80	7,160.47	134.28	134.31	-79.19	252.10	8,009.13	1,100.89	835.21	265.68	4.144		
15,300.00	7,367.16	15,066.80	7,160.29	135.94	135.97	-79.17	251.33	8,109.13	1,101.11	832.16	268.96	4.094		
15,400.00	7,367.30	15,166.80	7,160.11	137.60	137.63	-79.16	250.57	8,209.12	1,101.33	829.10	272.23	4.046		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
15,500.00	7,367.43	15,266.80	7,159.93	139.26	139.30	-79.14	249.80	8,309.12	1,101.55	826.05	275.50	3.998		
15,600.00	7,367.57	15,366.80	7,159.74	140.92	140.96	-79.13	249.03	8,409.12	1,101.77	822.99	278.78	3.952		
15,700.00	7,367.70	15,466.80	7,159.56	142.58	142.62	-79.11	248.27	8,509.11	1,101.99	819.94	282.05	3.907		
15,800.00	7,367.83	15,566.79	7,159.38	144.24	144.28	-79.10	247.50	8,609.11	1,102.21	816.88	285.33	3.863		
15,900.00	7,367.97	15,666.79	7,159.20	145.90	145.94	-79.08	246.73	8,709.10	1,102.43	813.83	288.61	3.820		
16,000.00	7,368.10	15,766.79	7,159.01	147.56	147.61	-79.07	245.97	8,809.10	1,102.65	810.77	291.88	3.778		
16,100.00	7,368.24	15,866.79	7,158.83	149.22	149.27	-79.05	245.20	8,909.10	1,102.87	807.71	295.16	3.737		
16,200.00	7,368.37	15,966.79	7,158.65	150.88	150.93	-79.04	244.44	9,009.09	1,103.09	804.66	298.43	3.696		
16,300.00	7,368.50	16,066.79	7,158.47	152.54	152.59	-79.03	243.67	9,109.09	1,103.31	801.60	301.71	3.657		
16,400.00	7,368.64	16,166.79	7,158.28	154.21	154.26	-79.01	242.90	9,209.09	1,103.53	798.54	304.99	3.618		
16,500.00	7,368.77	16,266.79	7,158.10	155.87	155.92	-79.00	242.14	9,309.08	1,103.75	795.49	308.27	3.581		
16,600.00	7,368.90	16,366.79	7,157.92	157.53	157.59	-78.98	241.37	9,409.08	1,103.97	792.43	311.54	3.544		
16,700.00	7,369.04	16,466.79	7,157.74	159.19	159.25	-78.97	240.60	9,509.07	1,104.20	789.37	314.82	3.507		
16,800.00	7,369.17	16,566.79	7,157.56	160.86	160.91	-78.95	239.84	9,609.07	1,104.42	786.32	318.10	3.472		
16,900.00	7,369.31	16,666.79	7,157.37	162.52	162.58	-78.94	239.07	9,709.07	1,104.64	783.26	321.38	3.437		
17,000.00	7,369.44	16,766.79	7,157.19	164.18	164.24	-78.92	238.30	9,809.06	1,104.86	780.20	324.65	3.403		
17,100.00	7,369.57	16,866.79	7,157.01	165.84	165.91	-78.91	237.54	9,909.06	1,105.08	777.15	327.93	3.370		
17,200.00	7,369.71	16,966.79	7,156.83	167.51	167.57	-78.90	236.77	10,009.06	1,105.30	774.09	331.21	3.337		
17,300.00	7,369.84	17,066.79	7,156.64	169.17	169.24	-78.88	236.00	10,109.05	1,105.52	771.03	334.49	3.305		
17,400.00	7,369.97	17,166.78	7,156.46	170.84	170.90	-78.87	235.24	10,209.05	1,105.74	767.97	337.77	3.274		
17,500.00	7,370.11	17,266.78	7,156.28	172.50	172.57	-78.85	234.47	10,309.04	1,105.96	764.92	341.05	3.243		
17,600.00	7,370.24	17,366.78	7,156.10	174.16	174.23	-78.84	233.71	10,409.04	1,106.19	761.86	344.32	3.213		
17,700.00	7,370.38	17,466.78	7,155.91	175.83	175.90	-78.82	232.94	10,509.04	1,106.41	758.80	347.60	3.183		
17,800.00	7,370.51	17,566.78	7,155.73	177.49	177.56	-78.81	232.17	10,609.03	1,106.63	755.75	350.88	3.154		
17,900.00	7,370.64	17,666.78	7,155.55	179.16	179.23	-78.79	231.41	10,709.03	1,106.85	752.69	354.16	3.125		
18,000.00	7,370.78	17,766.78	7,155.37	180.82	180.89	-78.78	230.64	10,809.03	1,107.07	749.63	357.44	3.097		
18,100.00	7,370.91	17,866.78	7,155.19	182.49	182.56	-78.77	229.87	10,909.02	1,107.29	746.57	360.72	3.070		
18,200.00	7,371.05	17,966.78	7,155.00	184.15	184.23	-78.75	229.11	11,009.02	1,107.51	743.52	364.00	3.043		
18,300.00	7,371.18	18,066.78	7,154.82	185.82	185.89	-78.74	228.34	11,109.01	1,107.74	740.46	367.28	3.016		
18,400.00	7,371.31	18,166.78	7,154.64	187.48	187.56	-78.72	227.57	11,209.01	1,107.96	737.40	370.56	2.990		
18,500.00	7,371.45	18,266.78	7,154.46	189.15	189.23	-78.71	226.81	11,309.01	1,108.18	734.35	373.83	2.964		
18,600.00	7,371.58	18,366.78	7,154.27	190.82	190.89	-78.69	226.04	11,409.00	1,108.40	731.29	377.11	2.939		
18,700.00	7,371.71	18,466.78	7,154.09	192.48	192.56	-78.68	225.27	11,509.00	1,108.62	728.23	380.39	2.914		
18,800.00	7,371.85	18,566.78	7,153.91	194.15	194.23	-78.67	224.51	11,609.00	1,108.85	725.18	383.67	2.890		
18,900.00	7,371.98	18,666.78	7,153.73	195.81	195.89	-78.65	223.74	11,708.99	1,109.07	722.12	386.95	2.866		
19,000.00	7,372.12	18,766.77	7,153.54	197.48	197.56	-78.64	222.98	11,808.99	1,109.29	719.06	390.23	2.843		
19,100.00	7,372.25	18,866.77	7,153.36	199.15	199.23	-78.62	222.21	11,908.98	1,109.51	716.01	393.51	2.820		
19,200.00	7,372.38	18,966.77	7,153.18	200.81	200.89	-78.61	221.44	12,008.98	1,109.74	712.95	396.79	2.797		
19,300.00	7,372.52	19,066.77	7,153.00	202.48	202.56	-78.59	220.68	12,108.98	1,109.96	709.89	400.06	2.774		
19,400.00	7,372.65	19,166.77	7,152.82	204.14	204.23	-78.58	219.91	12,208.97	1,110.18	706.84	403.34	2.752		
19,500.00	7,372.79	19,266.77	7,152.63	205.81	205.90	-78.56	219.14	12,308.97	1,110.40	703.78	406.62	2.731		
19,600.00	7,372.92	19,366.77	7,152.45	207.48	207.56	-78.55	218.38	12,408.97	1,110.63	700.73	409.90	2.710		
19,700.00	7,373.05	19,466.77	7,152.27	209.15	209.23	-78.54	217.61	12,508.96	1,110.85	697.67	413.18	2.689		
19,800.00	7,373.19	19,566.77	7,152.09	210.81	210.90	-78.52	216.84	12,608.96	1,111.07	694.62	416.46	2.668		
19,900.00	7,373.32	19,666.77	7,151.90	212.48	212.57	-78.51	216.08	12,708.95	1,111.30	691.56	419.73	2.648		
20,000.00	7,373.45	19,766.77	7,151.72	214.15	214.23	-78.49	215.31	12,808.95	1,111.52	688.51	423.01	2.628		
20,100.00	7,373.59	19,866.77	7,151.54	215.81	215.90	-78.48	214.54	12,908.95	1,111.74	685.45	426.29	2.608		
20,200.00	7,373.72	19,966.77	7,151.36	217.48	217.57	-78.46	213.78	13,008.94	1,111.96	682.40	429.57	2.589		
20,300.00	7,373.86	20,066.77	7,151.17	219.15	219.24	-78.45	213.01	13,108.94	1,112.19	679.34	432.85	2.569		
20,400.00	7,373.99	20,166.77	7,150.99	220.82	220.91	-78.44	212.25	13,208.94	1,112.41	676.29	436.12	2.551 SF		
20,407.86	7,374.00	20,162.47	7,151.00	220.95	220.83	-78.44	212.28	13,204.64	1,112.50	676.36	436.13	2.551		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	-0.27	60.10	-0.28	60.11					
100.00	100.00	100.00	100.00	3.28	3.28	-0.27	60.10	-0.28	60.11	52.58	7.53	7.983		
200.00	200.00	200.00	200.00	3.31	3.31	-0.27	60.10	-0.28	60.11	52.53	7.57	7.936		
300.00	299.98	302.09	302.07	3.34	3.35	175.20	58.33	-0.66	60.10	52.45	7.65	7.856		
315.07	315.04	317.48	317.44	3.35	3.35	175.13	57.75	-0.78	60.10	52.44	7.66	7.841	CC, ES	
400.00	399.84	402.18	402.09	3.40	3.40	174.85	54.66	-1.44	61.66	53.90	7.76	7.943		
500.00	499.45	502.05	501.89	3.49	3.48	174.80	50.99	-2.22	66.69	58.77	7.92	8.418		
600.00	598.74	601.71	601.48	3.60	3.58	174.98	47.34	-2.99	74.94	66.81	8.13	9.221		
700.00	697.94	701.31	701.01	3.74	3.70	175.17	43.68	-3.77	83.84	75.47	8.36	10.025		
800.00	797.15	800.92	800.54	3.91	3.83	175.32	40.03	-4.55	92.74	84.10	8.63	10.740		
900.00	896.35	900.52	900.08	4.10	3.98	175.45	36.37	-5.32	101.63	92.70	8.94	11.371		
1,000.00	995.55	1,000.12	999.61	4.31	4.15	175.55	32.72	-6.10	110.54	101.27	9.27	11.925		
1,100.00	1,094.76	1,100.28	1,099.14	4.53	4.33	175.64	29.06	-6.88	119.44	109.81	9.63	12.406		
1,200.00	1,193.96	1,200.67	1,198.67	4.77	4.52	175.72	25.41	-7.65	128.34	118.33	10.01	12.824		
1,300.00	1,293.17	1,301.07	1,298.21	5.02	4.72	175.79	21.75	-8.43	137.24	126.83	10.41	13.186		
1,400.00	1,392.37	1,401.47	1,397.74	5.28	4.92	175.85	18.10	-9.21	146.14	135.31	10.83	13.500		
1,500.00	1,491.58	1,501.86	1,497.27	5.55	5.14	175.90	14.44	-9.98	155.04	143.78	11.26	13.772		
1,600.00	1,590.78	1,602.26	1,596.81	5.83	5.36	175.95	10.79	-10.76	163.94	152.24	11.70	14.009		
1,700.00	1,689.99	1,702.66	1,696.34	6.12	5.59	175.99	7.13	-11.54	172.84	160.68	12.16	14.214		
1,800.00	1,789.19	1,803.05	1,795.87	6.41	5.82	176.03	3.48	-12.32	181.75	169.29	12.45	14.595		
1,900.00	1,888.40	1,903.45	1,895.40	6.56	5.93	176.06	-0.18	-13.09	190.65	178.16	12.48	15.271		
2,000.00	1,987.60	2,003.85	1,994.94	6.59	5.95	176.09	-3.83	-13.87	199.55	187.04	12.51	15.948		
2,100.00	2,086.81	2,104.25	2,094.47	6.64	5.98	176.12	-7.49	-14.65	208.45	195.88	12.57	16.585		
2,200.00	2,186.01	2,195.36	2,194.00	6.70	6.01	176.15	-11.14	-15.42	217.35	204.70	12.65	17.185		
2,300.00	2,285.22	2,305.04	2,293.54	6.77	6.07	176.17	-14.80	-16.20	226.25	213.49	12.76	17.729		
2,400.00	2,384.42	2,405.44	2,393.07	6.86	6.14	176.19	-18.45	-16.98	235.16	222.26	12.90	18.233		
2,500.00	2,483.63	2,505.83	2,492.60	6.96	6.22	176.22	-22.11	-17.75	244.06	231.00	13.06	18.691		
2,600.00	2,582.83	2,606.23	2,592.13	7.08	6.31	176.23	-25.76	-18.53	252.96	239.72	13.24	19.103		
2,700.00	2,682.04	2,706.63	2,691.67	7.21	6.41	176.25	-29.42	-19.31	261.86	248.41	13.45	19.470		
2,800.00	2,781.24	2,807.03	2,791.20	7.34	6.53	176.27	-33.07	-20.08	270.76	257.09	13.68	19.795		
2,900.00	2,880.45	2,907.42	2,890.73	7.50	6.65	176.28	-36.73	-20.86	279.67	265.74	13.93	20.079		
3,000.00	2,979.65	3,007.82	2,990.27	7.66	6.78	176.30	-40.39	-21.64	288.57	274.37	14.20	20.324		
3,100.00	3,078.86	3,108.22	3,089.80	7.83	6.92	176.31	-44.04	-22.42	297.47	282.98	14.49	20.535		
3,200.00	3,178.06	3,208.61	3,189.33	8.01	7.07	176.33	-47.70	-23.19	306.37	291.58	14.79	20.712		
3,300.00	3,277.27	3,309.01	3,288.86	8.20	7.23	176.34	-51.35	-23.97	315.28	300.16	15.11	20.860		
3,400.00	3,376.47	3,409.41	3,388.40	8.39	7.40	176.35	-55.01	-24.75	324.18	308.73	15.45	20.982		
3,500.00	3,475.68	3,509.80	3,487.93	8.60	7.57	176.36	-58.66	-25.52	333.08	317.28	15.80	21.079		
3,600.00	3,574.88	3,589.80	3,587.46	8.81	7.71	176.37	-62.32	-26.30	341.98	325.85	16.13	21.202		
3,700.00	3,674.09	3,689.40	3,687.00	9.02	7.89	176.38	-65.97	-27.08	350.88	334.38	16.50	21.261		
3,800.00	3,773.29	3,789.00	3,786.53	9.25	8.08	176.39	-69.63	-27.85	359.79	342.90	16.89	21.302		
3,900.00	3,872.50	3,888.61	3,886.06	9.48	8.28	176.40	-73.28	-28.63	368.69	351.40	17.29	21.329		
4,000.00	3,971.70	3,988.21	3,985.59	9.71	8.47	176.41	-76.94	-29.41	377.59	359.90	17.69	21.343		
4,100.00	4,070.91	4,087.81	4,085.13	9.95	8.68	176.42	-80.59	-30.18	386.49	368.39	18.11	21.345		
4,200.00	4,170.11	4,187.42	4,184.66	10.19	8.88	176.42	-84.25	-30.96	395.40	376.86	18.53	21.337		
4,300.00	4,269.32	4,287.02	4,284.19	10.44	9.09	176.43	-87.90	-31.74	404.30	385.33	18.96	21.320		
4,400.00	4,368.52	4,386.62	4,383.73	10.69	9.31	176.44	-91.56	-32.51	413.20	393.80	19.40	21.296		
4,500.00	4,467.73	4,486.23	4,483.26	10.95	9.53	176.45	-95.21	-33.29	422.10	402.25	19.85	21.265		
4,600.00	4,566.93	4,585.83	4,582.79	11.21	9.75	176.45	-98.87	-34.07	431.00	410.70	20.30	21.229		
4,700.00	4,666.14	4,685.43	4,682.32	11.47	9.97	176.46	-102.52	-34.85	439.91	419.15	20.76	21.189		
4,800.00	4,765.34	4,785.03	4,781.86	11.73	10.20	176.47	-106.18	-35.62	448.81	427.58	21.23	21.144		
4,900.00	4,864.55	4,884.64	4,881.39	12.00	10.43	176.47	-109.83	-36.40	457.71	436.02	21.70	21.097		
5,000.00	4,963.75	4,984.24	4,980.92	12.27	10.66	176.48	-113.49	-37.18	466.61	444.44	22.17	21.047		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
5,100.00	5,062.96	5,083.84	5,080.46	12.54	10.89	176.48	-117.14	-37.95	475.52	452.87	22.65	20.994		
5,200.00	5,162.16	5,183.45	5,179.99	12.81	11.13	176.49	-120.80	-38.73	484.42	461.28	23.13	20.940		
5,300.00	5,261.37	5,283.05	5,279.52	13.09	11.37	176.49	-124.45	-39.51	493.32	469.70	23.62	20.884		
5,400.00	5,360.57	5,382.65	5,379.05	13.37	11.61	176.50	-128.11	-40.28	502.22	478.11	24.11	20.828		
5,500.00	5,459.78	5,482.25	5,478.59	13.65	11.85	176.50	-131.76	-41.06	511.13	486.52	24.61	20.770		
5,600.00	5,558.98	5,581.86	5,578.12	13.93	12.09	176.51	-135.42	-41.84	520.03	494.92	25.11	20.712		
5,700.00	5,658.18	5,681.46	5,677.65	14.21	12.34	176.51	-139.07	-42.61	528.93	503.32	25.61	20.654		
5,800.00	5,757.39	5,781.06	5,777.19	14.50	12.59	176.51	-142.73	-43.39	537.83	511.72	26.11	20.596		
5,900.00	5,856.59	5,880.67	5,876.72	14.79	12.83	176.52	-146.38	-44.17	546.73	520.11	26.62	20.538		
6,000.00	5,955.80	5,980.27	5,976.25	15.07	13.08	176.52	-150.04	-44.95	555.64	528.51	27.13	20.480		
6,100.00	6,055.00	6,079.87	6,075.78	15.36	13.33	176.53	-153.69	-45.72	564.54	536.90	27.64	20.422		
6,200.00	6,154.21	6,179.48	6,175.32	15.65	13.59	176.53	-157.35	-46.50	573.44	545.28	28.16	20.365		
6,300.00	6,253.41	6,279.08	6,274.85	15.94	13.84	176.53	-161.00	-47.28	582.34	553.67	28.68	20.308		
6,400.00	6,352.62	6,378.68	6,374.38	16.24	14.09	176.54	-164.66	-48.05	591.25	562.05	29.20	20.251		
6,500.00	6,451.82	6,478.28	6,473.91	16.53	14.35	176.54	-168.31	-48.83	600.15	570.43	29.72	20.196		
6,600.00	6,551.03	6,577.89	6,573.45	16.83	14.60	176.54	-171.97	-49.61	609.05	578.81	30.24	20.141		
6,700.00	6,650.23	6,677.49	6,672.98	17.12	14.86	176.55	-175.62	-50.38	617.95	587.19	30.76	20.086		
6,800.00	6,749.44	6,776.62	6,772.00	17.41	15.10	-160.59	-179.27	-49.11	626.84	595.58	31.26	20.050		
6,900.00	6,847.87	6,874.99	6,869.10	17.64	15.31	-119.42	-182.94	-34.46	635.30	603.62	31.68	20.052		
7,000.00	6,943.29	6,973.01	6,962.47	17.88	15.52	-105.54	-186.57	-5.15	643.00	610.93	32.07	20.050		
7,100.00	7,033.35	7,070.75	7,049.99	18.10	15.73	-99.17	-190.07	37.99	649.75	617.31	32.45	20.024		
7,200.00	7,115.82	7,168.25	7,129.71	18.32	15.92	-95.55	-193.37	93.87	655.39	622.53	32.86	19.947		
7,300.00	7,188.68	7,265.57	7,199.84	18.52	16.11	-93.26	-196.40	161.13	659.77	626.42	33.35	19.783		
7,400.00	7,250.14	7,362.74	7,258.85	18.71	16.30	-91.78	-199.08	238.18	662.78	628.79	33.99	19.498		
7,500.00	7,298.67	7,459.82	7,305.42	18.92	16.67	-90.86	-201.36	323.22	664.35	629.52	34.84	19.069		
7,600.00	7,333.08	7,556.84	7,338.52	19.20	17.22	-90.38	-203.18	414.30	664.44	628.52	35.92	18.496		
7,700.00	7,352.53	7,653.82	7,357.41	19.62	17.90	-90.28	-204.50	509.32	663.05	625.80	37.25	17.801		
7,800.00	7,357.04	7,751.43	7,361.99	20.23	18.69	-90.43	-205.32	606.74	660.25	621.46	38.79	17.023		
7,900.00	7,357.17	7,851.38	7,361.94	21.00	19.60	-90.41	-205.98	706.69	657.07	616.51	40.56	16.199		
8,000.00	7,357.31	7,951.33	7,361.88	21.89	20.60	-90.40	-206.64	806.64	653.89	611.36	42.52	15.377		
8,100.00	7,357.45	8,051.28	7,361.83	22.89	21.68	-90.38	-207.30	906.58	650.71	606.05	44.65	14.573		
8,200.00	7,357.58	8,151.23	7,361.77	23.96	22.84	-90.37	-207.96	1,006.53	647.53	600.60	46.92	13.800		
8,300.00	7,357.72	8,251.18	7,361.71	25.11	24.05	-90.35	-208.63	1,106.48	644.34	595.03	49.32	13.065		
8,400.00	7,357.86	8,351.13	7,361.66	26.31	25.32	-90.34	-209.29	1,206.42	641.16	589.35	51.82	12.374		
8,500.00	7,357.99	8,451.07	7,361.60	27.56	26.63	-90.32	-209.95	1,306.37	637.98	583.58	54.41	11.726		
8,600.00	7,358.13	8,551.02	7,361.55	28.86	27.98	-90.31	-210.61	1,406.32	634.80	577.73	57.08	11.122		
8,700.00	7,358.27	8,650.97	7,361.49	30.19	29.37	-90.29	-211.27	1,506.27	631.62	571.81	59.81	10.560		
8,800.00	7,358.40	8,750.92	7,361.44	31.55	30.78	-90.27	-211.93	1,606.21	628.44	565.83	62.61	10.038		
8,900.00	7,358.54	8,850.87	7,361.38	32.95	32.22	-90.26	-212.59	1,706.16	625.26	559.80	65.46	9.552		
9,000.00	7,358.68	8,950.82	7,361.33	34.36	33.67	-90.24	-213.26	1,806.11	622.08	553.73	68.35	9.102		
9,100.00	7,358.81	9,050.77	7,361.27	35.80	35.15	-90.22	-213.92	1,906.05	618.90	547.62	71.28	8.683		
9,200.00	7,358.95	9,150.72	7,361.21	37.26	36.65	-90.21	-214.58	2,006.00	615.72	541.47	74.25	8.293		
9,300.00	7,359.09	9,250.67	7,361.16	38.73	38.15	-90.19	-215.24	2,105.95	612.54	535.29	77.24	7.930		
9,400.00	7,359.23	9,350.62	7,361.10	40.22	39.68	-90.17	-215.90	2,205.89	609.36	529.09	80.27	7.592		
9,500.00	7,359.36	9,450.57	7,361.05	41.72	41.21	-90.16	-216.56	2,305.84	606.18	522.86	83.31	7.276		
9,600.00	7,359.50	9,550.52	7,360.99	43.24	42.75	-90.14	-217.22	2,405.79	603.00	516.61	86.38	6.980		
9,700.00	7,359.64	9,650.47	7,360.94	44.77	44.31	-90.12	-217.88	2,505.74	599.81	510.34	89.47	6.704		
9,800.00	7,359.77	9,750.42	7,360.88	46.30	45.87	-90.10	-218.55	2,605.68	596.63	504.06	92.58	6.445		
9,900.00	7,359.91	9,850.36	7,360.83	47.85	47.44	-90.09	-219.21	2,705.63	593.45	497.75	95.70	6.201		
10,000.00	7,360.05	9,950.31	7,360.77	49.40	49.01	-90.07	-219.87	2,805.58	590.27	491.44	98.84	5.972		
10,100.00	7,360.18	10,050.26	7,360.72	50.96	50.60	-90.05	-220.53	2,905.52	587.09	485.11	101.99	5.757		
10,200.00	7,360.32	10,150.21	7,360.66	52.53	52.18	-90.03	-221.19	3,005.47	583.91	478.77	105.15	5.553		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
10,300.00	7,360.46	10,250.16	7,360.60	54.10	53.78	-90.01	-221.85	3,105.42	580.73	472.41	108.32	5.361		
10,400.00	7,360.59	10,350.11	7,360.55	55.68	55.37	-89.99	-222.51	3,205.36	577.55	466.05	111.50	5.180		
10,500.00	7,360.73	10,450.06	7,360.49	57.26	56.97	-89.97	-223.17	3,305.31	574.37	459.68	114.69	5.008		
10,600.00	7,360.87	10,550.01	7,360.44	58.85	58.58	-89.95	-223.84	3,405.26	571.19	453.30	117.89	4.845		
10,700.00	7,361.00	10,649.96	7,360.38	60.44	60.19	-89.93	-224.50	3,505.21	568.01	446.92	121.10	4.691		
10,800.00	7,361.14	10,749.91	7,360.33	62.04	61.80	-89.91	-225.16	3,605.15	564.84	440.53	124.31	4.544		
10,892.19	7,361.27	10,842.09	7,360.28	63.51	63.29	-89.90	-225.77	3,697.33	563.38	436.10	127.28	4.426		
10,900.00	7,361.28	10,849.89	7,360.27	63.64	63.42	-89.90	-225.82	3,705.14	563.43	435.90	127.53	4.418		
11,000.00	7,361.41	10,949.89	7,360.22	65.25	65.04	-89.88	-226.48	3,805.13	563.70	432.94	130.76	4.311		
11,100.00	7,361.54	11,049.89	7,360.16	66.86	66.66	-89.86	-227.14	3,905.13	563.96	429.97	134.00	4.209		
11,200.00	7,361.68	11,149.89	7,360.10	68.48	68.28	-89.84	-227.80	4,005.13	564.23	426.99	137.24	4.111		
11,300.00	7,361.81	11,249.89	7,360.05	70.10	69.91	-89.82	-228.47	4,105.12	564.50	424.02	140.49	4.018		
11,400.00	7,361.95	11,349.89	7,359.99	71.72	71.54	-89.80	-229.13	4,205.12	564.77	421.03	143.74	3.929		
11,500.00	7,362.08	11,449.89	7,359.94	73.35	73.17	-89.78	-229.79	4,305.12	565.04	418.05	146.99	3.844		
11,600.00	7,362.21	11,549.89	7,359.88	74.97	74.80	-89.76	-230.45	4,405.12	565.31	415.06	150.25	3.762		
11,700.00	7,362.35	11,649.89	7,359.83	76.60	76.43	-89.74	-231.11	4,505.11	565.58	412.06	153.51	3.684		
11,800.00	7,362.48	11,749.89	7,359.77	78.23	78.07	-89.73	-231.77	4,605.11	565.85	409.07	156.78	3.609		
11,900.00	7,362.61	11,849.89	7,359.72	79.86	79.71	-89.71	-232.44	4,705.11	566.11	406.06	160.05	3.537		
12,000.00	7,362.75	11,949.89	7,359.66	81.50	81.35	-89.69	-233.10	4,805.11	566.38	403.06	163.32	3.468		
12,100.00	7,362.88	12,049.89	7,359.60	83.13	82.99	-89.67	-233.76	4,905.10	566.65	400.05	166.60	3.401		
12,200.00	7,363.02	12,149.89	7,359.55	84.77	84.63	-89.65	-234.42	5,005.10	566.92	397.05	169.88	3.337		
12,300.00	7,363.15	12,249.88	7,359.49	86.41	86.27	-89.63	-235.08	5,105.10	567.19	394.03	173.16	3.276		
12,400.00	7,363.28	12,349.88	7,359.44	88.05	87.91	-89.61	-235.74	5,205.09	567.46	391.02	176.44	3.216		
12,500.00	7,363.42	12,449.88	7,359.38	89.69	89.56	-89.59	-236.41	5,305.09	567.73	388.01	179.73	3.159		
12,600.00	7,363.55	12,549.88	7,359.33	91.33	91.20	-89.57	-237.07	5,405.09	568.00	384.99	183.01	3.104		
12,700.00	7,363.69	12,649.88	7,359.27	92.97	92.85	-89.56	-237.73	5,505.09	568.27	381.97	186.30	3.050		
12,800.00	7,363.82	12,749.88	7,359.22	94.61	94.50	-89.54	-238.39	5,605.08	568.54	378.95	189.59	2.999		
12,900.00	7,363.95	12,849.88	7,359.16	96.26	96.15	-89.52	-239.05	5,705.08	568.81	375.92	192.89	2.949		
13,000.00	7,364.09	12,949.88	7,359.10	97.90	97.80	-89.50	-239.71	5,805.08	569.08	372.90	196.18	2.901		
13,100.00	7,364.22	13,049.88	7,359.05	99.55	99.45	-89.48	-240.38	5,905.08	569.35	369.87	199.48	2.854		
13,200.00	7,364.35	13,149.88	7,358.99	101.20	101.10	-89.46	-241.04	6,005.07	569.62	366.84	202.78	2.809		
13,300.00	7,364.49	13,249.88	7,358.94	102.85	102.75	-89.44	-241.70	6,105.07	569.89	363.81	206.08	2.765		
13,400.00	7,364.62	13,349.88	7,358.88	104.50	104.40	-89.42	-242.36	6,205.07	570.16	360.78	209.38	2.723		
13,500.00	7,364.76	13,449.88	7,358.83	106.15	106.05	-89.40	-243.02	6,305.06	570.43	357.75	212.68	2.682		
13,600.00	7,364.89	13,549.88	7,358.77	107.80	107.71	-89.39	-243.68	6,405.06	570.70	354.72	215.98	2.642		
13,700.00	7,365.02	13,649.88	7,358.72	109.45	109.36	-89.37	-244.34	6,505.06	570.97	351.68	219.29	2.604		
13,800.00	7,365.16	13,749.88	7,358.66	111.10	111.01	-89.35	-245.01	6,605.06	571.24	348.65	222.59	2.566		
13,900.00	7,365.29	13,849.88	7,358.60	112.75	112.67	-89.33	-245.67	6,705.05	571.51	345.61	225.90	2.530		
14,000.00	7,365.43	13,949.88	7,358.55	114.41	114.33	-89.31	-246.33	6,805.05	571.78	342.57	229.21	2.495		
14,100.00	7,365.56	14,049.88	7,358.49	116.06	115.98	-89.29	-246.99	6,905.05	572.05	339.53	232.52	2.460		
14,200.00	7,365.69	14,149.87	7,358.44	117.71	117.64	-89.27	-247.65	7,005.05	572.32	336.49	235.83	2.427		
14,300.00	7,365.83	14,249.87	7,358.38	119.37	119.29	-89.26	-248.31	7,105.04	572.59	333.45	239.14	2.394		
14,400.00	7,365.96	14,349.87	7,358.33	121.02	120.95	-89.24	-248.98	7,205.04	572.86	330.41	242.45	2.363		
14,500.00	7,366.09	14,449.87	7,358.27	122.68	122.61	-89.22	-249.64	7,305.04	573.13	327.37	245.76	2.332		
14,600.00	7,366.23	14,549.87	7,358.22	124.33	124.27	-89.20	-250.30	7,405.03	573.40	324.33	249.08	2.302		
14,700.00	7,366.36	14,649.87	7,358.16	125.99	125.93	-89.18	-250.96	7,505.03	573.67	321.28	252.39	2.273		
14,800.00	7,366.50	14,749.87	7,358.10	127.65	127.59	-89.16	-251.62	7,605.03	573.94	318.24	255.71	2.245		
14,900.00	7,366.63	14,849.87	7,358.05	129.31	129.24	-89.14	-252.28	7,705.03	574.21	315.19	259.02	2.217		
15,000.00	7,366.76	14,949.87	7,357.99	130.96	130.90	-89.13	-252.95	7,805.02	574.49	312.15	262.34	2.190		
15,100.00	7,366.90	15,049.87	7,357.94	132.62	132.56	-89.11	-253.61	7,905.02	574.76	309.10	265.65	2.164		
15,200.00	7,367.03	15,149.87	7,357.88	134.28	134.22	-89.09	-254.27	8,005.02	575.03	306.05	268.97	2.138		
15,300.00	7,367.16	15,249.87	7,357.83	135.94	135.88	-89.07	-254.93	8,105.02	575.30	303.01	272.29	2.113		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
15,400.00	7,367.30	15,349.87	7,357.77	137.60	137.55	-89.05	-255.59	8,205.01	575.57	299.96	275.61	2.088		
15,500.00	7,367.43	15,449.87	7,357.72	139.26	139.21	-89.03	-256.25	8,305.01	575.84	296.91	278.93	2.064		
15,600.00	7,367.57	15,549.87	7,357.66	140.92	140.87	-89.01	-256.92	8,405.01	576.11	293.86	282.25	2.041		
15,700.00	7,367.70	15,649.87	7,357.60	142.58	142.53	-89.00	-257.58	8,505.00	576.38	290.81	285.57	2.018		
15,800.00	7,367.83	15,749.87	7,357.55	144.24	144.19	-88.98	-258.24	8,605.00	576.66	287.76	288.89	1.996		
15,900.00	7,367.97	15,849.87	7,357.49	145.90	145.85	-88.96	-258.90	8,705.00	576.93	284.71	292.21	1.974		
16,000.00	7,368.10	15,949.87	7,357.44	147.56	147.52	-88.94	-259.56	8,805.00	577.20	281.66	295.53	1.953		
16,100.00	7,368.24	16,042.28	7,357.39	149.22	149.05	-88.93	-259.87	8,897.41	577.82	279.19	298.64	1.935		
16,200.00	7,368.37	16,142.27	7,357.33	150.88	150.71	-88.91	-259.22	8,997.39	579.41	277.45	301.96	1.919		
16,300.00	7,368.50	16,242.25	7,357.28	152.54	152.37	-88.89	-258.57	9,097.38	580.99	275.71	305.28	1.903		
16,400.00	7,368.64	16,342.24	7,357.22	154.21	154.03	-88.88	-257.91	9,197.36	582.58	273.98	308.60	1.888		
16,500.00	7,368.77	16,442.23	7,357.17	155.87	155.69	-88.86	-257.26	9,297.35	584.16	272.24	311.92	1.873		
16,600.00	7,368.90	16,542.22	7,357.11	157.53	157.36	-88.85	-256.61	9,397.34	585.75	270.50	315.25	1.858		
16,700.00	7,369.04	16,642.20	7,357.05	159.19	159.02	-88.83	-255.96	9,497.32	587.33	268.76	318.57	1.844		
16,800.00	7,369.17	16,742.19	7,357.00	160.86	160.68	-88.82	-255.31	9,597.31	588.92	267.02	321.89	1.830		
16,900.00	7,369.31	16,842.18	7,356.94	162.52	162.34	-88.80	-254.66	9,697.29	590.50	265.28	325.22	1.816		
17,000.00	7,369.44	16,942.17	7,356.89	164.18	164.00	-88.79	-254.01	9,797.28	592.09	263.54	328.54	1.802		
17,100.00	7,369.57	17,042.15	7,356.83	165.84	165.67	-88.77	-253.35	9,897.26	593.67	261.80	331.87	1.789		
17,200.00	7,369.71	17,142.14	7,356.78	167.51	167.33	-88.76	-252.70	9,997.25	595.26	260.06	335.19	1.776		
17,300.00	7,369.84	17,242.13	7,356.72	169.17	168.99	-88.74	-252.05	10,097.23	596.84	258.32	338.52	1.763		
17,400.00	7,369.97	17,342.12	7,356.67	170.84	170.65	-88.73	-251.40	10,197.22	598.43	256.58	341.84	1.751		
17,500.00	7,370.11	17,442.10	7,356.61	172.50	172.32	-88.71	-250.75	10,297.20	600.01	254.84	345.17	1.738		
17,600.00	7,370.24	17,542.09	7,356.56	174.16	173.98	-88.70	-250.10	10,397.19	601.60	253.10	348.50	1.726		
17,700.00	7,370.38	17,642.08	7,356.50	175.83	175.64	-88.68	-249.45	10,497.17	603.18	251.36	351.82	1.714		
17,800.00	7,370.51	17,742.06	7,356.45	177.49	177.31	-88.67	-248.80	10,597.16	604.77	249.62	355.15	1.703		
17,900.00	7,370.64	17,842.05	7,356.39	179.16	178.97	-88.65	-248.14	10,697.14	606.35	247.88	358.48	1.691		
18,000.00	7,370.78	17,942.04	7,356.33	180.82	180.64	-88.64	-247.49	10,797.13	607.94	246.13	361.80	1.680		
18,100.00	7,370.91	18,042.03	7,356.28	182.49	182.30	-88.63	-246.84	10,897.11	609.52	244.39	365.13	1.669		
18,200.00	7,371.05	18,142.01	7,356.22	184.15	183.96	-88.61	-246.19	10,997.10	611.11	242.65	368.46	1.659		
18,300.00	7,371.18	18,242.00	7,356.17	185.82	185.63	-88.60	-245.54	11,097.08	612.69	240.91	371.79	1.648		
18,400.00	7,371.31	18,341.99	7,356.11	187.48	187.29	-88.58	-244.89	11,197.07	614.28	239.16	375.11	1.638		
18,500.00	7,371.45	18,441.98	7,356.06	189.15	188.96	-88.57	-244.24	11,297.05	615.86	237.42	378.44	1.627		
18,600.00	7,371.58	18,541.96	7,356.00	190.82	190.62	-88.56	-243.58	11,397.04	617.45	235.68	381.77	1.617		
18,700.00	7,371.71	18,641.95	7,355.95	192.48	192.29	-88.54	-242.93	11,497.02	619.03	233.93	385.10	1.607		
18,800.00	7,371.85	18,741.94	7,355.89	194.15	193.95	-88.53	-242.28	11,597.01	620.62	232.19	388.43	1.598		
18,900.00	7,371.98	18,841.93	7,355.84	195.81	195.61	-88.51	-241.63	11,696.99	622.20	230.45	391.76	1.588		
19,000.00	7,372.12	18,941.91	7,355.78	197.48	197.28	-88.50	-240.98	11,796.98	623.79	228.70	395.09	1.579		
19,100.00	7,372.25	19,041.90	7,355.73	199.15	198.94	-88.49	-240.33	11,896.96	625.38	226.96	398.42	1.570		
19,200.00	7,372.38	19,141.89	7,355.67	200.81	200.61	-88.47	-239.68	11,996.95	626.96	225.22	401.75	1.561		
19,300.00	7,372.52	19,241.87	7,355.61	202.48	202.27	-88.46	-239.02	12,096.94	628.55	223.47	405.08	1.552		
19,400.00	7,372.65	19,341.86	7,355.56	204.14	203.94	-88.45	-238.37	12,196.92	630.13	221.73	408.41	1.543		
19,500.00	7,372.79	19,441.85	7,355.50	205.81	205.61	-88.43	-237.72	12,296.91	631.72	219.98	411.74	1.534		
19,600.00	7,372.92	19,541.84	7,355.45	207.48	207.27	-88.42	-237.07	12,396.89	633.30	218.24	415.07	1.526		
19,700.00	7,373.05	19,641.82	7,355.39	209.15	208.94	-88.41	-236.42	12,496.88	634.89	216.49	418.40	1.517		
19,800.00	7,373.19	19,741.81	7,355.34	210.81	210.60	-88.39	-235.77	12,596.86	636.48	214.75	421.73	1.509		
19,900.00	7,373.32	19,841.80	7,355.28	212.48	212.27	-88.38	-235.12	12,696.85	638.06	213.00	425.06	1.501		
20,000.00	7,373.45	19,941.79	7,355.23	214.15	213.93	-88.37	-234.46	12,796.83	639.65	211.26	428.39	1.493 Level 3		
20,100.00	7,373.59	20,041.77	7,355.17	215.81	215.60	-88.36	-233.81	12,896.82	641.23	209.51	431.72	1.485 Level 3		
20,200.00	7,373.72	20,141.76	7,355.12	217.48	217.27	-88.34	-233.16	12,996.80	642.82	207.77	435.05	1.478 Level 3		
20,300.00	7,373.86	20,241.75	7,355.06	219.15	218.93	-88.33	-232.51	13,096.79	644.41	206.02	438.38	1.470 Level 3		
20,400.00	7,373.99	20,341.73	7,355.01	220.82	220.60	-88.32	-231.86	13,196.77	645.99	204.28	441.71	1.462 Level 3		
20,407.86	7,374.00	20,349.60	7,355.00	220.95	220.73	-88.32	-231.81	13,204.64	646.12	204.14	441.98	1.462 Level 3, SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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						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	-0.35	179.96	-1.11	179.96				
100.00	100.00	100.00	100.00	3.28	3.28	-0.35	179.96	-1.11	179.96	172.43	7.53	23.903	
200.00	200.00	200.00	200.00	3.31	3.31	-0.35	179.96	-1.11	179.96	172.39	7.57	23.761	CC, ES, SF
300.00	299.98	294.01	293.99	3.34	3.35	175.34	181.49	-1.26	183.33	175.68	7.66	23.949	
400.00	399.84	387.38	387.25	3.40	3.41	175.32	186.06	-1.70	193.43	185.65	7.78	24.873	
500.00	499.45	484.43	484.04	3.49	3.50	175.31	193.09	-2.38	209.31	201.37	7.95	26.336	
600.00	598.74	582.57	581.91	3.60	3.60	175.37	200.32	-3.07	228.48	220.32	8.17	27.981	
700.00	697.94	680.59	679.66	3.74	3.72	175.45	207.53	-3.77	248.30	239.89	8.41	29.541	
800.00	797.15	778.61	777.41	3.91	3.86	175.51	214.74	-4.46	268.12	259.44	8.68	30.891	
900.00	896.35	876.62	875.16	4.10	4.02	175.57	221.96	-5.16	287.93	278.95	8.98	32.046	
1,000.00	995.55	974.64	972.91	4.31	4.19	175.62	229.17	-5.85	307.75	298.43	9.32	33.028	
1,100.00	1,094.76	1,072.66	1,070.65	4.53	4.37	175.67	236.38	-6.55	327.57	317.89	9.68	33.855	
1,200.00	1,193.96	1,170.67	1,168.40	4.77	4.57	175.71	243.60	-7.24	347.38	337.33	10.05	34.550	
1,300.00	1,293.17	1,268.69	1,266.15	5.02	4.77	175.74	250.81	-7.94	367.20	356.75	10.45	35.129	
1,400.00	1,392.37	1,366.71	1,363.90	5.28	4.98	175.77	258.02	-8.63	387.02	376.15	10.87	35.613	
1,500.00	1,491.58	1,464.72	1,461.65	5.55	5.20	175.80	265.24	-9.33	406.83	395.54	11.30	36.012	
1,600.00	1,590.78	1,562.74	1,559.40	5.83	5.42	175.83	272.45	-10.02	426.65	414.91	11.74	36.342	
1,700.00	1,689.99	1,660.75	1,657.14	6.12	5.65	175.85	279.66	-10.71	446.47	434.28	12.19	36.614	
1,800.00	1,789.19	1,758.77	1,754.89	6.41	5.89	175.87	286.88	-11.41	466.29	453.63	12.66	36.837	
1,900.00	1,888.40	1,856.79	1,852.64	6.56	6.12	175.89	294.09	-12.10	486.11	473.47	12.64	38.465	
2,000.00	1,987.60	1,954.80	1,950.39	6.59	6.37	175.91	301.30	-12.80	505.92	493.03	12.89	39.253	
2,100.00	2,086.81	2,052.82	2,048.14	6.64	6.61	175.93	308.52	-13.49	525.74	512.58	13.16	39.957	
2,200.00	2,186.01	2,150.84	2,145.88	6.70	6.86	175.94	315.73	-14.19	545.56	532.12	13.44	40.583	
2,300.00	2,285.22	2,248.85	2,243.63	6.77	7.11	175.96	322.94	-14.88	565.38	551.63	13.74	41.134	
2,400.00	2,384.42	2,346.87	2,341.38	6.86	7.37	175.97	330.16	-15.58	585.20	571.13	14.06	41.615	
2,500.00	2,483.63	2,444.89	2,439.13	6.96	7.62	175.99	337.37	-16.27	605.01	590.62	14.39	42.031	
2,600.00	2,582.83	2,542.90	2,536.88	7.08	7.88	176.00	344.58	-16.97	624.83	610.09	14.74	42.388	
2,700.00	2,682.04	2,640.92	2,634.63	7.21	8.14	176.01	351.80	-17.66	644.65	629.55	15.10	42.690	
2,800.00	2,781.24	2,738.94	2,732.37	7.34	8.40	176.02	359.01	-18.36	664.47	648.99	15.47	42.943	
2,900.00	2,880.45	2,836.95	2,830.12	7.50	8.67	176.03	366.22	-19.05	684.29	668.43	15.86	43.151	
3,000.00	2,979.65	2,934.97	2,927.87	7.66	8.93	176.04	373.44	-19.74	704.10	687.85	16.25	43.319	
3,100.00	3,078.86	3,032.99	3,025.62	7.83	9.20	176.05	380.65	-20.44	723.92	707.26	16.66	43.451	
3,200.00	3,178.06	3,131.00	3,123.37	8.01	9.47	176.05	387.86	-21.13	743.74	726.66	17.08	43.551	
3,300.00	3,277.27	3,229.02	3,221.11	8.20	9.73	176.06	395.08	-21.83	763.56	746.06	17.50	43.624	
3,400.00	3,376.47	3,327.03	3,318.86	8.39	10.00	176.07	402.29	-22.52	783.38	765.44	17.94	43.672	
3,500.00	3,475.68	3,425.05	3,416.61	8.60	10.27	176.08	409.50	-23.22	803.19	784.81	18.38	43.698	
3,600.00	3,574.88	3,523.07	3,514.36	8.81	10.54	176.08	416.72	-23.91	823.01	804.18	18.83	43.706	
3,700.00	3,674.09	3,621.08	3,612.11	9.02	10.82	176.09	423.93	-24.61	842.83	823.54	19.29	43.697	
3,800.00	3,773.29	3,719.10	3,709.86	9.25	11.09	176.10	431.15	-25.30	862.65	842.90	19.75	43.675	
3,900.00	3,872.50	3,817.12	3,807.60	9.48	11.36	176.10	438.36	-26.00	882.47	862.25	20.22	43.640	
4,000.00	3,971.70	3,915.13	3,905.35	9.71	11.63	176.11	445.57	-26.69	902.29	881.59	20.70	43.595	
4,100.00	4,070.91	4,013.15	4,003.10	9.95	11.91	176.11	452.79	-27.38	922.10	900.93	21.18	43.541	
4,200.00	4,170.11	4,111.17	4,100.85	10.19	12.18	176.12	460.00	-28.08	941.92	920.26	21.66	43.480	
4,300.00	4,269.32	4,209.18	4,198.60	10.44	12.46	176.12	467.21	-28.77	961.74	939.59	22.15	43.413	
4,400.00	4,368.52	4,307.20	4,296.35	10.69	12.73	176.13	474.43	-29.47	981.56	958.91	22.65	43.340	
4,500.00	4,467.73	4,405.22	4,394.09	10.95	13.01	176.13	481.64	-30.16	1,001.38	978.23	23.15	43.263	
4,600.00	4,566.93	4,503.23	4,491.84	11.21	13.29	176.14	488.85	-30.86	1,021.20	997.55	23.65	43.182	
4,700.00	4,666.14	4,601.25	4,589.59	11.47	13.56	176.14	496.07	-31.55	1,041.01	1,016.86	24.15	43.099	
4,800.00	4,765.34	4,700.74	4,687.34	11.73	13.84	176.15	503.28	-32.25	1,060.83	1,036.17	24.67	43.006	
4,900.00	4,864.55	4,797.28	4,785.09	12.00	14.12	176.15	510.49	-32.94	1,080.65	1,055.48	25.18	42.925	
5,000.00	4,963.75	4,895.30	4,882.83	12.27	14.40	176.15	517.71	-33.64	1,100.47	1,074.78	25.69	42.837	
5,100.00	5,062.96	5,006.69	4,980.58	12.54	14.71	176.16	524.92	-34.33	1,120.29	1,094.04	26.24	42.687	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,108.67	5,078.33	12.81	15.00	176.16	532.13	-35.03	1,140.11	1,113.33	26.78	42.581	
5,300.00	5,261.37	5,189.35	5,176.08	13.09	15.23	176.16	539.35	-35.72	1,159.92	1,132.67	27.25	42.567	
5,400.00	5,360.57	5,287.36	5,273.83	13.37	15.51	176.17	546.56	-36.41	1,179.74	1,151.97	27.77	42.476	
5,500.00	5,459.78	5,385.38	5,371.58	13.65	15.79	176.17	553.77	-37.11	1,199.56	1,171.26	28.30	42.386	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	-0.40	159.92	-1.11	159.93				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	159.92	-1.11	159.93	152.40	7.53	21.242	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	159.92	-1.11	159.93	152.35	7.57	21.115	CC, ES, SF
300.00	299.98	294.63	294.61	3.34	3.35	175.29	161.48	-1.28	163.31	155.65	7.66	21.332	
400.00	399.84	388.62	388.48	3.40	3.41	175.26	166.09	-1.76	173.43	165.65	7.78	22.298	
500.00	499.45	486.21	485.82	3.49	3.50	175.24	173.06	-2.50	189.20	181.25	7.95	23.800	
600.00	598.74	584.39	583.74	3.60	3.60	175.30	180.12	-3.24	208.21	200.04	8.17	25.492	
700.00	697.94	682.43	681.53	3.74	3.73	175.38	187.18	-3.98	227.87	219.46	8.41	27.102	
800.00	797.15	780.48	779.32	3.91	3.87	175.45	194.24	-4.72	247.52	238.84	8.68	28.509	
900.00	896.35	878.53	877.12	4.10	4.02	175.50	201.29	-5.46	267.18	258.19	8.99	29.727	
1,000.00	995.55	976.58	974.91	4.31	4.19	175.55	208.35	-6.20	286.84	277.52	9.32	30.773	
1,100.00	1,094.76	1,074.63	1,072.70	4.53	4.37	175.60	215.41	-6.95	306.50	296.82	9.68	31.667	
1,200.00	1,193.96	1,172.68	1,170.49	4.77	4.57	175.63	222.46	-7.69	326.15	316.10	10.06	32.428	
1,300.00	1,293.17	1,270.73	1,268.28	5.02	4.77	175.67	229.52	-8.43	345.81	335.35	10.46	33.072	
1,400.00	1,392.37	1,368.78	1,366.07	5.28	4.98	175.70	236.58	-9.17	365.47	354.60	10.87	33.619	
1,500.00	1,491.58	1,466.82	1,463.87	5.55	5.20	175.72	243.63	-9.91	385.13	373.83	11.30	34.080	
1,600.00	1,590.78	1,564.87	1,561.66	5.83	5.42	175.75	250.69	-10.65	404.78	393.04	11.74	34.469	
1,700.00	1,689.99	1,662.92	1,659.45	6.12	5.65	175.77	257.75	-11.40	424.44	412.24	12.20	34.798	
1,800.00	1,789.19	1,760.97	1,757.24	6.41	5.88	175.79	264.80	-12.14	444.10	431.44	12.66	35.075	
1,900.00	1,888.40	1,859.02	1,855.03	6.66	6.05	175.81	271.86	-12.88	463.76	451.19	12.57	36.887	
2,000.00	1,987.60	1,957.07	1,952.82	6.59	6.11	175.83	278.92	-13.62	483.42	470.77	12.65	38.228	
2,100.00	2,086.81	2,055.12	2,050.62	6.64	6.14	175.84	285.97	-14.36	503.07	490.38	12.70	39.622	
2,200.00	2,186.01	2,153.17	2,148.41	6.70	6.18	175.86	293.03	-15.10	522.73	509.96	12.77	40.921	
2,300.00	2,285.22	2,251.21	2,246.20	6.77	6.23	175.87	300.09	-15.85	542.39	529.51	12.88	42.119	
2,400.00	2,384.42	2,349.26	2,343.99	6.86	6.29	175.88	307.14	-16.59	562.05	549.04	13.01	43.214	
2,500.00	2,483.63	2,447.31	2,441.78	6.96	6.36	175.89	314.20	-17.33	581.71	568.55	13.16	44.205	
2,600.00	2,582.83	2,545.36	2,539.57	7.08	6.44	175.90	321.26	-18.07	601.36	588.03	13.34	45.093	
2,700.00	2,682.04	2,643.41	2,637.36	7.21	6.54	175.91	328.31	-18.81	621.02	607.49	13.54	45.881	
2,800.00	2,781.24	2,741.46	2,735.16	7.34	6.64	175.92	335.37	-19.55	640.68	626.92	13.76	46.573	
2,900.00	2,880.45	2,839.51	2,832.95	7.50	6.75	175.93	342.43	-20.30	660.34	646.34	14.00	47.174	
3,000.00	2,979.65	2,937.55	2,930.74	7.66	6.88	175.94	349.48	-21.04	680.00	665.74	14.26	47.689	
3,100.00	3,078.86	3,035.60	3,028.53	7.83	7.01	175.95	356.54	-21.78	699.65	685.12	14.54	48.125	
3,200.00	3,178.06	3,133.65	3,126.32	8.01	7.15	175.96	363.60	-22.52	719.31	704.48	14.84	48.487	
3,300.00	3,277.27	3,231.70	3,224.11	8.20	7.30	175.96	370.65	-23.26	738.97	723.82	15.15	48.783	
3,400.00	3,376.47	3,329.75	3,321.91	8.39	7.45	175.97	377.71	-24.00	758.63	743.15	15.48	49.019	
3,500.00	3,475.68	3,427.80	3,419.70	8.60	7.62	175.98	384.77	-24.75	778.29	762.47	15.82	49.200	
3,600.00	3,574.88	3,525.85	3,517.49	8.81	7.78	175.98	391.82	-25.49	797.95	781.77	16.17	49.333	
3,700.00	3,674.09	3,623.90	3,615.28	9.02	7.96	175.99	398.88	-26.23	817.60	801.06	16.54	49.423	
3,800.00	3,773.29	3,721.94	3,713.07	9.25	8.14	176.00	405.94	-26.97	837.26	820.34	16.92	49.475	
3,900.00	3,872.50	3,819.99	3,810.86	9.48	8.33	176.00	412.99	-27.71	856.92	839.61	17.31	49.494	
4,000.00	3,971.70	3,918.04	3,908.66	9.71	8.52	176.01	420.05	-28.46	876.58	858.86	17.71	49.483	
4,100.00	4,070.91	4,016.09	4,006.45	9.95	8.71	176.01	427.11	-29.20	896.24	878.11	18.12	49.448	
4,200.00	4,170.11	4,114.14	4,104.24	10.19	8.91	176.02	434.16	-29.94	915.90	897.35	18.54	49.390	
4,300.00	4,269.32	4,212.19	4,202.03	10.44	9.11	176.02	441.22	-30.68	935.55	916.58	18.97	49.314	
4,400.00	4,368.52	4,310.24	4,299.82	10.69	9.32	176.02	448.28	-31.42	955.21	935.81	19.41	49.222	
4,500.00	4,467.73	4,408.29	4,397.61	10.95	9.53	176.03	455.33	-32.16	974.87	955.02	19.85	49.116	
4,600.00	4,566.93	4,506.33	4,495.41	11.21	9.75	176.03	462.39	-32.91	994.53	974.23	20.30	48.999	
4,700.00	4,666.14	4,604.38	4,593.20	11.47	9.96	176.04	469.45	-33.65	1,014.19	993.44	20.75	48.872	
4,800.00	4,765.34	4,702.43	4,690.99	11.73	10.18	176.04	476.50	-34.39	1,033.85	1,012.63	21.21	48.738	
4,900.00	4,864.55	4,800.48	4,788.78	12.00	10.41	176.04	483.56	-35.13	1,053.50	1,031.83	21.68	48.597	
5,000.00	4,963.75	4,898.53	4,886.57	12.27	10.63	176.05	490.62	-35.87	1,073.16	1,051.01	22.15	48.450	
5,100.00	5,062.96	5,003.42	4,984.36	12.54	10.88	176.05	497.67	-36.61	1,092.82	1,070.18	22.64	48.265	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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	5,162.16	5,105.37	5,082.15	12.81	11.11	176.05	504.73	-37.36	1,112.48	1,089.35	23.13	48.093	
5,300.00	5,261.37	5,207.33	5,179.95	13.09	11.36	176.06	511.79	-38.10	1,132.14	1,108.51	23.63	47.919	
5,400.00	5,360.57	5,309.28	5,277.74	13.37	11.60	176.06	518.84	-38.84	1,151.80	1,127.67	24.12	47.744	
5,500.00	5,459.78	5,388.77	5,375.53	13.65	11.79	176.06	525.90	-39.58	1,171.45	1,146.88	24.57	47.674	
5,600.00	5,558.98	5,486.82	5,473.32	13.93	12.03	176.06	532.96	-40.32	1,191.11	1,166.05	25.07	47.515	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	-0.34	139.89	-0.84	139.89				
100.00	100.00	100.00	100.00	3.28	3.28	-0.34	139.89	-0.84	139.89	132.36	7.53	18.580	
200.00	200.00	200.00	200.00	3.31	3.31	-0.34	139.89	-0.84	139.89	132.31	7.57	18.470	CC, ES, SF
300.00	299.98	295.29	295.28	3.34	3.35	175.31	141.45	-1.10	143.27	135.61	7.66	18.713	
400.00	399.84	407.03	392.86	3.40	3.43	175.19	145.66	-1.80	152.79	144.99	7.79	19.606	
500.00	499.45	492.09	491.87	3.49	3.50	175.17	150.18	-2.56	166.01	158.06	7.96	20.868	
600.00	598.74	609.27	590.41	3.60	3.63	175.24	154.68	-3.31	182.42	174.23	8.19	22.264	
700.00	697.94	689.26	688.84	3.74	3.73	175.33	159.18	-4.06	199.48	191.07	8.41	23.712	
800.00	797.15	787.80	787.26	3.91	3.86	175.41	163.67	-4.82	216.54	207.85	8.69	24.925	
900.00	896.35	886.33	885.69	4.10	4.02	175.47	168.16	-5.57	233.60	224.61	8.99	25.975	
1,000.00	995.55	984.87	984.12	4.31	4.18	175.53	172.66	-6.32	250.66	241.33	9.33	26.876	
1,100.00	1,094.76	1,083.40	1,082.55	4.53	4.36	175.58	177.15	-7.07	267.72	258.04	9.68	27.646	
1,200.00	1,193.96	1,181.93	1,180.98	4.77	4.54	175.62	181.64	-7.82	284.78	274.72	10.06	28.301	
1,300.00	1,293.17	1,280.47	1,279.41	5.02	4.74	175.66	186.13	-8.58	301.84	291.38	10.46	28.856	
1,400.00	1,392.37	1,379.00	1,377.83	5.28	4.94	175.69	190.63	-9.33	318.90	308.03	10.87	29.326	
1,500.00	1,491.58	1,477.53	1,476.26	5.55	5.15	175.72	195.12	-10.08	335.97	324.66	11.30	29.723	
1,600.00	1,590.78	1,576.07	1,574.69	5.83	5.37	175.75	199.61	-10.83	353.03	341.28	11.74	30.058	
1,700.00	1,689.99	1,674.60	1,673.12	6.12	5.59	175.78	204.11	-11.58	370.09	357.89	12.20	30.341	
1,800.00	1,789.19	1,773.14	1,771.55	6.41	5.81	175.80	208.60	-12.33	387.15	374.49	12.66	30.579	
1,900.00	1,888.40	1,871.67	1,869.98	6.56	6.04	175.82	213.09	-13.09	404.21	391.57	12.64	31.986	
2,000.00	1,987.60	1,970.20	1,968.40	6.59	6.28	175.84	217.59	-13.84	421.27	408.39	12.89	32.694	
2,100.00	2,086.81	2,068.74	2,066.83	6.64	6.51	175.86	222.08	-14.59	438.33	425.18	13.15	33.332	
2,200.00	2,186.01	2,167.27	2,165.26	6.70	6.75	175.87	226.57	-15.34	455.39	441.96	13.43	33.901	
2,300.00	2,285.22	2,265.80	2,263.69	6.77	7.00	175.89	231.07	-16.09	472.45	458.72	13.73	34.407	
2,400.00	2,384.42	2,364.34	2,362.12	6.86	7.24	175.90	235.56	-16.85	489.52	475.47	14.05	34.852	
2,500.00	2,483.63	2,462.87	2,460.55	6.96	7.49	175.92	240.05	-17.60	506.58	492.20	14.37	35.241	
2,600.00	2,582.83	2,561.41	2,558.97	7.08	7.74	175.93	244.55	-18.35	523.64	508.92	14.72	35.578	
2,700.00	2,682.04	2,659.94	2,657.40	7.21	7.99	175.94	249.04	-19.10	540.70	525.63	15.08	35.867	
2,800.00	2,781.24	2,758.47	2,755.83	7.34	8.24	175.95	253.53	-19.85	557.76	542.32	15.45	36.113	
2,900.00	2,880.45	2,857.01	2,854.26	7.50	8.50	175.96	258.03	-20.61	574.82	559.00	15.83	36.319	
3,000.00	2,979.65	2,955.54	2,952.69	7.66	8.75	175.97	262.52	-21.36	591.89	575.66	16.22	36.491	
3,100.00	3,078.86	3,054.07	3,051.12	7.83	9.01	175.98	267.01	-22.11	608.95	592.32	16.62	36.630	
3,200.00	3,178.06	3,152.61	3,149.54	8.01	9.27	175.99	271.51	-22.86	626.01	608.97	17.04	36.742	
3,300.00	3,277.27	3,251.14	3,247.97	8.20	9.52	176.00	276.00	-23.61	643.07	625.61	17.46	36.828	
3,400.00	3,376.47	3,349.67	3,346.40	8.39	9.78	176.00	280.49	-24.37	660.13	642.24	17.89	36.893	
3,500.00	3,475.68	3,448.21	3,444.83	8.60	10.04	176.01	284.99	-25.12	677.19	658.86	18.33	36.938	
3,600.00	3,574.88	3,546.74	3,543.26	8.81	10.31	176.02	289.48	-25.87	694.25	675.47	18.78	36.966	
3,700.00	3,674.09	3,645.28	3,641.69	9.02	10.57	176.02	293.97	-26.62	711.32	692.08	19.24	36.979	
3,800.00	3,773.29	3,743.81	3,740.11	9.25	10.83	176.03	298.46	-27.37	728.38	708.68	19.70	36.979	
3,900.00	3,872.50	3,842.34	3,838.54	9.48	11.09	176.04	302.96	-28.12	745.44	725.28	20.16	36.968	
4,000.00	3,971.70	3,940.88	3,936.97	9.71	11.36	176.04	307.45	-28.88	762.50	741.86	20.64	36.948	
4,100.00	4,070.91	4,039.41	4,035.40	9.95	11.62	176.05	311.94	-29.63	779.56	758.45	21.12	36.919	
4,200.00	4,170.11	4,137.94	4,133.83	10.19	11.89	176.05	316.44	-30.38	796.62	775.03	21.60	36.883	
4,300.00	4,269.32	4,236.48	4,232.26	10.44	12.15	176.06	320.93	-31.13	813.69	791.60	22.09	36.841	
4,400.00	4,368.52	4,335.01	4,330.68	10.69	12.42	176.06	325.42	-31.88	830.75	808.17	22.58	36.794	
4,500.00	4,467.73	4,433.55	4,429.11	10.95	12.69	176.07	329.92	-32.64	847.81	824.74	23.07	36.742	
4,600.00	4,566.93	4,532.08	4,527.54	11.21	12.95	176.07	334.41	-33.39	864.87	841.30	23.57	36.687	
4,700.00	4,666.14	4,630.61	4,625.97	11.47	13.22	176.08	338.90	-34.14	881.93	857.86	24.08	36.629	
4,800.00	4,765.34	4,729.15	4,724.40	11.73	13.49	176.08	343.40	-34.89	898.99	874.41	24.58	36.569	
4,900.00	4,864.55	4,827.68	4,822.83	12.00	13.76	176.09	347.89	-35.64	916.06	890.96	25.09	36.506	
5,000.00	4,963.75	4,926.21	4,921.25	12.27	14.03	176.09	352.38	-36.40	933.12	907.51	25.61	36.442	
5,100.00	5,062.96	5,024.75	5,019.68	12.54	14.30	176.09	356.88	-37.15	950.18	924.06	26.12	36.377	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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, 7664-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	5,162.16	5,123.28	5,118.11	12.81	14.56	176.10	361.37	-37.90	967.24	940.60	26.64	36.311	
5,300.00	5,261.37	5,221.82	5,216.54	13.09	14.83	176.10	365.86	-38.65	984.30	957.15	27.16	36.244	
5,400.00	5,360.57	5,320.35	5,314.97	13.37	15.10	176.10	370.36	-39.40	1,001.36	973.68	27.68	36.177	
5,500.00	5,459.78	5,418.88	5,413.40	13.65	15.37	176.11	374.85	-40.16	1,018.43	990.22	28.20	36.110	
5,600.00	5,558.98	5,517.42	5,511.82	13.93	15.64	176.11	379.34	-40.91	1,035.49	1,006.76	28.73	36.042	
5,700.00	5,658.18	5,615.95	5,610.25	14.21	15.91	176.11	383.84	-41.66	1,052.55	1,023.29	29.26	35.975	
5,800.00	5,757.39	5,714.48	5,708.68	14.50	16.18	176.11	388.33	-42.41	1,069.61	1,039.82	29.79	35.908	
5,900.00	5,856.59	5,813.02	5,807.11	14.79	16.45	176.12	392.82	-43.16	1,086.67	1,056.35	30.32	35.842	
6,000.00	5,955.80	5,911.55	5,905.54	15.07	16.72	176.12	397.32	-43.91	1,103.74	1,072.88	30.85	35.775	
6,100.00	6,055.00	6,010.09	6,003.97	15.36	17.00	176.12	401.81	-44.67	1,120.80	1,089.41	31.39	35.710	
6,200.00	6,154.21	6,108.62	6,102.40	15.65	17.27	176.13	406.30	-45.42	1,137.86	1,105.94	31.92	35.645	
6,300.00	6,253.41	6,207.15	6,200.82	15.94	17.54	176.13	410.79	-46.17	1,154.92	1,122.46	32.46	35.581	
6,400.00	6,352.62	6,305.69	6,299.25	16.24	17.81	176.13	415.29	-46.92	1,171.98	1,138.98	33.00	35.517	
6,500.00	6,451.82	6,404.22	6,397.68	16.53	18.08	176.13	419.78	-47.67	1,189.04	1,155.51	33.54	35.455	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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						
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	42.79	161.01	149.06	219.42				
100.00	100.00	101.00	99.00	3.28	3.28	42.79	161.01	149.06	219.42	211.89	7.53	29.143	
200.00	200.00	199.00	199.00	3.31	3.30	42.79	161.01	149.06	219.42	211.84	7.57	28.971	CC, ES, SF
300.00	299.98	292.65	292.63	3.34	3.35	-141.56	161.51	150.47	222.20	214.54	7.65	29.036	
400.00	399.84	385.80	385.67	3.40	3.41	-141.68	163.01	154.74	230.58	222.82	7.77	29.680	
500.00	499.45	478.07	477.64	3.49	3.49	-141.85	165.48	161.78	244.53	236.60	7.93	30.839	
600.00	598.74	569.11	568.09	3.60	3.59	-142.12	168.88	171.46	263.77	255.64	8.13	32.426	
700.00	697.94	666.55	664.71	3.74	3.72	-142.41	173.07	183.38	284.99	276.61	8.38	33.990	
800.00	797.15	764.26	761.60	3.91	3.88	-142.66	177.27	195.33	306.22	297.54	8.68	35.287	
900.00	896.35	861.98	858.48	4.10	4.06	-142.88	181.46	207.29	327.45	318.45	9.00	36.366	
1,000.00	995.55	959.69	955.37	4.31	4.25	-143.07	185.66	219.24	348.69	339.32	9.36	37.239	
1,100.00	1,094.76	1,057.40	1,052.26	4.53	4.47	-143.25	189.86	231.19	369.93	360.18	9.75	37.938	
1,200.00	1,193.96	1,155.11	1,149.15	4.77	4.69	-143.40	194.06	243.15	391.17	381.01	10.16	38.491	
1,300.00	1,293.17	1,252.83	1,246.04	5.02	4.93	-143.53	198.26	255.10	412.41	401.82	10.60	38.923	
1,400.00	1,392.37	1,350.54	1,342.92	5.28	5.18	-143.66	202.45	267.06	433.66	422.61	11.05	39.256	
1,500.00	1,491.58	1,448.25	1,439.81	5.55	5.43	-143.77	206.65	279.01	454.91	443.39	11.51	39.508	
1,600.00	1,590.78	1,545.97	1,536.70	5.83	5.70	-143.87	210.85	290.96	476.16	464.16	12.00	39.692	
1,700.00	1,689.99	1,643.68	1,633.59	6.12	5.97	-143.96	215.05	302.92	497.41	484.92	12.49	39.823	
1,800.00	1,789.19	1,741.39	1,730.48	6.41	6.24	-144.05	219.25	314.87	518.66	505.66	13.00	39.910	
1,900.00	1,888.40	1,839.10	1,827.36	6.56	6.53	-144.13	223.44	326.82	539.91	526.90	13.01	41.497	
2,000.00	1,987.60	1,936.82	1,924.25	6.59	6.81	-144.20	227.64	338.78	561.17	547.87	13.29	42.211	
2,100.00	2,086.81	2,034.53	2,021.14	6.64	7.10	-144.27	231.84	350.73	582.42	568.83	13.60	42.838	
2,200.00	2,186.01	2,132.24	2,118.03	6.70	7.39	-144.33	236.04	362.69	603.68	589.76	13.91	43.385	
2,300.00	2,285.22	2,229.96	2,214.92	6.77	7.69	-144.39	240.24	374.64	624.93	610.68	14.25	43.855	
2,400.00	2,384.42	2,327.67	2,311.80	6.86	7.99	-144.44	244.43	386.59	646.19	631.59	14.60	44.255	
2,500.00	2,483.63	2,425.38	2,408.69	6.96	8.29	-144.49	248.63	398.55	667.45	652.48	14.97	44.591	
2,600.00	2,582.83	2,523.09	2,505.58	7.08	8.59	-144.54	252.83	410.50	688.71	673.36	15.35	44.869	
2,700.00	2,682.04	2,620.81	2,602.47	7.21	8.89	-144.59	257.03	422.46	709.96	694.22	15.74	45.094	
2,800.00	2,781.24	2,718.52	2,699.35	7.34	9.20	-144.63	261.23	434.41	731.22	715.07	16.15	45.272	
2,900.00	2,880.45	2,816.23	2,796.24	7.50	9.51	-144.67	265.42	446.36	752.48	735.91	16.57	45.408	
3,000.00	2,979.65	2,913.95	2,893.13	7.66	9.81	-144.71	269.62	458.32	773.74	756.74	17.00	45.507	
3,100.00	3,078.86	3,011.66	2,990.02	7.83	10.13	-144.74	273.82	470.27	795.00	777.56	17.44	45.573	
3,200.00	3,178.06	3,109.37	3,086.91	8.01	10.44	-144.78	278.02	482.22	816.26	798.36	17.90	45.610	
3,300.00	3,277.27	3,207.08	3,183.79	8.20	10.75	-144.81	282.22	494.18	837.52	819.16	18.36	45.622	
3,400.00	3,376.47	3,304.80	3,280.68	8.39	11.06	-144.84	286.41	506.13	858.78	839.95	18.83	45.612	
3,500.00	3,475.68	3,402.51	3,377.57	8.60	11.38	-144.87	290.61	518.09	880.04	860.74	19.31	45.584	
3,600.00	3,574.88	3,500.22	3,474.46	8.81	11.69	-144.90	294.81	530.04	901.30	881.51	19.79	45.540	
3,700.00	3,674.09	3,602.07	3,571.35	9.02	12.02	-144.92	299.01	541.99	922.56	902.27	20.30	45.454	
3,800.00	3,773.29	3,704.35	3,668.23	9.25	12.35	-144.95	303.21	553.95	943.83	923.02	20.81	45.355	
3,900.00	3,872.50	3,806.64	3,765.12	9.48	12.68	-144.97	307.40	565.90	965.09	943.76	21.33	45.248	
4,000.00	3,971.70	3,908.93	3,862.01	9.71	13.02	-145.00	311.60	577.86	986.35	964.50	21.85	45.134	
4,100.00	4,070.91	3,988.79	3,958.90	9.95	13.28	-145.02	315.80	589.81	1,007.61	985.29	22.32	45.152	
4,200.00	4,170.11	4,086.50	4,055.79	10.19	13.60	-145.04	320.00	601.76	1,028.87	1,006.03	22.84	45.052	
4,300.00	4,269.32	4,184.21	4,152.67	10.44	13.92	-145.06	324.20	613.72	1,050.13	1,026.77	23.36	44.949	
4,400.00	4,368.52	4,281.92	4,249.56	10.69	14.24	-145.08	328.39	625.67	1,071.40	1,047.50	23.89	44.841	
4,500.00	4,467.73	4,379.64	4,346.45	10.95	14.56	-145.10	332.59	637.62	1,092.66	1,068.23	24.43	44.732	
4,600.00	4,566.93	4,477.35	4,443.34	11.21	14.88	-145.12	336.79	649.58	1,113.92	1,088.96	24.96	44.620	
4,700.00	4,666.14	4,575.06	4,540.23	11.47	15.20	-145.13	340.99	661.53	1,135.18	1,109.68	25.51	44.507	
4,800.00	4,765.34	4,672.78	4,637.11	11.73	15.52	-145.15	345.19	673.49	1,156.45	1,130.40	26.05	44.393	
4,900.00	4,864.55	4,770.49	4,734.00	12.00	15.84	-145.17	349.38	685.44	1,177.71	1,151.11	26.60	44.278	
5,000.00	4,963.75	4,868.20	4,830.89	12.27	16.16	-145.18	353.58	697.39	1,198.97	1,171.82	27.15	44.164	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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	46.59	140.98	149.06	205.17				
100.00	100.00	101.00	99.00	3.28	3.28	46.59	140.98	149.06	205.17	197.64	7.53	27.250	
200.00	200.00	199.00	199.00	3.31	3.30	46.59	140.98	149.06	205.17	197.59	7.57	27.090	CC, ES, SF
300.00	299.98	292.91	292.90	3.34	3.35	-137.79	141.45	150.49	207.91	200.26	7.65	27.169	
400.00	399.84	386.33	386.20	3.40	3.41	-138.04	142.85	154.82	216.18	208.41	7.77	27.828	
500.00	499.45	478.89	478.45	3.49	3.49	-138.39	145.17	161.96	229.95	222.02	7.93	29.003	
600.00	598.74	570.21	569.18	3.60	3.59	-138.86	148.36	171.77	248.96	240.83	8.13	30.608	
700.00	697.94	666.49	664.59	3.74	3.72	-139.31	152.36	184.09	270.36	261.98	8.38	32.254	
800.00	797.15	764.14	761.34	3.91	3.88	-139.70	156.44	196.63	291.82	283.15	8.68	33.632	
900.00	896.35	861.79	858.10	4.10	4.06	-140.03	160.51	209.17	313.30	304.29	9.01	34.790	
1,000.00	995.55	959.45	954.86	4.31	4.26	-140.33	164.59	221.71	334.78	325.42	9.37	35.741	
1,100.00	1,094.76	1,057.10	1,051.62	4.53	4.48	-140.58	168.66	234.25	356.28	346.52	9.76	36.515	
1,200.00	1,193.96	1,154.75	1,148.37	4.77	4.71	-140.81	172.74	246.79	377.77	367.60	10.17	37.140	
1,300.00	1,293.17	1,252.40	1,245.13	5.02	4.95	-141.01	176.81	259.33	399.28	388.67	10.61	37.640	
1,400.00	1,392.37	1,350.05	1,341.89	5.28	5.20	-141.19	180.89	271.87	420.78	409.72	11.06	38.037	
1,500.00	1,491.58	1,447.70	1,438.65	5.55	5.46	-141.36	184.96	284.41	442.30	430.76	11.53	38.350	
1,600.00	1,590.78	1,545.36	1,535.40	5.83	5.73	-141.50	189.04	296.95	463.81	451.79	12.02	38.591	
1,700.00	1,689.99	1,643.01	1,632.16	6.12	6.01	-141.64	193.11	309.49	485.33	472.81	12.52	38.775	
1,800.00	1,789.19	1,740.66	1,728.92	6.41	6.29	-141.76	197.18	322.03	506.85	493.82	13.03	38.913	
1,900.00	1,888.40	1,838.31	1,825.67	6.56	6.52	-141.88	201.26	334.57	528.37	515.37	12.99	40.663	
2,000.00	1,987.60	1,935.96	1,922.43	6.59	6.63	-141.98	205.33	347.11	549.89	536.78	13.11	41.949	
2,100.00	2,086.81	2,033.61	2,019.19	6.64	6.66	-142.08	209.41	359.65	571.41	558.24	13.17	43.390	
2,200.00	2,186.01	2,131.26	2,115.95	6.70	6.71	-142.17	213.48	372.18	592.94	579.68	13.26	44.723	
2,300.00	2,285.22	2,228.92	2,212.70	6.77	6.77	-142.25	217.56	384.72	614.47	601.09	13.37	45.943	
2,400.00	2,384.42	2,326.57	2,309.46	6.86	6.85	-142.33	221.63	397.26	636.00	622.48	13.52	47.049	
2,500.00	2,483.63	2,424.22	2,406.22	6.96	6.94	-142.41	225.71	409.80	657.52	643.84	13.69	48.041	
2,600.00	2,582.83	2,521.87	2,502.98	7.08	7.04	-142.47	229.78	422.34	679.06	665.17	13.88	48.920	
2,700.00	2,682.04	2,619.52	2,599.73	7.21	7.15	-142.54	233.86	434.88	700.59	686.49	14.10	49.691	
2,800.00	2,781.24	2,717.17	2,696.49	7.34	7.27	-142.60	237.93	447.42	722.12	707.78	14.34	50.359	
2,900.00	2,880.45	2,814.83	2,793.25	7.50	7.40	-142.66	242.01	459.96	743.65	729.05	14.60	50.929	
3,000.00	2,979.65	2,912.48	2,890.01	7.66	7.55	-142.71	246.08	472.50	765.19	750.30	14.88	51.409	
3,100.00	3,078.86	3,010.13	2,986.76	7.83	7.70	-142.76	250.15	485.04	786.72	771.53	15.19	51.805	
3,200.00	3,178.06	3,107.78	3,083.52	8.01	7.86	-142.81	254.23	497.58	808.25	792.75	15.51	52.127	
3,300.00	3,277.27	3,205.43	3,180.28	8.20	8.03	-142.85	258.30	510.12	829.79	813.95	15.84	52.376	
3,400.00	3,376.47	3,303.08	3,277.03	8.39	8.21	-142.90	262.38	522.66	851.32	835.13	16.20	52.565	
3,500.00	3,475.68	3,400.74	3,373.79	8.60	8.40	-142.94	266.45	535.20	872.86	856.30	16.56	52.699	
3,600.00	3,574.88	3,498.39	3,470.55	8.81	8.59	-142.98	270.53	547.74	894.40	877.45	16.94	52.783	
3,700.00	3,674.09	3,596.04	3,567.31	9.02	8.79	-143.01	274.60	560.28	915.93	898.60	17.34	52.825	
3,800.00	3,773.29	3,706.31	3,664.06	9.25	9.02	-143.05	278.68	572.82	937.47	919.70	17.77	52.751	
3,900.00	3,872.50	3,808.66	3,760.82	9.48	9.24	-143.08	282.75	585.36	959.01	940.81	18.20	52.693	
4,000.00	3,971.70	3,888.99	3,857.58	9.71	9.42	-143.12	286.83	597.90	980.55	961.96	18.59	52.743	
4,100.00	4,070.91	3,986.64	3,954.34	9.95	9.64	-143.15	290.90	610.44	1,002.09	983.06	19.03	52.662	
4,200.00	4,170.11	4,084.30	4,051.09	10.19	9.87	-143.18	294.97	622.98	1,023.62	1,004.15	19.48	52.560	
4,300.00	4,269.32	4,181.95	4,147.85	10.44	10.10	-143.20	299.05	635.52	1,045.16	1,025.23	19.93	52.441	
4,400.00	4,368.52	4,279.60	4,244.61	10.69	10.33	-143.23	303.12	648.06	1,066.70	1,046.31	20.39	52.307	
4,500.00	4,467.73	4,377.25	4,341.37	10.95	10.57	-143.26	307.20	660.60	1,088.24	1,067.38	20.86	52.160	
4,600.00	4,566.93	4,474.90	4,438.12	11.21	10.81	-143.28	311.27	673.14	1,109.78	1,088.44	21.34	52.004	
4,700.00	4,666.14	4,572.55	4,534.88	11.47	11.06	-143.31	315.35	685.68	1,131.32	1,109.50	21.82	51.839	
4,800.00	4,765.34	4,670.21	4,631.64	11.73	11.30	-143.33	319.42	698.22	1,152.86	1,130.55	22.31	51.667	
4,900.00	4,864.55	4,767.86	4,728.39	12.00	11.55	-143.35	323.50	710.76	1,174.40	1,151.59	22.81	51.491	
5,000.00	4,963.75	4,865.51	4,825.15	12.27	11.81	-143.38	327.57	723.30	1,195.94	1,172.63	23.31	51.310	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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	39.41	181.06	148.78	234.34				
100.00	100.00	101.00	99.00	3.28	3.28	39.41	181.06	148.78	234.34	226.81	7.53	31.125	
200.00	200.00	199.00	199.00	3.31	3.30	39.41	181.06	148.78	234.34	226.77	7.57	30.942	CC, ES, SF
300.00	299.98	291.93	291.91	3.34	3.35	-144.95	181.77	150.07	237.24	229.59	7.65	31.002	
400.00	399.84	384.31	384.18	3.40	3.41	-145.11	183.92	153.97	246.00	238.23	7.77	31.664	
500.00	499.45	475.74	475.32	3.49	3.49	-145.35	187.46	160.39	260.56	252.63	7.93	32.863	
600.00	598.74	565.83	564.84	3.60	3.59	-145.69	192.33	169.20	280.64	272.51	8.13	34.509	
700.00	697.94	658.48	656.57	3.74	3.71	-145.98	198.60	180.55	303.81	295.45	8.37	36.314	
800.00	797.15	755.64	752.71	3.91	3.87	-146.22	205.39	192.86	327.43	318.77	8.66	37.827	
900.00	896.35	852.80	848.85	4.10	4.05	-146.42	212.19	205.17	351.05	342.07	8.98	39.099	
1,000.00	995.55	949.97	944.99	4.31	4.25	-146.59	218.98	217.48	374.67	365.34	9.33	40.144	
1,100.00	1,094.76	1,047.13	1,041.13	4.53	4.47	-146.75	225.78	229.79	398.30	388.58	9.72	40.994	
1,200.00	1,193.96	1,144.29	1,137.27	4.77	4.71	-146.89	232.57	242.10	421.93	411.80	10.12	41.678	
1,300.00	1,293.17	1,241.46	1,233.41	5.02	4.95	-147.01	239.37	254.41	445.56	435.00	10.55	42.221	
1,400.00	1,392.37	1,338.62	1,329.56	5.28	5.21	-147.12	246.16	266.72	469.19	458.19	11.00	42.655	
1,500.00	1,491.58	1,435.78	1,425.70	5.55	5.47	-147.22	252.96	279.02	492.82	481.36	11.46	42.992	
1,600.00	1,590.78	1,532.95	1,521.84	5.83	5.75	-147.31	259.75	291.33	516.46	504.52	11.94	43.250	
1,700.00	1,689.99	1,630.11	1,617.98	6.12	6.03	-147.39	266.55	303.64	540.09	527.66	12.43	43.445	
1,800.00	1,789.19	1,727.28	1,714.12	6.41	6.31	-147.47	273.34	315.95	563.73	550.80	12.93	43.588	
1,900.00	1,888.40	1,824.44	1,810.26	6.66	6.57	-147.54	280.14	328.26	587.37	574.45	12.92	45.477	
2,000.00	1,987.60	1,921.60	1,906.40	6.59	6.70	-147.60	286.93	340.57	611.01	597.96	13.05	46.837	
2,100.00	2,086.81	2,018.77	2,002.54	6.64	6.73	-147.66	293.73	352.88	634.65	621.55	13.10	48.438	
2,200.00	2,186.01	2,115.93	2,098.68	6.70	6.78	-147.72	300.52	365.19	658.29	645.10	13.19	49.918	
2,300.00	2,285.22	2,213.09	2,194.82	6.77	6.84	-147.77	307.32	377.49	681.93	668.63	13.30	51.274	
2,400.00	2,384.42	2,310.26	2,290.97	6.86	6.92	-147.82	314.11	389.80	705.57	692.13	13.44	52.503	
2,500.00	2,483.63	2,407.42	2,387.11	6.96	7.01	-147.86	320.91	402.11	729.21	715.61	13.60	53.604	
2,600.00	2,582.83	2,504.58	2,483.25	7.08	7.11	-147.90	327.70	414.42	752.86	739.06	13.79	54.579	
2,700.00	2,682.04	2,601.75	2,579.39	7.21	7.22	-147.94	334.49	426.73	776.50	762.49	14.01	55.435	
2,800.00	2,781.24	2,701.09	2,675.53	7.34	7.34	-147.98	341.29	439.04	800.14	785.89	14.25	56.162	
2,900.00	2,880.45	2,803.92	2,771.67	7.50	7.49	-148.02	348.08	451.35	823.78	809.27	14.51	56.760	
3,000.00	2,979.65	2,906.76	2,867.81	7.66	7.64	-148.05	354.88	463.66	847.43	832.63	14.80	57.253	
3,100.00	3,078.86	3,009.60	2,963.95	7.83	7.80	-148.08	361.67	475.96	871.07	855.96	15.11	57.649	
3,200.00	3,178.06	3,087.57	3,060.09	8.01	7.94	-148.11	368.47	488.27	894.71	879.32	15.40	58.111	
3,300.00	3,277.27	3,184.73	3,156.23	8.20	8.11	-148.14	375.26	500.58	918.36	902.63	15.73	58.382	
3,400.00	3,376.47	3,281.89	3,252.38	8.39	8.29	-148.16	382.06	512.89	942.00	925.92	16.08	58.585	
3,500.00	3,475.68	3,379.06	3,348.52	8.60	8.47	-148.19	388.85	525.20	965.65	949.20	16.44	58.725	
3,600.00	3,574.88	3,476.22	3,444.66	8.81	8.67	-148.21	395.65	537.51	989.29	972.47	16.82	58.811	
3,700.00	3,674.09	3,573.38	3,540.80	9.02	8.87	-148.24	402.44	549.82	1,012.94	995.72	17.21	58.849	
3,800.00	3,773.29	3,670.55	3,636.94	9.25	9.07	-148.26	409.24	562.13	1,036.58	1,018.97	17.62	58.845	
3,900.00	3,872.50	3,767.71	3,733.08	9.48	9.28	-148.28	416.03	574.43	1,060.23	1,042.20	18.03	58.804	
4,000.00	3,971.70	3,864.88	3,829.22	9.71	9.50	-148.30	422.83	586.74	1,083.87	1,065.42	18.45	58.732	
4,100.00	4,070.91	3,962.04	3,925.36	9.95	9.72	-148.32	429.62	599.05	1,107.52	1,088.63	18.89	58.633	
4,200.00	4,170.11	4,059.20	4,021.50	10.19	9.95	-148.34	436.42	611.36	1,131.16	1,111.83	19.33	58.510	
4,300.00	4,269.32	4,156.37	4,117.64	10.44	10.18	-148.36	443.21	623.67	1,154.81	1,135.02	19.78	58.369	
4,400.00	4,368.52	4,253.53	4,213.79	10.69	10.42	-148.37	450.01	635.98	1,178.45	1,158.21	20.24	58.211	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	1.00	-1.00	3.28	3.28	82.11	20.77	149.89	151.32					
100.00	100.00	101.00	99.00	3.28	3.28	82.11	20.77	149.89	151.32	143.79	7.53	20.099		
200.00	200.00	199.00	199.00	3.31	3.30	82.11	20.77	149.89	151.32	143.75	7.57	19.981	CC, ES	
300.00	299.98	295.55	295.53	3.34	3.34	-102.34	19.76	151.13	152.82	145.16	7.65	19.974		
400.00	399.84	391.92	391.78	3.40	3.40	-102.75	16.70	154.87	157.34	149.58	7.76	20.272		
500.00	499.45	488.01	487.53	3.49	3.48	-103.37	11.60	161.09	164.90	156.98	7.92	20.820		
600.00	598.74	583.70	582.56	3.60	3.59	-104.15	4.51	169.75	175.44	167.31	8.13	21.569		
700.00	697.94	679.68	677.45	3.74	3.73	-104.39	-4.58	180.86	188.28	179.88	8.40	22.412		
800.00	797.15	778.76	775.24	3.91	3.91	-104.37	-14.65	193.17	201.84	193.11	8.73	23.117		
900.00	896.35	877.84	873.03	4.10	4.12	-104.34	-24.73	205.48	215.39	206.29	9.11	23.652		
1,000.00	995.55	976.91	970.83	4.31	4.34	-104.33	-34.81	217.79	228.95	219.43	9.52	24.045		
1,100.00	1,094.76	1,075.99	1,068.62	4.53	4.59	-104.31	-44.88	230.10	242.51	232.54	9.97	24.322		
1,200.00	1,193.96	1,175.07	1,166.41	4.77	4.86	-104.29	-54.96	242.41	256.07	245.62	10.45	24.507		
1,300.00	1,293.17	1,274.14	1,264.20	5.02	5.14	-104.28	-65.03	254.72	269.62	258.67	10.95	24.619		
1,400.00	1,392.37	1,373.22	1,361.99	5.28	5.43	-104.27	-75.11	267.03	283.18	271.71	11.48	24.678		
1,500.00	1,491.58	1,472.30	1,459.78	5.55	5.73	-104.26	-85.19	279.34	296.74	284.72	12.02	24.690		
1,600.00	1,590.78	1,571.37	1,557.57	5.83	6.04	-104.25	-95.26	291.65	310.29	297.72	12.58	24.672		
1,700.00	1,689.99	1,670.45	1,655.36	6.12	6.35	-104.24	-105.34	303.96	323.85	310.70	13.15	24.630		
1,800.00	1,789.19	1,769.53	1,753.16	6.41	6.68	-104.23	-115.42	316.28	337.41	323.68	13.73	24.571		
1,900.00	1,888.40	1,868.60	1,850.95	6.56	6.90	-104.22	-125.49	328.59	350.97	337.26	13.71	25.599		
2,000.00	1,987.60	1,967.68	1,948.74	6.59	6.98	-104.21	-135.57	340.90	364.52	350.71	13.81	26.395		
2,100.00	2,086.81	2,066.76	2,046.53	6.64	7.03	-104.21	-145.64	353.21	378.08	364.19	13.89	27.211		
2,200.00	2,186.01	2,165.83	2,144.32	6.70	7.09	-104.20	-155.72	365.52	391.64	377.63	14.01	27.955		
2,300.00	2,285.22	2,264.91	2,242.11	6.77	7.17	-104.19	-165.80	377.83	405.20	391.04	14.15	28.628		
2,400.00	2,384.42	2,363.99	2,339.90	6.86	7.27	-104.19	-175.87	390.14	418.75	404.42	14.33	29.228		
2,500.00	2,483.63	2,463.06	2,437.69	6.96	7.37	-104.18	-185.95	402.45	432.31	417.78	14.53	29.756		
2,600.00	2,582.83	2,562.14	2,535.48	7.08	7.49	-104.18	-196.03	414.76	445.87	431.11	14.76	30.216		
2,700.00	2,682.04	2,661.22	2,633.28	7.21	7.63	-104.17	-206.10	427.07	459.42	444.41	15.01	30.609		
2,800.00	2,781.24	2,760.29	2,731.07	7.34	7.78	-104.17	-216.18	439.38	472.98	457.69	15.29	30.941		
2,900.00	2,880.45	2,859.37	2,828.86	7.50	7.93	-104.17	-226.25	451.70	486.54	470.95	15.59	31.216		
3,000.00	2,979.65	2,958.45	2,926.65	7.66	8.10	-104.16	-236.33	464.01	500.10	484.19	15.91	31.438		
3,100.00	3,078.86	3,057.52	3,024.44	7.83	8.28	-104.16	-246.41	476.32	513.65	497.40	16.25	31.612		
3,200.00	3,178.06	3,156.60	3,122.23	8.01	8.47	-104.15	-256.48	488.63	527.21	510.60	16.61	31.743		
3,300.00	3,277.27	3,255.68	3,220.02	8.20	8.67	-104.15	-266.56	500.94	540.77	523.78	16.99	31.836		
3,400.00	3,376.47	3,354.75	3,317.81	8.39	8.88	-104.15	-276.64	513.25	554.32	536.94	17.38	31.894		
3,500.00	3,475.68	3,453.83	3,415.61	8.60	9.09	-104.15	-286.71	525.56	567.88	550.09	17.79	31.923		
3,600.00	3,574.88	3,552.91	3,513.40	8.81	9.31	-104.14	-296.79	537.87	581.44	563.23	18.21	31.925		
3,700.00	3,674.09	3,651.98	3,611.19	9.02	9.54	-104.14	-306.86	550.18	595.00	576.35	18.65	31.904		
3,800.00	3,773.29	3,751.06	3,708.98	9.25	9.78	-104.14	-316.94	562.49	608.55	589.46	19.10	31.864		
3,900.00	3,872.50	3,850.14	3,806.77	9.48	10.02	-104.13	-327.02	574.80	622.11	602.55	19.56	31.808		
4,000.00	3,971.70	3,949.21	3,904.56	9.71	10.26	-104.13	-337.09	587.12	635.67	615.64	20.03	31.737		
4,100.00	4,070.91	4,048.29	4,002.35	9.95	10.51	-104.13	-347.17	599.43	649.23	628.72	20.51	31.654		
4,200.00	4,170.11	4,147.37	4,100.14	10.19	10.77	-104.13	-357.25	611.74	662.78	641.78	21.00	31.561		
4,300.00	4,269.32	4,246.44	4,197.93	10.44	11.03	-104.13	-367.32	624.05	676.34	654.84	21.50	31.460		
4,400.00	4,368.52	4,345.52	4,295.73	10.69	11.29	-104.12	-377.40	636.36	689.90	667.89	22.00	31.352		
4,500.00	4,467.73	4,444.60	4,393.52	10.95	11.56	-104.12	-387.47	648.67	703.45	680.94	22.52	31.239		
4,600.00	4,566.93	4,543.67	4,491.31	11.21	11.83	-104.12	-397.55	660.98	717.01	693.97	23.04	31.122		
4,700.00	4,666.14	4,642.75	4,589.10	11.47	12.11	-104.12	-407.63	673.29	730.57	707.00	23.57	31.001		
4,800.00	4,765.34	4,741.83	4,686.89	11.73	12.39	-104.12	-417.70	685.60	744.13	720.03	24.10	30.878		
4,900.00	4,864.55	4,840.91	4,784.68	12.00	12.67	-104.12	-427.78	697.91	757.68	733.05	24.64	30.754		
5,000.00	4,963.75	4,939.98	4,882.47	12.27	12.95	-104.11	-437.86	710.22	771.24	746.06	25.18	30.628		
5,100.00	5,062.96	5,039.06	4,980.26	12.54	13.24	-104.11	-447.93	722.54	784.80	759.07	25.73	30.502		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,138.14	5,078.05	12.81	13.52	-104.11	-458.01	734.85	798.36	772.07	26.28	30.376		
5,300.00	5,261.37	5,237.21	5,175.85	13.09	13.82	-104.11	-468.08	747.16	811.91	785.07	26.84	30.250		
5,400.00	5,360.57	5,336.29	5,273.64	13.37	14.11	-104.11	-478.16	759.47	825.47	798.07	27.40	30.125		
5,500.00	5,459.78	5,435.37	5,371.43	13.65	14.40	-104.11	-488.24	771.78	839.03	811.06	27.97	30.001		
5,600.00	5,558.98	5,534.44	5,469.22	13.93	14.70	-104.11	-498.31	784.09	852.58	824.05	28.54	29.878		
5,700.00	5,658.18	5,633.52	5,567.01	14.21	15.00	-104.10	-508.39	796.40	866.14	837.03	29.11	29.756		
5,800.00	5,757.39	5,732.60	5,664.80	14.50	15.30	-104.10	-518.47	808.71	879.70	850.02	29.68	29.636		
5,900.00	5,856.59	5,831.67	5,762.59	14.79	15.60	-104.10	-528.54	821.02	893.26	863.00	30.26	29.518		
6,000.00	5,955.80	5,930.75	5,860.38	15.07	15.90	-104.10	-538.62	833.33	906.81	875.97	30.84	29.401		
6,100.00	6,055.00	6,029.83	5,958.18	15.36	16.21	-104.10	-548.69	845.64	920.37	888.94	31.43	29.286		
6,200.00	6,154.21	6,128.90	6,055.97	15.65	16.51	-104.10	-558.77	857.96	933.93	901.92	32.01	29.174		
6,300.00	6,253.41	7,943.99	7,168.55	15.94	20.67	178.87	-669.76	-54.09	919.05	890.22	28.83	31.873		
6,400.00	6,352.62	7,945.06	7,168.55	16.24	20.68	178.54	-669.75	-55.16	821.41	792.21	29.20	28.128		
6,500.00	6,451.82	7,946.12	7,168.55	16.53	20.69	178.21	-669.75	-56.22	724.42	694.80	29.62	24.459		
6,600.00	6,551.03	7,947.19	7,168.55	16.83	20.70	177.89	-669.75	-57.29	628.37	598.27	30.10	20.874		
6,700.00	6,650.23	7,948.26	7,168.56	17.12	20.71	177.56	-669.74	-58.36	533.77	503.07	30.70	17.385		
6,800.00	6,749.44	7,948.51	7,168.56	17.41	20.71	-166.47	-669.74	-58.61	441.55	410.05	31.50	14.019		
6,900.00	6,847.87	7,936.70	7,168.54	17.64	20.61	-139.06	-669.78	-46.80	354.06	321.52	32.54	10.880		
7,000.00	6,943.29	7,909.52	7,168.49	17.88	20.36	-129.59	-669.87	-19.62	276.62	242.63	33.99	8.138		
7,100.00	7,033.35	7,867.65	7,168.42	18.10	20.02	-119.94	-670.01	22.25	217.28	181.44	35.83	6.063		
7,200.00	7,115.82	7,812.11	7,168.33	18.32	19.58	-106.20	-670.19	77.79	186.07	149.05	37.02	5.026		
7,246.70	7,151.16	7,781.87	7,168.28	18.41	19.37	-98.38	-670.29	108.03	182.71	145.81	36.90	4.951 SF		
7,300.00	7,188.68	7,744.27	7,168.22	18.52	19.13	-88.91	-670.42	145.62	186.49	150.25	36.24	5.146		
7,400.00	7,250.14	7,665.81	7,168.09	18.71	18.70	-72.07	-670.67	224.09	207.46	172.99	34.48	6.018		
7,500.00	7,298.67	7,585.07	7,167.37	18.92	18.42	-59.76	-670.88	304.81	234.34	201.29	33.05	7.090		
7,600.00	7,333.08	7,514.25	7,160.31	19.20	18.30	-51.44	-670.40	375.24	263.11	231.10	32.01	8.220		
7,700.00	7,352.53	7,445.43	7,146.05	19.62	18.25	-45.25	-669.17	442.53	291.83	260.45	31.37	9.301		
7,800.00	7,357.04	7,378.28	7,125.25	20.23	18.23	-41.02	-667.26	506.32	319.06	287.95	31.11	10.256		
7,900.00	7,357.17	7,315.34	7,099.80	21.00	18.23	-38.20	-664.85	563.79	352.41	321.31	31.11	11.328		
8,000.00	7,357.31	7,258.10	7,071.84	21.89	18.24	-35.54	-662.15	613.65	394.78	363.47	31.31	12.608		
8,100.00	7,357.45	7,200.00	7,039.03	22.89	18.25	-32.89	-658.95	661.47	445.37	413.76	31.61	14.090		
8,200.00	7,357.58	7,160.61	7,014.38	23.96	18.26	-31.16	-656.53	692.09	502.86	470.73	32.13	15.649		
8,300.00	7,357.72	7,119.69	6,986.83	25.11	18.27	-29.46	-653.81	722.21	566.45	533.82	32.63	17.359		
8,400.00	7,357.86	7,083.33	6,960.78	26.31	18.27	-28.04	-651.22	747.44	635.10	601.97	33.13	19.170		
8,500.00	7,357.99	7,050.00	6,935.68	27.56	18.27	-26.81	-648.72	769.22	707.95	674.36	33.59	21.073		
8,600.00	7,358.13	7,022.25	6,913.94	28.86	18.27	-25.85	-646.55	786.32	784.32	750.28	34.04	23.043		
8,700.00	7,358.27	7,000.00	6,895.98	30.19	18.27	-25.11	-644.75	799.34	863.65	829.20	34.45	25.071		
8,800.00	7,358.40	6,973.58	6,874.10	31.55	18.26	-24.28	-642.56	813.96	945.41	910.62	34.79	27.174		
8,900.00	7,358.54	6,950.00	6,854.06	32.95	18.26	-23.58	-640.55	826.24	1,029.28	994.17	35.10	29.320		
9,000.00	7,358.68	6,934.33	6,840.50	34.36	18.26	-23.14	-639.18	833.98	1,114.89	1,079.49	35.40	31.493		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-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
0.00	0.00	1.00	-1.00	3.28	3.28	74.77	40.80	149.89	155.35				
100.00	100.00	101.00	99.00	3.28	3.28	74.77	40.80	149.89	155.35	147.82	7.53	20.633	
200.00	200.00	199.00	199.00	3.31	3.30	74.77	40.80	149.89	155.35	147.77	7.57	20.512	CC, ES
300.00	299.98	295.30	295.29	3.34	3.34	-109.66	40.02	151.27	157.10	149.45	7.65	20.533	
400.00	399.84	391.38	391.24	3.40	3.40	-110.04	37.65	155.45	162.40	154.64	7.76	20.920	
500.00	499.45	487.08	486.60	3.49	3.48	-110.60	33.70	162.39	171.26	163.34	7.92	21.617	
600.00	598.74	582.25	581.11	3.60	3.59	-111.29	28.22	172.03	183.57	175.44	8.14	22.563	
700.00	697.94	680.13	678.03	3.74	3.73	-111.71	21.43	183.99	197.77	189.37	8.41	23.528	
800.00	797.15	779.10	776.00	3.91	3.90	-112.05	14.51	196.18	212.06	203.33	8.73	24.297	
900.00	896.35	878.07	873.97	4.10	4.10	-112.35	7.59	208.36	226.35	217.26	9.09	24.896	
1,000.00	995.55	977.03	971.94	4.31	4.31	-112.61	0.67	220.54	240.65	231.16	9.49	25.350	
1,100.00	1,094.76	1,076.00	1,069.91	4.53	4.54	-112.84	-6.26	232.73	254.95	245.03	9.93	25.685	
1,200.00	1,193.96	1,174.97	1,167.88	4.77	4.79	-113.05	-13.18	244.91	269.26	258.87	10.39	25.923	
1,300.00	1,293.17	1,273.94	1,265.85	5.02	5.05	-113.24	-20.10	257.10	283.57	272.69	10.87	26.083	
1,400.00	1,392.37	1,372.90	1,363.82	5.28	5.32	-113.41	-27.02	269.28	297.88	286.50	11.38	26.185	
1,500.00	1,491.58	1,471.87	1,461.79	5.55	5.60	-113.56	-33.94	281.47	312.19	300.29	11.90	26.237	
1,600.00	1,590.78	1,570.84	1,559.76	5.83	5.89	-113.70	-40.86	293.65	326.51	314.07	12.44	26.253	
1,700.00	1,689.99	1,669.80	1,657.73	6.12	6.18	-113.83	-47.78	305.83	340.83	327.84	12.99	26.242	
1,800.00	1,789.19	1,768.77	1,755.70	6.41	6.49	-113.95	-54.71	318.02	355.14	341.59	13.55	26.209	
1,900.00	1,888.40	1,867.74	1,853.67	6.56	6.69	-114.06	-61.63	330.20	369.47	355.95	13.52	27.336	
2,000.00	1,987.60	1,966.70	1,951.64	6.59	6.77	-114.16	-68.55	342.39	383.79	370.18	13.61	28.196	
2,100.00	2,086.81	2,065.67	2,049.61	6.64	6.81	-114.25	-75.47	354.57	398.11	384.42	13.69	29.079	
2,200.00	2,186.01	2,164.64	2,147.58	6.70	6.87	-114.34	-82.39	366.76	412.43	398.63	13.80	29.887	
2,300.00	2,285.22	2,263.61	2,245.55	6.77	6.94	-114.42	-89.31	378.94	426.76	412.82	13.94	30.619	
2,400.00	2,384.42	2,362.57	2,343.52	6.86	7.03	-114.50	-96.24	391.12	441.08	426.98	14.10	31.275	
2,500.00	2,483.63	2,461.54	2,441.49	6.96	7.12	-114.57	-103.16	403.31	455.41	441.11	14.30	31.854	
2,600.00	2,582.83	2,560.51	2,539.46	7.08	7.24	-114.64	-110.08	415.49	469.74	455.22	14.52	32.361	
2,700.00	2,682.04	2,659.47	2,637.43	7.21	7.36	-114.70	-117.00	427.68	484.06	469.30	14.76	32.797	
2,800.00	2,781.24	2,758.44	2,735.40	7.34	7.50	-114.76	-123.92	439.86	498.39	483.37	15.03	33.167	
2,900.00	2,880.45	2,857.41	2,833.37	7.50	7.65	-114.81	-130.84	452.05	512.72	497.40	15.32	33.476	
3,000.00	2,979.65	2,956.37	2,931.34	7.66	7.80	-114.87	-137.76	464.23	527.05	511.42	15.63	33.728	
3,100.00	3,078.86	3,055.34	3,029.31	7.83	7.97	-114.92	-144.69	476.41	541.38	525.42	15.96	33.928	
3,200.00	3,178.06	3,154.31	3,127.28	8.01	8.15	-114.96	-151.61	488.60	555.71	539.40	16.31	34.082	
3,300.00	3,277.27	3,253.27	3,225.25	8.20	8.34	-115.01	-158.53	500.78	570.04	553.37	16.67	34.194	
3,400.00	3,376.47	3,352.24	3,323.22	8.39	8.53	-115.05	-165.45	512.97	584.37	567.32	17.05	34.268	
3,500.00	3,475.68	3,451.21	3,421.19	8.60	8.73	-115.09	-172.37	525.15	598.70	581.25	17.45	34.310	
3,600.00	3,574.88	3,550.18	3,519.16	8.81	8.94	-115.13	-179.29	537.34	613.03	595.17	17.86	34.323	
3,700.00	3,674.09	3,649.14	3,617.13	9.02	9.16	-115.17	-186.22	549.52	627.36	609.08	18.28	34.311	
3,800.00	3,773.29	3,748.11	3,715.09	9.25	9.38	-115.21	-193.14	561.70	641.69	622.97	18.72	34.278	
3,900.00	3,872.50	3,847.08	3,813.06	9.48	9.61	-115.24	-200.06	573.89	656.03	636.86	19.17	34.226	
4,000.00	3,971.70	3,946.04	3,911.03	9.71	9.84	-115.27	-206.98	586.07	670.36	650.73	19.63	34.158	
4,100.00	4,070.91	4,045.01	4,009.00	9.95	10.08	-115.30	-213.90	598.26	684.69	664.60	20.09	34.076	
4,200.00	4,170.11	4,143.98	4,106.97	10.19	10.32	-115.33	-220.82	610.44	699.02	678.45	20.57	33.984	
4,300.00	4,269.32	4,242.94	4,204.94	10.44	10.57	-115.36	-227.74	622.62	713.35	692.30	21.05	33.882	
4,400.00	4,368.52	4,341.91	4,302.91	10.69	10.82	-115.39	-234.67	634.81	727.69	706.14	21.55	33.772	
4,500.00	4,467.73	4,440.88	4,400.88	10.95	11.07	-115.42	-241.59	646.99	742.02	719.97	22.05	33.656	
4,600.00	4,566.93	4,539.84	4,498.85	11.21	11.33	-115.44	-248.51	659.18	756.35	733.80	22.55	33.535	
4,700.00	4,666.14	4,638.81	4,596.82	11.47	11.59	-115.47	-255.43	671.36	770.69	747.62	23.07	33.410	
4,800.00	4,765.34	4,737.78	4,694.79	11.73	11.86	-115.49	-262.35	683.55	785.02	761.43	23.59	33.283	
4,900.00	4,864.55	4,836.75	4,792.76	12.00	12.12	-115.51	-269.27	695.73	799.35	775.24	24.11	33.153	
5,000.00	4,963.75	4,935.71	4,890.73	12.27	12.39	-115.53	-276.19	707.91	813.69	789.05	24.64	33.022	
5,100.00	5,062.96	5,034.68	4,988.70	12.54	12.66	-115.56	-283.12	720.10	828.02	802.84	25.18	32.890	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,133.65	5,086.67	12.81	12.94	-115.58	-290.04	732.28	842.35	816.64	25.72	32.757		
5,300.00	5,261.37	5,232.61	5,184.64	13.09	13.22	-115.60	-296.96	744.47	856.69	830.43	26.26	32.625		
5,400.00	5,360.57	5,331.58	5,282.61	13.37	13.49	-115.62	-303.88	756.65	871.02	844.22	26.81	32.493		
5,500.00	5,459.78	5,430.55	5,380.58	13.65	13.78	-115.63	-310.80	768.84	885.36	858.00	27.36	32.362		
5,600.00	5,558.98	5,529.51	5,478.55	13.93	14.06	-115.65	-317.72	781.02	899.69	871.78	27.91	32.233		
5,700.00	5,658.18	5,628.48	5,576.52	14.21	14.34	-115.67	-324.65	793.20	914.02	885.55	28.47	32.104		
5,800.00	5,757.39	5,727.45	5,674.49	14.50	14.63	-115.69	-331.57	805.39	928.36	899.33	29.03	31.977		
5,900.00	5,856.59	5,826.42	5,772.46	14.79	14.92	-115.70	-338.49	817.57	942.69	913.10	29.60	31.852		
6,000.00	5,955.80	5,925.38	5,870.43	15.07	15.20	-115.72	-345.41	829.76	957.03	926.86	30.16	31.728		
6,100.00	6,055.00	6,024.35	5,968.40	15.36	15.49	-115.73	-352.33	841.94	971.36	940.63	30.73	31.607		
6,200.00	6,154.21	6,123.32	6,066.37	15.65	15.79	-115.75	-359.25	854.13	985.70	954.39	31.31	31.487		
6,300.00	6,253.41	6,222.28	6,164.34	15.94	16.08	-115.76	-366.17	866.31	1,000.03	968.15	31.88	31.369		
6,400.00	6,352.62	6,321.33	6,262.92	16.24	16.37	-115.77	-373.09	878.49	1,014.36	981.48	32.45	31.250		
6,500.00	6,451.82	6,420.22	6,362.92	16.53	16.67	-115.78	-380.01	890.67	1,028.69	994.81	33.02	31.131		
6,600.00	6,551.03	6,519.12	6,462.92	16.83	16.97	-115.79	-386.93	902.85	1,043.01	1,008.14	33.59	31.012		
6,700.00	6,650.23	6,618.01	6,562.92	17.12	17.26	-115.80	-393.85	915.03	1,057.32	1,022.47	34.16	30.893		
6,800.00	6,749.44	6,716.82	6,662.92	17.41	17.55	-115.81	-400.77	927.21	1,071.63	1,036.77	34.73	30.774		
6,900.00	6,848.64	6,815.82	6,762.92	17.70	17.84	-115.82	-407.69	939.39	1,085.93	1,051.07	35.30	30.655		
7,000.00	6,947.85	6,914.82	6,862.92	17.99	18.13	-115.83	-414.61	951.57	1,100.23	1,065.36	35.87	30.536		
7,100.00	7,047.05	7,013.82	6,962.92	18.28	18.42	-115.84	-421.53	963.75	1,114.53	1,079.70	36.44	30.417		
7,200.00	7,146.25	7,112.82	7,062.92	18.57	18.71	-115.85	-428.45	975.93	1,128.79	1,094.04	37.01	30.298		
7,300.00	7,245.45	7,211.82	7,162.92	18.86	19.00	-115.86	-435.37	988.11	1,143.05	1,108.35	37.58	30.179		
7,400.00	7,344.65	7,310.82	7,262.92	19.15	19.29	-115.87	-442.29	1,000.29	1,157.31	1,122.61	38.15	30.060		
7,500.00	7,443.85	7,409.82	7,362.92	19.44	19.58	-115.88	-449.21	1,012.47	1,171.57	1,136.87	38.72	29.941		
7,600.00	7,543.05	7,508.82	7,462.92	19.73	19.87	-115.89	-456.13	1,024.65	1,185.83	1,151.13	39.29	29.822		
7,700.00	7,642.25	7,607.82	7,562.92	20.02	20.16	-115.90	-463.05	1,036.83	1,199.99	1,165.39	39.86	29.703		
7,800.00	7,741.45	7,706.82	7,662.92	20.31	20.45	-115.91	-469.97	1,049.01	1,214.25	1,179.65	40.43	29.584		
7,900.00	7,840.65	7,805.82	7,762.92	20.60	20.74	-115.92	-476.89	1,061.19	1,228.51	1,193.91	41.00	29.465		
8,000.00	7,939.85	7,904.82	7,862.92	20.89	21.03	-115.93	-483.81	1,073.37	1,242.77	1,208.17	41.57	29.346		
8,100.00	8,039.05	8,003.82	7,962.92	21.18	21.32	-115.94	-490.73	1,085.55	1,257.03	1,222.43	42.14	29.227		
8,200.00	8,138.25	8,102.82	8,062.92	21.47	21.61	-115.95	-497.65	1,097.73	1,271.29	1,236.69	42.71	29.108		
8,300.00	8,237.45	8,199.82	8,162.92	21.76	21.90	-115.96	-504.57	1,109.91	1,285.55	1,250.95	43.28	28.989		
8,400.00	8,336.65	8,299.82	8,262.92	22.05	22.19	-115.97	-511.49	1,122.09	1,299.81	1,265.21	43.85	28.870		
8,500.00	8,435.85	8,398.82	8,362.92	22.34	22.48	-115.98	-518.41	1,134.27	1,314.07	1,279.47	44.42	28.751		
8,600.00	8,535.05	8,497.82	8,462.92	22.63	22.77	-115.99	-525.33	1,146.45	1,328.33	1,293.73	44.99	28.632		
8,700.00	8,634.25	8,596.82	8,562.92	22.92	23.06	-116.00	-532.25	1,158.63	1,342.59	1,307.99	45.56	28.513		
8,800.00	8,733.45	8,695.82	8,662.92	23.21	23.35	-116.01	-539.17	1,170.81	1,356.85	1,322.25	46.13	28.394		
8,900.00	8,832.65	8,793.82	8,762.92	23.50	23.64	-116.02	-546.09	1,183.00	1,371.11	1,336.51	46.70	28.275		
9,000.00	8,931.85	8,891.82	8,862.92	23.79	23.93	-116.03	-553.01	1,195.18	1,385.37	1,350.77	47.27	28.156		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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						
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	117.72	-79.05	150.45	169.95				
100.00	100.00	101.00	99.00	3.28	3.28	117.72	-79.05	150.45	169.95	162.42	7.53	22.573	
200.00	200.00	201.00	199.00	3.31	3.31	117.72	-79.05	150.45	169.95	162.38	7.57	22.438	
300.00	299.98	296.75	296.75	3.34	3.35	-67.04	-79.39	150.62	169.59	161.94	7.65	22.160	
303.36	303.34	299.96	299.96	3.35	3.35	-67.06	-79.44	150.64	169.59	161.93	7.66	22.151	CC, ES
400.00	399.84	392.17	392.11	3.40	3.40	-67.95	-82.20	152.02	170.23	162.47	7.76	21.944	
500.00	499.45	487.57	487.29	3.49	3.47	-69.20	-87.86	154.84	172.28	164.38	7.91	21.793	
600.00	598.74	582.90	582.16	3.60	3.57	-70.72	-96.34	159.07	175.90	167.80	8.10	21.710	
700.00	697.94	678.16	676.57	3.74	3.70	-71.73	-107.63	164.70	181.95	173.59	8.35	21.784	
800.00	797.15	773.16	770.26	3.91	3.86	-72.03	-121.68	171.71	190.51	181.86	8.65	22.026	
900.00	896.35	867.70	862.92	4.10	4.06	-71.71	-138.41	180.05	201.54	192.55	8.99	22.414	
1,000.00	995.55	961.57	954.27	4.31	4.31	-70.89	-157.73	189.68	215.06	205.68	9.38	22.939	
1,100.00	1,094.76	1,054.62	1,044.08	4.53	4.59	-69.67	-179.51	200.54	231.11	221.32	9.79	23.604	
1,200.00	1,193.96	1,152.93	1,138.55	4.77	4.94	-68.32	-203.88	212.69	248.50	238.22	10.29	24.155	
1,300.00	1,293.17	1,251.25	1,233.02	5.02	5.32	-67.14	-228.25	224.84	266.02	255.20	10.81	24.602	
1,400.00	1,392.37	1,349.57	1,327.49	5.28	5.72	-66.12	-252.62	236.99	283.62	272.26	11.36	24.958	
1,500.00	1,491.58	1,447.89	1,421.96	5.55	6.14	-65.21	-276.99	249.14	301.31	289.38	11.93	25.262	
1,600.00	1,590.78	1,546.21	1,516.44	5.83	6.57	-64.40	-301.36	261.29	319.06	306.54	12.51	25.494	
1,700.00	1,689.99	1,644.52	1,610.91	6.12	7.02	-63.68	-325.73	273.44	336.86	323.75	13.12	25.685	
1,800.00	1,789.19	1,742.84	1,705.38	6.41	7.47	-63.03	-350.10	285.59	354.72	340.99	13.73	25.841	
1,900.00	1,888.40	1,841.16	1,799.85	6.56	7.85	-62.44	-374.47	297.75	372.61	358.67	13.93	26.742	
2,000.00	1,987.60	1,939.48	1,894.32	6.59	8.03	-61.91	-398.84	309.90	390.53	376.63	13.90	28.097	
2,100.00	2,086.81	2,037.79	1,988.79	6.64	8.11	-61.42	-423.21	322.05	408.49	394.52	13.97	29.242	
2,200.00	2,186.01	2,136.11	2,083.26	6.70	8.21	-60.97	-447.58	334.20	426.47	412.40	14.08	30.300	
2,300.00	2,285.22	2,234.43	2,177.73	6.77	8.33	-60.56	-471.96	346.35	444.48	430.26	14.22	31.267	
2,400.00	2,384.42	2,332.75	2,272.20	6.86	8.47	-60.18	-496.33	358.50	462.51	448.12	14.39	32.140	
2,500.00	2,483.63	2,431.07	2,366.68	6.96	8.63	-59.84	-520.70	370.65	480.55	465.95	14.60	32.921	
2,600.00	2,582.83	2,529.38	2,461.15	7.08	8.81	-59.51	-545.07	382.80	498.61	483.78	14.83	33.611	
2,700.00	2,682.04	2,627.70	2,555.62	7.21	9.01	-59.21	-569.44	394.95	516.68	501.58	15.10	34.213	
2,800.00	2,781.24	2,726.02	2,650.09	7.34	9.22	-58.93	-593.81	407.10	534.77	519.38	15.40	34.734	
2,900.00	2,880.45	2,824.34	2,744.56	7.50	9.45	-58.66	-618.18	419.26	552.87	537.16	15.72	35.178	
3,000.00	2,979.65	2,922.65	2,839.03	7.66	9.69	-58.42	-642.55	431.41	570.98	554.92	16.06	35.552	
3,100.00	3,078.86	3,020.97	2,933.50	7.83	9.94	-58.19	-666.92	443.56	589.10	572.67	16.43	35.861	
3,200.00	3,178.06	3,119.29	3,027.97	8.01	10.21	-57.97	-691.29	455.71	607.23	590.41	16.81	36.113	
3,300.00	3,277.27	3,217.61	3,122.45	8.20	10.49	-57.77	-715.66	467.86	625.37	608.14	17.22	36.312	
3,400.00	3,376.47	3,315.93	3,216.92	8.39	10.77	-57.57	-740.03	480.01	643.51	625.86	17.65	36.466	
3,500.00	3,475.68	3,414.24	3,311.39	8.60	11.07	-57.39	-764.40	492.16	661.66	643.57	18.09	36.579	
3,600.00	3,574.88	3,512.56	3,405.86	8.81	11.38	-57.22	-788.78	504.31	679.82	661.27	18.55	36.657	
3,700.00	3,674.09	3,610.88	3,500.33	9.02	11.69	-57.05	-813.15	516.46	697.98	678.96	19.02	36.704	
3,800.00	3,773.29	3,709.20	3,594.80	9.25	12.01	-56.90	-837.52	528.61	716.14	696.64	19.50	36.725	
3,900.00	3,872.50	3,807.51	3,689.27	9.48	12.34	-56.75	-861.89	540.77	734.32	714.32	20.00	36.721	
4,000.00	3,971.70	3,905.83	3,783.74	9.71	12.68	-56.61	-886.26	552.92	752.49	731.99	20.50	36.698	
4,100.00	4,070.91	4,004.15	3,878.22	9.95	13.02	-56.47	-910.63	565.07	770.67	749.65	21.02	36.659	
4,200.00	4,170.11	4,102.47	3,972.69	10.19	13.36	-56.35	-935.00	577.22	788.86	767.31	21.55	36.606	
4,300.00	4,269.32	4,200.79	4,067.16	10.44	13.71	-56.22	-959.37	589.37	807.05	784.96	22.09	36.540	
4,400.00	4,368.52	4,299.10	4,161.63	10.69	14.07	-56.11	-983.74	601.52	825.24	802.61	22.63	36.465	
4,500.00	4,467.73	4,402.58	4,256.10	10.95	14.45	-56.00	-1,008.11	613.67	843.43	820.23	23.20	36.355	
4,600.00	4,566.93	4,495.74	4,350.57	11.21	14.79	-55.89	-1,032.48	625.82	861.63	837.89	23.74	36.291	
4,700.00	4,666.14	4,594.06	4,445.04	11.47	15.16	-55.79	-1,056.85	637.97	879.83	855.52	24.31	36.195	
4,800.00	4,765.34	4,707.63	4,539.51	11.73	15.59	-55.69	-1,081.22	650.12	898.03	873.10	24.93	36.022	
4,900.00	4,864.55	4,809.31	4,633.98	12.00	15.97	-55.59	-1,105.60	662.28	916.24	890.72	25.52	35.903	
5,000.00	4,963.75	4,889.01	4,728.46	12.27	16.28	-55.50	-1,129.97	674.43	934.45	908.41	26.04	35.884	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,062.96	4,987.33	4,822.93	12.54	16.66	-55.42	-1,154.34	686.58	952.66	926.03	26.63	35.776		
5,200.00	5,162.16	5,085.65	4,917.40	12.81	17.04	-55.33	-1,178.71	698.73	970.87	943.65	27.22	35.666		
5,300.00	5,261.37	5,183.96	5,011.87	13.09	17.42	-55.25	-1,203.08	710.88	989.08	961.27	27.82	35.556		
5,400.00	5,360.57	5,282.28	5,106.34	13.37	17.81	-55.17	-1,227.45	723.03	1,007.30	978.88	28.42	35.445		
5,500.00	5,459.78	5,380.60	5,200.81	13.65	18.20	-55.10	-1,251.82	735.18	1,025.52	996.50	29.02	35.334		
5,600.00	5,558.98	5,478.92	5,295.28	13.93	18.59	-55.02	-1,276.19	747.33	1,043.74	1,014.11	29.63	35.224		
5,700.00	5,658.18	5,577.23	5,389.75	14.21	18.98	-54.95	-1,300.56	759.48	1,061.96	1,031.72	30.24	35.114		
5,800.00	5,757.39	5,675.55	5,484.23	14.50	19.38	-54.89	-1,324.93	771.64	1,080.18	1,049.32	30.86	35.006		
5,900.00	5,856.59	5,773.87	5,578.70	14.79	19.77	-54.82	-1,349.30	783.79	1,098.41	1,066.93	31.48	34.898		
6,000.00	5,955.80	5,872.19	5,673.17	15.07	20.17	-54.76	-1,373.67	795.94	1,116.63	1,084.54	32.10	34.791		
6,100.00	6,055.00	5,970.51	5,767.64	15.36	20.57	-54.70	-1,398.04	808.09	1,134.86	1,102.14	32.72	34.686		
6,200.00	6,154.21	6,068.82	5,862.11	15.65	20.97	-54.64	-1,422.42	820.24	1,153.08	1,119.74	33.34	34.582		
6,300.00	6,253.41	6,167.14	5,956.58	15.94	21.37	-54.58	-1,446.79	832.39	1,171.31	1,137.34	33.97	34.479		
6,400.00	6,352.62	6,265.46	6,051.05	16.24	21.77	-54.52	-1,471.16	844.54	1,189.54	1,154.94	34.60	34.378		
6,600.00	6,551.03	8,112.34	7,168.46	16.83	24.50	-4.66	-1,757.29	-59.44	1,156.08	1,122.32	33.76	34.244		
6,700.00	6,650.23	8,113.41	7,168.46	17.12	24.51	-4.60	-1,757.29	-60.50	1,095.12	1,060.32	34.80	31.466		
6,800.00	6,749.44	8,113.65	7,168.46	17.41	24.51	19.70	-1,757.29	-60.74	1,040.25	1,004.33	35.92	28.960		
6,900.00	6,847.87	8,101.84	7,168.44	17.64	24.47	63.92	-1,757.31	-48.93	993.08	956.11	36.96	26.866		
7,000.00	6,943.29	8,074.65	7,168.41	17.88	24.39	78.87	-1,757.36	-21.75	955.40	917.52	37.88	25.223		
7,100.00	7,033.35	8,032.78	7,168.35	18.10	24.32	84.60	-1,757.43	20.13	928.04	889.45	38.59	24.047		
7,200.00	7,115.82	7,977.23	7,168.27	18.32	24.28	86.25	-1,757.52	75.68	910.68	871.59	39.10	23.292		
7,300.00	7,188.68	7,909.39	7,168.17	18.52	24.27	85.66	-1,757.63	143.52	901.96	862.53	39.43	22.873		
7,393.28	7,246.40	7,836.48	7,168.07	18.70	24.30	84.04	-1,757.75	216.42	899.77	860.09	39.68	22.678		
7,400.00	7,250.14	7,830.92	7,168.06	18.71	24.31	83.90	-1,757.76	221.99	899.78	860.09	39.69	22.671		
7,500.00	7,298.67	7,736.43	7,166.14	18.92	24.39	81.45	-1,757.46	316.43	901.56	861.68	39.88	22.606		
7,600.00	7,333.08	7,637.85	7,151.40	19.20	24.48	78.59	-1,753.86	413.73	904.60	864.41	40.19	22.506		
7,700.00	7,352.53	7,546.50	7,124.92	19.62	24.54	75.73	-1,747.21	500.82	908.43	867.73	40.70	22.321		
7,800.00	7,357.04	7,461.01	7,089.45	20.23	24.58	73.00	-1,738.22	578.01	912.82	871.44	41.38	22.058		
7,900.00	7,357.17	7,385.20	7,049.87	21.00	24.59	70.47	-1,728.15	641.83	919.75	877.49	42.25	21.767		
8,000.00	7,357.31	7,320.44	7,010.44	21.89	24.59	67.98	-1,718.09	692.17	931.25	887.97	43.28	21.519		
8,100.00	7,357.45	7,265.56	6,973.29	22.89	24.57	65.65	-1,708.60	731.42	948.45	904.06	44.38	21.369		
8,200.00	7,357.58	7,219.11	6,939.39	23.96	24.54	63.56	-1,699.92	761.95	972.06	926.54	45.52	21.353 SF		
8,300.00	7,357.72	7,179.68	6,908.99	25.11	24.51	61.71	-1,692.14	785.81	1,002.41	955.76	46.64	21.492		
8,400.00	7,357.86	7,150.00	6,885.20	26.31	24.49	60.28	-1,686.04	802.46	1,039.46	991.73	47.73	21.777		
8,500.00	7,357.99	7,117.13	6,858.00	27.56	24.45	58.67	-1,679.06	819.55	1,082.92	1,034.27	48.65	22.259		
8,600.00	7,358.13	7,100.00	6,843.50	28.86	24.44	57.83	-1,675.34	827.87	1,132.43	1,082.86	49.57	22.845		
8,700.00	7,358.27	7,070.37	6,817.92	30.19	24.40	56.36	-1,668.78	841.30	1,187.29	1,137.06	50.23	23.636		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	1.00	-1.00	3.28	3.28	111.42	-59.02	150.45	161.61					
100.00	100.00	101.00	99.00	3.28	3.28	111.42	-59.02	150.45	161.61	154.08	7.53	21.465		
200.00	200.00	199.00	199.00	3.31	3.30	111.42	-59.02	150.45	161.61	154.04	7.57	21.339	CC, ES	
300.00	299.98	294.83	294.81	3.34	3.34	-73.08	-60.38	151.23	162.37	154.72	7.65	21.229		
400.00	399.84	390.57	390.43	3.40	3.40	-73.66	-64.52	153.58	164.72	156.97	7.75	21.243		
500.00	499.45	486.20	485.72	3.49	3.48	-74.58	-71.43	157.52	168.69	160.79	7.91	21.340		
600.00	598.74	581.68	580.55	3.60	3.58	-75.75	-81.08	163.01	174.39	166.28	8.11	21.509		
700.00	697.94	676.96	674.76	3.74	3.72	-76.41	-93.44	170.05	182.45	174.08	8.37	21.809		
800.00	797.15	771.85	768.06	3.91	3.90	-76.37	-108.45	178.59	192.94	184.27	8.67	22.246		
900.00	896.35	866.15	860.16	4.10	4.12	-75.74	-126.02	188.59	205.86	196.83	9.03	22.803		
1,000.00	995.55	962.20	953.33	4.31	4.39	-74.68	-146.30	200.14	220.97	211.53	9.44	23.412		
1,100.00	1,094.76	1,060.91	1,048.97	4.53	4.70	-73.66	-167.52	212.21	236.50	226.59	9.91	23.870		
1,200.00	1,193.96	1,159.61	1,144.61	4.77	5.04	-72.76	-188.74	224.29	252.09	241.68	10.41	24.217		
1,300.00	1,293.17	1,258.31	1,240.25	5.02	5.40	-71.97	-209.95	236.37	267.74	256.80	10.94	24.474		
1,400.00	1,392.37	1,357.02	1,335.89	5.28	5.78	-71.27	-231.17	248.45	283.43	271.94	11.49	24.670		
1,500.00	1,491.58	1,455.72	1,431.52	5.55	6.18	-70.64	-252.39	260.52	299.16	287.10	12.06	24.803		
1,600.00	1,590.78	1,554.43	1,527.16	5.83	6.59	-70.07	-273.60	272.60	314.92	302.27	12.65	24.897		
1,700.00	1,689.99	1,653.13	1,622.80	6.12	7.00	-69.56	-294.82	284.68	330.71	317.46	13.25	24.960		
1,800.00	1,789.19	1,751.84	1,718.44	6.41	7.43	-69.09	-316.04	296.76	346.52	332.66	13.86	24.998		
1,900.00	1,888.40	1,850.54	1,814.07	6.56	7.76	-68.66	-337.25	308.83	362.35	348.47	13.88	26.101		
2,000.00	1,987.60	1,949.25	1,909.71	6.59	7.91	-68.27	-358.47	320.91	378.20	364.19	14.01	26.997		
2,100.00	2,086.81	2,047.95	2,005.35	6.64	7.98	-67.92	-379.69	332.99	394.06	379.98	14.08	27.978		
2,200.00	2,186.01	2,146.66	2,100.99	6.70	8.07	-67.58	-400.90	345.07	409.94	395.75	14.19	28.880		
2,300.00	2,285.22	2,245.36	2,196.63	6.77	8.18	-67.28	-422.12	357.14	425.83	411.49	14.34	29.699		
2,400.00	2,384.42	2,344.07	2,292.26	6.86	8.31	-66.99	-443.34	369.22	441.73	427.22	14.51	30.435		
2,500.00	2,483.63	2,442.77	2,387.90	6.96	8.46	-66.73	-464.55	381.30	457.65	442.92	14.72	31.088		
2,600.00	2,582.83	2,541.48	2,483.54	7.08	8.62	-66.48	-485.77	393.38	473.57	458.61	14.96	31.662		
2,700.00	2,682.04	2,640.18	2,579.18	7.21	8.80	-66.25	-506.99	405.45	489.49	474.27	15.22	32.159		
2,800.00	2,781.24	2,738.88	2,674.82	7.34	8.99	-66.04	-528.20	417.53	505.43	489.92	15.51	32.584		
2,900.00	2,880.45	2,837.59	2,770.45	7.50	9.20	-65.83	-549.42	429.61	521.37	505.55	15.83	32.942		
3,000.00	2,979.65	2,936.29	2,866.09	7.66	9.42	-65.64	-570.64	441.69	537.32	521.16	16.17	33.238		
3,100.00	3,078.86	3,035.00	2,961.73	7.83	9.65	-65.46	-591.85	453.76	553.28	536.75	16.53	33.478		
3,200.00	3,178.06	3,133.70	3,057.37	8.01	9.90	-65.29	-613.07	465.84	569.24	552.33	16.91	33.668		
3,300.00	3,277.27	3,232.41	3,153.01	8.20	10.15	-65.13	-634.29	477.92	585.20	567.89	17.31	33.813		
3,400.00	3,376.47	3,331.11	3,248.64	8.39	10.42	-64.98	-655.50	490.00	601.17	583.44	17.72	33.918		
3,500.00	3,475.68	3,429.82	3,344.28	8.60	10.69	-64.84	-676.72	502.07	617.14	598.98	18.16	33.988		
3,600.00	3,574.88	3,528.52	3,439.92	8.81	10.97	-64.70	-697.94	514.15	633.11	614.51	18.61	34.027		
3,700.00	3,674.09	3,627.23	3,535.56	9.02	11.26	-64.57	-719.15	526.23	649.09	630.02	19.07	34.040		
3,800.00	3,773.29	3,725.93	3,631.19	9.25	11.56	-64.45	-740.37	538.31	665.07	645.53	19.54	34.029		
3,900.00	3,872.50	3,824.64	3,726.83	9.48	11.86	-64.33	-761.59	550.38	681.06	661.03	20.03	33.999		
4,000.00	3,971.70	3,923.34	3,822.47	9.71	12.17	-64.22	-782.80	562.46	697.05	676.52	20.53	33.952		
4,100.00	4,070.91	4,022.05	3,918.11	9.95	12.48	-64.11	-804.02	574.54	713.04	692.00	21.04	33.891		
4,200.00	4,170.11	4,120.75	4,013.75	10.19	12.81	-64.00	-825.24	586.61	729.03	707.47	21.56	33.818		
4,300.00	4,269.32	4,219.45	4,109.38	10.44	13.13	-63.91	-846.45	598.69	745.02	722.94	22.08	33.735		
4,400.00	4,368.52	4,318.16	4,205.02	10.69	13.46	-63.81	-867.67	610.77	761.02	738.40	22.62	33.644		
4,500.00	4,467.73	4,416.86	4,300.66	10.95	13.79	-63.72	-888.89	622.85	777.02	753.86	23.16	33.547		
4,600.00	4,566.93	4,515.57	4,396.30	11.21	14.13	-63.63	-910.10	634.92	793.02	769.31	23.71	33.443		
4,700.00	4,666.14	4,614.27	4,491.94	11.47	14.47	-63.55	-931.32	647.00	809.02	784.75	24.27	33.336		
4,800.00	4,765.34	4,712.98	4,587.57	11.73	14.82	-63.47	-952.54	659.08	825.02	800.19	24.83	33.225		
4,900.00	4,864.55	4,811.68	4,683.21	12.00	15.16	-63.39	-973.75	671.16	841.03	815.63	25.40	33.112		
5,000.00	4,963.75	4,910.39	4,778.85	12.27	15.52	-63.32	-994.97	683.23	857.04	831.06	25.97	32.997		
5,100.00	5,062.96	5,009.09	4,874.49	12.54	15.87	-63.25	-1,016.19	695.31	873.04	846.49	26.55	32.881		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,107.80	4,970.12	12.81	16.22	-63.18	-1,037.40	707.39	889.05	861.92	27.13	32.764		
5,300.00	5,261.37	5,206.50	5,065.76	13.09	16.58	-63.11	-1,058.62	719.47	905.06	877.34	27.72	32.647		
5,400.00	5,360.57	5,305.21	5,161.40	13.37	16.94	-63.05	-1,079.84	731.54	921.07	892.76	28.31	32.531		
5,500.00	5,459.78	5,403.91	5,257.04	13.65	17.31	-62.99	-1,101.05	743.62	937.09	908.18	28.91	32.415		
5,600.00	5,558.98	5,502.62	5,352.68	13.93	17.67	-62.93	-1,122.27	755.70	953.10	923.59	29.51	32.299		
5,700.00	5,658.18	5,601.32	5,448.31	14.21	18.04	-62.87	-1,143.49	767.78	969.12	939.00	30.11	32.185		
5,800.00	5,757.39	5,700.03	5,543.95	14.50	18.41	-62.81	-1,164.70	779.85	985.13	954.41	30.72	32.072		
5,900.00	5,856.59	5,801.27	5,639.59	14.79	18.79	-62.76	-1,185.92	791.93	1,001.15	969.81	31.33	31.952		
6,000.00	5,955.80	5,902.57	5,735.23	15.07	19.17	-62.71	-1,207.14	804.01	1,017.16	985.21	31.95	31.833		
6,100.00	6,055.00	6,003.86	5,830.87	15.36	19.55	-62.66	-1,228.35	816.09	1,033.18	1,000.61	32.58	31.716		
6,200.00	6,154.21	6,105.16	5,926.50	15.65	19.93	-62.61	-1,249.57	828.16	1,049.20	1,016.00	33.20	31.601		
6,300.00	6,253.41	6,206.45	6,022.14	15.94	20.32	-62.56	-1,270.79	840.24	1,065.22	1,031.39	33.83	31.488		
6,400.00	6,352.62	6,307.75	6,117.78	16.24	20.71	-62.51	-1,292.00	852.32	1,081.24	1,046.78	34.46	31.377		
6,500.00	6,451.82	6,390.96	6,213.42	16.53	21.02	-62.47	-1,313.22	864.40	1,097.26	1,062.23	35.03	31.324		
6,600.00	6,551.03	8,141.12	7,237.57	16.83	23.23	-4.70	-1,538.76	-60.98	1,023.53	991.41	32.12	31.870		
6,700.00	6,650.23	8,141.92	7,237.57	17.12	23.23	-4.63	-1,538.76	-61.77	949.82	916.79	33.03	28.753		
6,800.00	6,749.44	8,141.89	7,237.57	17.41	23.23	20.44	-1,538.76	-61.75	881.33	847.25	34.09	25.857		
6,900.00	6,847.87	8,129.81	7,237.58	17.64	23.16	66.52	-1,538.78	-49.67	820.09	784.94	35.16	23.326		
7,000.00	6,943.29	8,102.37	7,237.62	17.88	23.01	82.60	-1,538.83	-22.23	768.73	732.55	36.17	21.252		
7,100.00	7,033.35	8,060.24	7,237.67	18.10	22.84	88.86	-1,538.91	19.90	729.02	691.93	37.08	19.659		
7,200.00	7,115.82	8,004.47	7,237.74	18.32	22.77	90.57	-1,539.01	75.67	701.46	663.67	37.79	18.562		
7,300.00	7,188.68	7,936.43	7,237.83	18.52	22.76	89.70	-1,539.14	143.71	685.10	646.77	38.33	17.875		
7,400.00	7,250.14	7,857.79	7,237.93	18.71	22.81	87.42	-1,539.28	222.35	677.73	639.02	38.71	17.507		
7,490.97	7,294.85	7,773.90	7,237.18	18.90	22.90	84.68	-1,539.25	306.23	676.35	637.38	38.98	17.353		
7,500.00	7,298.67	7,764.68	7,236.65	18.92	22.91	84.36	-1,539.15	315.43	676.36	637.36	39.00	17.345		
7,600.00	7,333.08	7,666.96	7,223.12	19.20	23.01	80.76	-1,536.30	412.07	677.63	638.26	39.37	17.212		
7,700.00	7,352.53	7,576.14	7,197.74	19.62	23.09	77.13	-1,530.81	499.02	680.92	640.99	39.92	17.055		
7,800.00	7,357.04	7,490.92	7,163.17	20.23	23.14	73.64	-1,523.27	576.48	685.92	645.28	40.64	16.877		
7,900.00	7,357.17	7,415.04	7,124.13	21.00	23.16	70.36	-1,514.72	640.93	694.50	652.96	41.54	16.717		
8,000.00	7,357.31	7,350.00	7,084.92	21.89	23.17	67.12	-1,506.11	692.06	708.96	666.39	42.57	16.655 SF		
8,100.00	7,357.45	7,294.65	7,047.68	22.89	23.16	64.10	-1,497.92	732.15	730.62	686.98	43.64	16.743		
8,200.00	7,357.58	7,250.00	7,015.25	23.96	23.15	61.54	-1,490.78	761.99	760.17	715.46	44.70	17.004		
8,300.00	7,357.72	7,207.78	6,982.78	25.11	23.13	59.04	-1,483.62	788.00	797.70	752.06	45.64	17.479		
8,400.00	7,357.86	7,173.65	6,955.35	26.31	23.11	56.98	-1,477.57	807.37	842.85	796.38	46.47	18.136		
8,500.00	7,357.99	7,150.00	6,935.76	27.56	23.09	55.55	-1,473.25	819.91	895.02	847.78	47.24	18.948		
8,600.00	7,358.13	7,118.92	6,909.36	28.86	23.06	53.66	-1,467.42	835.22	953.31	905.56	47.75	19.965		
8,700.00	7,358.27	7,100.00	6,892.94	30.19	23.04	52.51	-1,463.80	843.90	1,017.04	968.80	48.24	21.085		
8,800.00	7,358.40	7,077.39	6,873.00	31.55	23.02	51.14	-1,459.39	853.60	1,085.38	1,036.82	48.56	22.352		
8,900.00	7,358.54	7,050.00	6,848.41	32.95	22.99	49.50	-1,453.96	864.37	1,157.79	1,109.04	48.75	23.750		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	-60.11	0.28	60.11				
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-60.11	0.28	60.11	52.58	7.53	7.984	
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-60.11	0.28	60.11	52.54	7.57	7.936	
300.00	299.98	297.95	297.93	3.34	3.34	-4.61	-61.78	0.20	60.08	52.43	7.65	7.854	
400.00	399.84	395.90	395.75	3.40	3.40	-4.74	-66.80	-0.05	59.98	52.23	7.75	7.739	
500.00	499.45	493.85	493.34	3.49	3.48	-4.95	-75.15	-0.47	59.82	51.93	7.89	7.584	
515.26	514.62	508.80	508.20	3.50	3.50	-4.99	-76.72	-0.55	59.80	51.89	7.91	7.558 CC	
600.00	598.74	591.81	590.59	3.60	3.59	-5.24	-86.83	-1.05	59.85	51.79	8.06	7.423 ES	
700.00	697.94	689.69	687.31	3.74	3.73	-5.36	-101.81	-1.80	62.63	54.36	8.28	7.569	
800.00	797.15	787.27	783.17	3.91	3.92	-5.27	-120.02	-2.70	68.82	60.29	8.53	8.072	
900.00	896.35	886.05	879.68	4.10	4.15	-5.07	-141.04	-3.75	77.67	68.83	8.84	8.786	
1,000.00	995.55	985.64	976.94	4.31	4.41	-4.90	-162.44	-4.82	86.72	77.52	9.20	9.422	
1,100.00	1,094.76	1,085.23	1,074.20	4.53	4.70	-4.76	-183.83	-5.88	95.77	86.17	9.60	9.977	
1,200.00	1,193.96	1,184.82	1,171.45	4.77	5.00	-4.65	-205.22	-6.95	104.83	94.81	10.02	10.462	
1,300.00	1,293.17	1,284.41	1,268.71	5.02	5.33	-4.55	-226.61	-8.01	113.88	103.42	10.46	10.883	
1,400.00	1,392.37	1,384.00	1,365.97	5.28	5.67	-4.47	-248.01	-9.08	122.93	112.01	10.93	11.252	
1,500.00	1,491.58	1,483.59	1,463.23	5.55	6.02	-4.40	-269.40	-10.14	131.99	120.58	11.41	11.570	
1,600.00	1,590.78	1,583.18	1,560.49	5.83	6.39	-4.34	-290.79	-11.21	141.04	129.14	11.90	11.849	
1,700.00	1,689.99	1,682.77	1,657.75	6.12	6.76	-4.29	-312.19	-12.27	150.10	137.68	12.41	12.093	
1,800.00	1,789.19	1,782.36	1,755.01	6.41	7.14	-4.24	-333.58	-13.34	159.15	146.22	12.93	12.307	
1,900.00	1,888.40	1,881.95	1,852.26	6.66	7.38	-4.20	-354.97	-14.40	168.21	155.36	12.84	13.099	
2,000.00	1,987.60	1,981.53	1,949.52	6.59	7.46	-4.16	-376.36	-15.47	177.26	164.36	12.90	13.744	
2,100.00	2,086.81	2,081.12	2,046.78	6.64	7.53	-4.12	-397.76	-16.53	186.31	173.36	12.96	14.378	
2,200.00	2,186.01	2,180.71	2,144.04	6.70	7.61	-4.09	-419.15	-17.60	195.37	182.32	13.05	14.970	
2,300.00	2,285.22	2,280.30	2,241.30	6.77	7.72	-4.06	-440.54	-18.66	204.42	191.25	13.17	15.517	
2,400.00	2,384.42	2,379.89	2,338.56	6.86	7.84	-4.04	-461.94	-19.73	213.48	200.15	13.33	16.019	
2,500.00	2,483.63	2,479.48	2,435.82	6.96	7.98	-4.01	-483.33	-20.79	222.53	209.03	13.51	16.474	
2,600.00	2,582.83	2,579.07	2,533.07	7.08	8.13	-3.99	-504.72	-21.86	231.59	217.87	13.72	16.883	
2,700.00	2,682.04	2,678.66	2,630.33	7.21	8.30	-3.97	-526.11	-22.92	240.64	226.69	13.95	17.247	
2,800.00	2,781.24	2,778.25	2,727.59	7.34	8.48	-3.95	-547.51	-23.99	249.70	235.49	14.21	17.568	
2,900.00	2,880.45	2,877.84	2,824.85	7.50	8.68	-3.93	-568.90	-25.05	258.75	244.26	14.50	17.849	
3,000.00	2,979.65	2,977.43	2,922.11	7.66	8.89	-3.92	-590.29	-26.12	267.81	253.01	14.80	18.093	
3,100.00	3,078.86	3,077.01	3,019.37	7.83	9.11	-3.90	-611.68	-27.18	276.86	261.74	15.13	18.301	
3,200.00	3,178.06	3,176.60	3,116.62	8.01	9.34	-3.89	-633.08	-28.25	285.92	270.45	15.47	18.477	
3,300.00	3,277.27	3,276.19	3,213.88	8.20	9.57	-3.87	-654.47	-29.31	294.97	279.14	15.84	18.625	
3,400.00	3,376.47	3,375.78	3,311.14	8.39	9.82	-3.86	-675.86	-30.38	304.03	287.81	16.22	18.747	
3,500.00	3,475.68	3,475.37	3,408.40	8.60	10.08	-3.85	-697.26	-31.44	313.09	296.47	16.61	18.845	
3,600.00	3,574.88	3,574.96	3,505.66	8.81	10.34	-3.84	-718.65	-32.51	322.14	305.12	17.02	18.923	
3,700.00	3,674.09	3,674.55	3,602.92	9.02	10.61	-3.83	-740.04	-33.57	331.20	313.75	17.45	18.982	
3,800.00	3,773.29	3,774.14	3,700.18	9.25	10.89	-3.82	-761.43	-34.64	340.25	322.37	17.88	19.026	
3,900.00	3,872.50	3,873.73	3,797.43	9.48	11.18	-3.81	-782.83	-35.70	349.31	330.98	18.33	19.056	
4,000.00	3,971.70	3,973.32	3,894.69	9.71	11.47	-3.80	-804.22	-36.77	358.36	339.57	18.79	19.073	
4,100.00	4,070.91	4,072.91	3,991.95	9.95	11.76	-3.79	-825.61	-37.83	367.42	348.16	19.26	19.080	
4,200.00	4,170.11	4,172.50	4,089.21	10.19	12.06	-3.78	-847.01	-38.90	376.47	356.74	19.73	19.077	
4,300.00	4,269.32	4,272.08	4,186.47	10.44	12.37	-3.77	-868.40	-39.96	385.53	365.31	20.22	19.067	
4,400.00	4,368.52	4,371.67	4,283.73	10.69	12.67	-3.77	-889.79	-41.03	394.58	373.87	20.71	19.050	
4,500.00	4,467.73	4,471.26	4,380.98	10.95	12.99	-3.76	-911.18	-42.09	403.64	382.42	21.21	19.028	
4,600.00	4,566.93	4,570.85	4,478.24	11.21	13.30	-3.75	-932.58	-43.16	412.69	390.97	21.72	19.000	
4,700.00	4,666.14	4,670.44	4,575.50	11.47	13.62	-3.74	-953.97	-44.22	421.75	399.51	22.23	18.968	
4,800.00	4,765.34	4,770.03	4,672.76	11.73	13.94	-3.74	-975.36	-45.29	430.80	408.05	22.75	18.933	
4,900.00	4,864.55	4,869.62	4,770.02	12.00	14.27	-3.73	-996.75	-46.35	439.86	416.58	23.28	18.895	
5,000.00	4,963.75	4,969.21	4,867.28	12.27	14.60	-3.73	-1,018.15	-47.42	448.91	425.10	23.81	18.855	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
5,100.00	5,062.96	5,068.80	4,964.54	12.54	14.93	-3.72	-1,039.54	-48.48	457.97	433.63	24.34	18.812		
5,200.00	5,162.16	5,168.39	5,061.79	12.81	15.26	-3.72	-1,060.93	-49.55	467.02	442.14	24.88	18.769		
5,300.00	5,261.37	5,267.98	5,159.05	13.09	15.60	-3.71	-1,082.33	-50.61	476.08	450.65	25.43	18.724		
5,400.00	5,360.57	5,367.57	5,256.31	13.37	15.94	-3.71	-1,103.72	-51.68	485.14	459.16	25.97	18.678		
5,500.00	5,459.78	5,467.15	5,353.57	13.65	16.28	-3.70	-1,125.11	-52.74	494.19	467.67	26.53	18.631		
5,600.00	5,558.98	5,566.74	5,450.83	13.93	16.62	-3.70	-1,146.50	-53.81	503.25	476.17	27.08	18.584		
5,700.00	5,658.18	5,666.33	5,548.09	14.21	16.96	-3.69	-1,167.90	-54.87	512.30	484.66	27.64	18.537		
5,800.00	5,757.39	5,765.92	5,645.35	14.50	17.30	-3.69	-1,189.29	-55.94	521.36	493.16	28.20	18.489		
5,900.00	5,856.59	5,865.51	5,742.60	14.79	17.65	-3.68	-1,210.68	-57.00	530.41	501.65	28.76	18.442		
6,000.00	5,955.80	5,965.10	5,839.86	15.07	18.00	-3.68	-1,232.07	-58.07	539.47	510.14	29.33	18.395		
6,100.00	6,055.00	6,064.69	5,937.12	15.36	18.35	-3.68	-1,253.47	-59.13	548.52	518.63	29.90	18.348		
6,200.00	6,154.21	6,164.28	6,034.38	15.65	18.70	-3.67	-1,274.86	-60.20	557.58	527.11	30.47	18.301		
6,300.00	6,253.41	6,263.87	6,131.64	15.94	19.05	-3.67	-1,296.25	-61.26	566.63	535.59	31.04	18.255		
6,400.00	6,352.62	6,363.46	6,228.90	16.24	19.40	-3.66	-1,317.65	-62.33	575.69	544.07	31.62	18.209		
6,500.00	6,451.82	6,463.05	6,326.15	16.53	19.76	-3.66	-1,339.04	-63.39	584.74	552.55	32.19	18.164		
6,600.00	6,551.03	6,562.64	6,423.41	16.83	20.11	-3.66	-1,360.43	-64.46	593.80	561.03	32.77	18.119		
6,700.00	6,650.23	6,662.22	6,520.67	17.12	20.47	-3.65	-1,381.82	-65.52	602.85	569.50	33.35	18.075		
6,800.00	6,749.44	6,761.93	6,617.82	17.41	20.77	18.06	-1,403.21	-60.35	611.92	578.01	33.91	18.047		
6,900.00	6,847.87	6,860.27	6,711.71	17.64	21.05	56.58	-1,423.93	-40.21	621.34	586.94	34.39	18.066		
7,000.00	6,943.29	6,957.35	6,800.35	17.88	21.32	67.96	-1,443.52	-6.03	631.00	596.16	34.84	18.109		
7,100.00	7,033.35	7,053.33	6,881.97	18.10	21.58	72.03	-1,461.62	40.92	640.66	605.38	35.28	18.158		
7,200.00	7,115.82	7,148.35	6,955.08	18.32	21.82	73.61	-1,477.87	99.25	650.05	614.30	35.75	18.184		
7,300.00	7,188.68	7,242.56	7,018.41	18.52	22.05	74.14	-1,492.00	167.44	658.90	622.60	36.30	18.154		
7,400.00	7,250.14	7,336.13	7,070.89	18.71	22.27	74.18	-1,503.77	243.90	666.98	630.00	36.99	18.033		
7,500.00	7,298.67	7,429.20	7,111.67	18.92	22.50	73.99	-1,512.99	326.96	674.08	636.21	37.87	17.798		
7,600.00	7,333.08	7,521.92	7,140.12	19.20	22.75	73.72	-1,519.50	414.88	680.01	641.02	38.99	17.441		
7,700.00	7,352.53	7,614.42	7,155.78	19.62	23.06	73.44	-1,523.22	505.88	684.61	644.28	40.33	16.976		
7,800.00	7,357.04	7,709.03	7,158.97	20.23	23.46	73.26	-1,524.19	600.38	687.80	645.93	41.86	16.430		
7,900.00	7,357.17	7,808.99	7,158.85	21.00	24.01	73.31	-1,524.46	700.34	690.54	646.94	43.59	15.840		
8,000.00	7,357.31	7,908.95	7,158.73	21.89	24.70	73.35	-1,524.73	800.30	693.28	647.79	45.49	15.240		
8,100.00	7,357.45	8,008.91	7,158.61	22.89	25.52	73.40	-1,524.99	900.26	696.02	648.48	47.54	14.642		
8,200.00	7,357.58	8,108.87	7,158.49	23.96	26.44	73.44	-1,525.26	1,000.22	698.76	649.05	49.71	14.057		
8,300.00	7,357.72	8,208.83	7,158.37	25.11	27.45	73.49	-1,525.53	1,100.18	701.51	649.51	51.99	13.492		
8,400.00	7,357.86	8,308.80	7,158.25	26.31	28.53	73.53	-1,525.79	1,200.14	704.25	649.88	54.37	12.952		
8,500.00	7,357.99	8,408.76	7,158.14	27.56	29.68	73.58	-1,526.06	1,300.10	706.99	650.15	56.85	12.437		
8,600.00	7,358.13	8,508.72	7,158.02	28.86	30.88	73.62	-1,526.33	1,400.06	709.74	650.35	59.39	11.951		
8,700.00	7,358.27	8,608.68	7,157.90	30.19	32.13	73.66	-1,526.59	1,500.02	712.48	650.48	62.00	11.492		
8,800.00	7,358.40	8,708.64	7,157.78	31.55	33.42	73.71	-1,526.86	1,599.98	715.22	650.56	64.67	11.060		
8,900.00	7,358.54	8,808.60	7,157.66	32.95	34.74	73.75	-1,527.12	1,699.94	717.97	650.58	67.39	10.655		
9,000.00	7,358.68	8,908.56	7,157.54	34.36	36.09	73.79	-1,527.39	1,799.90	720.72	650.57	70.15	10.274		
9,100.00	7,358.81	9,008.52	7,157.42	35.80	37.47	73.83	-1,527.66	1,899.86	723.46	650.51	72.96	9.917		
9,200.00	7,358.95	9,108.48	7,157.31	37.26	38.87	73.87	-1,527.92	1,999.83	726.21	650.41	75.80	9.581		
9,300.00	7,359.09	9,208.44	7,157.19	38.73	40.29	73.92	-1,528.19	2,099.79	728.95	650.29	78.67	9.266		
9,400.00	7,359.23	9,308.40	7,157.07	40.22	41.74	73.96	-1,528.46	2,199.75	731.70	650.13	81.57	8.970		
9,500.00	7,359.36	9,408.36	7,156.95	41.72	43.20	74.00	-1,528.72	2,299.71	734.45	649.95	84.50	8.692		
9,600.00	7,359.50	9,508.33	7,156.83	43.24	44.67	74.04	-1,528.99	2,399.67	737.20	649.75	87.45	8.430		
9,700.00	7,359.64	9,608.29	7,156.71	44.77	46.16	74.08	-1,529.26	2,499.63	739.95	649.53	90.42	8.184		
9,800.00	7,359.77	9,708.25	7,156.59	46.30	47.66	74.12	-1,529.52	2,599.59	742.69	649.28	93.41	7.951		
9,900.00	7,359.91	9,808.21	7,156.47	47.85	49.17	74.16	-1,529.79	2,699.55	745.44	649.02	96.42	7.731		
10,000.00	7,360.05	9,908.17	7,156.36	49.40	50.69	74.20	-1,530.06	2,799.51	748.19	648.75	99.44	7.524		
10,100.00	7,360.18	10,008.13	7,156.24	50.96	52.22	74.24	-1,530.32	2,899.47	750.94	648.46	102.48	7.328		
10,200.00	7,360.32	10,108.09	7,156.12	52.53	53.76	74.28	-1,530.59	2,999.43	753.69	648.16	105.53	7.142		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
10,300.00	7,360.46	10,208.05	7,156.00	54.10	55.31	74.31	-1,530.86	3,099.39	756.44	647.84	108.60	6.966	
10,400.00	7,360.59	10,308.01	7,155.88	55.68	56.86	74.35	-1,531.12	3,199.35	759.19	647.52	111.67	6.798	
10,500.00	7,360.73	10,407.97	7,155.76	57.26	58.42	74.39	-1,531.39	3,299.31	761.94	647.18	114.76	6.639	
10,600.00	7,360.87	10,507.93	7,155.64	58.85	59.99	74.43	-1,531.66	3,399.27	764.70	646.84	117.86	6.488	
10,700.00	7,361.00	10,607.90	7,155.53	60.44	61.56	74.47	-1,531.92	3,499.23	767.45	646.49	120.96	6.345	
10,800.00	7,361.14	10,707.86	7,155.41	62.04	63.14	74.50	-1,532.19	3,599.19	770.20	646.12	124.08	6.207	
10,900.00	7,361.28	10,807.85	7,155.29	63.64	64.72	74.51	-1,532.46	3,699.18	771.24	644.06	127.19	6.064	
11,000.00	7,361.41	10,907.84	7,155.17	65.25	66.31	74.48	-1,532.72	3,799.18	770.67	640.37	130.30	5.915	
11,100.00	7,361.54	11,007.84	7,155.05	66.86	67.90	74.45	-1,532.99	3,899.18	770.10	636.68	133.42	5.772	
11,200.00	7,361.68	11,107.84	7,154.93	68.48	69.49	74.41	-1,533.26	3,999.17	769.53	632.98	136.55	5.636	
11,300.00	7,361.81	11,207.84	7,154.81	70.10	71.09	74.38	-1,533.52	4,099.17	768.96	629.29	139.67	5.505	
11,400.00	7,361.95	11,307.83	7,154.70	71.72	72.69	74.35	-1,533.79	4,199.17	768.39	625.58	142.81	5.381	
11,500.00	7,362.08	11,407.83	7,154.58	73.35	74.30	74.32	-1,534.06	4,299.16	767.82	621.87	145.94	5.261	
11,600.00	7,362.21	11,507.83	7,154.46	74.97	75.90	74.29	-1,534.32	4,399.16	767.25	618.16	149.09	5.146	
11,700.00	7,362.35	11,607.83	7,154.34	76.60	77.51	74.26	-1,534.59	4,499.16	766.68	614.45	152.23	5.036	
11,800.00	7,362.48	11,707.82	7,154.22	78.23	79.13	74.23	-1,534.86	4,599.16	766.11	610.73	155.38	4.931	
11,900.00	7,362.61	11,807.82	7,154.10	79.86	80.74	74.19	-1,535.12	4,699.15	765.54	607.01	158.53	4.829	
12,000.00	7,362.75	11,907.82	7,153.98	81.50	82.36	74.16	-1,535.39	4,799.15	764.97	603.29	161.68	4.731	
12,100.00	7,362.88	12,007.82	7,153.86	83.13	83.98	74.13	-1,535.66	4,899.15	764.40	599.57	164.83	4.637	
12,200.00	7,363.02	12,107.81	7,153.75	84.77	85.60	74.10	-1,535.92	4,999.14	763.83	595.84	167.99	4.547	
12,300.00	7,363.15	12,207.81	7,153.63	86.41	87.22	74.07	-1,536.19	5,099.14	763.27	592.11	171.15	4.460	
12,400.00	7,363.28	12,307.81	7,153.51	88.05	88.85	74.03	-1,536.46	5,199.14	762.70	588.39	174.31	4.375	
12,500.00	7,363.42	12,407.81	7,153.39	89.69	90.48	74.00	-1,536.72	5,299.13	762.13	584.65	177.48	4.294	
12,600.00	7,363.55	12,507.80	7,153.27	91.33	92.10	73.97	-1,536.99	5,399.13	761.56	580.92	180.64	4.216	
12,700.00	7,363.69	12,607.80	7,153.15	92.97	93.73	73.94	-1,537.26	5,499.13	760.99	577.19	183.81	4.140	
12,800.00	7,363.82	12,707.80	7,153.03	94.61	95.37	73.91	-1,537.52	5,599.13	760.43	573.45	186.97	4.067	
12,900.00	7,363.95	12,807.80	7,152.92	96.26	97.00	73.87	-1,537.79	5,699.12	759.86	569.72	190.14	3.996	
13,000.00	7,364.09	12,907.79	7,152.80	97.90	98.63	73.84	-1,538.06	5,799.12	759.29	565.98	193.31	3.928	
13,100.00	7,364.22	13,007.79	7,152.68	99.55	100.27	73.81	-1,538.32	5,899.12	758.73	562.24	196.48	3.862	
13,200.00	7,364.35	13,107.79	7,152.56	101.20	101.90	73.78	-1,538.59	5,999.11	758.16	558.51	199.65	3.797	
13,300.00	7,364.49	13,207.79	7,152.44	102.85	103.54	73.75	-1,538.86	6,099.11	757.59	554.77	202.83	3.735	
13,400.00	7,364.62	13,307.78	7,152.32	104.50	105.18	73.71	-1,539.12	6,199.11	757.03	551.03	206.00	3.675	
13,500.00	7,364.76	13,407.78	7,152.20	106.15	106.82	73.68	-1,539.39	6,299.11	756.46	547.29	209.17	3.616	
13,600.00	7,364.89	13,507.78	7,152.08	107.80	108.46	73.65	-1,539.66	6,399.10	755.90	543.55	212.35	3.560	
13,700.00	7,365.02	13,607.78	7,151.97	109.45	110.10	73.62	-1,539.92	6,499.10	755.33	539.81	215.52	3.505	
13,800.00	7,365.16	13,707.77	7,151.85	111.10	111.75	73.58	-1,540.19	6,599.10	754.77	536.07	218.70	3.451	
13,900.00	7,365.29	13,807.77	7,151.73	112.75	113.39	73.55	-1,540.46	6,699.09	754.20	532.33	221.88	3.399	
14,000.00	7,365.43	13,907.77	7,151.61	114.41	115.03	73.52	-1,540.72	6,799.09	753.64	528.59	225.05	3.349	
14,100.00	7,365.56	14,007.77	7,151.49	116.06	116.68	73.48	-1,540.99	6,899.09	753.08	524.85	228.23	3.300	
14,200.00	7,365.69	14,107.76	7,151.37	117.71	118.32	73.45	-1,541.26	6,999.08	752.51	521.10	231.41	3.252	
14,300.00	7,365.83	14,207.76	7,151.25	119.37	119.97	73.42	-1,541.52	7,099.08	751.95	517.36	234.58	3.205	
14,400.00	7,365.96	14,307.76	7,151.14	121.02	121.62	73.39	-1,541.79	7,199.08	751.39	513.62	237.76	3.160	
14,500.00	7,366.09	14,407.76	7,151.02	122.68	123.27	73.35	-1,542.06	7,299.08	750.82	509.88	240.94	3.116	
14,600.00	7,366.23	14,507.75	7,150.90	124.33	124.91	73.32	-1,542.32	7,399.07	750.26	506.14	244.12	3.073	
14,700.00	7,366.36	14,607.75	7,150.78	125.99	126.56	73.29	-1,542.59	7,499.07	749.70	502.40	247.30	3.032	
14,800.00	7,366.50	14,707.75	7,150.66	127.65	128.21	73.25	-1,542.86	7,599.07	749.13	498.66	250.47	2.991	
14,900.00	7,366.63	14,807.75	7,150.54	129.31	129.86	73.22	-1,543.12	7,699.06	748.57	494.92	253.65	2.951	
15,000.00	7,366.76	14,907.74	7,150.42	130.96	131.51	73.19	-1,543.39	7,799.06	748.01	491.18	256.83	2.912	
15,100.00	7,366.90	15,007.74	7,150.30	132.62	133.17	73.15	-1,543.66	7,899.06	747.45	487.44	260.01	2.875	
15,200.00	7,367.03	15,107.74	7,150.19	134.28	134.82	73.12	-1,543.92	7,999.06	746.89	483.71	263.18	2.838	
15,300.00	7,367.16	15,207.74	7,150.07	135.94	136.47	73.09	-1,544.19	8,099.05	746.33	479.97	266.36	2.802	
15,400.00	7,367.30	15,307.73	7,149.95	137.60	138.12	73.05	-1,544.46	8,199.05	745.77	476.23	269.54	2.767	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
15,500.00	7,367.43	15,407.73	7,149.83	139.26	139.78	73.02	-1,544.72	8,299.05	745.21	472.49	272.71	2.733		
15,600.00	7,367.57	15,507.73	7,149.71	140.92	141.43	72.99	-1,544.99	8,399.04	744.65	468.76	275.89	2.699		
15,700.00	7,367.70	15,607.73	7,149.59	142.58	143.08	72.95	-1,545.26	8,499.04	744.09	465.02	279.07	2.666		
15,800.00	7,367.83	15,707.72	7,149.47	144.24	144.74	72.92	-1,545.52	8,599.04	743.53	461.28	282.24	2.634		
15,900.00	7,367.97	15,807.72	7,149.36	145.90	146.39	72.89	-1,545.79	8,699.03	742.97	457.55	285.42	2.603		
16,000.00	7,368.10	15,907.72	7,149.24	147.56	148.05	72.85	-1,546.06	8,799.03	742.41	453.82	288.59	2.573		
16,100.00	7,368.24	16,007.72	7,149.12	149.22	149.70	72.82	-1,546.33	8,899.03	741.85	450.08	291.77	2.543		
16,200.00	7,368.37	16,107.71	7,149.00	150.88	151.36	72.79	-1,546.59	8,999.03	741.29	446.35	294.94	2.513		
16,300.00	7,368.50	16,207.71	7,148.88	152.54	153.02	72.75	-1,546.86	9,099.02	740.73	442.62	298.11	2.485		
16,400.00	7,368.64	16,307.71	7,148.76	154.21	154.67	72.72	-1,547.13	9,199.02	740.17	438.89	301.29	2.457		
16,500.00	7,368.77	16,407.71	7,148.64	155.87	156.33	72.68	-1,547.39	9,299.02	739.61	435.15	304.46	2.429		
16,600.00	7,368.90	16,507.70	7,148.52	157.53	157.99	72.65	-1,547.66	9,399.01	739.06	431.42	307.63	2.402		
16,700.00	7,369.04	16,607.70	7,148.41	159.19	159.65	72.62	-1,547.93	9,499.01	738.50	427.70	310.80	2.376		
16,800.00	7,369.17	16,707.70	7,148.29	160.86	161.30	72.58	-1,548.19	9,599.01	737.94	423.97	313.97	2.350		
16,900.00	7,369.31	16,807.69	7,148.17	162.52	162.96	72.55	-1,548.46	9,699.01	737.39	420.24	317.15	2.325		
17,000.00	7,369.44	16,907.69	7,148.05	164.18	164.62	72.51	-1,548.73	9,799.00	736.83	416.51	320.32	2.300		
17,100.00	7,369.57	17,007.69	7,147.93	165.84	166.28	72.48	-1,548.99	9,899.00	736.27	412.79	323.48	2.276		
17,200.00	7,369.71	17,107.69	7,147.81	167.51	167.94	72.45	-1,549.26	9,999.00	735.72	409.06	326.65	2.252		
17,300.00	7,369.84	17,207.68	7,147.69	169.17	169.60	72.41	-1,549.53	10,098.99	735.16	405.34	329.82	2.229		
17,400.00	7,369.97	17,307.68	7,147.58	170.84	171.26	72.38	-1,549.79	10,198.99	734.60	401.62	332.99	2.206		
17,500.00	7,370.11	17,407.68	7,147.46	172.50	172.92	72.34	-1,550.06	10,298.99	734.05	397.89	336.16	2.184		
17,600.00	7,370.24	17,507.68	7,147.34	174.16	174.58	72.31	-1,550.33	10,398.98	733.49	394.17	339.32	2.162		
17,700.00	7,370.38	17,607.67	7,147.22	175.83	176.24	72.27	-1,550.59	10,498.98	732.94	390.45	342.49	2.140		
17,800.00	7,370.51	17,707.67	7,147.10	177.49	177.90	72.24	-1,550.86	10,598.98	732.38	386.73	345.65	2.119		
17,900.00	7,370.64	17,807.67	7,146.98	179.16	179.56	72.20	-1,551.13	10,698.98	731.83	383.01	348.82	2.098		
18,000.00	7,370.78	17,907.67	7,146.86	180.82	181.22	72.17	-1,551.39	10,798.97	731.28	379.30	351.98	2.078		
18,100.00	7,370.91	18,007.66	7,146.74	182.49	182.88	72.13	-1,551.66	10,898.97	730.72	375.58	355.14	2.058		
18,200.00	7,371.05	18,107.66	7,146.63	184.15	184.54	72.10	-1,551.93	10,998.97	730.17	371.87	358.30	2.038		
18,300.00	7,371.18	18,207.66	7,146.51	185.82	186.20	72.06	-1,552.19	11,098.96	729.62	368.15	361.47	2.018		
18,400.00	7,371.31	18,307.66	7,146.39	187.48	187.86	72.03	-1,552.46	11,198.96	729.06	364.44	364.63	1.999		
18,500.00	7,371.45	18,407.65	7,146.27	189.15	189.53	71.99	-1,552.73	11,298.96	728.51	360.73	367.78	1.981		
18,600.00	7,371.58	18,507.65	7,146.15	190.82	191.19	71.96	-1,552.99	11,398.96	727.96	357.01	370.94	1.962		
18,700.00	7,371.71	18,607.65	7,146.03	192.48	192.85	71.92	-1,553.26	11,498.95	727.41	353.30	374.10	1.944		
18,800.00	7,371.85	18,707.65	7,145.91	194.15	194.51	71.89	-1,553.53	11,598.95	726.85	349.60	377.26	1.927		
18,900.00	7,371.98	18,807.64	7,145.80	195.81	196.18	71.85	-1,553.79	11,698.95	726.30	345.89	380.41	1.909		
19,000.00	7,372.12	18,907.64	7,145.68	197.48	197.84	71.82	-1,554.06	11,798.94	725.75	342.18	383.57	1.892		
19,100.00	7,372.25	19,007.64	7,145.56	199.15	199.50	71.78	-1,554.33	11,898.94	725.20	338.48	386.72	1.875		
19,200.00	7,372.38	19,107.64	7,145.44	200.81	201.16	71.75	-1,554.59	11,998.94	724.65	334.77	389.88	1.859		
19,300.00	7,372.52	19,207.63	7,145.32	202.48	202.83	71.71	-1,554.86	12,098.93	724.10	331.07	393.03	1.842		
19,400.00	7,372.65	19,307.63	7,145.20	204.14	204.49	71.68	-1,555.13	12,198.93	723.55	327.37	396.18	1.826		
19,500.00	7,372.79	19,407.63	7,145.08	205.81	206.15	71.64	-1,555.39	12,298.93	723.00	323.67	399.33	1.811		
19,600.00	7,372.92	19,507.63	7,144.96	207.48	207.82	71.61	-1,555.66	12,398.93	722.45	319.97	402.48	1.795		
19,700.00	7,373.05	19,607.62	7,144.85	209.15	209.48	71.57	-1,555.93	12,498.92	721.90	316.27	405.63	1.780		
19,800.00	7,373.19	19,707.62	7,144.73	210.81	211.15	71.54	-1,556.19	12,598.92	721.35	312.57	408.78	1.765		
19,900.00	7,373.32	19,807.62	7,144.61	212.48	212.81	71.50	-1,556.46	12,698.92	720.80	308.88	411.93	1.750		
20,000.00	7,373.45	19,907.62	7,144.49	214.15	214.47	71.46	-1,556.73	12,798.91	720.25	305.18	415.07	1.735		
20,100.00	7,373.59	20,007.61	7,144.37	215.81	216.14	71.43	-1,556.99	12,898.91	719.71	301.49	418.22	1.721		
20,200.00	7,373.72	20,107.61	7,144.25	217.48	217.80	71.39	-1,557.26	12,998.91	719.16	297.80	421.36	1.707		
20,300.00	7,373.86	20,207.61	7,144.13	219.15	219.47	71.36	-1,557.53	13,098.91	718.61	294.11	424.50	1.693		
20,400.00	7,373.99	20,307.61	7,144.02	220.82	221.13	71.32	-1,557.79	13,198.90	718.06	290.42	427.65	1.679		
20,407.86	7,374.00	20,315.47	7,144.01	220.95	221.26	71.32	-1,557.81	13,206.77	718.02	290.13	427.89	1.678 SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-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
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-80.15	0.56	80.15				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-80.15	0.56	80.15	72.62	7.53	10.646	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-80.15	0.56	80.15	72.58	7.57	10.583	
300.00	299.98	297.28	297.26	3.34	3.34	-4.74	-81.80	0.49	80.11	72.46	7.65	10.474	
400.00	399.84	394.57	394.42	3.40	3.40	-4.86	-86.75	0.27	79.98	72.23	7.75	10.321	
500.00	499.45	491.86	491.35	3.49	3.48	-5.07	-94.99	-0.08	79.76	71.87	7.89	10.114	
565.29	564.34	555.38	554.47	3.56	3.55	-5.23	-102.14	-0.38	79.86	71.86	8.00	9.986	
600.00	598.74	589.16	587.96	3.60	3.59	-5.34	-106.52	-0.57	79.72	71.66	8.06	9.890 CC, ES	
700.00	697.94	686.38	684.05	3.74	3.73	-5.50	-121.30	-1.20	82.41	74.13	8.27	9.962	
800.00	797.15	783.31	779.29	3.91	3.91	-5.51	-139.28	-1.97	88.47	79.95	8.52	10.383	
900.00	896.35	879.74	873.38	4.10	4.14	-5.40	-160.34	-2.87	97.90	89.09	8.81	11.118	
1,000.00	995.55	976.72	967.29	4.31	4.40	-5.21	-184.51	-3.91	110.46	101.32	9.14	12.085	
1,100.00	1,094.76	1,075.84	1,063.10	4.53	4.72	-5.03	-209.89	-4.99	123.73	114.18	9.54	12.966	
1,200.00	1,193.96	1,174.95	1,158.90	4.77	5.06	-4.89	-235.27	-6.08	136.99	127.02	9.97	13.736	
1,300.00	1,293.17	1,274.07	1,254.71	5.02	5.42	-4.77	-260.65	-7.17	150.26	139.83	10.43	14.408	
1,400.00	1,392.37	1,373.18	1,350.51	5.28	5.80	-4.68	-286.02	-8.25	163.53	152.63	10.90	15.001	
1,500.00	1,491.58	1,472.30	1,446.32	5.55	6.19	-4.59	-311.40	-9.34	176.80	165.41	11.40	15.512	
1,600.00	1,590.78	1,571.41	1,542.12	5.83	6.60	-4.52	-336.78	-10.42	190.08	178.17	11.91	15.961	
1,700.00	1,689.99	1,670.53	1,637.93	6.12	7.01	-4.46	-362.16	-11.51	203.35	190.91	12.43	16.355	
1,800.00	1,789.19	1,769.65	1,733.73	6.41	7.43	-4.41	-387.54	-12.59	216.62	203.65	12.97	16.702	
1,900.00	1,888.40	1,868.76	1,829.54	6.66	7.73	-4.36	-412.92	-13.68	229.89	216.98	12.91	17.810	
2,000.00	1,987.60	1,967.88	1,925.34	6.59	7.85	-4.32	-438.30	-14.77	243.16	230.18	12.99	18.726	
2,100.00	2,086.81	2,066.99	2,021.15	6.64	7.93	-4.28	-463.68	-15.85	256.43	243.39	13.05	19.654	
2,200.00	2,186.01	2,166.11	2,116.95	6.70	8.03	-4.24	-489.06	-16.94	269.70	256.56	13.14	20.521	
2,300.00	2,285.22	2,265.22	2,212.76	6.77	8.15	-4.21	-514.43	-18.02	282.98	269.71	13.27	21.323	
2,400.00	2,384.42	2,364.34	2,308.56	6.86	8.29	-4.18	-539.81	-19.11	296.25	282.82	13.43	22.059	
2,500.00	2,483.63	2,463.45	2,404.37	6.96	8.44	-4.16	-565.19	-20.20	309.52	295.90	13.62	22.727	
2,600.00	2,582.83	2,562.57	2,500.17	7.08	8.62	-4.13	-590.57	-21.28	322.79	308.96	13.84	23.328	
2,700.00	2,682.04	2,661.68	2,595.98	7.21	8.81	-4.11	-615.95	-22.37	336.06	321.98	14.08	23.863	
2,800.00	2,781.24	2,760.80	2,691.78	7.34	9.01	-4.09	-641.33	-23.45	349.34	334.98	14.35	24.336	
2,900.00	2,880.45	2,859.91	2,787.59	7.50	9.23	-4.07	-666.71	-24.54	362.61	347.96	14.65	24.750	
3,000.00	2,979.65	2,959.03	2,883.39	7.66	9.46	-4.05	-692.09	-25.63	375.88	360.91	14.97	25.110	
3,100.00	3,078.86	3,058.14	2,979.20	7.83	9.70	-4.04	-717.47	-26.71	389.15	373.84	15.31	25.418	
3,200.00	3,178.06	3,157.26	3,075.00	8.01	9.96	-4.02	-742.85	-27.80	402.43	386.76	15.67	25.680	
3,300.00	3,277.27	3,256.37	3,170.81	8.20	10.22	-4.01	-768.22	-28.88	415.70	399.65	16.05	25.901	
3,400.00	3,376.47	3,355.49	3,266.61	8.39	10.50	-3.99	-793.60	-29.97	428.97	412.53	16.45	26.083	
3,500.00	3,475.68	3,454.60	3,362.42	8.60	10.78	-3.98	-818.98	-31.05	442.24	425.39	16.86	26.232	
3,600.00	3,574.88	3,553.72	3,458.22	8.81	11.08	-3.97	-844.36	-32.14	455.52	438.23	17.29	26.352	
3,700.00	3,674.09	3,652.83	3,554.02	9.02	11.38	-3.96	-869.74	-33.23	468.79	451.06	17.73	26.445	
3,800.00	3,773.29	3,751.95	3,649.83	9.25	11.68	-3.95	-895.12	-34.31	482.06	463.88	18.18	26.515	
3,900.00	3,872.50	3,851.07	3,745.63	9.48	12.00	-3.94	-920.50	-35.40	495.33	476.69	18.65	26.565	
4,000.00	3,971.70	3,950.18	3,841.44	9.71	12.32	-3.93	-945.88	-36.48	508.61	489.48	19.12	26.598	
4,100.00	4,070.91	4,049.30	3,937.24	9.95	12.64	-3.92	-971.26	-37.57	521.88	502.27	19.61	26.615	
4,200.00	4,170.11	4,148.41	4,033.05	10.19	12.97	-3.91	-996.64	-38.66	535.15	515.05	20.10	26.619	
4,300.00	4,269.32	4,247.53	4,128.85	10.44	13.30	-3.90	-1,022.01	-39.74	548.42	527.82	20.61	26.612	
4,400.00	4,368.52	4,346.64	4,224.66	10.69	13.64	-3.90	-1,047.39	-40.83	561.70	540.58	21.12	26.595	
4,500.00	4,467.73	4,445.76	4,320.46	10.95	13.99	-3.89	-1,072.77	-41.91	574.97	553.33	21.64	26.570	
4,600.00	4,566.93	4,544.87	4,416.27	11.21	14.33	-3.88	-1,098.15	-43.00	588.24	566.08	22.17	26.538	
4,700.00	4,666.14	4,643.99	4,512.07	11.47	14.68	-3.87	-1,123.53	-44.09	601.51	578.82	22.70	26.499	
4,800.00	4,765.34	4,743.10	4,607.88	11.73	15.04	-3.87	-1,148.91	-45.17	614.79	591.55	23.24	26.456	
4,900.00	4,864.55	4,842.22	4,703.68	12.00	15.39	-3.86	-1,174.29	-46.26	628.06	604.28	23.78	26.409	
5,000.00	4,963.75	4,941.33	4,799.49	12.27	15.75	-3.86	-1,199.67	-47.34	641.33	617.00	24.33	26.358	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-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		
5,100.00	5,062.96	5,040.45	4,895.29	12.54	16.12	-3.85	-1,225.05	-48.43	654.61	629.72	24.89	26.304		
5,200.00	5,162.16	5,139.56	4,991.10	12.81	16.48	-3.84	-1,250.42	-49.51	667.88	642.43	25.44	26.248		
5,300.00	5,261.37	5,238.68	5,086.90	13.09	16.85	-3.84	-1,275.80	-50.60	681.15	655.14	26.01	26.191		
5,400.00	5,360.57	5,337.79	5,182.71	13.37	17.22	-3.83	-1,301.18	-51.69	694.42	667.85	26.57	26.131		
5,500.00	5,459.78	5,436.91	5,278.51	13.65	17.59	-3.83	-1,326.56	-52.77	707.70	680.55	27.14	26.071		
5,600.00	5,558.98	5,536.02	5,374.32	13.93	17.96	-3.82	-1,351.94	-53.86	720.97	693.25	27.72	26.010		
5,700.00	5,658.18	5,635.14	5,470.12	14.21	18.33	-3.82	-1,377.32	-54.94	734.24	705.95	28.30	25.949		
5,800.00	5,757.39	5,734.26	5,565.93	14.50	18.71	-3.82	-1,402.70	-56.03	747.51	718.64	28.88	25.887		
5,900.00	5,856.59	5,833.37	5,661.73	14.79	19.09	-3.81	-1,428.08	-57.12	760.79	731.33	29.46	25.825		
6,000.00	5,955.80	5,932.49	5,757.54	15.07	19.47	-3.81	-1,453.46	-58.20	774.06	744.01	30.04	25.763		
6,100.00	6,055.00	6,031.60	5,853.34	15.36	19.85	-3.80	-1,478.84	-59.29	787.33	756.70	30.63	25.702		
6,200.00	6,154.21	6,130.72	5,949.15	15.65	20.23	-3.80	-1,504.21	-60.37	800.60	769.38	31.22	25.641		
6,300.00	6,253.41	6,229.83	6,044.95	15.94	20.61	-3.80	-1,529.59	-61.46	813.88	782.06	31.82	25.580		
6,400.00	6,352.62	6,328.95	6,140.75	16.24	21.00	-3.79	-1,554.97	-62.55	827.15	794.74	32.41	25.520		
6,500.00	6,451.82	6,428.06	6,236.56	16.53	21.38	-3.79	-1,580.35	-63.63	840.42	807.41	33.01	25.460		
6,600.00	6,551.03	6,527.18	6,332.36	16.83	21.77	-3.79	-1,605.73	-64.72	853.70	820.09	33.61	25.401		
6,700.00	6,650.23	6,626.29	6,428.17	17.12	22.16	-3.78	-1,631.11	-65.80	866.97	832.76	34.21	25.343		
6,800.00	6,749.44	6,725.39	6,523.96	17.41	22.55	18.37	-1,656.48	-66.89	880.27	845.46	34.80	25.292		
6,900.00	6,847.87	6,823.90	6,619.17	17.64	22.93	58.11	-1,681.71	-67.84	893.95	858.60	35.35	25.288		
7,000.00	6,943.29	6,925.78	6,717.17	17.88	23.26	71.01	-1,707.67	-68.81	908.02	872.15	35.87	25.312		
7,100.00	7,033.35	7,031.03	6,815.58	18.10	23.59	76.50	-1,733.77	-69.85	922.09	885.69	36.40	25.335		
7,200.00	7,115.82	7,139.87	6,911.54	18.32	23.91	79.37	-1,759.23	11.65	935.74	898.80	36.94	25.330		
7,300.00	7,188.68	7,252.44	7,001.61	18.52	24.23	81.01	-1,783.14	74.53	948.57	911.03	37.54	25.269		
7,400.00	7,250.14	7,368.65	7,081.88	18.71	24.54	81.98	-1,804.47	155.59	960.14	921.90	38.24	25.108		
7,500.00	7,298.67	7,488.19	7,148.18	18.92	24.84	82.52	-1,822.12	253.26	970.04	930.94	39.10	24.809		
7,600.00	7,333.08	7,610.43	7,196.53	19.20	25.14	82.74	-1,835.03	364.58	977.91	937.73	40.17	24.342		
7,700.00	7,352.53	7,734.48	7,223.69	19.62	25.49	82.71	-1,842.33	485.19	983.46	941.97	41.49	23.706		
7,800.00	7,357.04	7,850.85	7,229.05	20.23	25.90	82.55	-1,843.85	601.33	986.65	943.65	43.00	22.945		
7,900.00	7,357.17	7,950.82	7,229.20	21.00	26.36	82.57	-1,843.97	701.29	989.27	944.59	44.68	22.142		
8,000.00	7,357.31	8,050.78	7,229.35	21.89	26.94	82.59	-1,844.10	801.26	991.89	945.36	46.53	21.316		
8,100.00	7,357.45	8,150.75	7,229.51	22.89	27.64	82.61	-1,844.23	901.22	994.51	945.97	48.54	20.487		
8,200.00	7,357.58	8,250.71	7,229.66	23.96	28.44	82.63	-1,844.35	1,001.19	997.13	946.44	50.69	19.670		
8,300.00	7,357.72	8,350.68	7,229.81	25.11	29.35	82.65	-1,844.48	1,101.15	999.75	946.79	52.96	18.876		
8,400.00	7,357.86	8,450.64	7,229.96	26.31	30.33	82.67	-1,844.61	1,201.12	1,002.37	947.03	55.34	18.112		
8,500.00	7,357.99	8,550.61	7,230.12	27.56	31.39	82.69	-1,844.73	1,301.08	1,004.99	947.18	57.81	17.384		
8,600.00	7,358.13	8,650.57	7,230.27	28.86	32.51	82.71	-1,844.86	1,401.05	1,007.62	947.25	60.36	16.692		
8,700.00	7,358.27	8,750.54	7,230.42	30.19	33.68	82.73	-1,844.99	1,501.01	1,010.24	947.25	62.99	16.038		
8,800.00	7,358.40	8,850.50	7,230.58	31.55	34.90	82.75	-1,845.11	1,600.98	1,012.86	947.18	65.68	15.422		
8,900.00	7,358.54	8,950.47	7,230.73	32.95	36.16	82.77	-1,845.24	1,700.94	1,015.48	947.06	68.42	14.842		
9,000.00	7,358.68	9,050.43	7,230.88	34.36	37.45	82.79	-1,845.36	1,800.91	1,018.10	946.89	71.21	14.297		
9,100.00	7,358.81	9,150.40	7,231.03	35.80	38.77	82.81	-1,845.49	1,900.87	1,020.73	946.68	74.05	13.785		
9,200.00	7,358.95	9,250.36	7,231.19	37.26	40.13	82.83	-1,845.62	2,000.84	1,023.35	946.43	76.92	13.304		
9,300.00	7,359.09	9,350.33	7,231.34	38.73	41.50	82.85	-1,845.74	2,100.80	1,025.97	946.14	79.83	12.852		
9,400.00	7,359.23	9,450.29	7,231.49	40.22	42.90	82.87	-1,845.87	2,200.76	1,028.59	945.82	82.77	12.427		
9,500.00	7,359.36	9,550.26	7,231.65	41.72	44.32	82.89	-1,846.00	2,300.73	1,031.22	945.48	85.74	12.028		
9,600.00	7,359.50	9,650.22	7,231.80	43.24	45.76	82.90	-1,846.12	2,400.69	1,033.84	945.11	88.73	11.651		
9,700.00	7,359.64	9,750.19	7,231.95	44.77	47.21	82.92	-1,846.25	2,500.66	1,036.46	944.72	91.75	11.297		
9,800.00	7,359.77	9,850.15	7,232.10	46.30	48.67	82.94	-1,846.38	2,600.62	1,039.09	944.30	94.78	10.963		
9,900.00	7,359.91	9,950.12	7,232.26	47.85	50.15	82.96	-1,846.50	2,700.59	1,041.71	943.87	97.84	10.647		
10,000.00	7,360.05	10,050.08	7,232.41	49.40	51.64	82.98	-1,846.63	2,800.55	1,044.33	943.42	100.91	10.349		
10,100.00	7,360.18	10,150.05	7,232.56	50.96	53.15	83.00	-1,846.76	2,900.52	1,046.95	942.96	103.99	10.067		
10,200.00	7,360.32	10,250.01	7,232.72	52.53	54.66	83.02	-1,846.88	3,000.48	1,049.58	942.48	107.09	9.801		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-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		
10,300.00	7,360.46	10,349.98	7,232.87	54.10	56.18	83.03	-1,847.01	3,100.45	1,052.20	941.99	110.21	9.547		
10,400.00	7,360.59	10,449.94	7,233.02	55.68	57.71	83.05	-1,847.14	3,200.41	1,054.83	941.49	113.33	9.307		
10,500.00	7,360.73	10,549.91	7,233.17	57.26	59.25	83.07	-1,847.26	3,300.38	1,057.45	940.98	116.47	9.079		
10,600.00	7,360.87	10,649.87	7,233.33	58.85	60.79	83.09	-1,847.39	3,400.34	1,060.07	940.46	119.62	8.862		
10,700.00	7,361.00	10,749.84	7,233.48	60.44	62.34	83.11	-1,847.52	3,500.31	1,062.70	939.93	122.77	8.656		
10,800.00	7,361.14	10,849.80	7,233.63	62.04	63.90	83.13	-1,847.64	3,600.27	1,065.32	939.39	125.94	8.459		
10,900.00	7,361.28	10,949.79	7,233.79	63.64	65.47	83.13	-1,847.77	3,700.26	1,066.19	937.08	129.11	8.258		
11,000.00	7,361.41	11,049.79	7,233.94	65.25	67.03	83.13	-1,847.90	3,800.26	1,065.39	933.10	132.29	8.053		
11,100.00	7,361.54	11,149.79	7,234.09	66.86	68.61	83.12	-1,848.02	3,900.26	1,064.59	929.11	135.48	7.858		
11,200.00	7,361.68	11,249.78	7,234.25	68.48	70.19	83.12	-1,848.15	4,000.25	1,063.79	925.11	138.68	7.671		
11,300.00	7,361.81	11,349.78	7,234.40	70.10	71.77	83.11	-1,848.28	4,100.25	1,062.99	921.11	141.88	7.492		
11,400.00	7,361.95	11,449.78	7,234.55	71.72	73.35	83.11	-1,848.40	4,200.25	1,062.19	917.10	145.09	7.321		
11,500.00	7,362.08	11,549.77	7,234.70	73.35	74.95	83.11	-1,848.53	4,300.24	1,061.39	913.09	148.30	7.157		
11,600.00	7,362.21	11,649.77	7,234.86	74.97	76.54	83.10	-1,848.66	4,400.24	1,060.59	909.07	151.52	7.000		
11,700.00	7,362.35	11,749.77	7,235.01	76.60	78.14	83.10	-1,848.78	4,500.24	1,059.79	905.05	154.74	6.849		
11,800.00	7,362.48	11,849.76	7,235.16	78.23	79.74	83.09	-1,848.91	4,600.23	1,058.99	901.02	157.97	6.704		
11,900.00	7,362.61	11,949.76	7,235.32	79.86	81.34	83.09	-1,849.04	4,700.23	1,058.19	896.99	161.20	6.565		
12,000.00	7,362.75	12,049.76	7,235.47	81.50	82.94	83.09	-1,849.16	4,800.23	1,057.39	892.96	164.43	6.431		
12,100.00	7,362.88	12,149.75	7,235.62	83.13	84.55	83.08	-1,849.29	4,900.22	1,056.59	888.92	167.67	6.302		
12,200.00	7,363.02	12,249.75	7,235.77	84.77	86.16	83.08	-1,849.42	5,000.22	1,055.79	884.88	170.91	6.178		
12,300.00	7,363.15	12,349.75	7,235.93	86.41	87.78	83.07	-1,849.54	5,100.22	1,054.99	880.84	174.15	6.058		
12,400.00	7,363.28	12,449.74	7,236.08	88.05	89.39	83.07	-1,849.67	5,200.21	1,054.19	876.79	177.40	5.942		
12,500.00	7,363.42	12,549.74	7,236.23	89.69	91.01	83.06	-1,849.80	5,300.21	1,053.39	872.74	180.65	5.831		
12,600.00	7,363.55	12,649.74	7,236.39	91.33	92.63	83.06	-1,849.92	5,400.21	1,052.59	868.69	183.90	5.724		
12,700.00	7,363.69	12,749.73	7,236.54	92.97	94.25	83.06	-1,850.05	5,500.20	1,051.79	864.64	187.15	5.620		
12,800.00	7,363.82	12,861.57	7,236.71	94.61	96.06	83.05	-1,850.01	5,612.03	1,050.88	860.45	190.43	5.519		
12,900.00	7,363.95	12,961.61	7,236.84	96.26	97.68	83.04	-1,848.99	5,712.07	1,048.95	855.26	193.68	5.416		
13,000.00	7,364.09	13,061.59	7,236.98	97.90	99.30	83.02	-1,847.97	5,812.05	1,047.01	850.07	196.94	5.316		
13,100.00	7,364.22	13,161.58	7,237.11	99.55	100.93	83.01	-1,846.96	5,912.03	1,045.08	844.88	200.20	5.220		
13,200.00	7,364.35	13,261.56	7,237.25	101.20	102.55	83.00	-1,845.94	6,012.00	1,043.15	839.69	203.46	5.127		
13,300.00	7,364.49	13,361.54	7,237.38	102.85	104.18	82.99	-1,844.92	6,111.98	1,041.22	834.50	206.72	5.037		
13,400.00	7,364.62	13,461.52	7,237.52	104.50	105.81	82.97	-1,843.91	6,211.95	1,039.29	829.30	209.99	4.949		
13,500.00	7,364.76	13,561.50	7,237.65	106.15	107.44	82.96	-1,842.89	6,311.93	1,037.36	824.10	213.26	4.864		
13,600.00	7,364.89	13,661.48	7,237.79	107.80	109.07	82.95	-1,841.88	6,411.90	1,035.42	818.90	216.52	4.782		
13,700.00	7,365.02	13,761.46	7,237.93	109.45	110.70	82.93	-1,840.86	6,511.88	1,033.49	813.70	219.79	4.702		
13,800.00	7,365.16	13,861.44	7,238.06	111.10	112.33	82.92	-1,839.84	6,611.86	1,031.56	808.50	223.06	4.625		
13,900.00	7,365.29	13,961.42	7,238.20	112.75	113.97	82.91	-1,838.83	6,711.83	1,029.63	803.30	226.33	4.549		
14,000.00	7,365.43	14,061.41	7,238.33	114.41	115.60	82.89	-1,837.81	6,811.81	1,027.70	798.09	229.61	4.476		
14,100.00	7,365.56	14,161.39	7,238.47	116.06	117.24	82.88	-1,836.80	6,911.78	1,025.77	792.89	232.88	4.405		
14,200.00	7,365.69	14,261.37	7,238.60	117.71	118.87	82.87	-1,835.78	7,011.76	1,023.84	787.68	236.16	4.335		
14,300.00	7,365.83	14,361.35	7,238.74	119.37	120.51	82.85	-1,834.76	7,111.74	1,021.91	782.47	239.43	4.268		
14,400.00	7,365.96	14,461.33	7,238.87	121.02	122.15	82.84	-1,833.75	7,211.71	1,019.98	777.27	242.71	4.202		
14,500.00	7,366.09	14,561.31	7,239.01	122.68	123.79	82.83	-1,832.73	7,311.69	1,018.04	772.06	245.99	4.139		
14,600.00	7,366.23	14,661.29	7,239.14	124.33	125.43	82.81	-1,831.71	7,411.66	1,016.11	766.85	249.27	4.076		
14,700.00	7,366.36	14,761.27	7,239.28	125.99	127.07	82.80	-1,830.70	7,511.64	1,014.18	761.64	252.55	4.016		
14,800.00	7,366.50	14,861.25	7,239.42	127.65	128.71	82.79	-1,829.68	7,611.61	1,012.25	756.42	255.83	3.957		
14,900.00	7,366.63	14,961.23	7,239.55	129.31	130.36	82.77	-1,828.67	7,711.59	1,010.32	751.21	259.11	3.899		
15,000.00	7,366.76	15,061.22	7,239.69	130.96	132.00	82.76	-1,827.65	7,811.57	1,008.39	746.00	262.39	3.843		
15,100.00	7,366.90	15,161.20	7,239.82	132.62	133.64	82.74	-1,826.63	7,911.54	1,006.46	740.79	265.67	3.788		
15,200.00	7,367.03	15,261.18	7,239.96	134.28	135.29	82.73	-1,825.62	8,011.52	1,004.53	735.57	268.96	3.735		
15,300.00	7,367.16	15,361.16	7,240.09	135.94	136.93	82.72	-1,824.60	8,111.49	1,002.60	730.36	272.24	3.683		
15,400.00	7,367.30	15,461.14	7,240.23	137.60	138.58	82.70	-1,823.59	8,211.47	1,000.67	725.14	275.53	3.632		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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-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	
15,500.00	7,367.43	15,561.12	7,240.36	139.26	140.23	82.69	-1,822.57	8,311.45	998.74	719.93	278.81	3.582		
15,600.00	7,367.57	15,661.10	7,240.50	140.92	141.87	82.67	-1,821.55	8,411.42	996.81	714.71	282.10	3.534		
15,700.00	7,367.70	15,761.08	7,240.63	142.58	143.52	82.66	-1,820.54	8,511.40	994.88	709.50	285.38	3.486		
15,800.00	7,367.83	15,861.06	7,240.77	144.24	145.17	82.64	-1,819.52	8,611.37	992.95	704.28	288.67	3.440		
15,900.00	7,367.97	15,961.05	7,240.90	145.90	146.82	82.63	-1,818.51	8,711.35	991.02	699.06	291.96	3.394		
16,000.00	7,368.10	16,061.03	7,241.04	147.56	148.47	82.62	-1,817.49	8,811.32	989.09	693.84	295.24	3.350		
16,100.00	7,368.24	16,161.01	7,241.18	149.22	150.11	82.60	-1,816.47	8,911.30	987.16	688.63	298.53	3.307		
16,200.00	7,368.37	16,260.99	7,241.31	150.88	151.76	82.59	-1,815.46	9,011.28	985.23	683.41	301.82	3.264		
16,300.00	7,368.50	16,360.97	7,241.45	152.54	153.41	82.57	-1,814.44	9,111.25	983.30	678.19	305.11	3.223		
16,400.00	7,368.64	16,460.95	7,241.58	154.21	155.07	82.56	-1,813.43	9,211.23	981.37	672.97	308.40	3.182		
16,500.00	7,368.77	16,560.93	7,241.72	155.87	156.72	82.54	-1,812.41	9,311.20	979.44	667.75	311.69	3.142		
16,600.00	7,368.90	16,660.91	7,241.85	157.53	158.37	82.53	-1,811.39	9,411.18	977.51	662.53	314.98	3.103		
16,700.00	7,369.04	16,760.89	7,241.99	159.19	160.02	82.51	-1,810.38	9,511.15	975.58	657.31	318.27	3.065		
16,800.00	7,369.17	16,860.87	7,242.12	160.86	161.67	82.50	-1,809.36	9,611.13	973.65	652.09	321.56	3.028		
16,900.00	7,369.31	16,960.86	7,242.26	162.52	163.33	82.48	-1,808.35	9,711.11	971.72	646.87	324.85	2.991		
17,000.00	7,369.44	17,060.84	7,242.39	164.18	164.98	82.47	-1,807.33	9,811.08	969.79	641.65	328.14	2.955		
17,100.00	7,369.57	17,160.82	7,242.53	165.84	166.63	82.45	-1,806.31	9,911.06	967.86	636.43	331.43	2.920		
17,200.00	7,369.71	17,260.80	7,242.66	167.51	168.29	82.44	-1,805.30	10,011.03	965.93	631.21	334.72	2.886		
17,300.00	7,369.84	17,360.78	7,242.80	169.17	169.94	82.42	-1,804.28	10,111.01	964.00	625.99	338.01	2.852		
17,400.00	7,369.97	17,460.76	7,242.94	170.84	171.59	82.41	-1,803.26	10,210.99	962.07	620.77	341.30	2.819		
17,500.00	7,370.11	17,560.74	7,243.07	172.50	173.25	82.39	-1,802.25	10,310.96	960.15	615.55	344.59	2.786		
17,600.00	7,370.24	17,660.72	7,243.21	174.16	174.90	82.38	-1,801.23	10,410.94	958.22	610.33	347.89	2.754		
17,700.00	7,370.38	17,760.70	7,243.34	175.83	176.56	82.36	-1,800.22	10,510.91	956.29	605.11	351.18	2.723		
17,800.00	7,370.51	17,860.69	7,243.48	177.49	178.21	82.35	-1,799.20	10,610.89	954.36	599.89	354.47	2.692		
17,900.00	7,370.64	17,960.67	7,243.61	179.16	179.87	82.33	-1,798.18	10,710.86	952.43	594.67	357.76	2.662		
18,000.00	7,370.78	18,060.65	7,243.75	180.82	181.53	82.32	-1,797.17	10,810.84	950.50	589.45	361.05	2.633		
18,100.00	7,370.91	18,160.63	7,243.88	182.49	183.18	82.30	-1,796.15	10,910.82	948.57	584.23	364.35	2.603		
18,200.00	7,371.05	18,260.61	7,244.02	184.15	184.84	82.29	-1,795.14	11,010.79	946.64	579.01	367.64	2.575		
18,300.00	7,371.18	18,360.59	7,244.15	185.82	186.50	82.27	-1,794.12	11,110.77	944.72	573.79	370.93	2.547		
18,400.00	7,371.31	18,460.57	7,244.29	187.48	188.15	82.25	-1,793.10	11,210.74	942.79	568.56	374.22	2.519		
18,500.00	7,371.45	18,560.55	7,244.42	189.15	189.81	82.24	-1,792.09	11,310.72	940.86	563.34	377.52	2.492		
18,600.00	7,371.58	18,660.53	7,244.56	190.82	191.47	82.22	-1,791.07	11,410.70	938.93	558.12	380.81	2.466		
18,700.00	7,371.71	18,760.52	7,244.70	192.48	193.13	82.21	-1,790.06	11,510.67	937.00	552.90	384.10	2.439		
18,800.00	7,371.85	18,860.50	7,244.83	194.15	194.78	82.19	-1,789.04	11,610.65	935.07	547.68	387.39	2.414		
18,900.00	7,371.98	18,960.48	7,244.97	195.81	196.44	82.17	-1,788.02	11,710.62	933.15	542.46	390.69	2.388		
19,000.00	7,372.12	19,060.46	7,245.10	197.48	198.10	82.16	-1,787.01	11,810.60	931.22	537.24	393.98	2.364		
19,100.00	7,372.25	19,160.44	7,245.24	199.15	199.76	82.14	-1,785.99	11,910.57	929.29	532.02	397.27	2.339		
19,200.00	7,372.38	19,260.42	7,245.37	200.81	201.42	82.13	-1,784.98	12,010.55	927.36	526.80	400.57	2.315		
19,300.00	7,372.52	19,360.40	7,245.51	202.48	203.08	82.11	-1,783.96	12,110.53	925.44	521.58	403.86	2.291		
19,400.00	7,372.65	19,460.38	7,245.64	204.14	204.73	82.09	-1,782.94	12,210.50	923.51	516.36	407.15	2.268		
19,500.00	7,372.79	19,560.36	7,245.78	205.81	206.39	82.08	-1,781.93	12,310.48	921.58	511.14	410.44	2.245		
19,600.00	7,372.92	19,660.34	7,245.91	207.48	208.05	82.06	-1,780.91	12,410.45	919.65	505.92	413.74	2.223		
19,700.00	7,373.05	19,760.33	7,246.05	209.15	209.71	82.04	-1,779.89	12,510.43	917.73	500.70	417.03	2.201		
19,800.00	7,373.19	19,860.31	7,246.18	210.81	211.37	82.03	-1,778.88	12,610.41	915.80	495.48	420.32	2.179		
19,900.00	7,373.32	19,960.29	7,246.32	212.48	213.03	82.01	-1,777.86	12,710.38	913.87	490.26	423.61	2.157		
20,000.00	7,373.45	20,060.27	7,246.46	214.15	214.69	81.99	-1,776.85	12,810.36	911.94	485.04	426.91	2.136		
20,100.00	7,373.59	20,160.25	7,246.59	215.81	216.35	81.97	-1,775.83	12,910.33	910.02	479.82	430.20	2.115		
20,200.00	7,373.72	20,260.23	7,246.73	217.48	218.01	81.96	-1,774.81	13,010.31	908.09	474.60	433.49	2.095		
20,300.00	7,373.86	20,360.21	7,246.86	219.15	219.67	81.94	-1,773.80	13,110.28	906.16	469.38	436.78	2.075		
20,400.00	7,373.99	20,460.19	7,247.00	220.82	221.33	81.92	-1,772.78	13,210.26	904.24	464.16	440.07	2.055		
20,407.86	7,374.00	20,468.06	7,247.01	220.95	221.47	81.92	-1,772.70	13,218.12	904.08	463.75	440.33	2.053 SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
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		
300.00	299.98	301.41	301.38	3.34	3.35	175.17	38.29	-0.50	40.06	32.41	7.65	5.236		
395.08	394.93	397.82	397.67	3.40	3.40	174.82	33.30	-1.12	40.02	32.27	7.75	5.165 CC		
400.00	399.84	402.72	402.55	3.40	3.41	174.79	32.97	-1.16	40.02	32.27	7.75	5.161 ES		
500.00	499.45	502.69	502.29	3.49	3.49	174.57	26.18	-2.01	41.94	34.02	7.91	5.300		
600.00	598.74	602.56	601.92	3.60	3.59	174.75	19.41	-2.85	47.07	38.95	8.12	5.799		
700.00	697.94	702.39	701.52	3.74	3.72	174.96	12.64	-3.70	52.86	44.50	8.36	6.326		
800.00	797.15	802.22	801.12	3.91	3.86	175.13	5.86	-4.54	58.65	50.02	8.63	6.795		
900.00	896.35	902.05	900.72	4.10	4.02	175.27	-0.91	-5.38	64.44	55.50	8.94	7.208		
1,000.00	995.55	1,001.89	1,000.32	4.31	4.20	175.39	-7.68	-6.23	70.23	60.95	9.28	7.571		
1,100.00	1,094.76	1,101.72	1,099.91	4.53	4.39	175.49	-14.45	-7.07	76.02	66.38	9.64	7.887		
1,200.00	1,193.96	1,201.55	1,199.51	4.77	4.59	175.58	-21.23	-7.91	81.81	71.78	10.02	8.162		
1,300.00	1,293.17	1,301.38	1,299.11	5.02	4.81	175.65	-28.00	-8.76	87.60	77.17	10.43	8.401		
1,400.00	1,392.37	1,401.21	1,398.71	5.28	5.03	175.71	-34.77	-9.60	93.39	82.54	10.85	8.609		
1,500.00	1,491.58	1,501.05	1,498.31	5.55	5.25	175.77	-41.54	-10.44	99.18	87.89	11.28	8.789		
1,600.00	1,590.78	1,600.88	1,597.91	5.83	5.49	175.82	-48.32	-11.29	104.97	93.24	11.73	8.946		
1,700.00	1,689.99	1,700.71	1,697.51	6.12	5.73	175.87	-55.09	-12.13	110.76	98.57	12.19	9.083		
1,800.00	1,789.19	1,800.54	1,797.10	6.41	5.98	175.91	-61.86	-12.98	116.55	103.89	12.67	9.202		
1,900.00	1,888.40	1,900.38	1,896.70	6.56	6.11	175.95	-68.63	-13.82	122.34	109.81	12.53	9.764		
2,000.00	1,987.60	2,000.21	1,996.30	6.59	6.12	175.98	-75.41	-14.66	128.13	115.58	12.56	10.203		
2,100.00	2,086.81	2,100.04	2,095.90	6.64	6.16	176.01	-82.18	-15.51	133.92	121.31	12.61	10.617		
2,200.00	2,186.01	2,200.13	2,195.50	6.70	6.20	176.04	-88.95	-16.35	139.72	127.02	12.70	11.004		
2,300.00	2,285.22	2,300.30	2,295.10	6.77	6.26	176.07	-95.72	-17.19	145.51	132.70	12.81	11.361		
2,400.00	2,384.42	2,400.46	2,394.70	6.86	6.33	176.09	-102.50	-18.04	151.30	138.36	12.94	11.689		
2,500.00	2,483.63	2,500.63	2,494.29	6.96	6.42	176.11	-109.27	-18.88	157.09	143.98	13.10	11.987		
2,600.00	2,582.83	2,600.80	2,593.89	7.08	6.52	176.13	-116.04	-19.72	162.88	149.59	13.29	12.255		
2,700.00	2,682.04	2,700.97	2,693.49	7.21	6.62	176.15	-122.81	-20.57	168.67	155.17	13.50	12.495		
2,800.00	2,781.24	2,801.14	2,793.09	7.34	6.74	176.17	-129.59	-21.41	174.46	160.73	13.73	12.706		
2,900.00	2,880.45	2,901.30	2,892.69	7.50	6.87	176.19	-136.36	-22.25	180.25	166.27	13.98	12.891		
3,000.00	2,979.65	3,001.47	2,992.29	7.66	7.01	176.20	-143.13	-23.10	186.05	171.79	14.25	13.052		
3,100.00	3,078.86	3,101.64	3,091.89	7.83	7.16	176.22	-149.90	-23.94	191.84	177.29	14.54	13.189		
3,200.00	3,178.06	3,201.81	3,191.48	8.01	7.32	176.23	-156.68	-24.79	197.63	182.78	14.85	13.306		
3,300.00	3,277.27	3,301.97	3,291.08	8.20	7.48	176.24	-163.45	-25.63	203.42	188.24	15.18	13.403		
3,400.00	3,376.47	3,402.14	3,390.68	8.39	7.66	176.26	-170.22	-26.47	209.21	193.69	15.52	13.483		
3,500.00	3,475.68	3,502.31	3,490.28	8.60	7.84	176.27	-176.99	-27.32	215.00	199.13	15.87	13.547		
3,600.00	3,574.88	3,597.52	3,589.88	8.81	8.01	176.28	-183.77	-28.16	220.79	204.56	16.23	13.604		
3,700.00	3,674.09	3,702.65	3,689.48	9.02	8.21	176.29	-190.54	-29.00	226.59	209.97	16.62	13.634		
3,800.00	3,773.29	3,802.81	3,789.08	9.25	8.41	176.30	-197.31	-29.85	232.38	215.37	17.01	13.661		
3,900.00	3,872.50	3,902.98	3,888.68	9.48	8.62	176.31	-204.09	-30.69	238.17	220.76	17.41	13.678		
4,000.00	3,971.70	4,003.15	3,988.27	9.71	8.83	176.32	-210.86	-31.53	243.96	226.14	17.82	13.687		
4,100.00	4,070.91	4,103.32	4,087.87	9.95	9.04	176.33	-217.63	-32.38	249.75	231.51	18.25	13.688		
4,200.00	4,170.11	4,203.49	4,187.47	10.19	9.26	176.34	-224.40	-33.22	255.54	236.87	18.68	13.683		
4,300.00	4,269.32	4,303.65	4,287.07	10.44	9.48	176.34	-231.18	-34.06	261.33	242.22	19.11	13.672		
4,400.00	4,368.52	4,403.82	4,386.67	10.69	9.70	176.35	-237.95	-34.91	267.13	247.57	19.56	13.657		
4,500.00	4,467.73	4,496.01	4,486.27	10.95	9.91	176.36	-244.72	-35.75	272.92	252.92	20.00	13.649		
4,600.00	4,566.93	4,604.16	4,585.87	11.21	10.17	176.37	-251.49	-36.60	278.71	258.24	20.47	13.614		
4,700.00	4,666.14	4,704.32	4,685.46	11.47	10.40	176.37	-258.27	-37.44	284.50	263.56	20.94	13.588		
4,800.00	4,765.34	4,804.49	4,785.06	11.73	10.64	176.38	-265.04	-38.28	290.29	268.88	21.41	13.560		
4,900.00	4,864.55	4,895.34	4,884.66	12.00	10.86	176.39	-271.81	-39.13	296.08	274.22	21.86	13.543		
5,000.00	4,963.75	5,004.83	4,984.26	12.27	11.12	176.39	-278.58	-39.97	301.87	279.51	22.37	13.497		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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						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	5,062.96	5,105.00	5,083.86	12.54	11.37	176.40	-285.36	-40.81	307.67	284.81	22.85	13.464		
5,200.00	5,162.16	5,205.16	5,183.46	12.81	11.62	176.40	-292.13	-41.66	313.46	290.12	23.34	13.429		
5,300.00	5,261.37	5,294.67	5,283.06	13.09	11.84	176.41	-298.90	-42.50	319.25	295.44	23.81	13.408		
5,400.00	5,360.57	5,405.50	5,382.65	13.37	12.12	176.41	-305.67	-43.34	325.04	300.71	24.33	13.358		
5,500.00	5,459.78	5,505.67	5,482.25	13.65	12.37	176.42	-312.45	-44.19	330.83	306.00	24.84	13.321		
5,600.00	5,558.98	5,605.84	5,581.85	13.93	12.62	176.42	-319.22	-45.03	336.62	311.28	25.34	13.284		
5,700.00	5,658.18	5,706.00	5,681.45	14.21	12.88	176.43	-325.99	-45.87	342.42	316.57	25.85	13.247		
5,800.00	5,757.39	5,793.83	5,781.05	14.50	13.11	176.43	-332.76	-46.72	348.21	321.88	26.33	13.225		
5,900.00	5,856.59	5,906.34	5,880.65	14.79	13.40	176.44	-339.54	-47.56	354.00	327.13	26.87	13.173		
6,000.00	5,955.80	6,006.51	5,980.25	15.07	13.66	176.44	-346.31	-48.40	359.79	332.40	27.39	13.136		
6,100.00	6,055.00	6,106.67	6,079.84	15.36	13.92	176.44	-353.08	-49.25	365.58	337.67	27.91	13.099		
6,200.00	6,154.21	6,206.84	6,179.44	15.65	14.18	176.45	-359.85	-50.09	371.37	342.94	28.43	13.063		
6,300.00	6,253.41	6,307.01	6,279.04	15.94	14.45	176.45	-366.63	-50.94	377.16	348.21	28.95	13.027		
6,400.00	6,352.62	6,407.18	6,378.64	16.24	14.71	176.46	-373.40	-51.78	382.96	353.48	29.48	12.991		
6,500.00	6,451.82	6,492.65	6,478.24	16.53	14.94	176.46	-380.17	-52.62	388.75	358.78	29.97	12.972		
6,600.00	6,551.03	6,591.83	6,577.15	16.83	15.18	176.74	-386.89	-51.57	394.58	364.10	30.47	12.948		
6,700.00	6,650.23	6,688.04	6,672.06	17.12	15.40	178.83	-393.27	-37.77	401.01	370.08	30.93	12.964		
6,800.00	6,749.44	6,778.21	6,758.18	17.41	15.59	-154.80	-398.99	-11.96	409.52	378.16	31.36	13.059		
6,900.00	6,847.87	6,864.06	6,836.04	17.64	15.78	-110.23	-404.10	23.71	419.95	388.22	31.72	13.237		
7,000.00	6,943.29	6,947.13	6,906.16	17.88	15.95	-93.31	-408.64	67.90	431.26	399.21	32.05	13.457		
7,100.00	7,033.35	7,027.95	6,968.31	18.10	16.12	-84.27	-412.60	119.32	442.68	410.34	32.33	13.692		
7,200.00	7,115.82	7,106.94	7,022.31	18.32	16.27	-78.36	-415.98	176.80	453.51	420.91	32.60	13.910		
7,300.00	7,188.68	7,184.48	7,068.02	18.52	16.43	-74.17	-418.77	239.32	463.15	430.25	32.90	14.077		
7,400.00	7,250.14	7,260.89	7,105.32	18.71	16.63	-71.14	-420.97	305.92	471.11	437.84	33.27	14.159		
7,500.00	7,298.67	7,336.46	7,134.13	18.92	16.94	-69.02	-422.58	375.72	476.99	443.23	33.76	14.129		
7,600.00	7,333.08	7,411.45	7,154.36	19.20	17.37	-67.67	-423.59	447.87	480.52	446.12	34.40	13.969		
7,700.00	7,352.53	7,486.08	7,165.96	19.62	17.90	-67.01	-424.00	521.55	481.52	446.31	35.21	13.677		
7,800.00	7,357.04	7,564.83	7,169.00	20.23	18.53	-66.94	-423.81	600.21	480.09	443.85	36.24	13.247		
7,900.00	7,357.17	7,664.81	7,169.03	21.00	19.43	-66.83	-423.31	700.18	478.28	440.52	37.76	12.667		
8,000.00	7,357.31	7,764.79	7,169.07	21.89	20.43	-66.72	-422.80	800.16	476.47	437.00	39.46	12.074		
8,100.00	7,357.45	7,864.77	7,169.10	22.89	21.51	-66.62	-422.30	900.14	474.66	433.32	41.33	11.484		
8,200.00	7,357.58	7,964.75	7,169.13	23.96	22.67	-66.51	-421.80	1,000.12	472.85	429.50	43.35	10.908		
8,300.00	7,357.72	8,064.73	7,169.16	25.11	23.88	-66.40	-421.29	1,100.10	471.04	425.55	45.49	10.354		
8,400.00	7,357.86	8,164.71	7,169.19	26.31	25.15	-66.29	-420.79	1,200.08	469.24	421.50	47.74	9.828		
8,500.00	7,357.99	8,264.69	7,169.22	27.56	26.46	-66.18	-420.28	1,300.05	467.44	417.35	50.09	9.333		
8,600.00	7,358.13	8,364.67	7,169.26	28.86	27.81	-66.06	-419.78	1,400.03	465.64	413.13	52.51	8.868		
8,700.00	7,358.27	8,464.65	7,169.29	30.19	29.20	-65.95	-419.28	1,500.01	463.84	408.84	55.00	8.434		
8,800.00	7,358.40	8,564.63	7,169.32	31.55	30.61	-65.84	-418.77	1,599.99	462.04	404.50	57.55	8.029		
8,900.00	7,358.54	8,664.61	7,169.35	32.95	32.05	-65.72	-418.27	1,699.97	460.25	400.11	60.14	7.653		
9,000.00	7,358.68	8,764.59	7,169.38	34.36	33.51	-65.61	-417.77	1,799.95	458.46	395.67	62.78	7.302		
9,100.00	7,358.81	8,864.57	7,169.41	35.80	34.98	-65.49	-417.26	1,899.92	456.67	391.21	65.46	6.976		
9,200.00	7,358.95	8,964.55	7,169.45	37.26	36.48	-65.37	-416.76	1,999.90	454.88	386.71	68.17	6.673		
9,300.00	7,359.09	9,064.53	7,169.48	38.73	37.99	-65.26	-416.26	2,099.88	453.09	382.18	70.91	6.390		
9,400.00	7,359.23	9,164.51	7,169.51	40.22	39.51	-65.14	-415.75	2,199.86	451.31	377.64	73.67	6.126		
9,500.00	7,359.36	9,264.49	7,169.54	41.72	41.04	-65.02	-415.25	2,299.84	449.52	373.07	76.45	5.880		
9,600.00	7,359.50	9,364.47	7,169.57	43.24	42.59	-64.89	-414.74	2,399.82	447.74	368.49	79.25	5.650		
9,700.00	7,359.64	9,464.45	7,169.60	44.77	44.14	-64.77	-414.24	2,499.79	445.96	363.89	82.07	5.434		
9,800.00	7,359.77	9,564.43	7,169.64	46.30	45.70	-64.65	-413.74	2,599.77	444.19	359.29	84.90	5.232		
9,900.00	7,359.91	9,664.40	7,169.67	47.85	47.27	-64.53	-413.23	2,699.75	442.41	354.67	87.74	5.042		
10,000.00	7,360.05	9,764.38	7,169.70	49.40	48.85	-64.40	-412.73	2,799.73	440.64	350.05	90.59	4.864		
10,100.00	7,360.18	9,864.36	7,169.73	50.96	50.43	-64.27	-412.23	2,899.71	438.87	345.42	93.45	4.696		
10,200.00	7,360.32	9,964.34	7,169.76	52.53	52.01	-64.15	-411.72	2,999.69	437.10	340.79	96.31	4.538		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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						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		
10,300.00	7,360.46	10,064.32	7,169.79	54.10	53.61	-64.02	-411.22	3,099.66	435.33	336.15	99.19	4.389		
10,400.00	7,360.59	10,164.30	7,169.83	55.68	55.20	-63.89	-410.71	3,199.64	433.57	331.51	102.06	4.248		
10,500.00	7,360.73	10,264.28	7,169.86	57.26	56.81	-63.76	-410.21	3,299.62	431.81	326.86	104.94	4.115		
10,600.00	7,360.87	10,364.26	7,169.89	58.85	58.41	-63.63	-409.71	3,399.60	430.05	322.22	107.83	3.988		
10,700.00	7,361.00	10,464.24	7,169.92	60.44	60.02	-63.50	-409.20	3,499.58	428.29	317.58	110.71	3.869		
10,800.00	7,361.14	10,564.22	7,169.95	62.04	61.63	-63.36	-408.70	3,599.56	426.53	312.94	113.60	3.755		
10,856.60	7,361.22	10,620.82	7,169.97	62.94	62.54	-63.33	-408.42	3,656.16	426.04	310.79	115.26	3.696		
10,900.00	7,361.28	10,664.22	7,169.98	63.64	63.25	-63.34	-408.20	3,699.55	426.36	309.80	116.56	3.658		
11,000.00	7,361.41	10,764.21	7,170.02	65.25	64.86	-63.41	-407.69	3,799.54	427.69	308.08	119.61	3.576		
11,100.00	7,361.54	10,864.20	7,170.05	66.86	66.49	-63.49	-407.19	3,899.53	429.02	306.36	122.66	3.498		
11,200.00	7,361.68	10,964.19	7,170.08	68.48	68.11	-63.56	-406.69	3,999.51	430.35	304.62	125.72	3.423		
11,300.00	7,361.81	11,064.17	7,170.11	70.10	69.73	-63.63	-406.18	4,099.50	431.68	302.89	128.79	3.352		
11,400.00	7,361.95	11,164.16	7,170.14	71.72	71.36	-63.71	-405.68	4,199.49	433.01	301.14	131.87	3.284		
11,500.00	7,362.08	11,264.15	7,170.17	73.35	72.99	-63.78	-405.17	4,299.48	434.34	299.39	134.95	3.219		
11,600.00	7,362.21	11,364.14	7,170.21	74.97	74.62	-63.85	-404.67	4,399.47	435.67	297.63	138.03	3.156		
11,700.00	7,362.35	11,464.13	7,170.24	76.60	76.25	-63.92	-404.17	4,499.46	437.00	295.87	141.13	3.096		
11,800.00	7,362.48	11,564.12	7,170.27	78.23	77.89	-63.99	-403.66	4,599.45	438.33	294.11	144.23	3.039		
11,900.00	7,362.61	11,664.11	7,170.30	79.86	79.53	-64.06	-403.16	4,699.43	439.67	292.34	147.33	2.984		
12,000.00	7,362.75	11,764.10	7,170.33	81.50	81.16	-64.13	-402.66	4,799.42	441.00	290.56	150.44	2.931		
12,100.00	7,362.88	11,864.09	7,170.36	83.13	82.80	-64.20	-402.15	4,899.41	442.34	288.78	153.55	2.881		
12,200.00	7,363.02	11,964.08	7,170.40	84.77	84.44	-64.27	-401.65	4,999.40	443.67	287.00	156.67	2.832		
12,300.00	7,363.15	12,064.07	7,170.43	86.41	86.08	-64.34	-401.14	5,099.39	445.01	285.21	159.79	2.785		
12,400.00	7,363.28	12,164.06	7,170.46	88.05	87.73	-64.40	-400.64	5,199.38	446.34	283.42	162.92	2.740		
12,500.00	7,363.42	12,264.05	7,170.49	89.69	89.37	-64.47	-400.14	5,299.36	447.68	281.63	166.05	2.696		
12,600.00	7,363.55	12,364.04	7,170.52	91.33	91.01	-64.54	-399.63	5,399.35	449.02	279.83	169.18	2.654		
12,700.00	7,363.69	12,464.03	7,170.55	92.97	92.66	-64.60	-399.13	5,499.34	450.36	278.03	172.32	2.613		
12,800.00	7,363.82	12,564.02	7,170.59	94.61	94.30	-64.67	-398.63	5,599.33	451.70	276.23	175.47	2.574		
12,900.00	7,363.95	12,664.01	7,170.62	96.26	95.95	-64.74	-398.12	5,699.32	453.04	274.42	178.61	2.536		
13,000.00	7,364.09	12,772.50	7,170.65	97.90	97.74	-64.76	-398.41	5,807.80	453.70	271.76	181.94	2.494		
13,100.00	7,364.22	12,872.49	7,170.68	99.55	99.39	-64.72	-399.97	5,907.79	453.17	268.19	184.98	2.450		
13,200.00	7,364.35	12,972.49	7,170.72	101.20	101.04	-64.67	-401.54	6,007.77	452.64	264.62	188.02	2.407		
13,300.00	7,364.49	13,072.49	7,170.75	102.85	102.70	-64.63	-403.10	6,107.76	452.11	261.06	191.05	2.366		
13,400.00	7,364.62	13,172.49	7,170.78	104.50	104.35	-64.58	-404.67	6,207.74	451.58	257.49	194.09	2.327		
13,500.00	7,364.76	13,272.49	7,170.81	106.15	106.00	-64.53	-406.23	6,307.73	451.05	253.92	197.13	2.288		
13,600.00	7,364.89	13,372.48	7,170.84	107.80	107.66	-64.49	-407.80	6,407.71	450.52	250.36	200.17	2.251		
13,700.00	7,365.02	13,472.48	7,170.87	109.45	109.31	-64.44	-409.36	6,507.70	449.99	246.79	203.20	2.215		
13,800.00	7,365.16	13,572.48	7,170.91	111.10	110.97	-64.39	-410.93	6,607.69	449.46	243.23	206.24	2.179		
13,900.00	7,365.29	13,672.48	7,170.94	112.75	112.63	-64.35	-412.49	6,707.67	448.93	239.66	209.27	2.145		
14,000.00	7,365.43	13,772.48	7,170.97	114.41	114.28	-64.30	-414.06	6,807.66	448.40	236.10	212.30	2.112		
14,100.00	7,365.56	13,872.47	7,171.00	116.06	115.94	-64.25	-415.62	6,907.64	447.88	232.54	215.34	2.080		
14,200.00	7,365.69	13,972.47	7,171.03	117.71	117.60	-64.20	-417.19	7,007.63	447.35	228.98	218.37	2.049		
14,300.00	7,365.83	14,072.47	7,171.07	119.37	119.26	-64.16	-418.75	7,107.61	446.82	225.42	221.40	2.018		
14,400.00	7,365.96	14,172.47	7,171.10	121.02	120.92	-64.11	-420.32	7,207.60	446.29	221.86	224.43	1.989		
14,500.00	7,366.09	14,272.47	7,171.13	122.68	122.58	-64.06	-421.88	7,307.59	445.77	218.31	227.46	1.960		
14,600.00	7,366.23	14,372.46	7,171.16	124.33	124.23	-64.02	-423.45	7,407.57	445.24	214.75	230.49	1.932		
14,700.00	7,366.36	14,472.46	7,171.19	125.99	125.89	-63.97	-425.01	7,507.56	444.71	211.20	233.52	1.904		
14,800.00	7,366.50	14,572.46	7,171.22	127.65	127.56	-63.92	-426.58	7,607.54	444.19	207.65	236.54	1.878		
14,900.00	7,366.63	14,672.46	7,171.26	129.31	129.22	-63.87	-428.14	7,707.53	443.66	204.10	239.57	1.852		
15,000.00	7,366.76	14,772.46	7,171.29	130.96	130.88	-63.82	-429.71	7,807.51	443.14	200.55	242.59	1.827		
15,100.00	7,366.90	14,872.45	7,171.32	132.62	132.54	-63.78	-431.27	7,907.50	442.61	197.00	245.61	1.802		
15,200.00	7,367.03	14,972.45	7,171.35	134.28	134.20	-63.73	-432.84	8,007.49	442.09	193.45	248.63	1.778		
15,300.00	7,367.16	15,072.45	7,171.38	135.94	135.86	-63.68	-434.40	8,107.47	441.56	189.91	251.65	1.755		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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						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		
15,400.00	7,367.30	15,172.45	7,171.41	137.60	137.52	-63.63	-435.97	8,207.46	441.04	186.37	254.67	1.732		
15,500.00	7,367.43	15,272.44	7,171.45	139.26	139.19	-63.58	-437.54	8,307.44	440.51	182.83	257.69	1.709		
15,600.00	7,367.57	15,372.44	7,171.48	140.92	140.85	-63.53	-439.10	8,407.43	439.99	179.29	260.70	1.688		
15,700.00	7,367.70	15,472.44	7,171.51	142.58	142.51	-63.48	-440.67	8,507.41	439.47	175.75	263.72	1.666		
15,800.00	7,367.83	15,572.44	7,171.54	144.24	144.17	-63.44	-442.23	8,607.40	438.94	172.21	266.73	1.646		
15,900.00	7,367.97	15,672.44	7,171.57	145.90	145.84	-63.39	-443.80	8,707.39	438.42	168.68	269.74	1.625		
16,000.00	7,368.10	15,772.43	7,171.60	147.56	147.50	-63.34	-445.36	8,807.37	437.90	165.15	272.75	1.605		
16,100.00	7,368.24	15,872.43	7,171.64	149.22	149.16	-63.29	-446.93	8,907.36	437.38	161.62	275.76	1.586		
16,200.00	7,368.37	15,972.43	7,171.67	150.88	150.83	-63.24	-448.49	9,007.34	436.86	158.09	278.76	1.567		
16,300.00	7,368.50	16,072.43	7,171.70	152.54	152.49	-63.19	-450.06	9,107.33	436.33	154.57	281.77	1.549		
16,400.00	7,368.64	16,172.43	7,171.73	154.21	154.16	-63.14	-451.62	9,207.31	435.81	151.04	284.77	1.530		
16,500.00	7,368.77	16,272.42	7,171.76	155.87	155.82	-63.09	-453.19	9,307.30	435.29	147.52	287.77	1.513		
16,600.00	7,368.90	16,372.42	7,171.80	157.53	157.49	-63.04	-454.75	9,407.28	434.77	144.00	290.77	1.495	Level 3	
16,700.00	7,369.04	16,472.42	7,171.83	159.19	159.15	-62.99	-456.32	9,507.27	434.25	140.48	293.77	1.478	Level 3	
16,800.00	7,369.17	16,572.42	7,171.86	160.86	160.82	-62.94	-457.88	9,607.26	433.73	136.97	296.77	1.462	Level 3	
16,900.00	7,369.31	16,672.42	7,171.89	162.52	162.48	-62.89	-459.45	9,707.24	433.21	133.45	299.76	1.445	Level 3	
16,949.69	7,369.37	16,719.86	7,171.91	163.34	163.27	-62.87	-460.14	9,754.68	433.01	131.80	301.20	1.438	Level 3	
17,000.00	7,369.44	16,765.31	7,171.92	164.18	164.03	-62.88	-460.24	9,800.13	433.34	130.71	302.63	1.432	Level 3	
17,100.00	7,369.57	16,865.30	7,171.95	165.84	165.69	-62.94	-459.96	9,900.12	434.46	128.64	305.82	1.421	Level 3	
17,200.00	7,369.71	16,965.29	7,171.98	167.51	167.35	-63.00	-459.68	10,000.11	435.59	126.57	309.02	1.410	Level 3	
17,300.00	7,369.84	17,065.28	7,172.01	169.17	169.02	-63.06	-459.40	10,100.10	436.71	124.50	312.21	1.399	Level 3	
17,400.00	7,369.97	17,165.28	7,172.05	170.84	170.68	-63.12	-459.13	10,200.10	437.83	122.42	315.41	1.388	Level 3	
17,500.00	7,370.11	17,265.27	7,172.08	172.50	172.34	-63.18	-458.85	10,300.09	438.96	120.35	318.61	1.378	Level 3	
17,600.00	7,370.24	17,365.26	7,172.11	174.16	174.01	-63.24	-458.57	10,400.08	440.08	118.27	321.81	1.368	Level 3	
17,700.00	7,370.38	17,465.25	7,172.14	175.83	175.67	-63.30	-458.29	10,500.07	441.21	116.19	325.01	1.358	Level 3	
17,800.00	7,370.51	17,565.25	7,172.17	177.49	177.34	-63.36	-458.01	10,600.06	442.33	114.11	328.22	1.348	Level 3	
17,900.00	7,370.64	17,665.24	7,172.21	179.16	179.00	-63.42	-457.73	10,700.06	443.46	112.04	331.43	1.338	Level 3	
18,000.00	7,370.78	17,765.23	7,172.24	180.82	180.67	-63.48	-457.45	10,800.05	444.59	109.95	334.63	1.329	Level 3	
18,100.00	7,370.91	17,865.22	7,172.27	182.49	182.33	-63.53	-457.17	10,900.04	445.71	107.87	337.84	1.319	Level 3	
18,200.00	7,371.05	17,965.22	7,172.30	184.15	183.99	-63.59	-456.89	11,000.03	446.84	105.79	341.05	1.310	Level 3	
18,300.00	7,371.18	18,065.21	7,172.33	185.82	185.66	-63.65	-456.62	11,100.03	447.97	103.71	344.26	1.301	Level 3	
18,400.00	7,371.31	18,165.20	7,172.36	187.48	187.32	-63.70	-456.34	11,200.02	449.10	101.62	347.48	1.292	Level 3	
18,500.00	7,371.45	18,265.20	7,172.40	189.15	188.99	-63.76	-456.06	11,300.01	450.23	99.54	350.69	1.284	Level 3	
18,600.00	7,371.58	18,365.19	7,172.43	190.82	190.65	-63.82	-455.78	11,400.00	451.36	97.45	353.91	1.275	Level 3	
18,700.00	7,371.71	18,465.18	7,172.46	192.48	192.32	-63.87	-455.50	11,499.99	452.49	95.36	357.13	1.267	Level 3	
18,800.00	7,371.85	18,565.17	7,172.49	194.15	193.99	-63.93	-455.22	11,599.99	453.62	93.27	360.34	1.259	Level 3	
18,900.00	7,371.98	18,665.17	7,172.52	195.81	195.65	-63.98	-454.94	11,699.98	454.75	91.18	363.56	1.251	Level 3	
19,000.00	7,372.12	18,765.16	7,172.55	197.48	197.32	-64.04	-454.66	11,799.97	455.88	89.09	366.79	1.243	Level 2	
19,100.00	7,372.25	18,865.15	7,172.59	199.15	198.98	-64.09	-454.38	11,899.96	457.01	87.00	370.01	1.235	Level 2	
19,200.00	7,372.38	18,965.14	7,172.62	200.81	200.65	-64.15	-454.11	11,999.96	458.14	84.91	373.23	1.227	Level 2	
19,300.00	7,372.52	19,065.14	7,172.65	202.48	202.31	-64.20	-453.83	12,099.95	459.28	82.82	376.46	1.220	Level 2	
19,400.00	7,372.65	19,165.13	7,172.68	204.14	203.98	-64.26	-453.55	12,199.94	460.41	80.72	379.69	1.213	Level 2	
19,500.00	7,372.79	19,265.12	7,172.71	205.81	205.65	-64.31	-453.27	12,299.93	461.54	78.63	382.91	1.205	Level 2	
19,600.00	7,372.92	19,365.11	7,172.74	207.48	207.31	-64.36	-452.99	12,399.92	462.68	76.53	386.14	1.198	Level 2	
19,700.00	7,373.05	19,465.11	7,172.78	209.15	208.98	-64.42	-452.71	12,499.92	463.81	74.44	389.37	1.191	Level 2	
19,800.00	7,373.19	19,565.10	7,172.81	210.81	210.64	-64.47	-452.43	12,599.91	464.94	72.34	392.60	1.184	Level 2	
19,900.00	7,373.32	19,665.09	7,172.84	212.48	212.31	-64.52	-452.15	12,699.90	466.08	70.24	395.84	1.177	Level 2	
20,000.00	7,373.45	19,765.09	7,172.87	214.15	213.98	-64.57	-451.87	12,799.89	467.21	68.14	399.07	1.171	Level 2	
20,100.00	7,373.59	19,865.08	7,172.90	215.81	215.64	-64.63	-451.59	12,899.89	468.35	66.04	402.31	1.164	Level 2	
20,200.00	7,373.72	19,965.07	7,172.93	217.48	217.31	-64.68	-451.32	12,999.88	469.49	63.94	405.54	1.158	Level 2	
20,300.00	7,373.86	20,065.06	7,172.97	219.15	218.98	-64.73	-451.04	13,099.87	470.62	61.84	408.78	1.151	Level 2	
20,400.00	7,373.99	20,165.06	7,173.00	220.82	220.64	-64.78	-450.76	13,199.86	471.76	59.74	412.02	1.145	Level 2	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,407.86	7,374.00	20,172.92	7,173.00	220.95	220.77	-64.79	-450.74	13,207.73	471.85	59.57	412.27	1.145	Level 2, SF

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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	0.01	20.03	0.00	20.03					
100.00	100.00	100.00	100.00	3.28	3.28	0.01	20.03	0.00	20.03	12.50	7.53	2.661		
200.00	200.00	200.00	200.00	3.31	3.31	0.01	20.03	0.00	20.03	12.46	7.57	2.645		
300.00	299.98	300.70	300.68	3.34	3.35	175.57	18.27	-0.18	20.02	12.37	7.65	2.617		
400.00	399.84	401.40	401.23	3.40	3.41	175.18	12.99	-0.71	20.00	12.25	7.75	2.580		
453.03	452.70	454.80	454.46	3.45	3.45	174.86	8.77	-1.13	19.98	12.16	7.82	2.554	CC	
500.00	499.45	501.75	501.23	3.49	3.49	174.67	4.65	-1.55	20.39	12.48	7.90	2.580		
600.00	598.74	601.70	600.79	3.60	3.59	174.84	-4.10	-2.43	23.54	15.43	8.11	2.904		
700.00	697.94	701.63	700.33	3.74	3.73	175.09	-12.85	-3.31	27.35	19.00	8.35	3.277		
800.00	797.15	801.55	799.87	3.91	3.88	175.28	-21.60	-4.19	31.16	22.54	8.63	3.613		
900.00	896.35	901.48	899.41	4.10	4.05	175.43	-30.36	-5.07	34.97	26.04	8.94	3.914		
1,000.00	995.55	1,001.41	998.95	4.31	4.24	175.55	-39.11	-5.95	38.79	29.51	9.28	4.181		
1,100.00	1,094.76	1,101.34	1,098.49	4.53	4.44	175.65	-47.86	-6.84	42.60	32.96	9.64	4.418		
1,200.00	1,193.96	1,201.26	1,198.03	4.77	4.65	175.73	-56.61	-7.72	46.41	36.38	10.03	4.627		
1,300.00	1,293.17	1,301.19	1,297.57	5.02	4.87	175.80	-65.36	-8.60	50.23	39.79	10.44	4.811		
1,400.00	1,392.37	1,401.12	1,397.11	5.28	5.11	175.86	-74.11	-9.48	54.04	43.17	10.86	4.974		
1,500.00	1,491.58	1,501.04	1,496.65	5.55	5.35	175.91	-82.87	-10.36	57.85	46.55	11.31	5.117		
1,600.00	1,590.78	1,600.97	1,596.19	5.83	5.60	175.96	-91.62	-11.24	61.66	49.90	11.76	5.244		
1,700.00	1,689.99	1,700.90	1,695.73	6.12	5.85	176.00	-100.37	-12.12	65.48	53.25	12.23	5.356		
1,800.00	1,789.19	1,800.83	1,795.27	6.41	6.11	176.04	-109.12	-13.01	69.29	56.59	12.70	5.455		
1,900.00	1,888.40	1,900.75	1,894.81	6.56	6.25	176.07	-117.87	-13.89	73.10	60.54	12.57	5.817		
2,000.00	1,987.60	2,000.68	1,994.34	6.59	6.27	176.10	-126.63	-14.77	76.92	64.32	12.59	6.107		
2,100.00	2,086.81	2,100.61	2,093.88	6.64	6.30	176.12	-135.38	-15.65	80.73	68.08	12.65	6.381		
2,200.00	2,186.01	2,200.54	2,193.42	6.70	6.35	176.15	-144.13	-16.53	84.54	71.81	12.74	6.638		
2,300.00	2,285.22	2,300.46	2,292.96	6.77	6.42	176.17	-152.88	-17.41	88.35	75.51	12.85	6.878		
2,400.00	2,384.42	2,400.39	2,392.50	6.86	6.49	176.19	-161.63	-18.29	92.17	79.18	12.98	7.099		
2,500.00	2,483.63	2,500.32	2,492.04	6.96	6.58	176.21	-170.38	-19.17	95.98	82.83	13.15	7.301		
2,600.00	2,582.83	2,600.24	2,591.58	7.08	6.69	176.22	-179.14	-20.06	99.79	86.46	13.33	7.484		
2,700.00	2,682.04	2,700.17	2,691.12	7.21	6.80	176.24	-187.89	-20.94	103.61	90.06	13.55	7.649		
2,800.00	2,781.24	2,800.10	2,790.66	7.34	6.92	176.25	-196.64	-21.82	107.42	93.64	13.78	7.796		
2,900.00	2,880.45	2,900.03	2,890.20	7.50	7.06	176.27	-205.39	-22.70	111.23	97.20	14.03	7.927		
3,000.00	2,979.65	3,000.05	2,989.74	7.66	7.21	176.28	-214.14	-23.58	115.05	100.74	14.31	8.041		
3,100.00	3,078.86	3,100.12	3,089.28	7.83	7.36	176.29	-222.90	-24.46	118.86	104.26	14.60	8.141		
3,200.00	3,178.06	3,200.19	3,188.82	8.01	7.52	176.30	-231.65	-25.34	122.67	107.76	14.91	8.227		
3,300.00	3,277.27	3,300.26	3,288.36	8.20	7.70	176.31	-240.40	-26.22	126.49	111.25	15.24	8.300		
3,400.00	3,376.47	3,399.66	3,387.90	8.39	7.87	176.32	-249.15	-27.11	130.30	114.72	15.58	8.363		
3,500.00	3,475.68	3,500.41	3,487.44	8.60	8.06	176.33	-257.90	-27.99	134.11	118.17	15.94	8.414		
3,600.00	3,574.88	3,600.48	3,586.98	8.81	8.26	176.34	-266.65	-28.87	137.93	121.62	16.31	8.457		
3,700.00	3,674.09	3,700.56	3,686.51	9.02	8.46	176.35	-275.41	-29.75	141.74	125.05	16.69	8.491		
3,800.00	3,773.29	3,800.63	3,786.05	9.25	8.66	176.36	-284.16	-30.63	145.55	128.46	17.09	8.518		
3,900.00	3,872.50	3,900.70	3,885.59	9.48	8.87	176.37	-292.91	-31.51	149.37	131.87	17.49	8.538		
4,000.00	3,971.70	4,000.77	3,985.13	9.71	9.09	176.37	-301.66	-32.39	153.18	135.27	17.91	8.553		
4,100.00	4,070.91	4,100.85	4,084.67	9.95	9.31	176.38	-310.41	-33.27	156.99	138.66	18.33	8.562		
4,200.00	4,170.11	4,200.92	4,184.21	10.19	9.53	176.39	-319.17	-34.16	160.80	142.04	18.77	8.568		
4,300.00	4,269.32	4,300.99	4,283.75	10.44	9.76	176.39	-327.92	-35.04	164.62	145.41	19.21	8.569		
4,400.00	4,368.52	4,401.06	4,383.29	10.69	10.00	176.40	-336.67	-35.92	168.43	148.77	19.66	8.567		
4,500.00	4,467.73	4,501.14	4,482.83	10.95	10.23	176.40	-345.42	-36.80	172.24	152.13	20.12	8.562		
4,600.00	4,566.93	4,601.21	4,582.37	11.21	10.47	176.41	-354.17	-37.68	176.06	155.48	20.58	8.555		
4,700.00	4,666.14	4,701.28	4,681.91	11.47	10.72	176.41	-362.93	-38.56	179.87	158.82	21.05	8.545		
4,800.00	4,765.34	4,801.36	4,781.45	11.73	10.96	176.42	-371.68	-39.44	183.68	162.16	21.52	8.534		
4,900.00	4,864.55	4,898.57	4,880.99	12.00	11.20	176.42	-380.43	-40.32	187.50	165.50	22.00	8.524		
5,000.00	4,963.75	5,001.50	4,980.53	12.27	11.46	176.43	-389.18	-41.21	191.31	168.82	22.49	8.507		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
5,100.00	5,062.96	5,101.57	5,080.07	12.54	11.71	176.43	-397.93	-42.09	195.12	172.14	22.98	8.492		
5,200.00	5,162.16	5,201.65	5,179.61	12.81	11.97	176.44	-406.68	-42.97	198.94	175.46	23.47	8.475		
5,300.00	5,261.37	5,301.72	5,279.14	13.09	12.23	176.44	-415.44	-43.85	202.75	178.78	23.97	8.458		
5,400.00	5,360.57	5,401.79	5,378.68	13.37	12.48	176.44	-424.19	-44.73	206.56	182.09	24.47	8.441		
5,500.00	5,459.78	5,501.86	5,478.22	13.65	12.75	176.45	-432.94	-45.61	210.38	185.40	24.98	8.423		
5,600.00	5,558.98	5,601.94	5,577.76	13.93	13.01	176.45	-441.69	-46.49	214.19	188.70	25.49	8.404		
5,700.00	5,658.18	5,702.01	5,677.30	14.21	13.27	176.46	-450.44	-47.37	218.00	192.00	26.00	8.385		
5,800.00	5,757.39	5,802.08	5,776.84	14.50	13.54	176.46	-459.20	-48.26	221.82	195.30	26.51	8.366		
5,900.00	5,856.59	5,902.16	5,876.38	14.79	13.81	176.46	-467.95	-49.14	225.63	198.60	27.03	8.347		
6,000.00	5,955.80	6,002.23	5,975.92	15.07	14.07	176.47	-476.70	-50.02	229.44	201.89	27.55	8.328		
6,100.00	6,055.00	6,102.30	6,075.46	15.36	14.34	176.47	-485.45	-50.90	233.25	205.18	28.07	8.309		
6,200.00	6,154.21	6,197.63	6,175.00	15.65	14.60	176.47	-494.20	-51.78	237.07	208.48	28.59	8.293		
6,300.00	6,253.41	6,302.45	6,274.54	15.94	14.89	176.47	-502.95	-52.66	240.88	211.75	29.13	8.270		
6,400.00	6,352.62	6,402.52	6,374.08	16.24	15.16	176.48	-511.71	-53.54	244.69	215.04	29.66	8.251		
6,500.00	6,451.82	6,497.41	6,473.62	16.53	15.42	176.48	-520.46	-54.42	248.51	218.33	30.17	8.236		
6,600.00	6,551.03	6,597.34	6,573.16	16.83	15.70	176.48	-529.21	-55.31	252.32	221.61	30.71	8.217		
6,700.00	6,650.23	6,696.93	6,672.21	17.12	15.94	177.54	-537.99	-51.46	256.17	224.96	31.21	8.209		
6,800.00	6,749.44	6,793.08	6,766.17	17.41	16.16	-155.85	-546.54	-33.46	260.95	229.28	31.66	8.241		
6,900.00	6,847.87	6,885.73	6,853.17	17.64	16.37	-110.93	-554.66	-2.87	266.95	234.87	32.07	8.323		
7,000.00	6,943.29	6,975.87	6,932.67	17.88	16.57	-93.69	-562.29	38.75	273.52	241.07	32.44	8.430		
7,100.00	7,033.35	7,063.86	7,003.87	18.10	16.75	-84.36	-569.33	89.85	280.15	247.38	32.76	8.551		
7,200.00	7,115.82	7,150.04	7,066.14	18.32	16.93	-78.18	-575.71	148.99	286.35	253.30	33.05	8.664		
7,300.00	7,188.68	7,234.74	7,119.03	18.52	17.11	-73.73	-581.36	214.82	291.68	258.35	33.33	8.750		
7,400.00	7,250.14	7,318.23	7,162.20	18.71	17.30	-70.46	-586.24	286.06	295.77	262.11	33.66	8.786		
7,500.00	7,298.67	7,400.81	7,195.39	18.92	17.57	-68.10	-590.31	361.49	298.33	264.24	34.08	8.753		
7,600.00	7,333.08	7,482.71	7,218.42	19.20	17.96	-66.51	-593.52	439.96	299.13	264.48	34.65	8.634		
7,700.00	7,352.53	7,564.19	7,231.20	19.62	18.48	-65.64	-595.86	520.34	298.04	262.67	35.37	8.426		
7,800.00	7,357.04	7,650.63	7,234.05	20.23	19.14	-65.34	-597.42	606.68	295.01	258.64	36.37	8.112		
7,900.00	7,357.17	7,750.55	7,234.22	21.00	20.03	-65.02	-598.95	706.59	291.32	253.51	37.81	7.704		
8,000.00	7,357.31	7,850.46	7,234.40	21.89	21.01	-64.68	-600.47	806.49	287.64	248.21	39.43	7.294		
8,100.00	7,357.45	7,950.38	7,234.57	22.89	22.08	-64.34	-602.00	906.40	283.97	242.76	41.22	6.890		
8,200.00	7,357.58	8,050.30	7,234.75	23.96	23.22	-63.99	-603.53	1,006.31	280.32	237.19	43.13	6.499		
8,300.00	7,357.72	8,150.22	7,234.92	25.11	24.42	-63.63	-605.05	1,106.21	276.67	231.51	45.16	6.127		
8,400.00	7,357.86	8,250.14	7,235.09	26.31	25.68	-63.26	-606.58	1,206.12	273.03	225.75	47.28	5.775		
8,500.00	7,357.99	8,350.05	7,235.27	27.56	26.98	-62.88	-608.11	1,306.03	269.41	219.92	49.48	5.444		
8,600.00	7,358.13	8,449.97	7,235.44	28.86	28.32	-62.49	-609.63	1,405.93	265.80	214.04	51.75	5.136		
8,700.00	7,358.27	8,549.89	7,235.62	30.19	29.69	-62.09	-611.16	1,505.84	262.20	208.12	54.07	4.849		
8,800.00	7,358.40	8,649.81	7,235.79	31.55	31.09	-61.67	-612.69	1,605.74	258.61	202.17	56.44	4.582		
8,900.00	7,358.54	8,749.73	7,235.96	32.95	32.52	-61.25	-614.21	1,705.65	255.04	196.20	58.84	4.335		
9,000.00	7,358.68	8,852.80	7,236.14	34.36	34.01	-60.75	-616.26	1,808.70	251.08	189.73	61.35	4.093		
9,100.00	7,358.81	8,952.65	7,236.32	35.80	35.49	-60.13	-619.22	1,908.50	246.29	182.57	63.72	3.865		
9,200.00	7,358.95	9,052.49	7,236.49	37.26	36.98	-59.49	-622.18	2,008.31	241.54	175.44	66.09	3.654		
9,300.00	7,359.09	9,152.34	7,236.66	38.73	38.48	-58.83	-625.14	2,108.11	236.81	168.35	68.46	3.459		
9,400.00	7,359.23	9,252.19	7,236.84	40.22	40.00	-58.14	-628.10	2,207.92	232.12	161.31	70.80	3.278		
9,500.00	7,359.36	9,352.04	7,237.01	41.72	41.53	-57.42	-631.06	2,307.73	227.46	154.33	73.13	3.110		
9,600.00	7,359.50	9,451.89	7,237.19	43.24	43.07	-56.66	-634.02	2,407.53	222.84	147.41	75.42	2.954		
9,700.00	7,359.64	9,551.74	7,237.36	44.77	44.62	-55.88	-636.98	2,507.34	218.26	140.57	77.69	2.809		
9,800.00	7,359.77	9,651.59	7,237.53	46.30	46.18	-55.07	-639.94	2,607.14	213.72	133.81	79.91	2.675		
9,900.00	7,359.91	9,751.44	7,237.71	47.85	47.75	-54.22	-642.90	2,706.95	209.22	127.15	82.08	2.549		
10,000.00	7,360.05	9,851.29	7,237.88	49.40	49.32	-53.33	-645.86	2,806.75	204.78	120.58	84.19	2.432		
10,100.00	7,360.18	9,951.14	7,238.05	50.96	50.90	-52.40	-648.82	2,906.56	200.38	114.13	86.25	2.323		
10,200.00	7,360.32	10,050.99	7,238.23	52.53	52.48	-51.43	-651.78	3,006.37	196.04	107.81	88.24	2.222		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
10,300.00	7,360.46	10,150.84	7,238.40	54.10	54.07	-50.42	-654.74	3,106.17	191.76	101.62	90.15	2.127		
10,400.00	7,360.59	10,250.69	7,238.57	55.68	55.67	-49.36	-657.70	3,205.98	187.55	95.57	91.97	2.039		
10,500.00	7,360.73	10,350.54	7,238.75	57.26	57.27	-48.26	-660.66	3,305.78	183.39	89.68	93.71	1.957		
10,600.00	7,360.87	10,450.39	7,238.92	58.85	58.87	-47.10	-663.62	3,405.59	179.31	83.97	95.34	1.881		
10,700.00	7,361.00	10,550.24	7,239.09	60.44	60.48	-45.89	-666.58	3,505.39	175.31	78.44	96.87	1.810		
10,800.00	7,361.14	10,650.09	7,239.27	62.04	62.09	-44.63	-669.54	3,605.20	171.39	73.10	98.29	1.744		
10,900.00	7,361.28	10,750.02	7,239.44	63.64	63.70	-43.78	-672.50	3,705.08	168.77	68.77	100.00	1.688		
11,000.00	7,361.41	10,850.00	7,239.62	65.25	65.32	-43.29	-675.46	3,805.02	167.34	65.28	102.06	1.640		
11,100.00	7,361.54	10,949.97	7,239.79	66.86	66.94	-42.79	-678.43	3,904.95	165.92	61.83	104.09	1.594		
11,200.00	7,361.68	11,048.16	7,239.96	68.48	68.54	-42.38	-680.97	4,003.11	164.78	58.66	106.12	1.553		
11,213.84	7,361.70	11,061.49	7,239.98	68.70	68.75	-42.38	-681.11	4,016.43	164.76	58.32	106.44	1.548		
11,300.00	7,361.81	11,146.79	7,240.13	70.10	70.14	-42.54	-681.30	4,101.73	165.14	56.40	108.75	1.519		
11,400.00	7,361.95	11,246.79	7,240.31	71.72	71.76	-42.76	-681.41	4,201.73	165.67	54.14	111.52	1.486 Level 3		
11,500.00	7,362.08	11,346.78	7,240.48	73.35	73.39	-42.97	-681.53	4,301.73	166.19	51.88	114.31	1.454 Level 3		
11,600.00	7,362.21	11,446.78	7,240.66	74.97	75.01	-43.19	-681.65	4,401.72	166.72	49.60	117.11	1.424 Level 3		
11,700.00	7,362.35	11,546.78	7,240.83	76.60	76.64	-43.40	-681.76	4,501.72	167.24	47.32	119.93	1.395 Level 3		
11,800.00	7,362.48	11,646.77	7,241.00	78.23	78.27	-43.61	-681.88	4,601.71	167.78	45.02	122.76	1.367 Level 3		
11,900.00	7,362.61	11,746.77	7,241.18	79.86	79.91	-43.82	-681.99	4,701.71	168.31	42.71	125.60	1.340 Level 3		
12,000.00	7,362.75	11,846.77	7,241.35	81.50	81.54	-44.03	-682.11	4,801.71	168.84	40.39	128.45	1.314 Level 3		
12,100.00	7,362.88	11,946.76	7,241.53	83.13	83.18	-44.24	-682.23	4,901.70	169.38	38.07	131.32	1.290 Level 3		
12,200.00	7,363.02	12,046.76	7,241.70	84.77	84.82	-44.44	-682.34	5,001.70	169.92	35.73	134.19	1.266 Level 3		
12,300.00	7,363.15	12,146.76	7,241.87	86.41	86.45	-44.65	-682.46	5,101.70	170.46	33.38	137.08	1.244 Level 2		
12,400.00	7,363.28	12,246.75	7,242.05	88.05	88.09	-44.85	-682.57	5,201.69	171.01	31.02	139.98	1.222 Level 2		
12,500.00	7,363.42	12,346.75	7,242.22	89.69	89.74	-45.05	-682.69	5,301.69	171.55	28.66	142.89	1.201 Level 2		
12,600.00	7,363.55	12,446.75	7,242.40	91.33	91.38	-45.25	-682.81	5,401.69	172.10	26.29	145.82	1.180 Level 2		
12,700.00	7,363.69	12,546.74	7,242.57	92.97	93.02	-45.45	-682.92	5,501.68	172.65	23.90	148.75	1.161 Level 2		
12,800.00	7,363.82	12,646.74	7,242.75	94.61	94.67	-45.65	-683.04	5,601.68	173.20	21.51	151.69	1.142 Level 2		
12,900.00	7,363.95	12,746.74	7,242.92	96.26	96.31	-45.85	-683.16	5,701.68	173.76	19.12	154.64	1.124 Level 2		
13,000.00	7,364.09	12,846.73	7,243.09	97.90	97.96	-46.04	-683.27	5,801.67	174.32	16.71	157.60	1.106 Level 2		
13,100.00	7,364.22	12,946.73	7,243.27	99.55	99.60	-46.24	-683.39	5,901.67	174.87	14.30	160.57	1.089 Level 2		
13,200.00	7,364.35	13,046.73	7,243.44	101.20	101.25	-46.43	-683.50	6,001.67	175.44	11.88	163.55	1.073 Level 2		
13,300.00	7,364.49	13,146.72	7,243.62	102.85	102.90	-46.62	-683.62	6,101.66	176.00	9.45	166.54	1.057 Level 2		
13,400.00	7,364.62	13,246.72	7,243.79	104.50	104.55	-46.82	-683.74	6,201.66	176.56	7.02	169.54	1.041 Level 2		
13,500.00	7,364.76	13,346.72	7,243.97	106.15	106.20	-47.00	-683.85	6,301.65	177.13	4.58	172.55	1.027 Level 2		
13,600.00	7,364.89	13,446.71	7,244.14	107.80	107.85	-47.19	-683.97	6,401.65	177.70	2.13	175.56	1.012 Level 2		
13,700.00	7,365.02	13,546.71	7,244.31	109.45	109.50	-47.38	-684.08	6,501.65	178.27	-0.32	178.59	0.998 Level 1		
13,800.00	7,365.16	13,646.71	7,244.49	111.10	111.15	-47.57	-684.20	6,601.64	178.84	-2.78	181.62	0.985 Level 1		
13,900.00	7,365.29	13,746.70	7,244.66	112.75	112.81	-47.75	-684.32	6,701.64	179.41	-5.24	184.66	0.972 Level 1		
14,000.00	7,365.43	13,846.70	7,244.84	114.41	114.46	-47.94	-684.43	6,801.64	179.99	-7.71	187.71	0.959 Level 1		
14,100.00	7,365.56	13,946.70	7,245.01	116.06	116.11	-48.12	-684.55	6,901.63	180.57	-10.19	190.76	0.947 Level 1		
14,200.00	7,365.69	14,046.69	7,245.19	117.71	117.77	-48.30	-684.66	7,001.63	181.15	-12.67	193.82	0.935 Level 1		
14,300.00	7,365.83	14,146.69	7,245.36	119.37	119.42	-48.48	-684.78	7,101.63	181.73	-15.16	196.89	0.923 Level 1		
14,400.00	7,365.96	14,246.69	7,245.53	121.02	121.08	-48.66	-684.90	7,201.62	182.31	-17.66	199.97	0.912 Level 1		
14,500.00	7,366.09	14,346.68	7,245.71	122.68	122.73	-48.84	-685.01	7,301.62	182.90	-20.15	203.05	0.901 Level 1		
14,600.00	7,366.23	14,446.68	7,245.88	124.33	124.39	-49.01	-685.13	7,401.62	183.49	-22.66	206.14	0.890 Level 1		
14,700.00	7,366.36	14,546.68	7,246.06	125.99	126.04	-49.19	-685.24	7,501.61	184.07	-25.17	209.24	0.880 Level 1		
14,800.00	7,366.50	14,646.67	7,246.23	127.65	127.70	-49.36	-685.36	7,601.61	184.66	-27.68	212.34	0.870 Level 1		
14,900.00	7,366.63	14,746.67	7,246.41	129.31	129.36	-49.54	-685.48	7,701.61	185.26	-30.20	215.45	0.860 Level 1		
15,000.00	7,366.76	14,846.67	7,246.58	130.96	131.02	-49.71	-685.59	7,801.60	185.85	-32.72	218.57	0.850 Level 1		
15,100.00	7,366.90	14,946.66	7,246.75	132.62	132.67	-49.88	-685.71	7,901.60	186.44	-35.25	221.69	0.841 Level 1		
15,200.00	7,367.03	15,046.66	7,246.93	134.28	134.33	-50.05	-685.82	8,001.59	187.04	-37.78	224.82	0.832 Level 1		
15,300.00	7,367.16	15,146.66	7,247.10	135.94	135.99	-50.22	-685.94	8,101.59	187.64	-40.32	227.96	0.823 Level 1		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
15,400.00	7,367.30	15,246.65	7,247.28	137.60	137.65	-50.39	-686.06	8,201.59	188.24	-42.86	231.10	0.815	Level 1
15,500.00	7,367.43	15,346.65	7,247.45	139.26	139.31	-50.55	-686.17	8,301.58	188.84	-45.40	234.24	0.806	Level 1
15,600.00	7,367.57	15,446.65	7,247.62	140.92	140.97	-50.72	-686.29	8,401.58	189.45	-47.95	237.40	0.798	Level 1
15,700.00	7,367.70	15,546.64	7,247.80	142.58	142.63	-50.88	-686.41	8,501.58	190.05	-50.50	240.55	0.790	Level 1
15,800.00	7,367.83	15,646.64	7,247.97	144.24	144.29	-51.05	-686.52	8,601.57	190.66	-53.06	243.72	0.782	Level 1
15,900.00	7,367.97	15,746.64	7,248.15	145.90	145.95	-51.21	-686.64	8,701.57	191.27	-55.62	246.89	0.775	Level 1
16,000.00	7,368.10	15,846.63	7,248.32	147.56	147.61	-51.37	-686.75	8,801.57	191.88	-58.18	250.06	0.767	Level 1
16,100.00	7,368.24	15,946.63	7,248.50	149.22	149.27	-51.53	-686.87	8,901.56	192.49	-60.75	253.24	0.760	Level 1
16,200.00	7,368.37	16,046.63	7,248.67	150.88	150.93	-51.69	-686.99	9,001.56	193.10	-63.32	256.42	0.753	Level 1
16,300.00	7,368.50	16,146.62	7,248.84	152.54	152.59	-51.85	-687.10	9,101.56	193.71	-65.90	259.61	0.746	Level 1
16,400.00	7,368.64	16,246.62	7,249.02	154.21	154.25	-52.01	-687.22	9,201.55	194.33	-68.48	262.80	0.739	Level 1
16,500.00	7,368.77	16,346.62	7,249.19	155.87	155.91	-52.16	-687.33	9,301.55	194.95	-71.06	266.00	0.733	Level 1
16,600.00	7,368.90	16,446.61	7,249.37	157.53	157.58	-52.32	-687.45	9,401.55	195.56	-73.64	269.21	0.726	Level 1
16,700.00	7,369.04	16,546.61	7,249.54	159.19	159.24	-52.47	-687.57	9,501.54	196.18	-76.23	272.41	0.720	Level 1
16,800.00	7,369.17	16,646.61	7,249.72	160.86	160.90	-52.63	-687.68	9,601.54	196.81	-78.82	275.63	0.714	Level 1
16,900.00	7,369.31	16,746.60	7,249.89	162.52	162.56	-52.78	-687.80	9,701.53	197.43	-81.41	278.84	0.708	Level 1
17,000.00	7,369.44	16,846.60	7,250.06	164.18	164.23	-52.93	-687.91	9,801.53	198.05	-84.01	282.06	0.702	Level 1
17,100.00	7,369.57	16,946.60	7,250.24	165.84	165.89	-53.08	-688.03	9,901.53	198.68	-86.61	285.29	0.696	Level 1
17,200.00	7,369.71	17,046.59	7,250.41	167.51	167.55	-53.23	-688.15	10,001.52	199.31	-89.21	288.52	0.691	Level 1
17,300.00	7,369.84	17,146.59	7,250.59	169.17	169.22	-53.38	-688.26	10,101.52	199.93	-91.82	291.75	0.685	Level 1
17,400.00	7,369.97	17,246.59	7,250.76	170.84	170.88	-53.53	-688.38	10,201.52	200.56	-94.42	294.99	0.680	Level 1
17,500.00	7,370.11	17,346.58	7,250.94	172.50	172.54	-53.68	-688.49	10,301.51	201.19	-97.03	298.23	0.675	Level 1
17,600.00	7,370.24	17,446.58	7,251.11	174.16	174.21	-53.82	-688.61	10,401.51	201.83	-99.65	301.47	0.669	Level 1
17,700.00	7,370.38	17,546.58	7,251.28	175.83	175.87	-53.97	-688.73	10,501.51	202.46	-102.26	304.72	0.664	Level 1
17,800.00	7,370.51	17,646.57	7,251.46	177.49	177.53	-54.11	-688.84	10,601.50	203.10	-104.88	307.97	0.659	Level 1
17,900.00	7,370.64	17,746.57	7,251.63	179.16	179.20	-54.26	-688.96	10,701.50	203.73	-107.50	311.23	0.655	Level 1
18,000.00	7,370.78	17,846.57	7,251.81	180.82	180.86	-54.40	-689.07	10,801.50	204.37	-110.12	314.49	0.650	Level 1
18,100.00	7,370.91	17,946.56	7,251.98	182.49	182.53	-54.54	-689.19	10,901.49	205.01	-112.75	317.75	0.645	Level 1
18,200.00	7,371.05	18,046.56	7,252.16	184.15	184.19	-54.68	-689.31	11,001.49	205.65	-115.37	321.02	0.641	Level 1
18,300.00	7,371.18	18,146.56	7,252.33	185.82	185.86	-54.82	-689.42	11,101.48	206.29	-118.00	324.29	0.636	Level 1
18,400.00	7,371.31	18,246.55	7,252.50	187.48	187.52	-54.96	-689.54	11,201.48	206.93	-120.63	327.56	0.632	Level 1
18,500.00	7,371.45	18,346.55	7,252.68	189.15	189.19	-55.10	-689.65	11,301.48	207.57	-123.27	330.84	0.627	Level 1
18,600.00	7,371.58	18,446.55	7,252.85	190.82	190.85	-55.23	-689.77	11,401.47	208.22	-125.90	334.12	0.623	Level 1
18,700.00	7,371.71	18,546.54	7,253.03	192.48	192.52	-55.37	-689.89	11,501.47	208.86	-128.54	337.40	0.619	Level 1
18,800.00	7,371.85	18,646.54	7,253.20	194.15	194.18	-55.51	-690.00	11,601.47	209.51	-131.18	340.69	0.615	Level 1
18,900.00	7,371.98	18,746.54	7,253.37	195.81	195.85	-55.64	-690.12	11,701.46	210.16	-133.82	343.98	0.611	Level 1
19,000.00	7,372.12	18,846.53	7,253.55	197.48	197.51	-55.78	-690.24	11,801.46	210.81	-136.46	347.27	0.607	Level 1
19,100.00	7,372.25	18,946.53	7,253.72	199.15	199.18	-55.91	-690.35	11,901.46	211.46	-139.10	350.56	0.603	Level 1
19,200.00	7,372.38	19,046.53	7,253.90	200.81	200.84	-56.04	-690.47	12,001.45	212.11	-141.75	353.86	0.599	Level 1
19,300.00	7,372.52	19,146.53	7,254.07	202.48	202.51	-56.17	-690.58	12,101.45	212.77	-144.40	357.16	0.596	Level 1
19,400.00	7,372.65	19,246.52	7,254.25	204.14	204.18	-56.30	-690.70	12,201.45	213.42	-147.05	360.47	0.592	Level 1
19,500.00	7,372.79	19,346.52	7,254.42	205.81	205.84	-56.43	-690.82	12,301.44	214.07	-149.70	363.77	0.588	Level 1
19,600.00	7,372.92	19,446.52	7,254.59	207.48	207.51	-56.56	-690.93	12,401.44	214.73	-152.35	367.08	0.585	Level 1
19,700.00	7,373.05	19,546.51	7,254.77	209.15	209.17	-56.69	-691.05	12,501.44	215.39	-155.00	370.39	0.582	Level 1
19,800.00	7,373.19	19,646.51	7,254.94	210.81	210.84	-56.82	-691.16	12,601.43	216.05	-157.66	373.70	0.578	Level 1
19,900.00	7,373.32	19,746.51	7,255.12	212.48	212.51	-56.94	-691.28	12,701.43	216.71	-160.31	377.02	0.575	Level 1
20,000.00	7,373.45	19,846.50	7,255.29	214.15	214.17	-57.07	-691.40	12,801.42	217.37	-162.97	380.34	0.572	Level 1
20,100.00	7,373.59	19,946.50	7,255.47	215.81	215.84	-57.19	-691.51	12,901.42	218.03	-165.63	383.66	0.568	Level 1
20,200.00	7,373.72	20,046.50	7,255.64	217.48	217.51	-57.32	-691.63	13,001.42	218.69	-168.29	386.98	0.565	Level 1
20,300.00	7,373.86	20,146.49	7,255.81	219.15	219.17	-57.44	-691.74	13,101.41	219.35	-170.95	390.31	0.562	Level 1
20,400.00	7,373.99	20,246.49	7,255.99	220.82	220.84	-57.57	-691.86	13,201.41	220.02	-173.62	393.64	0.559	Level 1
20,407.86	7,374.00	20,254.35	7,256.00	220.95	220.97	-57.58	-691.87	13,209.27	220.07	-173.83	393.90	0.559	Level 1, ES, SF

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	1.00	-1.00	3.28	3.28	61.61	80.87	149.61	170.07				
100.00	100.00	101.00	99.00	3.28	3.28	61.61	80.87	149.61	170.07	162.54	7.53	22.589	
200.00	200.00	199.00	199.00	3.31	3.30	61.61	80.87	149.61	170.07	162.50	7.57	22.456	CC, ES
300.00	299.98	295.08	295.06	3.34	3.34	-122.75	80.38	151.11	172.14	164.49	7.65	22.497	
400.00	399.84	390.87	390.73	3.40	3.40	-122.88	78.89	155.65	178.40	170.63	7.77	22.971	
500.00	499.45	486.16	485.69	3.49	3.49	-123.07	76.41	163.18	188.82	180.89	7.93	23.816	
600.00	598.74	581.44	580.32	3.60	3.59	-123.34	72.97	173.66	203.20	195.05	8.14	24.953	
700.00	697.94	680.23	678.30	3.74	3.73	-123.62	69.04	185.62	218.72	210.31	8.41	26.006	
800.00	797.15	779.01	776.28	3.91	3.89	-123.87	65.11	197.58	234.26	225.53	8.72	26.854	
900.00	896.35	877.79	874.25	4.10	4.08	-124.09	61.17	209.53	249.79	240.72	9.08	27.524	
1,000.00	995.55	976.57	972.23	4.31	4.28	-124.28	57.24	221.49	265.33	255.87	9.46	28.041	
1,100.00	1,094.76	1,075.35	1,070.21	4.53	4.50	-124.45	53.31	233.44	280.87	270.99	9.88	28.429	
1,200.00	1,193.96	1,174.13	1,168.18	4.77	4.74	-124.61	49.38	245.40	296.42	286.09	10.32	28.714	
1,300.00	1,293.17	1,272.91	1,266.16	5.02	4.98	-124.74	45.45	257.36	311.96	301.17	10.79	28.913	
1,400.00	1,392.37	1,371.70	1,364.13	5.28	5.24	-124.87	41.52	269.31	327.51	316.24	11.28	29.047	
1,500.00	1,491.58	1,470.48	1,462.11	5.55	5.50	-124.98	37.59	281.27	343.06	331.28	11.78	29.127	
1,600.00	1,590.78	1,569.26	1,560.09	5.83	5.78	-125.09	33.66	293.22	358.61	346.31	12.30	29.165	
1,700.00	1,689.99	1,668.04	1,658.06	6.12	6.05	-125.18	29.73	305.18	374.16	361.34	12.83	29.172	
1,800.00	1,789.19	1,766.82	1,756.04	6.41	6.34	-125.27	25.80	317.14	389.71	376.35	13.37	29.153	
1,900.00	1,888.40	1,865.60	1,854.02	6.56	6.54	-125.35	21.87	329.09	405.27	391.94	13.32	30.420	
2,000.00	1,987.60	1,964.39	1,951.99	6.59	6.61	-125.42	17.93	341.05	420.82	407.41	13.41	31.373	
2,100.00	2,086.81	2,063.17	2,049.97	6.64	6.65	-125.49	14.00	353.01	436.37	422.89	13.49	32.355	
2,200.00	2,186.01	2,161.95	2,147.95	6.70	6.70	-125.56	10.07	364.96	451.93	438.34	13.59	33.256	
2,300.00	2,285.22	2,260.73	2,245.92	6.77	6.77	-125.62	6.14	376.92	467.48	453.76	13.72	34.073	
2,400.00	2,384.42	2,359.51	2,343.90	6.86	6.85	-125.68	2.21	388.87	483.04	469.16	13.88	34.806	
2,500.00	2,483.63	2,458.29	2,441.88	6.96	6.94	-125.73	-1.72	400.83	498.60	484.53	14.06	35.455	
2,600.00	2,582.83	2,557.08	2,539.85	7.08	7.04	-125.78	-5.65	412.79	514.15	499.88	14.27	36.024	
2,700.00	2,682.04	2,655.86	2,637.83	7.21	7.16	-125.82	-9.58	424.74	529.71	515.20	14.51	36.515	
2,800.00	2,781.24	2,754.64	2,735.81	7.34	7.29	-125.87	-13.51	436.70	545.27	530.50	14.76	36.933	
2,900.00	2,880.45	2,853.42	2,833.78	7.50	7.43	-125.91	-17.44	448.66	560.83	545.78	15.04	37.282	
3,000.00	2,979.65	2,952.20	2,931.76	7.66	7.58	-125.95	-21.38	460.61	576.36	561.04	15.34	37.568	
3,100.00	3,078.86	3,050.98	3,029.74	7.83	7.74	-125.99	-25.31	472.57	591.94	576.28	15.66	37.796	
3,200.00	3,178.06	3,149.76	3,127.71	8.01	7.91	-126.02	-29.24	484.52	607.50	591.50	16.00	37.972	
3,300.00	3,277.27	3,248.55	3,225.69	8.20	8.09	-126.06	-33.17	496.48	623.06	606.71	16.35	38.101	
3,400.00	3,376.47	3,347.33	3,323.67	8.39	8.27	-126.09	-37.10	508.44	638.62	621.90	16.72	38.188	
3,500.00	3,475.68	3,446.11	3,421.64	8.60	8.46	-126.12	-41.03	520.39	654.18	637.07	17.11	38.239	
3,600.00	3,574.88	3,544.89	3,519.62	8.81	8.66	-126.15	-44.96	532.35	669.74	652.23	17.51	38.256	
3,700.00	3,674.09	3,643.67	3,617.59	9.02	8.87	-126.18	-48.89	544.31	685.30	667.38	17.92	38.246	
3,800.00	3,773.29	3,742.45	3,715.57	9.25	9.08	-126.20	-52.82	556.26	700.86	682.51	18.34	38.211	
3,900.00	3,872.50	3,841.24	3,813.55	9.48	9.30	-126.23	-56.75	568.22	716.42	697.64	18.78	38.155	
4,000.00	3,971.70	3,940.02	3,911.52	9.71	9.52	-126.25	-60.68	580.17	731.98	712.75	19.22	38.081	
4,100.00	4,070.91	4,038.80	4,009.50	9.95	9.75	-126.28	-64.62	592.13	747.54	727.86	19.68	37.992	
4,200.00	4,170.11	4,137.58	4,107.48	10.19	9.98	-126.30	-68.55	604.09	763.10	742.96	20.14	37.889	
4,300.00	4,269.32	4,236.36	4,205.45	10.44	10.22	-126.32	-72.48	616.04	778.66	758.04	20.61	37.776	
4,400.00	4,368.52	4,335.14	4,303.43	10.69	10.46	-126.34	-76.41	628.00	794.22	773.12	21.09	37.655	
4,500.00	4,467.73	4,433.93	4,401.41	10.95	10.70	-126.36	-80.34	639.96	809.78	788.20	21.58	37.526	
4,600.00	4,566.93	4,532.71	4,499.38	11.21	10.95	-126.38	-84.27	651.91	825.34	803.26	22.07	37.391	
4,700.00	4,666.14	4,631.49	4,597.36	11.47	11.20	-126.40	-88.20	663.87	840.90	818.32	22.57	37.252	
4,800.00	4,765.34	4,730.27	4,695.34	11.73	11.45	-126.41	-92.13	675.82	856.46	833.38	23.08	37.109	
4,900.00	4,864.55	4,829.05	4,793.31	12.00	11.71	-126.43	-96.06	687.78	872.02	848.43	23.59	36.964	
5,000.00	4,963.75	4,927.83	4,891.29	12.27	11.97	-126.45	-99.99	699.74	887.58	863.47	24.11	36.817	
5,100.00	5,062.96	5,026.61	4,989.27	12.54	12.23	-126.46	-103.92	711.69	903.14	878.51	24.63	36.669	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 Design5N-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	5,162.16	5,125.40	5,087.24	12.81	12.50	-126.48	-107.86	723.65	918.70	893.55	25.16	36.520		
5,300.00	5,261.37	5,224.18	5,185.22	13.09	12.76	-126.49	-111.79	735.61	934.26	908.58	25.69	36.372		
5,400.00	5,360.57	5,322.96	5,283.20	13.37	13.03	-126.51	-115.72	747.56	949.82	923.60	26.22	36.224		
5,500.00	5,459.78	5,421.74	5,381.17	13.65	13.30	-126.52	-119.65	759.52	965.38	938.63	26.76	36.077		
5,600.00	5,558.98	5,520.52	5,479.15	13.93	13.57	-126.54	-123.58	771.47	980.95	953.65	27.30	35.931		
5,700.00	5,658.18	5,619.30	5,577.12	14.21	13.85	-126.55	-127.51	783.43	996.51	968.66	27.85	35.787		
5,800.00	5,757.39	5,718.09	5,675.10	14.50	14.12	-126.56	-131.44	795.39	1,012.07	983.67	28.39	35.644		
5,900.00	5,856.59	5,816.87	5,773.08	14.79	14.40	-126.57	-135.37	807.34	1,027.63	998.68	28.94	35.503		
6,000.00	5,955.80	5,915.65	5,871.05	15.07	14.68	-126.59	-139.30	819.30	1,043.19	1,013.69	29.50	35.364		
6,100.00	6,055.00	6,014.43	5,969.03	15.36	14.95	-126.60	-143.23	831.25	1,058.75	1,028.70	30.05	35.227		
6,200.00	6,154.21	6,113.21	6,067.01	15.65	15.24	-126.61	-147.16	843.21	1,074.31	1,043.70	30.61	35.092		
6,300.00	6,253.41	6,211.99	6,164.98	15.94	15.52	-126.62	-151.10	855.17	1,089.88	1,058.70	31.18	34.960		
6,400.00	6,352.62	6,310.77	6,262.96	16.24	15.80	-126.63	-155.03	867.12	1,105.44	1,073.70	31.74	34.829		
6,500.00	6,451.82	6,411.83	7,364.43	16.53	20.67	176.61	-196.69	-55.23	1,077.53	1,045.53	32.00	33.671		
6,600.00	6,551.03	8,117.87	7,364.43	16.83	20.68	176.52	-196.68	-56.28	1,002.07	969.35	32.72	30.625		
6,700.00	6,650.23	8,118.91	7,364.43	17.12	20.69	176.43	-196.68	-57.32	931.24	897.73	33.52	27.785		
6,800.00	6,749.44	8,119.13	7,364.43	17.41	20.70	-163.45	-196.68	-57.54	866.18	831.80	34.38	25.196		
6,900.00	6,847.87	8,107.30	7,364.42	17.64	20.59	-128.68	-196.71	-45.70	808.42	773.25	35.17	22.988		
7,000.00	6,943.29	8,080.10	7,364.38	17.88	20.35	-118.48	-196.77	-18.50	760.26	724.44	35.82	21.223		
7,100.00	7,033.35	8,038.20	7,364.33	18.10	20.01	-113.35	-196.87	23.40	723.23	686.95	36.28	19.936		
7,200.00	7,115.82	7,982.64	7,364.26	18.32	19.58	-108.96	-197.00	78.96	697.53	661.03	36.50	19.110		
7,300.00	7,188.68	7,914.78	7,364.17	18.52	19.10	-104.45	-197.16	146.81	681.96	645.42	36.53	18.667		
7,400.00	7,250.14	7,836.30	7,364.07	18.71	18.64	-99.94	-197.34	225.30	674.17	637.70	36.48	18.482		
7,500.00	7,298.67	7,747.21	7,363.20	18.92	18.20	-95.74	-197.52	314.37	671.26	634.83	36.43	18.427		
7,592.53	7,331.02	7,662.55	7,353.36	19.17	17.90	-92.08	-197.33	398.39	670.53	634.03	36.50	18.371		
7,600.00	7,333.08	7,655.94	7,352.12	19.20	17.88	-91.80	-197.30	404.89	670.53	634.03	36.50	18.369		
7,700.00	7,352.53	7,570.11	7,330.02	19.62	17.66	-88.25	-196.62	487.75	671.39	634.69	36.70	18.295		
7,800.00	7,357.04	7,488.72	7,298.95	20.23	17.53	-85.14	-195.56	562.91	673.56	636.58	36.98	18.216 SF		
7,900.00	7,357.17	7,415.24	7,262.88	21.00	17.46	-82.08	-194.28	626.86	679.42	642.14	37.29	18.221		
8,000.00	7,357.31	7,350.00	7,224.87	21.89	17.42	-78.92	-192.89	679.84	691.36	653.81	37.55	18.409		
8,100.00	7,357.45	7,296.04	7,189.47	22.89	17.41	-76.04	-191.58	720.52	710.64	672.88	37.76	18.821		
8,200.00	7,357.58	7,250.00	7,156.64	23.96	17.40	-73.44	-190.35	752.76	737.97	700.08	37.89	19.476		
8,300.00	7,357.72	7,207.88	7,124.63	25.11	17.39	-70.97	-189.14	780.10	773.47	735.51	37.96	20.374		
8,400.00	7,357.86	7,172.77	7,096.62	26.31	17.39	-68.88	-188.07	801.23	816.82	778.82	38.00	21.497		
8,500.00	7,357.99	7,150.00	7,077.85	27.56	17.38	-67.51	-187.36	814.10	867.43	829.42	38.02	22.817		
8,600.00	7,358.13	7,115.91	7,048.91	28.86	17.37	-65.46	-186.25	832.09	924.34	886.34	38.00	24.326		
8,700.00	7,358.27	7,100.00	7,035.09	30.19	17.37	-64.50	-185.71	839.94	986.96	948.96	38.00	25.973		
8,800.00	7,358.40	7,072.34	7,010.61	31.55	17.36	-62.85	-184.77	852.77	1,054.26	1,016.29	37.98	27.762		
8,900.00	7,358.54	7,050.00	6,990.44	32.95	17.35	-61.53	-183.99	862.35	1,125.75	1,087.79	37.96	29.654		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	67.87	60.84	149.61	161.51				
100.00	100.00	101.00	99.00	3.28	3.28	67.87	60.84	149.61	161.51	153.98	7.53	21.452	
200.00	200.00	199.00	199.00	3.31	3.30	67.87	60.84	149.61	161.51	153.94	7.57	21.326	CC, ES
300.00	299.98	294.99	294.97	3.34	3.34	-116.55	60.30	151.09	163.51	155.85	7.65	21.369	
400.00	399.84	390.70	390.56	3.40	3.40	-116.87	58.67	155.58	169.54	161.77	7.76	21.835	
500.00	499.45	485.93	485.45	3.49	3.49	-117.35	55.97	163.01	179.60	171.67	7.92	22.663	
600.00	598.74	580.48	579.36	3.60	3.59	-117.95	52.21	173.32	193.55	185.41	8.14	23.787	
700.00	697.94	678.77	676.74	3.74	3.73	-118.41	47.66	185.84	209.22	200.82	8.40	24.894	
800.00	797.15	777.52	774.58	3.91	3.90	-118.80	43.07	198.43	224.92	216.20	8.72	25.794	
900.00	896.35	876.26	872.41	4.10	4.09	-119.15	38.49	211.03	240.63	231.55	9.08	26.512	
1,000.00	995.55	975.01	970.25	4.31	4.30	-119.45	33.91	223.62	256.34	246.88	9.47	27.075	
1,100.00	1,094.76	1,073.76	1,068.08	4.53	4.52	-119.71	29.32	236.22	272.06	262.17	9.89	27.508	
1,200.00	1,193.96	1,172.51	1,165.92	4.77	4.76	-119.95	24.74	248.81	287.79	277.45	10.34	27.833	
1,300.00	1,293.17	1,271.26	1,263.75	5.02	5.02	-120.16	20.15	261.40	303.52	292.71	10.81	28.071	
1,400.00	1,392.37	1,370.01	1,361.59	5.28	5.28	-120.35	15.57	274.00	319.25	307.95	11.30	28.241	
1,500.00	1,491.58	1,468.76	1,459.43	5.55	5.55	-120.53	10.99	286.59	334.99	323.17	11.81	28.354	
1,600.00	1,590.78	1,567.51	1,557.26	5.83	5.83	-120.69	6.40	299.18	350.73	338.39	12.34	28.424	
1,700.00	1,689.99	1,666.26	1,655.10	6.12	6.12	-120.83	1.82	311.78	366.47	353.59	12.88	28.459	
1,800.00	1,789.19	1,765.01	1,752.93	6.41	6.41	-120.96	-2.76	324.37	382.21	368.79	13.43	28.468	
1,900.00	1,888.40	1,863.76	1,850.77	6.56	6.62	-121.08	-7.35	336.96	397.96	384.57	13.39	29.726	
2,000.00	1,987.60	1,962.51	1,948.60	6.59	6.69	-121.20	-11.93	349.56	413.71	400.22	13.48	30.682	
2,100.00	2,086.81	2,061.26	2,046.44	6.64	6.73	-121.30	-16.51	362.15	429.45	415.90	13.56	31.673	
2,200.00	2,186.01	2,160.00	2,144.28	6.70	6.79	-121.40	-21.10	374.75	445.20	431.54	13.66	32.583	
2,300.00	2,285.22	2,258.75	2,242.11	6.77	6.86	-121.49	-25.68	387.34	460.96	447.16	13.80	33.411	
2,400.00	2,384.42	2,357.50	2,339.95	6.86	6.94	-121.57	-30.27	399.93	476.71	462.75	13.96	34.155	
2,500.00	2,483.63	2,456.25	2,437.78	6.96	7.03	-121.65	-34.85	412.53	492.46	478.32	14.14	34.817	
2,600.00	2,582.83	2,555.00	2,535.62	7.08	7.14	-121.73	-39.43	425.12	508.21	493.86	14.36	35.397	
2,700.00	2,682.04	2,653.75	2,633.45	7.21	7.26	-121.79	-44.02	437.71	523.97	509.37	14.59	35.901	
2,800.00	2,781.24	2,752.50	2,731.29	7.34	7.40	-121.86	-48.60	450.31	539.72	524.87	14.86	36.332	
2,900.00	2,880.45	2,851.25	2,829.12	7.50	7.54	-121.92	-53.18	462.90	555.48	540.34	15.14	36.694	
3,000.00	2,979.65	2,950.00	2,926.96	7.66	7.69	-121.98	-57.77	475.49	571.24	555.80	15.44	36.993	
3,100.00	3,078.86	3,048.75	3,024.80	7.83	7.86	-122.04	-62.35	488.09	586.99	571.23	15.76	37.235	
3,200.00	3,178.06	3,147.50	3,122.63	8.01	8.03	-122.09	-66.93	500.68	602.75	586.65	16.11	37.424	
3,300.00	3,277.27	3,246.25	3,220.47	8.20	8.21	-122.14	-71.52	513.27	618.51	602.05	16.46	37.567	
3,400.00	3,376.47	3,345.00	3,318.30	8.39	8.40	-122.19	-76.10	525.87	634.27	617.43	16.84	37.668	
3,500.00	3,475.68	3,443.74	3,416.14	8.60	8.60	-122.23	-80.68	538.46	650.03	632.80	17.23	37.731	
3,600.00	3,574.88	3,542.49	3,513.97	8.81	8.80	-122.27	-85.27	551.06	665.79	648.16	17.63	37.762	
3,700.00	3,674.09	3,641.24	3,611.81	9.02	9.01	-122.31	-89.85	563.65	681.55	663.50	18.05	37.765	
3,800.00	3,773.29	3,739.99	3,709.64	9.25	9.23	-122.35	-94.44	576.24	697.31	678.83	18.48	37.743	
3,900.00	3,872.50	3,838.74	3,807.48	9.48	9.45	-122.39	-99.02	588.84	713.07	694.15	18.91	37.699	
4,000.00	3,971.70	3,937.49	3,905.32	9.71	9.67	-122.43	-103.60	601.43	728.83	709.46	19.36	37.637	
4,100.00	4,070.91	4,036.24	4,003.15	9.95	9.91	-122.46	-108.19	614.02	744.59	724.76	19.82	37.560	
4,200.00	4,170.11	4,134.99	4,100.99	10.19	10.14	-122.49	-112.77	626.62	760.35	740.06	20.29	37.469	
4,300.00	4,269.32	4,233.74	4,198.82	10.44	10.38	-122.52	-117.35	639.21	776.11	755.34	20.77	37.368	
4,400.00	4,368.52	4,332.49	4,296.66	10.69	10.63	-122.55	-121.94	651.80	791.87	770.62	21.25	37.257	
4,500.00	4,467.73	4,431.24	4,394.49	10.95	10.88	-122.58	-126.52	664.40	807.63	785.89	21.75	37.139	
4,600.00	4,566.93	4,529.99	4,492.33	11.21	11.13	-122.61	-131.10	676.99	823.40	801.15	22.25	37.015	
4,700.00	4,666.14	4,628.73	4,590.16	11.47	11.39	-122.64	-135.69	689.59	839.16	816.41	22.75	36.886	
4,800.00	4,765.34	4,727.48	4,688.00	11.73	11.64	-122.66	-140.27	702.18	854.92	831.66	23.26	36.753	
4,900.00	4,864.55	4,826.23	4,785.84	12.00	11.91	-122.69	-144.86	714.77	870.68	846.91	23.78	36.617	
5,000.00	4,963.75	4,924.98	4,883.67	12.27	12.17	-122.71	-149.44	727.37	886.45	862.15	24.30	36.480	
5,100.00	5,062.96	5,023.73	4,981.51	12.54	12.44	-122.74	-154.02	739.96	902.21	877.38	24.83	36.341	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
5,200.00	5,162.16	5,122.48	5,079.34	12.81	12.70	-122.76	-158.61	752.55	917.97	892.61	25.36	36.201					
5,300.00	5,261.37	5,221.23	5,177.18	13.09	12.98	-122.78	-163.19	765.15	933.73	907.84	25.89	36.061					
5,400.00	5,360.57	5,319.98	5,275.01	13.37	13.25	-122.80	-167.77	777.74	949.50	923.07	26.43	35.922					
5,500.00	5,459.78	5,418.73	5,372.85	13.65	13.52	-122.82	-172.36	790.33	965.26	938.29	26.98	35.783					
5,600.00	5,558.98	5,517.48	5,470.68	13.93	13.80	-122.84	-176.94	802.93	981.02	953.50	27.52	35.645					
5,700.00	5,658.18	5,616.23	5,568.52	14.21	14.08	-122.86	-181.52	815.52	996.79	968.72	28.07	35.508					
5,800.00	5,757.39	5,714.98	5,666.36	14.50	14.36	-122.88	-186.11	828.12	1,012.55	983.93	28.63	35.372					
5,900.00	5,856.59	5,813.73	5,764.19	14.79	14.64	-122.90	-190.69	840.71	1,028.32	999.13	29.18	35.238					
6,000.00	5,955.80	5,912.47	5,862.03	15.07	14.92	-122.91	-195.28	853.30	1,044.08	1,014.34	29.74	35.106					
6,100.00	6,055.00	6,011.22	5,959.86	15.36	15.21	-122.93	-199.86	865.90	1,059.84	1,029.54	30.30	34.976					
6,200.00	6,154.21	7,802.86	7,048.04	15.65	20.10	176.63	-248.00	-53.51	1,016.55	986.41	30.14	33.722					
6,300.00	6,253.41	7,803.79	7,048.04	15.94	20.11	176.54	-247.99	-54.43	936.99	906.14	30.85	30.375					
6,400.00	6,352.62	7,804.71	7,048.04	16.24	20.12	176.45	-247.99	-55.35	861.69	830.04	31.65	27.229					
6,500.00	6,451.82	7,805.63	7,048.04	16.53	20.12	176.36	-247.99	-56.28	791.88	759.33	32.55	24.331					
6,600.00	6,551.03	7,806.56	7,048.04	16.83	20.13	176.27	-247.99	-57.20	729.13	695.58	33.54	21.737					
6,700.00	6,650.23	7,807.48	7,048.04	17.12	20.14	176.18	-247.98	-58.12	675.42	640.81	34.60	19.520					
6,800.00	6,749.44	7,807.58	7,048.04	17.41	20.14	-162.54	-247.98	-58.23	633.02	597.40	35.63	17.767					
6,900.00	6,847.87	7,804.37	7,048.04	17.64	20.11	-123.95	-248.01	-46.27	604.20	567.76	36.44	16.581					
7,000.00	6,943.29	7,768.31	7,048.04	17.88	19.80	-109.69	-248.09	-18.96	590.55	553.89	36.66	16.107					
7,042.70	6,982.54	7,752.12	7,048.03	17.97	19.66	-105.48	-248.13	-2.77	589.28	552.63	36.65	16.080 SF					
7,100.00	7,033.35	7,726.31	7,048.03	18.10	19.43	-100.34	-248.20	23.05	591.41	554.92	36.49	16.206					
7,200.00	7,115.82	7,670.65	7,048.02	18.32	18.98	-91.81	-248.35	78.71	603.76	567.79	35.98	16.783					
7,300.00	7,188.68	7,602.70	7,048.01	18.52	18.48	-83.65	-248.53	146.65	623.20	587.92	35.29	17.661					
7,400.00	7,250.14	7,524.15	7,048.00	18.71	18.00	-76.33	-248.74	225.21	645.07	610.41	34.66	18.612					
7,500.00	7,298.67	7,450.00	7,047.76	18.92	17.61	-70.83	-248.93	299.35	665.45	631.25	34.19	19.460					
7,600.00	7,333.08	7,384.44	7,042.63	19.20	17.35	-66.71	-248.87	364.68	684.19	650.28	33.91	20.179					
7,700.00	7,352.53	7,323.71	7,031.91	19.62	17.15	-63.50	-248.53	424.43	700.99	667.23	33.76	20.764					
7,800.00	7,357.04	7,263.81	7,015.82	20.23	17.00	-61.27	-247.93	482.11	715.29	681.54	33.75	21.194					
7,900.00	7,357.17	7,200.00	6,992.80	21.00	16.88	-59.63	-247.02	541.59	733.03	699.21	33.82	21.677					
8,000.00	7,357.31	7,150.00	6,970.68	21.89	16.82	-58.12	-246.12	586.40	756.83	722.90	33.94	22.302					
8,100.00	7,357.45	7,100.00	6,945.11	22.89	16.78	-56.44	-245.04	629.34	787.01	752.93	34.08	23.093					
8,200.00	7,357.58	7,060.90	6,922.82	23.96	16.76	-55.04	-244.09	661.44	823.45	789.19	34.26	24.034					
8,300.00	7,357.72	7,020.74	6,897.92	25.11	16.75	-53.53	-243.02	692.92	866.04	831.59	34.45	25.139					
8,400.00	7,357.86	6,984.45	6,873.75	26.31	16.74	-52.13	-241.97	719.98	914.40	879.75	34.65	26.390					
8,500.00	7,357.99	6,950.00	6,849.42	27.56	16.73	-50.77	-240.90	744.33	968.11	933.26	34.85	27.778					
8,600.00	7,358.13	6,922.12	6,828.79	28.86	16.73	-49.67	-239.99	763.06	1,026.66	991.60	35.06	29.281					
8,700.00	7,358.27	6,900.00	6,811.85	30.19	16.73	-48.79	-239.24	777.27	1,089.59	1,054.32	35.27	30.892					
8,800.00	7,358.40	6,871.25	6,789.12	31.55	16.72	-47.65	-238.23	794.83	1,156.33	1,120.87	35.46	32.607					

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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						
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	55.95	100.91	149.33	180.23				
100.00	100.00	101.00	99.00	3.28	3.28	55.95	100.91	149.33	180.23	172.71	7.53	23.939	
200.00	200.00	199.00	199.00	3.31	3.30	55.95	100.91	149.33	180.23	172.66	7.57	23.798 CC, ES	
300.00	299.98	294.18	294.17	3.34	3.34	-128.43	100.85	150.88	182.63	174.97	7.65	23.866	
400.00	399.84	388.98	388.85	3.40	3.40	-128.65	100.64	155.56	189.84	182.07	7.77	24.442	
500.00	499.45	483.12	482.66	3.49	3.49	-128.96	100.30	163.30	201.86	193.93	7.93	25.462	
600.00	598.74	577.23	576.15	3.60	3.59	-129.39	99.83	174.07	218.44	210.30	8.14	26.837	
700.00	697.94	675.60	673.74	3.74	3.73	-129.87	99.30	186.42	236.33	227.93	8.40	28.134	
800.00	797.15	773.97	771.32	3.91	3.89	-130.29	98.76	198.77	254.24	245.53	8.70	29.210	
900.00	896.35	872.34	868.91	4.10	4.07	-130.64	98.22	211.12	272.15	263.11	9.05	30.089	
1,000.00	995.55	970.70	966.50	4.31	4.27	-130.96	97.68	223.47	290.08	280.66	9.42	30.795	
1,100.00	1,094.76	1,069.07	1,064.09	4.53	4.48	-131.23	97.14	235.82	308.01	298.19	9.82	31.354	
1,200.00	1,193.96	1,167.44	1,161.68	4.77	4.71	-131.48	96.60	248.17	325.95	315.70	10.25	31.791	
1,300.00	1,293.17	1,265.81	1,259.27	5.02	4.95	-131.70	96.06	260.52	343.90	333.19	10.70	32.127	
1,400.00	1,392.37	1,364.18	1,356.86	5.28	5.20	-131.90	95.52	272.88	361.85	350.67	11.17	32.383	
1,500.00	1,491.58	1,462.55	1,454.44	5.55	5.46	-132.08	94.98	285.23	379.80	368.14	11.66	32.570	
1,600.00	1,590.78	1,560.92	1,552.03	5.83	5.73	-132.25	94.44	297.58	397.75	385.59	12.16	32.704	
1,700.00	1,689.99	1,659.28	1,649.62	6.12	6.00	-132.40	93.90	309.93	415.71	403.04	12.68	32.795	
1,800.00	1,789.19	1,757.65	1,747.21	6.41	6.28	-132.53	93.36	322.28	433.67	420.47	13.20	32.852	
1,900.00	1,888.40	1,856.02	1,844.80	6.56	6.49	-132.66	92.83	334.63	451.64	438.48	13.16	34.327	
2,000.00	1,987.60	1,954.39	1,942.39	6.59	6.57	-132.78	92.29	346.98	469.60	456.35	13.25	35.429	
2,100.00	2,086.81	2,052.76	2,039.98	6.64	6.61	-132.88	91.75	359.33	487.57	474.25	13.32	36.598	
2,200.00	2,186.01	2,151.13	2,137.56	6.70	6.66	-132.98	91.21	371.68	505.54	492.12	13.42	37.675	
2,300.00	2,285.22	2,249.50	2,235.15	6.77	6.72	-133.08	90.67	384.04	523.51	509.97	13.54	38.657	
2,400.00	2,384.42	2,347.86	2,332.74	6.86	6.80	-133.17	90.13	396.39	541.48	527.79	13.69	39.544	
2,500.00	2,483.63	2,446.23	2,430.33	6.96	6.88	-133.25	89.59	408.74	559.46	545.59	13.87	40.335	
2,600.00	2,582.83	2,544.60	2,527.92	7.08	6.99	-133.32	89.05	421.09	577.43	563.36	14.07	41.033	
2,700.00	2,682.04	2,642.97	2,625.51	7.21	7.10	-133.40	88.51	433.44	595.40	581.11	14.30	41.641	
2,800.00	2,781.24	2,741.34	2,723.10	7.34	7.22	-133.46	87.97	445.79	613.38	598.83	14.55	42.164	
2,900.00	2,880.45	2,839.71	2,820.68	7.50	7.36	-133.53	87.43	458.14	631.36	616.54	14.82	42.607	
3,000.00	2,979.65	2,938.08	2,918.27	7.66	7.51	-133.59	86.89	470.49	649.33	634.22	15.11	42.976	
3,100.00	3,078.86	3,036.44	3,015.86	7.83	7.66	-133.65	86.35	482.85	667.31	651.89	15.42	43.277	
3,200.00	3,178.06	3,134.81	3,113.45	8.01	7.82	-133.70	85.82	495.20	685.29	669.54	15.75	43.516	
3,300.00	3,277.27	3,233.18	3,211.04	8.20	8.00	-133.75	85.28	507.55	703.27	687.18	16.09	43.700	
3,400.00	3,376.47	3,331.55	3,308.63	8.39	8.18	-133.80	84.74	519.90	721.25	704.79	16.45	43.834	
3,500.00	3,475.68	3,429.92	3,406.22	8.60	8.36	-133.85	84.20	532.25	739.23	722.40	16.83	43.923	
3,600.00	3,574.88	3,528.29	3,503.81	8.81	8.56	-133.89	83.66	544.60	757.21	739.99	17.22	43.973	
3,700.00	3,674.09	3,626.66	3,601.39	9.02	8.76	-133.93	83.12	556.95	775.19	757.57	17.62	43.989	
3,800.00	3,773.29	3,725.02	3,698.98	9.25	8.97	-133.97	82.58	569.30	793.17	775.13	18.04	43.975	
3,900.00	3,872.50	3,823.39	3,796.57	9.48	9.18	-134.01	82.04	581.65	811.15	792.69	18.46	43.936	
4,000.00	3,971.70	3,921.76	3,894.16	9.71	9.40	-134.05	81.50	594.01	829.13	810.24	18.90	43.874	
4,100.00	4,070.91	4,020.13	3,991.75	9.95	9.62	-134.08	80.96	606.36	847.12	827.77	19.34	43.793	
4,200.00	4,170.11	4,118.50	4,089.34	10.19	9.85	-134.12	80.42	618.71	865.10	845.30	19.80	43.696	
4,300.00	4,269.32	4,216.87	4,186.93	10.44	10.08	-134.15	79.88	631.06	883.08	862.82	20.26	43.585	
4,400.00	4,368.52	4,315.24	4,284.51	10.69	10.31	-134.18	79.35	643.41	901.07	880.33	20.73	43.463	
4,500.00	4,467.73	4,413.61	4,382.10	10.95	10.55	-134.21	78.81	655.76	919.05	897.84	21.21	43.331	
4,600.00	4,566.93	4,511.97	4,479.69	11.21	10.80	-134.24	78.27	668.11	937.03	915.34	21.69	43.192	
4,700.00	4,666.14	4,610.34	4,577.28	11.47	11.04	-134.27	77.73	680.46	955.02	932.83	22.19	43.047	
4,800.00	4,765.34	4,708.71	4,674.87	11.73	11.29	-134.29	77.19	692.81	973.00	950.32	22.68	42.897	
4,900.00	4,864.55	4,807.08	4,772.46	12.00	11.54	-134.32	76.65	705.17	990.98	967.80	23.18	42.743	
5,000.00	4,963.75	4,905.45	4,870.05	12.27	11.80	-134.35	76.11	717.52	1,008.97	985.28	23.69	42.586	
5,100.00	5,062.96	5,003.82	4,967.63	12.54	12.05	-134.37	75.57	729.87	1,026.95	1,002.75	24.21	42.427	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,102.19	5,065.22	12.81	12.31	-134.39	75.03	742.22	1,044.94	1,020.22	24.72	42.267	
5,300.00	5,261.37	5,200.55	5,162.81	13.09	12.57	-134.41	74.49	754.57	1,062.92	1,037.68	25.24	42.107	
5,400.00	5,360.57	5,301.08	5,260.40	13.37	12.84	-134.44	73.95	766.92	1,080.91	1,055.13	25.77	41.937	
5,500.00	5,459.78	5,402.71	5,357.99	13.65	13.12	-134.46	73.41	779.27	1,098.89	1,072.58	26.31	41.764	
5,600.00	5,558.98	5,504.34	5,455.58	13.93	13.39	-134.48	72.88	791.62	1,116.88	1,090.02	26.85	41.591	
5,700.00	5,658.18	5,605.97	5,553.17	14.21	13.67	-134.50	72.34	803.98	1,134.86	1,107.47	27.40	41.421	
5,800.00	5,757.39	5,707.60	5,650.75	14.50	13.95	-134.52	71.80	816.33	1,152.85	1,124.90	27.95	41.252	
5,900.00	5,856.59	5,809.23	5,748.34	14.79	14.23	-134.53	71.26	828.68	1,170.83	1,142.34	28.50	41.085	
6,000.00	5,955.80	5,889.13	5,845.93	15.07	14.45	-134.55	70.72	841.03	1,188.82	1,159.83	28.99	41.005	
6,300.00	6,253.41	7,949.05	7,168.67	15.94	20.54	174.50	23.38	-82.35	1,194.73	1,162.88	31.85	37.516	
6,400.00	6,352.62	7,950.63	7,168.67	16.24	20.55	174.40	23.32	-83.93	1,129.05	1,096.47	32.59	34.647	
6,500.00	6,451.82	7,952.22	7,168.67	16.53	20.57	174.30	23.26	-85.51	1,068.71	1,035.33	33.38	32.017	
6,600.00	6,551.03	7,953.80	7,168.67	16.83	20.58	174.19	23.20	-87.09	1,014.65	980.44	34.21	29.659	
6,700.00	6,650.23	7,955.38	7,168.68	17.12	20.60	174.09	23.14	-88.67	967.93	932.88	35.06	27.610	
6,800.00	6,749.44	7,956.14	7,168.68	17.41	20.61	-164.56	23.12	-89.44	929.67	893.79	35.88	25.913	
6,900.00	6,847.87	7,944.84	7,168.66	17.64	20.50	-126.35	23.53	-78.14	901.22	864.74	36.48	24.702	
7,000.00	6,943.29	7,918.15	7,168.61	17.88	20.25	-113.32	24.51	-51.46	883.64	846.83	36.81	24.005	
7,100.00	7,033.35	7,876.72	7,168.54	18.10	19.88	-105.91	26.03	-10.07	876.65	839.79	36.86	23.784 SF	
7,124.03	7,053.94	7,864.68	7,168.51	18.15	19.78	-104.38	26.47	1.96	876.40	839.56	36.83	23.793	
7,200.00	7,115.82	7,821.59	7,168.44	18.32	19.42	-99.76	28.05	45.02	878.68	842.02	36.66	23.966	
7,300.00	7,188.68	7,754.11	7,168.32	18.52	18.91	-93.99	30.53	112.46	887.22	850.89	36.33	24.422	
7,400.00	7,250.14	7,675.94	7,168.18	18.71	18.37	-88.68	33.40	190.58	899.31	863.34	35.96	25.008	
7,500.00	7,298.67	7,589.00	7,168.02	18.92	17.87	-84.18	36.59	277.46	912.03	876.35	35.68	25.558	
7,600.00	7,333.08	7,513.45	7,164.56	19.20	17.52	-80.92	39.39	352.83	923.71	888.08	35.63	25.923	
7,700.00	7,352.53	7,441.81	7,153.13	19.62	17.25	-78.28	42.10	423.47	934.34	898.62	35.72	26.155	
7,800.00	7,357.04	7,371.89	7,134.39	20.23	17.03	-76.36	44.76	490.75	943.52	907.57	35.94	26.249	
7,900.00	7,357.17	7,306.08	7,110.12	21.00	16.88	-74.94	47.25	551.82	954.87	918.61	36.26	26.334	
8,000.00	7,357.31	7,250.00	7,084.54	21.89	16.79	-73.46	49.34	601.67	970.52	933.90	36.62	26.499	
8,100.00	7,357.45	7,191.80	7,053.46	22.89	16.72	-71.71	51.46	650.81	991.02	954.01	37.00	26.782	
8,200.00	7,357.58	7,150.00	7,028.43	23.96	16.68	-70.32	52.94	684.25	1,016.86	979.48	37.38	27.204	
8,300.00	7,357.72	7,100.00	6,995.69	25.11	16.65	-68.53	54.66	721.98	1,048.17	1,010.44	37.73	27.783	
8,400.00	7,357.86	7,062.10	6,968.95	26.31	16.64	-67.11	55.91	748.81	1,085.11	1,047.06	38.05	28.520	
8,500.00	7,357.99	7,028.19	6,943.72	27.56	16.63	-65.80	57.00	771.42	1,127.53	1,089.20	38.33	29.415	
8,600.00	7,358.13	7,000.00	6,921.84	28.86	16.62	-64.68	57.87	789.18	1,175.18	1,136.60	38.58	30.460	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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
0.00	0.00	1.00	-1.00	3.28	3.28	51.00	120.94	149.33	192.17				
100.00	100.00	101.00	99.00	3.28	3.28	51.00	120.94	149.33	192.17	184.64	7.53	25.524	
200.00	200.00	199.00	199.00	3.31	3.30	51.00	120.94	149.33	192.17	184.59	7.57	25.373	CC, ES, SF
300.00	299.98	293.42	293.40	3.34	3.34	-133.40	121.22	150.83	194.78	187.13	7.65	25.454	
400.00	399.84	387.38	387.25	3.40	3.41	-133.68	122.07	155.36	202.68	194.92	7.77	26.093	
500.00	499.45	480.55	480.10	3.49	3.49	-134.08	123.47	162.83	215.84	207.91	7.93	27.226	
600.00	598.74	573.33	572.28	3.60	3.59	-134.62	125.41	173.19	234.01	225.87	8.14	28.762	
700.00	697.94	671.33	669.50	3.74	3.72	-135.21	127.68	185.33	253.72	245.33	8.39	30.236	
800.00	797.15	769.34	766.73	3.91	3.88	-135.72	129.95	197.47	273.46	264.77	8.69	31.476	
900.00	896.35	867.35	863.95	4.10	4.06	-136.16	132.22	209.61	293.22	284.20	9.02	32.504	
1,000.00	995.55	965.35	961.17	4.31	4.26	-136.54	134.50	221.75	312.99	303.60	9.39	33.344	
1,100.00	1,094.76	1,063.36	1,058.40	4.53	4.47	-136.88	136.77	233.89	332.77	322.99	9.78	34.025	
1,200.00	1,193.96	1,161.37	1,155.62	4.77	4.70	-137.17	139.04	246.03	352.56	342.36	10.20	34.570	
1,300.00	1,293.17	1,259.37	1,252.85	5.02	4.94	-137.44	141.31	258.17	372.36	361.72	10.64	35.003	
1,400.00	1,392.37	1,357.38	1,350.07	5.28	5.18	-137.68	143.58	270.31	392.17	381.07	11.10	35.342	
1,500.00	1,491.58	1,455.38	1,447.30	5.55	5.44	-137.90	145.86	282.45	411.98	400.41	11.57	35.605	
1,600.00	1,590.78	1,553.39	1,544.52	5.83	5.70	-138.10	148.13	294.59	431.80	419.74	12.06	35.804	
1,700.00	1,689.99	1,651.40	1,641.75	6.12	5.97	-138.28	150.40	306.73	451.62	439.06	12.56	35.953	
1,800.00	1,789.19	1,749.40	1,738.97	6.41	6.25	-138.44	152.67	318.88	471.45	458.38	13.07	36.062	
1,900.00	1,888.40	1,847.41	1,836.20	6.56	6.46	-138.60	154.94	331.02	491.28	478.25	13.03	37.698	
2,000.00	1,987.60	1,945.41	1,933.42	6.59	6.56	-138.74	157.22	343.16	511.11	497.98	13.14	38.909	
2,100.00	2,086.81	2,043.42	2,030.65	6.64	6.59	-138.86	159.49	355.30	530.95	517.75	13.20	40.226	
2,200.00	2,186.01	2,141.43	2,127.87	6.70	6.64	-138.98	161.76	367.44	550.79	537.50	13.29	41.443	
2,300.00	2,285.22	2,239.43	2,225.10	6.77	6.70	-139.10	164.03	379.58	570.63	557.22	13.41	42.557	
2,400.00	2,384.42	2,337.44	2,322.32	6.86	6.77	-139.20	166.30	391.72	590.47	576.92	13.55	43.564	
2,500.00	2,483.63	2,435.44	2,419.54	6.96	6.86	-139.30	168.58	403.86	610.32	596.59	13.73	44.467	
2,600.00	2,582.83	2,533.45	2,516.77	7.08	6.96	-139.39	170.85	416.00	630.16	616.24	13.92	45.266	
2,700.00	2,682.04	2,631.46	2,613.99	7.21	7.07	-139.48	173.12	428.14	650.01	635.87	14.14	45.965	
2,800.00	2,781.24	2,729.46	2,711.22	7.34	7.19	-139.56	175.39	440.28	669.86	655.48	14.38	46.570	
2,900.00	2,880.45	2,827.47	2,808.44	7.50	7.33	-139.63	177.67	452.42	689.71	675.06	14.65	47.085	
3,000.00	2,979.65	2,925.48	2,905.67	7.66	7.47	-139.70	179.94	464.56	709.56	694.63	14.93	47.518	
3,100.00	3,078.86	3,023.48	3,002.89	7.83	7.62	-139.77	182.21	476.70	729.41	714.18	15.24	47.874	
3,200.00	3,178.06	3,121.49	3,100.12	8.01	7.78	-139.84	184.48	488.84	749.27	733.71	15.56	48.160	
3,300.00	3,277.27	3,219.49	3,197.34	8.20	7.95	-139.90	186.75	500.98	769.12	753.22	15.90	48.384	
3,400.00	3,376.47	3,317.50	3,294.57	8.39	8.13	-139.96	189.03	513.12	788.97	772.72	16.25	48.551	
3,500.00	3,475.68	3,415.51	3,391.79	8.60	8.31	-140.01	191.30	525.26	808.83	792.21	16.62	48.667	
3,600.00	3,574.88	3,513.51	3,489.02	8.81	8.50	-140.06	193.57	537.40	828.69	811.68	17.00	48.739	
3,700.00	3,674.09	3,611.52	3,586.24	9.02	8.70	-140.11	195.84	549.55	848.54	831.14	17.40	48.772	
3,800.00	3,773.29	3,709.52	3,683.47	9.25	8.90	-140.16	198.11	561.69	868.40	850.59	17.81	48.771	
3,900.00	3,872.50	3,807.53	3,780.69	9.48	9.11	-140.21	200.39	573.83	888.26	870.03	18.22	48.741	
4,000.00	3,971.70	3,905.54	3,877.92	9.71	9.33	-140.25	202.66	585.97	908.12	889.46	18.65	48.684	
4,100.00	4,070.91	4,003.54	3,975.14	9.95	9.55	-140.29	204.93	598.11	927.98	908.88	19.09	48.606	
4,200.00	4,170.11	4,101.55	4,072.36	10.19	9.77	-140.33	207.20	610.25	947.83	928.30	19.54	48.509	
4,300.00	4,269.32	4,200.45	4,169.59	10.44	10.00	-140.37	209.47	622.39	967.69	947.70	20.00	48.390	
4,400.00	4,368.52	4,297.56	4,266.81	10.69	10.23	-140.41	211.75	634.53	987.55	967.10	20.46	48.269	
4,500.00	4,467.73	4,404.43	4,364.04	10.95	10.49	-140.44	214.02	646.67	1,007.42	986.46	20.95	48.082	
4,600.00	4,566.93	4,506.43	4,461.26	11.21	10.74	-140.48	216.29	658.81	1,027.28	1,005.84	21.44	47.915	
4,700.00	4,666.14	4,608.42	4,558.49	11.47	10.99	-140.51	218.56	670.95	1,047.14	1,025.20	21.93	47.740	
4,800.00	4,765.34	4,689.58	4,655.71	11.73	11.19	-140.54	220.84	683.09	1,067.00	1,044.62	22.38	47.670	
4,900.00	4,864.55	4,787.59	4,752.94	12.00	11.44	-140.57	223.11	695.23	1,086.86	1,063.98	22.88	47.505	
5,000.00	4,963.75	4,885.60	4,850.16	12.27	11.69	-140.60	225.38	707.37	1,106.72	1,083.34	23.38	47.337	
5,100.00	5,062.96	4,983.60	4,947.39	12.54	11.95	-140.63	227.65	719.51	1,126.59	1,102.70	23.89	47.166	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,081.61	5,044.61	12.81	12.20	-140.65	229.92	731.65	1,146.45	1,122.05	24.40	46.994	
5,300.00	5,261.37	5,179.62	5,141.84	13.09	12.46	-140.68	232.20	743.79	1,166.31	1,141.40	24.91	46.821	
5,400.00	5,360.57	5,277.62	5,239.06	13.37	12.72	-140.71	234.47	755.93	1,186.17	1,160.75	25.43	46.646	
6,800.00	6,749.44	8,004.43	7,248.18	17.41	20.61	-162.43	282.97	-57.90	1,197.82	1,162.05	35.77	33.488	
6,900.00	6,847.87	8,007.47	7,248.17	17.64	20.64	-124.13	282.95	-46.00	1,171.57	1,135.15	36.42	32.171	
7,000.00	6,943.29	7,965.26	7,248.16	17.88	20.27	-111.53	282.91	-18.74	1,153.31	1,116.71	36.60	31.512	
7,100.00	7,033.35	7,923.30	7,248.14	18.10	19.91	-104.99	282.85	23.22	1,142.81	1,106.13	36.68	31.153	
7,200.00	7,115.82	7,867.69	7,248.11	18.32	19.47	-100.05	282.77	78.84	1,139.00	1,102.40	36.60	31.122	
7,220.99	7,131.98	7,854.40	7,248.10	18.36	19.37	-99.09	282.75	92.13	1,138.90	1,102.33	36.57	31.144	
7,300.00	7,188.68	7,799.78	7,248.07	18.52	18.96	-95.67	282.67	146.75	1,140.15	1,103.76	36.39	31.329	
7,400.00	7,250.14	7,721.25	7,248.03	18.71	18.46	-91.75	282.56	225.27	1,144.20	1,108.00	36.21	31.602	
7,500.00	7,298.67	7,634.96	7,247.48	18.92	17.99	-88.48	282.42	311.56	1,149.08	1,112.97	36.10	31.827	
7,600.00	7,333.08	7,551.26	7,238.61	19.20	17.62	-85.81	282.09	394.73	1,153.45	1,117.29	36.17	31.894	
7,700.00	7,352.53	7,471.48	7,220.08	19.62	17.34	-83.63	281.54	472.27	1,156.93	1,120.54	36.39	31.793	
7,800.00	7,357.04	7,394.99	7,193.35	20.23	17.12	-81.93	280.80	543.88	1,159.30	1,122.56	36.75	31.548	
7,900.00	7,357.17	7,324.89	7,161.47	21.00	16.99	-80.35	279.96	606.27	1,163.42	1,126.20	37.22	31.258	
8,000.00	7,357.31	7,262.76	7,127.64	21.89	16.90	-78.69	279.09	658.34	1,171.19	1,133.44	37.75	31.024	
8,100.00	7,357.45	7,208.32	7,093.94	22.89	16.85	-77.05	278.23	701.07	1,183.38	1,145.07	38.31	30.892	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
0.00	0.00	1.00	-1.00	3.28	3.28	97.19	-18.95	150.17	151.36				
100.00	100.00	101.00	99.00	3.28	3.28	97.19	-18.95	150.17	151.36	143.83	7.53	20.104	
200.00	200.00	199.00	199.00	3.31	3.30	97.19	-18.95	150.17	151.36	143.79	7.57	19.986	CC, ES
300.00	299.98	295.53	295.51	3.34	3.34	-87.28	-20.23	151.11	152.41	144.76	7.65	19.923	
400.00	399.84	391.94	391.80	3.40	3.40	-87.78	-24.14	153.96	155.59	147.84	7.76	20.056	
500.00	499.45	488.21	487.72	3.49	3.48	-88.55	-30.65	158.71	160.94	153.03	7.91	20.336	
600.00	598.74	584.25	583.10	3.60	3.59	-89.50	-39.74	165.33	168.48	160.36	8.13	20.736	
700.00	697.94	680.02	677.78	3.74	3.73	-89.87	-51.36	173.81	178.22	169.83	8.39	21.238	
800.00	797.15	775.34	771.48	3.91	3.91	-89.45	-65.47	184.10	190.10	181.39	8.71	21.826	
900.00	896.35	873.77	867.84	4.10	4.13	-88.62	-81.70	195.94	203.38	194.29	9.10	22.361	
1,000.00	995.55	972.84	964.82	4.31	4.39	-87.88	-98.07	207.87	216.73	207.20	9.53	22.747	
1,100.00	1,094.76	1,071.91	1,061.79	4.53	4.68	-87.22	-114.44	219.81	230.11	220.12	10.00	23.016	
1,200.00	1,193.96	1,170.98	1,158.77	4.77	4.98	-86.64	-130.81	231.75	243.52	233.02	10.50	23.195	
1,300.00	1,293.17	1,270.05	1,255.74	5.02	5.30	-86.11	-147.18	243.68	256.95	245.92	11.03	23.303	
1,400.00	1,392.37	1,369.12	1,352.72	5.28	5.64	-85.64	-163.55	255.62	270.40	258.82	11.57	23.363	
1,500.00	1,491.58	1,468.18	1,449.69	5.55	5.99	-85.22	-179.92	267.56	283.86	271.72	12.14	23.376	
1,600.00	1,590.78	1,567.25	1,546.67	5.83	6.35	-84.83	-196.29	279.49	297.34	284.61	12.73	23.362	
1,700.00	1,689.99	1,666.32	1,643.64	6.12	6.72	-84.47	-212.66	291.43	310.83	297.50	13.33	23.326	
1,800.00	1,789.19	1,765.39	1,740.61	6.41	7.09	-84.15	-229.03	303.37	324.33	310.40	13.93	23.275	
1,900.00	1,888.40	1,864.46	1,837.59	6.56	7.36	-83.85	-245.40	315.30	337.84	323.91	13.93	24.246	
2,000.00	1,987.60	1,963.53	1,934.56	6.59	7.47	-83.57	-261.76	327.24	351.36	337.32	14.04	25.021	
2,100.00	2,086.81	2,062.59	2,031.54	6.64	7.53	-83.32	-278.13	339.18	364.89	350.76	14.13	25.829	
2,200.00	2,186.01	2,161.66	2,128.51	6.70	7.60	-83.08	-294.50	351.11	378.42	364.18	14.24	26.568	
2,300.00	2,285.22	2,260.73	2,225.49	6.77	7.70	-82.86	-310.87	363.05	391.96	377.57	14.39	27.235	
2,400.00	2,384.42	2,359.80	2,322.46	6.86	7.81	-82.65	-327.24	374.99	405.50	390.93	14.57	27.830	
2,500.00	2,483.63	2,458.87	2,419.44	6.96	7.94	-82.46	-343.61	386.92	419.05	404.27	14.78	28.355	
2,600.00	2,582.83	2,557.94	2,516.41	7.08	8.08	-82.28	-359.98	398.86	432.60	417.59	15.02	28.811	
2,700.00	2,682.04	2,657.00	2,613.39	7.21	8.24	-82.11	-376.35	410.80	446.16	430.88	15.28	29.203	
2,800.00	2,781.24	2,756.07	2,710.36	7.34	8.41	-81.95	-392.72	422.73	459.72	444.16	15.57	29.533	
2,900.00	2,880.45	2,855.14	2,807.34	7.50	8.59	-81.80	-409.09	434.67	473.29	457.41	15.88	29.808	
3,000.00	2,979.65	2,954.21	2,904.31	7.66	8.79	-81.66	-425.46	446.61	486.85	470.64	16.21	30.030	
3,100.00	3,078.86	3,053.28	3,001.29	7.83	8.99	-81.52	-441.82	458.54	500.42	483.86	16.57	30.205	
3,200.00	3,178.06	3,152.35	3,098.26	8.01	9.21	-81.40	-458.19	470.48	514.00	497.05	16.94	30.338	
3,300.00	3,277.27	3,251.41	3,195.24	8.20	9.44	-81.28	-474.56	482.42	527.57	510.24	17.34	30.434	
3,400.00	3,376.47	3,350.48	3,292.21	8.39	9.67	-81.16	-490.93	494.35	541.15	523.40	17.74	30.496	
3,500.00	3,475.68	3,449.55	3,389.19	8.60	9.92	-81.05	-507.30	506.29	554.73	536.56	18.17	30.529	
3,600.00	3,574.88	3,548.62	3,486.16	8.81	10.17	-80.95	-523.67	518.23	568.31	549.70	18.61	30.537	
3,700.00	3,674.09	3,647.69	3,583.14	9.02	10.43	-80.85	-540.04	530.16	581.89	562.83	19.06	30.522	
3,800.00	3,773.29	3,746.76	3,680.11	9.25	10.69	-80.76	-556.41	542.10	595.48	575.94	19.53	30.489	
3,900.00	3,872.50	3,845.82	3,777.09	9.48	10.96	-80.66	-572.78	554.04	609.06	589.05	20.01	30.439	
4,000.00	3,971.70	3,944.89	3,874.06	9.71	11.24	-80.58	-589.15	565.97	622.65	602.15	20.50	30.376	
4,100.00	4,070.91	4,043.96	3,971.03	9.95	11.52	-80.50	-605.51	577.91	636.24	615.24	21.00	30.301	
4,200.00	4,170.11	4,143.03	4,068.01	10.19	11.81	-80.42	-621.88	589.85	649.83	628.32	21.51	30.217	
4,300.00	4,269.32	4,242.10	4,164.98	10.44	12.11	-80.34	-638.25	601.78	663.42	641.40	22.02	30.125	
4,400.00	4,368.52	4,341.17	4,261.96	10.69	12.40	-80.27	-654.62	613.72	677.01	654.46	22.55	30.026	
4,500.00	4,467.73	4,440.23	4,358.93	10.95	12.70	-80.20	-670.99	625.66	690.60	667.52	23.08	29.922	
4,600.00	4,566.93	4,539.30	4,455.91	11.21	13.01	-80.13	-687.36	637.59	704.20	680.58	23.62	29.814	
4,700.00	4,666.14	4,638.37	4,552.88	11.47	13.32	-80.07	-703.73	649.53	717.79	693.63	24.17	29.703	
4,800.00	4,765.34	4,737.44	4,649.86	11.73	13.63	-80.00	-720.10	661.47	731.39	706.67	24.72	29.590	
4,900.00	4,864.55	4,836.51	4,746.83	12.00	13.94	-79.94	-736.47	673.40	744.99	719.71	25.28	29.475	
5,000.00	4,963.75	4,935.58	4,843.81	12.27	14.26	-79.89	-752.84	685.34	758.58	732.75	25.84	29.359	
5,100.00	5,062.96	5,034.65	4,940.78	12.54	14.58	-79.83	-769.21	697.28	772.18	745.78	26.41	29.242	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
5,200.00	5,162.16	5,133.71	5,037.76	12.81	14.90	-79.78	-785.57	709.21	785.78	758.80	26.98	29.126		
5,300.00	5,261.37	5,232.78	5,134.73	13.09	15.22	-79.72	-801.94	721.15	799.38	771.83	27.56	29.010		
5,400.00	5,360.57	5,331.85	5,231.71	13.37	15.55	-79.67	-818.31	733.09	812.98	784.84	28.14	28.894		
5,500.00	5,459.78	5,430.92	5,328.68	13.65	15.88	-79.62	-834.68	745.02	826.58	797.86	28.72	28.780		
5,600.00	5,558.98	5,529.99	5,425.66	13.93	16.21	-79.58	-851.05	756.96	840.18	810.87	29.31	28.666		
5,700.00	5,658.18	5,629.06	5,522.63	14.21	16.54	-79.53	-867.42	768.90	853.79	823.88	29.90	28.554		
5,800.00	5,757.39	5,728.12	5,619.61	14.50	16.88	-79.49	-883.79	780.83	867.39	836.89	30.50	28.443		
5,900.00	5,856.59	5,827.19	5,716.58	14.79	17.21	-79.44	-900.16	792.77	880.99	849.90	31.09	28.334		
6,000.00	5,955.80	5,926.26	5,813.56	15.07	17.55	-79.40	-916.53	804.71	894.59	862.90	31.69	28.226		
6,100.00	6,055.00	6,025.33	5,910.53	15.36	17.89	-79.36	-932.90	816.64	908.20	875.90	32.30	28.120		
6,200.00	6,154.21	6,124.40	6,007.51	15.65	18.23	-79.32	-949.27	828.58	921.80	888.90	32.90	28.016		
6,300.00	6,253.41	6,223.47	6,104.48	15.94	18.57	-79.28	-965.63	840.52	935.41	901.90	33.51	27.913		
6,400.00	6,352.62	6,322.53	6,201.45	16.24	18.91	-79.25	-982.00	852.45	949.01	914.89	34.12	27.813		
6,500.00	6,451.82	6,421.60	6,298.43	16.53	19.25	-79.21	-998.37	864.39	962.62	927.88	34.73	27.714		
6,600.00	6,551.03	6,521.28	7,360.91	16.83	22.09	-5.72	-1,176.50	-59.37	902.40	872.47	29.93	30.152		
6,700.00	6,650.23	8,202.18	7,360.91	17.12	22.10	-5.54	-1,176.50	-60.27	808.39	778.04	30.35	26.638		
6,800.00	6,749.44	8,202.27	7,360.91	17.41	22.10	23.62	-1,176.50	-60.36	716.02	685.18	30.84	23.214		
6,900.00	6,847.87	8,209.71	7,360.91	17.64	22.17	78.83	-1,176.52	-48.38	626.86	595.38	31.49	19.909		
7,000.00	6,943.29	8,162.96	7,360.92	17.88	21.76	99.66	-1,176.55	-21.05	544.03	512.02	32.01	16.996		
7,100.00	7,033.35	8,120.93	7,360.93	18.10	21.40	108.07	-1,176.60	20.98	470.82	438.07	32.75	14.377		
7,200.00	7,115.82	8,065.25	7,360.95	18.32	20.97	110.33	-1,176.67	76.66	410.28	376.62	33.67	12.187		
7,300.00	7,188.68	8,002.71	7,360.96	18.52	20.71	108.79	-1,176.75	144.62	364.67	329.93	34.74	10.497		
7,400.00	7,250.14	7,918.72	7,360.98	18.71	20.78	104.83	-1,176.84	223.19	334.45	298.63	35.82	9.338		
7,500.00	7,298.67	7,824.07	7,359.67	18.92	20.90	99.01	-1,176.73	317.81	317.36	280.62	36.74	8.637		
7,600.00	7,333.08	7,721.81	7,345.09	19.20	21.00	91.46	-1,174.39	418.88	307.46	269.79	37.67	8.162		
7,695.77	7,352.02	7,631.42	7,319.06	19.60	21.08	83.92	-1,170.10	505.26	304.31	265.69	38.62	7.879		
7,700.00	7,352.53	7,627.57	7,317.69	19.62	21.09	83.59	-1,169.87	508.85	304.32	265.66	38.66	7.871		
7,800.00	7,357.04	7,539.77	7,280.64	20.23	21.14	75.79	-1,163.71	588.13	307.89	268.25	39.64	7.767 SF		
7,900.00	7,357.17	7,462.27	7,239.27	21.00	21.18	68.23	-1,156.81	653.25	319.98	279.37	40.61	7.879		
8,000.00	7,357.31	7,396.41	7,198.20	21.89	21.20	61.16	-1,149.94	704.24	344.08	302.64	41.44	8.304		
8,100.00	7,357.45	7,340.88	7,159.70	22.89	21.20	55.07	-1,143.49	743.69	381.28	339.25	42.03	9.072		
8,200.00	7,357.58	7,294.10	7,124.72	23.96	21.19	50.04	-1,137.63	774.19	430.56	388.15	42.42	10.151		
8,300.00	7,357.72	7,250.00	7,089.82	25.11	21.18	45.50	-1,131.77	800.49	489.92	447.34	42.58	11.505		
8,400.00	7,357.86	7,220.91	7,065.84	26.31	21.17	42.64	-1,127.75	816.46	557.11	514.30	42.81	13.014		
8,500.00	7,357.99	7,200.00	7,048.18	27.56	21.16	40.68	-1,124.78	827.25	630.52	587.52	43.00	14.663		
8,600.00	7,358.13	7,167.27	7,019.86	28.86	21.13	37.74	-1,120.02	842.94	708.42	665.45	42.97	16.488		
8,700.00	7,358.27	7,150.00	7,004.60	30.19	21.12	36.27	-1,117.46	850.62	790.05	747.00	43.05	18.353		
8,800.00	7,358.40	7,126.80	6,983.80	31.55	21.10	34.37	-1,113.96	860.27	874.46	831.43	43.04	20.319		
8,900.00	7,358.54	7,100.00	6,959.35	32.95	21.08	32.30	-1,109.85	870.45	961.28	918.29	42.99	22.360		
9,000.00	7,358.68	7,100.00	6,959.35	34.36	21.08	32.30	-1,109.85	870.45	1,049.66	1,006.56	43.11	24.350		
9,100.00	7,358.81	7,082.26	6,942.94	35.80	21.06	31.00	-1,107.09	876.61	1,139.60	1,096.50	43.10	26.443		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	1.00	-1.00	3.28	3.28	104.55	-38.98	150.17	155.15				
100.00	100.00	101.00	99.00	3.28	3.28	104.55	-38.98	150.17	155.15	147.62	7.53	20.607	
200.00	200.00	199.00	199.00	3.31	3.30	104.55	-38.98	150.17	155.15	147.57	7.57	20.485	CC, ES
300.00	299.98	295.15	295.14	3.34	3.34	-79.95	-40.30	151.04	156.06	148.41	7.65	20.402	
400.00	399.84	391.20	391.06	3.40	3.40	-80.52	-44.29	153.70	158.87	151.11	7.76	20.483	
500.00	499.45	487.12	486.64	3.49	3.48	-81.42	-50.96	158.12	163.59	155.68	7.91	20.683	
600.00	598.74	582.85	581.71	3.60	3.58	-82.55	-60.27	164.29	170.30	162.19	8.12	20.984	
700.00	697.94	678.33	676.11	3.74	3.72	-83.13	-72.18	172.19	179.33	170.95	8.38	21.406	
800.00	797.15	773.39	769.57	3.91	3.90	-82.97	-86.64	181.78	190.68	181.99	8.69	21.941	
900.00	896.35	868.83	862.79	4.10	4.12	-82.20	-103.69	193.08	204.31	195.25	9.06	22.562	
1,000.00	995.55	967.73	959.17	4.31	4.39	-81.31	-122.18	205.34	218.69	209.21	9.49	23.050	
1,100.00	1,094.76	1,066.64	1,055.56	4.53	4.69	-80.53	-140.66	217.60	233.13	223.17	9.96	23.411	
1,200.00	1,193.96	1,165.55	1,151.95	4.77	5.01	-79.85	-159.15	229.86	247.60	237.14	10.46	23.670	
1,300.00	1,293.17	1,264.45	1,248.33	5.02	5.36	-79.24	-177.63	242.12	262.10	251.11	10.99	23.849	
1,400.00	1,392.37	1,363.36	1,344.72	5.28	5.71	-78.69	-196.12	254.38	276.62	265.09	11.54	23.974	
1,500.00	1,491.58	1,462.27	1,441.11	5.55	6.08	-78.20	-214.61	266.64	291.17	279.06	12.11	24.043	
1,600.00	1,590.78	1,561.17	1,537.50	5.83	6.47	-77.75	-233.09	278.90	305.74	293.04	12.70	24.079	
1,700.00	1,689.99	1,660.08	1,633.88	6.12	6.86	-77.35	-251.58	291.16	320.33	307.03	13.30	24.089	
1,800.00	1,789.19	1,758.99	1,730.27	6.41	7.25	-76.98	-270.07	303.42	334.93	321.02	13.91	24.079	
1,900.00	1,888.40	1,857.89	1,826.66	6.56	7.55	-76.64	-288.55	315.68	349.54	335.62	13.92	25.112	
2,000.00	1,987.60	1,956.80	1,923.04	6.59	7.68	-76.33	-307.04	327.94	364.16	350.12	14.04	25.943	
2,100.00	2,086.81	2,055.71	2,019.43	6.64	7.74	-76.04	-325.53	340.19	378.79	364.67	14.12	26.830	
2,200.00	2,186.01	2,154.61	2,115.82	6.70	7.83	-75.77	-344.01	352.45	393.43	379.20	14.23	27.644	
2,300.00	2,285.22	2,253.52	2,212.20	6.77	7.93	-75.53	-362.50	364.71	408.08	393.70	14.38	28.380	
2,400.00	2,384.42	2,352.43	2,308.59	6.86	8.05	-75.30	-380.98	376.97	422.74	408.18	14.56	29.040	
2,500.00	2,483.63	2,451.33	2,404.98	6.96	8.18	-75.08	-399.47	389.23	437.40	422.63	14.77	29.624	
2,600.00	2,582.83	2,550.24	2,501.37	7.08	8.33	-74.88	-417.96	401.49	452.06	437.06	15.00	30.134	
2,700.00	2,682.04	2,649.15	2,597.75	7.21	8.50	-74.69	-436.44	413.75	466.74	451.47	15.27	30.574	
2,800.00	2,781.24	2,748.05	2,694.14	7.34	8.68	-74.52	-454.93	426.01	481.41	465.86	15.56	30.948	
2,900.00	2,880.45	2,846.96	2,790.53	7.50	8.88	-74.35	-473.42	438.27	496.10	480.23	15.87	31.261	
3,000.00	2,979.65	2,945.87	2,886.91	7.66	9.08	-74.20	-491.90	450.53	510.78	494.57	16.21	31.517	
3,100.00	3,078.86	3,044.77	2,983.30	7.83	9.30	-74.05	-510.39	462.79	525.47	508.90	16.56	31.723	
3,200.00	3,178.06	3,143.68	3,079.69	8.01	9.53	-73.91	-528.88	475.05	540.16	523.22	16.94	31.882	
3,300.00	3,277.27	3,242.58	3,176.08	8.20	9.77	-73.78	-547.36	487.31	554.86	537.52	17.34	32.001	
3,400.00	3,376.47	3,341.49	3,272.46	8.39	10.02	-73.65	-565.85	499.56	569.55	551.80	17.75	32.083	
3,500.00	3,475.68	3,440.40	3,368.85	8.60	10.28	-73.53	-584.33	511.82	584.25	566.07	18.18	32.133	
3,600.00	3,574.88	3,539.30	3,465.24	8.81	10.54	-73.42	-602.82	524.08	598.95	580.33	18.63	32.155	
3,700.00	3,674.09	3,638.21	3,561.62	9.02	10.81	-73.31	-621.31	536.34	613.66	594.57	19.09	32.154	
3,800.00	3,773.29	3,737.12	3,658.01	9.25	11.09	-73.21	-639.79	548.60	628.37	608.81	19.56	32.131	
3,900.00	3,872.50	3,836.02	3,754.40	9.48	11.38	-73.11	-658.28	560.86	643.07	623.04	20.04	32.091	
4,000.00	3,971.70	3,934.93	3,850.79	9.71	11.67	-73.02	-676.77	573.12	657.78	637.25	20.53	32.036	
4,100.00	4,070.91	4,033.84	3,947.17	9.95	11.97	-72.93	-695.25	585.38	672.50	651.46	21.04	31.968	
4,200.00	4,170.11	4,132.74	4,043.56	10.19	12.27	-72.84	-713.74	597.64	687.21	665.66	21.55	31.889	
4,300.00	4,269.32	4,231.65	4,139.95	10.44	12.58	-72.76	-732.23	609.90	701.92	679.85	22.07	31.801	
4,400.00	4,368.52	4,330.56	4,236.33	10.69	12.89	-72.68	-750.71	622.16	716.64	694.04	22.60	31.706	
4,500.00	4,467.73	4,429.46	4,332.72	10.95	13.20	-72.60	-769.20	634.42	731.36	708.22	23.14	31.605	
4,600.00	4,566.93	4,528.37	4,429.11	11.21	13.52	-72.53	-787.68	646.68	746.08	722.39	23.69	31.500	
4,700.00	4,666.14	4,627.28	4,525.49	11.47	13.85	-72.46	-806.17	658.93	760.80	736.56	24.24	31.391	
4,800.00	4,765.34	4,726.18	4,621.88	11.73	14.17	-72.39	-824.66	671.19	775.52	750.72	24.79	31.279	
4,900.00	4,864.55	4,825.09	4,718.27	12.00	14.50	-72.33	-843.14	683.45	790.24	764.88	25.36	31.165	
5,000.00	4,963.75	4,924.00	4,814.66	12.27	14.84	-72.27	-861.63	695.71	804.96	779.04	25.93	31.049	
5,100.00	5,062.96	5,022.90	4,911.04	12.54	15.17	-72.21	-880.12	707.97	819.69	793.19	26.50	30.933	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,121.81	5,007.43	12.81	15.51	-72.15	-898.60	720.23	834.41	807.33	27.08	30.817		
5,300.00	5,261.37	5,220.72	5,103.82	13.09	15.85	-72.09	-917.09	732.49	849.14	821.48	27.66	30.701		
5,400.00	5,360.57	5,319.62	5,200.20	13.37	16.19	-72.04	-935.58	744.75	863.86	835.62	28.25	30.585		
5,500.00	5,459.78	5,418.53	5,296.59	13.65	16.53	-71.99	-954.06	757.01	878.59	849.75	28.84	30.469		
5,600.00	5,558.98	5,517.43	5,392.98	13.93	16.88	-71.94	-972.55	769.27	893.32	863.89	29.43	30.355		
5,700.00	5,658.18	5,616.34	5,489.37	14.21	17.23	-71.89	-991.03	781.53	908.04	878.02	30.03	30.242		
5,800.00	5,757.39	5,715.25	5,585.75	14.50	17.58	-71.84	-1,009.52	793.79	922.77	892.15	30.63	30.130		
5,900.00	5,856.59	5,814.15	5,682.14	14.79	17.93	-71.79	-1,028.01	806.05	937.50	906.27	31.23	30.020		
6,000.00	5,955.80	5,913.06	5,778.53	15.07	18.28	-71.75	-1,046.49	818.30	952.23	920.40	31.84	29.911		
6,100.00	6,055.00	6,011.97	5,874.91	15.36	18.63	-71.71	-1,064.98	830.56	966.96	934.52	32.44	29.804		
6,200.00	6,154.21	6,110.87	5,971.30	15.65	18.99	-71.66	-1,083.47	842.82	981.69	948.64	33.06	29.699		
6,300.00	6,253.41	6,209.78	6,067.69	15.94	19.34	-71.62	-1,101.95	855.08	996.43	962.76	33.67	29.595		
6,400.00	6,352.62	6,309.92	6,168.59	16.24	19.69	-6.37	-1,325.94	-48.12	996.48	966.86	29.63	33.632		
6,500.00	6,451.82	6,402.20	6,168.59	16.53	20.09	-6.21	-1,325.95	-49.40	909.17	878.94	30.22	30.081		
6,600.00	6,551.03	6,503.48	6,168.59	16.83	20.48	-6.05	-1,325.97	-50.68	824.73	793.79	30.94	26.654		
6,700.00	6,650.23	6,602.76	6,168.59	17.12	20.87	-5.89	-1,325.98	-51.96	744.16	712.33	31.83	23.382		
6,800.00	6,749.44	6,702.22	6,168.59	17.41	21.26	19.77	-1,325.99	-52.42	668.86	635.95	32.92	20.321		
6,900.00	6,848.77	6,801.62	6,168.57	17.64	21.65	66.73	-1,325.84	-40.82	601.42	567.29	34.13	17.620		
7,000.00	6,943.29	6,896.64	6,168.53	17.88	22.04	82.58	-1,325.50	-13.84	545.57	510.16	35.41	15.408		
7,100.00	7,033.35	6,944.94	6,168.45	18.10	22.43	87.71	-1,324.97	27.85	504.33	467.72	36.60	13.778		
7,200.00	7,115.82	7,089.56	6,168.35	18.32	22.82	87.53	-1,324.27	83.23	478.91	441.39	37.52	12.765		
7,300.00	7,188.68	7,211.86	6,168.23	18.52	23.21	84.27	-1,323.42	150.92	467.98	429.89	38.09	12.288		
7,348.69	7,220.13	7,284.93	6,168.16	18.61	23.60	82.03	-1,322.95	187.86	466.86	428.62	38.25	12.207		
7,400.00	7,250.14	7,743.50	6,168.09	18.71	23.99	79.46	-1,322.43	229.28	467.89	429.55	38.34	12.203 SF		
7,500.00	7,298.67	7,658.84	6,166.88	18.92	24.38	74.49	-1,321.15	313.91	474.00	435.55	38.45	12.327		
7,600.00	7,333.08	7,578.21	6,157.14	19.20	24.77	69.70	-1,318.28	393.84	483.63	444.98	38.65	12.512		
7,700.00	7,352.53	7,501.11	6,138.62	19.62	25.16	65.11	-1,313.78	468.50	495.64	456.65	39.00	12.710		
7,800.00	7,357.04	7,426.92	6,112.56	20.23	25.55	61.08	-1,307.89	537.67	509.07	469.55	39.51	12.883		
7,900.00	7,357.17	7,358.74	6,081.79	21.00	25.94	57.80	-1,301.20	598.10	527.41	487.25	40.16	13.133		
8,000.00	7,357.31	7,300.00	6,050.31	21.89	26.33	54.58	-1,294.51	647.21	553.22	512.34	40.88	13.531		
8,100.00	7,357.45	7,250.00	6,020.10	22.89	26.72	51.64	-1,288.18	686.54	587.15	545.53	41.63	14.105		
8,200.00	7,357.58	7,200.00	6,986.95	23.96	27.11	48.59	-1,281.32	723.32	629.11	586.89	42.22	14.900		
8,300.00	7,357.72	7,150.00	6,951.06	25.11	27.50	45.49	-1,273.96	757.33	678.79	636.13	42.66	15.912		
8,400.00	7,357.86	7,122.01	6,929.86	26.31	27.89	43.76	-1,269.65	775.08	735.18	691.93	43.25	16.999		
8,500.00	7,357.99	7,100.00	6,912.66	27.56	28.28	42.41	-1,266.16	788.36	797.71	753.96	43.75	18.233		
8,600.00	7,358.13	7,063.45	6,883.14	28.86	28.67	40.19	-1,260.19	809.05	865.14	821.17	43.97	19.675		
8,700.00	7,358.27	7,050.00	6,871.98	30.19	29.06	39.39	-1,257.95	816.22	937.13	892.79	44.33	21.138		
8,800.00	7,358.40	7,017.79	6,844.68	31.55	29.45	37.50	-1,252.47	832.41	1,012.46	968.02	44.44	22.781		
8,900.00	7,358.54	7,000.00	6,829.27	32.95	29.84	36.48	-1,249.39	840.74	1,090.99	1,046.36	44.62	24.449		
9,000.00	7,358.68	6,981.52	6,813.02	34.36	30.23	35.44	-1,246.15	848.93	1,172.08	1,127.33	44.75	26.193		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	
0.00	0.00	1.00	-1.00	3.28	3.28	89.58	1.09	149.89	149.90				
100.00	100.00	101.00	99.00	3.28	3.28	89.58	1.09	149.89	149.90	142.37	7.53	19.909	
200.00	200.00	199.00	199.00	3.31	3.30	89.58	1.09	149.89	149.90	142.32	7.57	19.792	
300.00	299.98	295.55	295.53	3.34	3.34	-94.89	-0.06	151.00	151.17	143.52	7.65	19.761	
400.00	399.84	391.95	391.81	3.40	3.40	-95.37	-3.55	154.34	155.06	147.30	7.76	19.983	
500.00	499.45	488.14	487.66	3.49	3.48	-96.10	-9.36	159.91	161.57	153.66	7.92	20.408	
600.00	598.74	584.02	582.87	3.60	3.59	-97.02	-17.46	167.68	170.70	162.57	8.13	20.998	
700.00	697.94	679.55	677.31	3.74	3.73	-97.35	-27.81	177.61	182.10	173.71	8.40	21.689	
800.00	797.15	777.31	773.55	3.91	3.91	-97.08	-40.23	189.52	195.19	186.46	8.72	22.373	
900.00	896.35	876.43	871.09	4.10	4.13	-96.79	-52.96	201.73	208.41	199.30	9.11	22.885	
1,000.00	995.55	975.55	968.62	4.31	4.37	-96.54	-65.69	213.94	221.63	212.10	9.53	23.255	
1,100.00	1,094.76	1,074.67	1,066.16	4.53	4.63	-96.31	-78.42	226.14	234.86	224.87	9.99	23.510	
1,200.00	1,193.96	1,173.78	1,163.69	4.77	4.91	-96.11	-91.15	238.35	248.09	237.61	10.48	23.675	
1,300.00	1,293.17	1,272.90	1,261.23	5.02	5.21	-95.93	-103.88	250.56	261.33	250.33	10.99	23.769	
1,400.00	1,392.37	1,372.02	1,358.76	5.28	5.52	-95.77	-116.61	262.77	274.57	263.04	11.53	23.813	
1,500.00	1,491.58	1,471.13	1,456.30	5.55	5.84	-95.62	-129.34	274.97	287.80	275.72	12.09	23.812	
1,600.00	1,590.78	1,570.25	1,553.83	5.83	6.17	-95.49	-142.07	287.18	301.04	288.39	12.66	23.782	
1,700.00	1,689.99	1,669.37	1,651.37	6.12	6.50	-95.37	-154.80	299.39	314.29	301.04	13.24	23.731	
1,800.00	1,789.19	1,768.49	1,748.90	6.41	6.85	-95.25	-167.53	311.60	327.53	313.69	13.84	23.664	
1,900.00	1,888.40	1,867.60	1,846.44	6.56	7.09	-95.15	-180.26	323.80	340.77	326.94	13.83	24.642	
2,000.00	1,987.60	1,966.72	1,943.97	6.59	7.18	-95.05	-192.99	336.01	354.02	340.09	13.93	25.408	
2,100.00	2,086.81	2,065.84	2,041.51	6.64	7.23	-94.96	-205.72	348.22	367.27	353.25	14.02	26.196	
2,200.00	2,186.01	2,164.95	2,139.05	6.70	7.30	-94.88	-218.45	360.43	380.51	366.38	14.14	26.916	
2,300.00	2,285.22	2,264.07	2,236.58	6.77	7.38	-94.80	-231.18	372.63	393.76	379.48	14.28	27.565	
2,400.00	2,384.42	2,363.19	2,334.12	6.86	7.48	-94.73	-243.91	384.84	407.01	392.55	14.46	28.143	
2,500.00	2,483.63	2,462.31	2,431.65	6.96	7.60	-94.66	-256.64	397.05	420.26	405.59	14.67	28.651	
2,600.00	2,582.83	2,561.42	2,529.19	7.08	7.73	-94.60	-269.37	409.26	433.51	418.61	14.90	29.092	
2,700.00	2,682.04	2,660.54	2,626.72	7.21	7.87	-94.54	-282.10	421.46	446.76	431.60	15.16	29.469	
2,800.00	2,781.24	2,759.66	2,724.26	7.34	8.03	-94.48	-294.83	433.67	460.01	444.56	15.44	29.787	
2,900.00	2,880.45	2,858.78	2,821.79	7.50	8.20	-94.43	-307.56	445.88	473.26	457.51	15.75	30.048	
3,000.00	2,979.65	2,957.89	2,919.33	7.66	8.38	-94.38	-320.29	458.09	486.51	470.43	16.08	30.259	
3,100.00	3,078.86	3,057.01	3,016.86	7.83	8.57	-94.33	-333.02	470.29	499.76	483.33	16.43	30.423	
3,200.00	3,178.06	3,156.13	3,114.40	8.01	8.77	-94.28	-345.74	482.50	513.01	496.22	16.79	30.546	
3,300.00	3,277.27	3,255.24	3,211.93	8.20	8.97	-94.24	-358.47	494.71	526.27	509.09	17.18	30.632	
3,400.00	3,376.47	3,354.36	3,309.47	8.39	9.19	-94.20	-371.20	506.92	539.52	521.94	17.58	30.685	
3,500.00	3,475.68	3,453.48	3,407.01	8.60	9.42	-94.16	-383.93	519.13	552.77	534.77	18.00	30.709	
3,600.00	3,574.88	3,552.60	3,504.54	8.81	9.65	-94.12	-396.66	531.33	566.02	547.59	18.43	30.708	
3,700.00	3,674.09	3,651.71	3,602.08	9.02	9.89	-94.09	-409.39	543.54	579.28	560.40	18.88	30.686	
3,800.00	3,773.29	3,750.83	3,699.61	9.25	10.14	-94.06	-422.12	555.75	592.53	573.20	19.34	30.645	
3,900.00	3,872.50	3,849.95	3,797.15	9.48	10.39	-94.02	-434.85	567.96	605.79	585.98	19.80	30.588	
4,000.00	3,971.70	3,949.06	3,894.68	9.71	10.65	-93.99	-447.58	580.16	619.04	598.75	20.29	30.517	
4,100.00	4,070.91	4,048.18	3,992.22	9.95	10.91	-93.96	-460.31	592.37	632.29	611.52	20.77	30.435	
4,200.00	4,170.11	4,147.30	4,089.75	10.19	11.18	-93.93	-473.04	604.58	645.55	624.27	21.27	30.344	
4,300.00	4,269.32	4,246.42	4,187.29	10.44	11.45	-93.91	-485.77	616.79	658.80	637.02	21.78	30.245	
4,400.00	4,368.52	4,345.53	4,284.82	10.69	11.73	-93.88	-498.50	628.99	672.06	649.76	22.30	30.140	
4,500.00	4,467.73	4,444.65	4,382.36	10.95	12.01	-93.85	-511.23	641.20	685.31	662.49	22.82	30.030	
4,600.00	4,566.93	4,543.77	4,479.89	11.21	12.30	-93.83	-523.96	653.41	698.57	675.21	23.35	29.916	
4,700.00	4,666.14	4,642.89	4,577.43	11.47	12.58	-93.81	-536.69	665.62	711.82	687.93	23.89	29.799	
4,800.00	4,765.34	4,742.00	4,674.97	11.73	12.88	-93.78	-549.42	677.82	725.08	700.65	24.43	29.679	
4,900.00	4,864.55	4,841.12	4,772.50	12.00	13.17	-93.76	-562.15	690.03	738.33	713.35	24.98	29.559	
5,000.00	4,963.75	4,940.24	4,870.04	12.27	13.47	-93.74	-574.88	702.24	751.59	726.05	25.53	29.437	
5,100.00	5,062.96	5,039.35	4,967.57	12.54	13.77	-93.72	-587.61	714.45	764.84	738.75	26.09	29.315	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	5,162.16	5,138.47	5,065.11	12.81	14.07	-93.70	-600.34	726.65	778.10	751.44	26.65	29.193		
5,300.00	5,261.37	5,237.59	5,162.64	13.09	14.37	-93.68	-613.07	738.86	791.35	764.13	27.22	29.072		
5,400.00	5,360.57	5,336.71	5,260.18	13.37	14.68	-93.66	-625.80	751.07	804.61	776.82	27.79	28.951		
5,500.00	5,459.78	5,435.82	5,357.71	13.65	14.98	-93.65	-638.53	763.28	817.86	789.50	28.37	28.832		
5,600.00	5,558.98	5,534.94	5,455.25	13.93	15.29	-93.63	-651.26	775.48	831.12	802.17	28.95	28.713		
5,700.00	5,658.18	5,634.06	5,552.78	14.21	15.61	-93.61	-663.99	787.69	844.38	814.85	29.53	28.596		
5,800.00	5,757.39	5,733.18	5,650.32	14.50	15.92	-93.60	-676.72	799.90	857.63	827.52	30.11	28.481		
5,900.00	5,856.59	5,832.29	5,747.85	14.79	16.23	-93.58	-689.45	812.11	870.89	840.19	30.70	28.367		
6,000.00	5,955.80	5,931.41	5,845.39	15.07	16.55	-93.57	-702.18	824.32	884.14	852.85	31.29	28.255		
6,100.00	6,055.00	6,030.53	5,942.93	15.36	16.87	-93.55	-714.91	836.52	897.40	865.51	31.89	28.144		
6,200.00	6,154.21	6,129.64	6,040.46	15.65	17.19	-93.54	-727.64	848.73	910.66	878.17	32.48	28.036		
6,300.00	6,253.41	6,228.76	6,138.00	15.94	17.51	-93.52	-740.37	860.94	923.91	890.83	33.08	27.930		
6,400.00	6,352.62	6,327.99	6,237.69	16.24	17.83	-93.50	-753.10	873.15	937.16	903.84	33.67	27.824		
6,500.00	6,451.82	6,427.17	6,344.41	16.53	18.15	-93.48	-765.83	885.36	950.41	916.85	34.27	27.718		
6,600.00	6,551.03	6,526.28	6,451.61	16.83	18.47	-93.46	-778.56	897.57	963.66	929.86	34.86	27.612		
6,700.00	6,650.23	6,625.39	6,558.81	17.12	18.79	-93.44	-791.29	909.68	976.91	942.87	35.46	27.506		
6,800.00	6,749.44	6,724.50	6,665.99	17.41	19.11	-93.42	-804.02	921.79	990.16	955.88	36.05	27.400		
6,900.00	6,848.64	6,823.61	6,773.19	17.70	19.43	-93.40	-816.75	933.90	1003.41	968.89	36.65	27.294		
7,000.00	6,947.85	6,922.72	6,880.39	18.00	19.75	-93.38	-829.48	946.01	1016.66	981.90	37.24	27.188		
7,100.00	7,047.05	7,021.83	6,987.59	18.30	20.07	-93.36	-842.21	958.12	1029.91	994.91	37.84	27.082		
7,200.00	7,146.26	7,120.95	7,094.79	18.60	20.39	-93.34	-854.94	970.23	1043.16	1007.92	38.43	26.976		
7,300.00	7,245.46	7,219.46	7,201.99	18.90	20.71	-93.32	-867.67	982.34	1056.41	1020.93	39.03	26.870		
7,383.42	7,240.80	7,214.71	7,237.94	18.68	19.35	83.92	-882.27	209.87	21.54	-15.65	37.19	0.579	Level 1, CC, ES, SF	
7,400.00	7,250.14	7,224.05	7,237.95	18.71	19.31	64.19	-882.30	223.56	23.49	-13.44	36.93	0.636	Level 1	
7,500.00	7,298.67	7,272.51	7,237.29	18.92	19.20	17.40	-882.39	308.05	62.74	31.01	31.73	1.978		
7,600.00	7,333.08	7,295.01	7,228.65	19.20	19.20	8.44	-881.43	387.02	105.83	74.96	30.86	3.429		
7,700.00	7,352.53	7,318.76	7,211.27	19.62	19.24	4.85	-879.33	461.19	146.72	115.81	30.91	4.747		
7,800.00	7,357.04	7,323.19	7,186.28	20.23	19.27	2.99	-876.22	530.27	184.74	153.36	31.38	5.887		
7,900.00	7,357.17	7,323.28	7,156.34	21.00	19.30	1.90	-872.44	591.07	228.91	196.84	32.08	7.137		
8,000.00	7,357.31	7,316.62	7,124.31	21.89	19.33	0.95	-868.38	642.40	281.88	249.04	32.84	8.584		
8,100.00	7,357.45	7,263.04	7,092.09	22.89	19.35	0.18	-864.27	684.99	342.25	308.65	33.60	10.187		
8,200.00	7,357.58	7,216.00	7,060.97	23.96	19.36	-0.44	-860.29	720.03	408.72	374.43	34.30	11.917		
8,300.00	7,357.72	7,174.80	7,031.67	25.11	19.36	-0.94	-856.54	748.73	480.22	445.30	34.93	13.750		
8,400.00	7,357.86	7,138.71	7,004.53	26.31	19.36	-1.34	-853.05	772.27	555.84	520.36	35.48	15.667		
8,500.00	7,357.99	7,100.00	6,974.01	27.56	19.36	-1.73	-849.12	795.74	634.92	599.03	35.88	17.693		
8,600.00	7,358.13	7,079.10	6,956.96	28.86	19.35	-1.93	-846.93	807.63	716.63	680.25	36.37	19.703		
8,700.00	7,358.27	7,050.00	6,932.60	30.19	19.35	-2.19	-843.79	823.22	800.75	764.05	36.70	21.819		
8,800.00	7,358.40	7,032.49	6,917.61	31.55	19.34	-2.33	-841.85	832.06	886.75	849.70	37.04	23.940		
8,900.00	7,358.54	7,000.00	6,889.17	32.95	19.32	-2.60	-838.18	847.34	974.60	937.35	37.25	26.162		
9,000.00	7,358.68	7,000.00	6,889.17	34.36	19.32	-2.60	-838.18	847.34	1,063.42	1,025.85	37.57	28.304		
9,100.00	7,358.81	6,979.65	6,870.98	35.80	19.31	-2.75	-835.83	856.16	1,153.57	1,115.80	37.77	30.546		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	179.20	-20.04	0.28	20.04					
100.00	100.00	100.00	100.00	3.28	3.28	179.20	-20.04	0.28	20.04	12.51	7.53	2.662		
200.00	200.00	200.00	200.00	3.31	3.31	179.20	-20.04	0.28	20.04	12.47	7.57	2.646		
300.00	299.98	299.31	299.29	3.34	3.34	-5.16	-21.76	0.17	20.03	12.38	7.65	2.619		
400.00	399.84	398.62	398.46	3.40	3.40	-5.33	-26.91	-0.16	20.00	12.25	7.75	2.580		
500.00	499.45	497.93	497.39	3.49	3.49	-5.63	-35.49	-0.71	19.95	12.06	7.89	2.528		
504.65	504.07	502.54	501.98	3.49	3.49	-5.64	-35.97	-0.74	19.95	12.05	7.90	2.526 CC		
600.00	598.74	597.24	595.96	3.60	3.60	-5.96	-47.48	-1.47	20.14	12.07	8.07	2.496		
700.00	697.94	703.18	694.39	3.74	3.75	-5.71	-62.56	-2.43	22.75	14.44	8.31	2.739		
800.00	797.15	803.23	793.11	3.91	3.94	-5.42	-78.18	-3.43	25.85	17.26	8.59	3.008		
900.00	896.35	896.72	891.83	4.10	4.13	-5.19	-93.80	-4.43	28.96	20.06	8.91	3.252		
1,000.00	995.55	1,003.33	990.55	4.31	4.37	-5.00	-109.42	-5.42	32.07	22.80	9.27	3.458		
1,100.00	1,094.76	1,103.38	1,089.27	4.53	4.62	-4.85	-125.04	-6.42	35.18	25.52	9.66	3.643		
1,200.00	1,193.96	1,203.42	1,187.98	4.77	4.88	-4.72	-140.66	-7.42	38.29	28.23	10.06	3.805		
1,300.00	1,293.17	1,303.47	1,286.70	5.02	5.16	-4.61	-156.28	-8.41	41.40	30.91	10.49	3.946		
1,400.00	1,392.37	1,403.52	1,385.42	5.28	5.45	-4.52	-171.91	-9.41	44.51	33.57	10.94	4.070		
1,500.00	1,491.58	1,503.57	1,484.14	5.55	5.75	-4.44	-187.53	-10.41	47.62	36.22	11.40	4.178		
1,600.00	1,590.78	1,603.62	1,582.86	5.83	6.05	-4.37	-203.15	-11.40	50.73	38.85	11.87	4.272		
1,700.00	1,689.99	1,703.67	1,681.58	6.12	6.37	-4.31	-218.77	-12.40	53.84	41.48	12.36	4.355		
1,800.00	1,789.19	1,803.71	1,780.29	6.41	6.68	-4.25	-234.39	-13.40	56.95	44.09	12.85	4.430		
1,900.00	1,888.40	1,903.76	1,879.01	6.66	6.85	-4.20	-250.01	-14.39	60.06	47.33	12.73	4.719		
2,000.00	1,987.60	2,003.81	1,977.73	6.59	6.89	-4.15	-265.63	-15.39	63.17	50.41	12.76	4.952		
2,100.00	2,086.81	2,103.86	2,076.45	6.64	6.94	-4.11	-281.26	-16.38	66.28	53.46	12.82	5.171		
2,200.00	2,186.01	2,203.91	2,175.17	6.70	7.01	-4.07	-296.88	-17.38	69.39	56.48	12.91	5.376		
2,300.00	2,285.22	2,303.96	2,273.88	6.77	7.10	-4.04	-312.50	-18.38	72.50	59.47	13.03	5.566		
2,400.00	2,384.42	2,404.00	2,372.60	6.86	7.20	-4.01	-328.12	-19.37	75.61	62.44	13.17	5.740		
2,500.00	2,483.63	2,504.05	2,471.32	6.96	7.31	-3.98	-343.74	-20.37	78.72	65.37	13.34	5.899		
2,600.00	2,582.83	2,604.10	2,570.04	7.08	7.44	-3.95	-359.36	-21.37	81.83	68.28	13.54	6.042		
2,700.00	2,682.04	2,704.15	2,668.76	7.21	7.58	-3.93	-374.98	-22.36	84.94	71.17	13.77	6.169		
2,800.00	2,781.24	2,804.20	2,767.48	7.34	7.74	-3.90	-390.60	-23.36	88.05	74.03	14.01	6.283		
2,900.00	2,880.45	2,904.25	2,866.19	7.50	7.91	-3.88	-406.23	-24.36	91.16	76.87	14.28	6.382		
3,000.00	2,979.65	2,995.71	2,964.91	7.66	8.07	-3.86	-421.85	-25.35	94.27	79.71	14.56	6.474		
3,100.00	3,078.86	3,104.34	3,063.63	7.83	8.27	-3.84	-437.47	-26.35	97.38	82.49	14.88	6.543		
3,200.00	3,178.06	3,204.39	3,162.35	8.01	8.47	-3.83	-453.09	-27.35	100.49	85.28	15.21	6.606		
3,300.00	3,277.27	3,304.44	3,261.07	8.20	8.67	-3.81	-468.71	-28.34	103.60	88.04	15.56	6.659		
3,400.00	3,376.47	3,395.51	3,359.79	8.39	8.87	-3.79	-484.33	-29.34	106.71	90.81	15.90	6.711		
3,500.00	3,475.68	3,495.46	3,458.50	8.60	9.09	-3.78	-499.95	-30.34	109.82	93.54	16.28	6.747		
3,600.00	3,574.88	3,604.59	3,557.22	8.81	9.34	-3.77	-515.58	-31.33	112.93	96.24	16.68	6.769		
3,700.00	3,674.09	3,695.37	3,655.94	9.02	9.55	-3.75	-531.20	-32.33	116.04	98.97	17.07	6.799		
3,800.00	3,773.29	3,804.68	3,754.66	9.25	9.81	-3.74	-546.82	-33.32	119.15	101.65	17.50	6.808		
3,900.00	3,872.50	3,904.73	3,853.38	9.48	10.06	-3.73	-562.44	-34.32	122.26	104.33	17.93	6.820		
4,000.00	3,971.70	4,004.78	3,952.10	9.71	10.31	-3.72	-578.06	-35.32	125.37	107.00	18.36	6.827		
4,100.00	4,070.91	4,095.17	4,050.81	9.95	10.54	-3.71	-593.68	-36.31	128.48	109.69	18.79	6.839		
4,200.00	4,170.11	4,195.12	4,149.53	10.19	10.81	-3.70	-609.30	-37.31	131.59	112.35	19.24	6.839		
4,300.00	4,269.32	4,304.92	4,248.25	10.44	11.10	-3.69	-624.92	-38.31	134.70	114.97	19.73	6.828		
4,400.00	4,368.52	4,404.97	4,346.97	10.69	11.37	-3.68	-640.55	-39.30	137.81	117.61	20.20	6.823		
4,500.00	4,467.73	4,505.02	4,445.69	10.95	11.64	-3.67	-656.17	-40.30	140.92	120.24	20.68	6.816		
4,600.00	4,566.93	4,594.93	4,544.41	11.21	11.89	-3.66	-671.79	-41.30	144.03	122.90	21.13	6.815		
4,700.00	4,666.14	4,705.12	4,643.12	11.47	12.20	-3.65	-687.41	-42.29	147.14	125.49	21.65	6.796		
4,800.00	4,765.34	4,805.17	4,741.84	11.73	12.48	-3.64	-703.03	-43.29	150.25	128.10	22.15	6.785		
4,900.00	4,864.55	4,905.21	4,840.56	12.00	12.77	-3.64	-718.65	-44.29	153.36	130.71	22.65	6.772		
5,000.00	4,963.75	5,005.26	4,939.28	12.27	13.06	-3.63	-734.27	-45.28	156.47	133.32	23.15	6.758		

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
5,100.00	5,062.96	5,105.31	5,038.00	12.54	13.35	-3.62	-749.90	-46.28	159.58	135.92	23.67	6.743		
5,200.00	5,162.16	5,205.36	5,136.72	12.81	13.64	-3.62	-765.52	-47.28	162.69	138.51	24.18	6.728		
5,300.00	5,261.37	5,305.41	5,235.43	13.09	13.94	-3.61	-781.14	-48.27	165.80	141.10	24.70	6.712		
5,400.00	5,360.57	5,394.54	5,334.15	13.37	14.20	-3.60	-796.76	-49.27	168.91	143.72	25.19	6.704		
5,500.00	5,459.78	5,505.50	5,432.87	13.65	14.53	-3.60	-812.38	-50.27	172.02	146.27	25.75	6.680		
5,600.00	5,558.98	5,605.55	5,531.59	13.93	14.83	-3.59	-828.00	-51.26	175.13	148.85	26.28	6.664		
5,700.00	5,658.18	5,705.60	5,630.31	14.21	15.14	-3.59	-843.62	-52.26	178.24	151.43	26.82	6.647		
5,800.00	5,757.39	5,794.35	5,729.03	14.50	15.41	-3.58	-859.25	-53.25	181.35	154.03	27.32	6.638		
5,900.00	5,856.59	5,905.70	5,827.74	14.79	15.75	-3.58	-874.87	-54.25	184.46	156.57	27.89	6.614		
6,000.00	5,955.80	6,005.75	5,926.46	15.07	16.05	-3.57	-890.49	-55.25	187.57	159.14	28.43	6.597		
6,100.00	6,055.00	6,105.79	6,025.18	15.36	16.36	-3.57	-906.11	-56.24	190.68	161.71	28.98	6.580		
6,200.00	6,154.21	6,194.16	6,123.90	15.65	16.64	-3.56	-921.73	-57.24	193.79	164.30	29.49	6.571		
6,300.00	6,253.41	6,294.11	6,222.62	15.94	16.95	-3.56	-937.35	-58.24	196.90	166.86	30.04	6.555		
6,400.00	6,352.62	6,394.06	6,321.34	16.24	17.26	-3.55	-952.97	-59.23	200.01	169.42	30.59	6.538		
6,500.00	6,451.82	6,494.01	6,420.05	16.53	17.57	-3.55	-968.59	-60.23	203.12	171.98	31.14	6.522		
6,600.00	6,551.03	6,593.96	6,518.77	16.83	17.88	-3.54	-984.22	-61.23	206.23	174.54	31.70	6.506		
6,700.00	6,650.23	6,693.70	6,617.00	17.12	18.14	-5.47	-999.74	-55.16	209.35	177.12	32.24	6.494		
6,800.00	6,749.44	6,789.25	6,709.15	17.41	18.38	11.38	-1,014.25	-34.88	213.94	181.14	32.80	6.522		
6,900.00	6,847.87	6,880.93	6,793.80	17.64	18.61	45.30	-1,027.53	-2.52	221.33	188.04	33.30	6.647		
7,000.00	6,943.29	6,969.87	6,870.73	17.88	18.82	52.74	-1,039.56	40.33	230.79	197.12	33.67	6.855		
7,100.00	7,033.35	7,056.51	6,939.30	18.10	19.01	53.59	-1,050.23	92.09	241.42	207.52	33.90	7.120		
7,200.00	7,115.82	7,141.25	6,999.05	18.32	19.20	52.64	-1,059.49	151.37	252.40	218.34	34.06	7.410		
7,300.00	7,188.68	7,224.43	7,049.65	18.52	19.38	51.26	-1,067.27	216.86	263.02	228.78	34.24	7.682		
7,400.00	7,250.14	7,306.39	7,090.83	18.71	19.57	49.93	-1,073.56	287.37	272.67	238.14	34.53	7.897		
7,500.00	7,298.67	7,387.40	7,122.43	18.92	19.78	48.86	-1,078.31	361.75	280.91	245.88	35.04	8.017		
7,600.00	7,333.08	7,467.74	7,144.31	19.20	20.04	48.11	-1,081.51	438.94	287.41	251.57	35.84	8.019		
7,700.00	7,352.53	7,547.66	7,156.38	19.62	20.38	47.71	-1,083.15	517.87	291.92	254.96	36.96	7.899		
7,800.00	7,357.04	7,633.38	7,159.05	20.23	20.86	47.72	-1,083.29	603.51	294.31	255.93	38.38	7.669		
7,900.00	7,357.17	7,733.36	7,159.30	21.00	21.58	48.02	-1,083.00	703.49	295.88	255.93	39.95	7.406		
8,000.00	7,357.31	7,833.33	7,159.55	21.89	22.43	48.33	-1,082.70	803.46	297.46	255.80	41.66	7.140		
8,100.00	7,357.45	7,933.31	7,159.81	22.89	23.40	48.63	-1,082.41	903.44	299.05	255.56	43.49	6.876		
8,200.00	7,357.58	8,033.28	7,160.06	23.96	24.45	48.92	-1,082.11	1,003.41	300.64	255.22	45.43	6.618		
8,300.00	7,357.72	8,133.26	7,160.31	25.11	25.57	49.22	-1,081.82	1,103.38	302.25	254.79	47.46	6.368		
8,400.00	7,357.86	8,233.23	7,160.57	26.31	26.76	49.51	-1,081.52	1,203.36	303.86	254.27	49.59	6.128		
8,500.00	7,357.99	8,333.21	7,160.82	27.56	28.00	49.80	-1,081.23	1,303.33	305.48	253.69	51.79	5.899		
8,600.00	7,358.13	8,433.18	7,161.07	28.86	29.28	50.08	-1,080.94	1,403.31	307.11	253.05	54.06	5.681		
8,700.00	7,358.27	8,533.16	7,161.33	30.19	30.60	50.36	-1,080.64	1,503.28	308.74	252.35	56.40	5.474		
8,800.00	7,358.40	8,633.13	7,161.58	31.55	31.96	50.64	-1,080.35	1,603.26	310.39	251.60	58.79	5.279		
8,900.00	7,358.54	8,733.11	7,161.83	32.95	33.34	50.92	-1,080.05	1,703.23	312.04	250.80	61.24	5.095		
9,000.00	7,358.68	8,833.08	7,162.09	34.36	34.75	51.19	-1,079.76	1,803.21	313.69	249.96	63.73	4.922		
9,100.00	7,358.81	8,933.06	7,162.34	35.80	36.18	51.46	-1,079.46	1,903.18	315.36	249.09	66.27	4.759		
9,200.00	7,358.95	9,033.03	7,162.59	37.26	37.64	51.72	-1,079.17	2,003.15	317.03	248.18	68.85	4.605		
9,300.00	7,359.09	9,133.01	7,162.84	38.73	39.11	51.99	-1,078.88	2,103.13	318.71	247.24	71.46	4.460		
9,400.00	7,359.23	9,232.98	7,163.10	40.22	40.59	52.25	-1,078.58	2,203.10	320.39	246.28	74.11	4.323		
9,500.00	7,359.36	9,332.96	7,163.35	41.72	42.09	52.51	-1,078.29	2,303.08	322.08	245.29	76.79	4.194		
9,600.00	7,359.50	9,432.93	7,163.60	43.24	43.60	52.76	-1,077.99	2,403.05	323.78	244.28	79.50	4.073		
9,700.00	7,359.64	9,532.91	7,163.86	44.77	45.12	53.02	-1,077.70	2,503.03	325.48	243.24	82.24	3.958		
9,800.00	7,359.77	9,632.88	7,164.11	46.30	46.66	53.27	-1,077.41	2,603.00	327.19	242.19	85.00	3.849		
9,900.00	7,359.91	9,732.86	7,164.36	47.85	48.20	53.52	-1,077.11	2,702.98	328.91	241.12	87.79	3.747		
10,000.00	7,360.05	9,832.84	7,164.62	49.40	49.75	53.76	-1,076.82	2,802.95	330.63	240.04	90.59	3.650		
10,100.00	7,360.18	9,932.81	7,164.87	50.96	51.31	54.00	-1,076.52	2,902.92	332.36	238.94	93.42	3.558		
10,200.00	7,360.32	10,032.79	7,165.12	52.53	52.87	54.24	-1,076.23	3,002.90	334.09	237.82	96.27	3.470		

Hewlett-Packard

Anticollision Report

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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		
10,300.00	7,360.46	10,132.76	7,165.37	54.10	54.44	54.48	-1,075.93	3,102.87	335.83	236.70	99.14	3.388		
10,400.00	7,360.59	10,232.74	7,165.63	55.68	56.02	54.72	-1,075.64	3,202.85	337.58	235.56	102.02	3.309		
10,500.00	7,360.73	10,332.71	7,165.88	57.26	57.60	54.95	-1,075.35	3,302.82	339.33	234.41	104.92	3.234		
10,600.00	7,360.87	10,432.69	7,166.13	58.85	59.19	55.18	-1,075.05	3,402.80	341.09	233.25	107.84	3.163		
10,700.00	7,361.00	10,532.66	7,166.39	60.44	60.78	55.41	-1,074.76	3,502.77	342.85	232.08	110.77	3.095		
10,800.00	7,361.14	10,632.64	7,166.64	62.04	62.38	55.64	-1,074.46	3,602.75	344.62	230.90	113.72	3.030		
10,900.00	7,361.28	10,732.63	7,166.89	63.64	63.98	55.70	-1,074.17	3,702.74	344.93	228.36	116.56	2.959		
11,000.00	7,361.41	10,832.62	7,167.15	65.25	65.58	55.60	-1,073.87	3,802.73	343.85	224.55	119.30	2.882		
11,100.00	7,361.54	10,932.62	7,167.40	66.86	67.19	55.50	-1,073.58	3,902.72	342.77	220.74	122.04	2.809		
11,200.00	7,361.68	11,032.61	7,167.65	68.48	68.80	55.40	-1,073.29	4,002.71	341.70	216.92	124.77	2.739		
11,300.00	7,361.81	11,132.60	7,167.91	70.10	70.41	55.30	-1,072.99	4,102.71	340.62	213.11	127.51	2.671		
11,400.00	7,361.95	11,232.59	7,168.16	71.72	72.02	55.20	-1,072.70	4,202.70	339.55	209.30	130.25	2.607		
11,500.00	7,362.08	11,332.59	7,168.41	73.35	73.64	55.09	-1,072.40	4,302.69	338.48	205.49	132.98	2.545		
11,600.00	7,362.21	11,432.58	7,168.66	74.97	75.26	54.99	-1,072.11	4,402.68	337.40	201.69	135.72	2.486		
11,700.00	7,362.35	11,532.57	7,168.92	76.60	76.88	54.89	-1,071.81	4,502.67	336.33	197.89	138.45	2.429		
11,800.00	7,362.48	11,632.56	7,169.17	78.23	78.51	54.79	-1,071.52	4,602.66	335.26	194.09	141.18	2.375		
11,900.00	7,362.61	11,732.56	7,169.42	79.86	80.13	54.68	-1,071.23	4,702.66	334.20	190.29	143.90	2.322		
12,000.00	7,362.75	11,829.92	7,169.67	81.50	81.72	54.59	-1,071.07	4,800.02	333.25	186.57	146.68	2.272		
12,010.74	7,362.76	11,839.74	7,169.70	81.67	81.88	54.59	-1,071.16	4,809.84	333.23	186.24	146.99	2.267		
12,100.00	7,362.88	11,921.24	7,169.90	83.13	83.21	54.73	-1,073.14	4,891.31	334.27	184.58	149.69	2.233		
12,200.00	7,363.02	12,020.01	7,170.15	84.77	84.83	55.07	-1,077.35	4,989.99	336.93	184.05	152.88	2.204		
12,300.00	7,363.15	12,119.95	7,170.41	86.41	86.47	55.41	-1,081.64	5,089.84	339.62	183.54	156.08	2.176		
12,400.00	7,363.28	12,219.89	7,170.66	88.05	88.11	55.75	-1,085.93	5,189.69	342.32	183.03	159.30	2.149		
12,500.00	7,363.42	12,319.84	7,170.92	89.69	89.75	56.08	-1,090.22	5,289.54	345.04	182.52	162.52	2.123		
12,600.00	7,363.55	12,419.78	7,171.17	91.33	91.40	56.40	-1,094.51	5,389.39	347.77	182.02	165.75	2.098		
12,700.00	7,363.69	12,519.72	7,171.43	92.97	93.04	56.72	-1,098.79	5,489.24	350.51	181.52	168.99	2.074		
12,800.00	7,363.82	12,619.67	7,171.68	94.61	94.69	57.04	-1,103.08	5,589.09	353.26	181.03	172.23	2.051		
12,900.00	7,363.95	12,719.61	7,171.94	96.26	96.33	57.35	-1,107.37	5,688.95	356.02	180.53	175.49	2.029		
13,000.00	7,364.09	12,819.55	7,172.19	97.90	97.98	57.66	-1,111.66	5,788.80	358.79	180.04	178.75	2.007		
13,100.00	7,364.22	12,919.50	7,172.45	99.55	99.63	57.96	-1,115.95	5,888.65	361.57	179.56	182.01	1.986		
13,200.00	7,364.35	13,019.44	7,172.70	101.20	101.28	58.25	-1,120.24	5,988.50	364.36	179.07	185.29	1.966		
13,300.00	7,364.49	13,119.38	7,172.96	102.85	102.93	58.55	-1,124.52	6,088.35	367.16	178.59	188.57	1.947		
13,400.00	7,364.62	13,221.30	7,173.22	104.50	104.61	58.83	-1,128.84	6,190.17	369.93	178.07	191.86	1.928		
13,500.00	7,364.76	13,323.74	7,173.50	106.15	106.47	58.92	-1,130.76	6,302.59	370.53	175.70	194.83	1.902		
13,600.00	7,364.89	13,446.08	7,173.79	107.80	108.31	58.66	-1,128.27	6,414.90	367.78	170.61	197.17	1.865		
13,700.00	7,365.02	13,547.25	7,174.04	109.45	109.96	58.21	-1,123.64	6,515.96	363.02	163.51	199.52	1.820		
13,800.00	7,365.16	13,647.10	7,174.30	111.10	111.59	57.77	-1,119.06	6,615.70	358.27	156.40	201.87	1.775		
13,900.00	7,365.29	13,746.94	7,174.55	112.75	113.23	57.30	-1,114.47	6,715.44	353.55	149.35	204.19	1.731		
14,000.00	7,365.43	13,846.79	7,174.80	114.41	114.86	56.83	-1,109.88	6,815.18	348.84	142.38	206.47	1.690		
14,100.00	7,365.56	13,946.64	7,175.05	116.06	116.49	56.34	-1,105.29	6,914.92	344.16	135.47	208.70	1.649		
14,200.00	7,365.69	14,046.48	7,175.31	117.71	118.13	55.84	-1,100.70	7,014.66	339.51	128.63	210.88	1.610		
14,300.00	7,365.83	14,146.33	7,175.56	119.37	119.77	55.33	-1,096.11	7,114.41	334.88	121.87	213.01	1.572		
14,400.00	7,365.96	14,246.18	7,175.81	121.02	121.40	54.80	-1,091.52	7,214.15	330.28	115.19	215.09	1.536		
14,500.00	7,366.09	14,346.03	7,176.07	122.68	123.04	54.26	-1,086.93	7,313.89	325.71	108.59	217.11	1.500		
14,600.00	7,366.23	14,445.87	7,176.32	124.33	124.68	53.70	-1,082.34	7,413.63	321.17	102.09	219.08	1.466 Level 3		
14,700.00	7,366.36	14,545.72	7,176.57	125.99	126.32	53.13	-1,077.75	7,513.37	316.66	95.67	220.99	1.433 Level 3		
14,800.00	7,366.50	14,642.31	7,176.82	127.65	127.91	52.58	-1,073.56	7,609.87	312.39	89.37	223.03	1.401 Level 3		
14,900.00	7,366.63	14,734.35	7,177.05	129.31	129.43	52.33	-1,072.01	7,701.89	310.25	84.63	225.62	1.375 Level 3		
15,000.00	7,366.76	14,832.31	7,177.30	130.96	131.05	52.32	-1,072.66	7,799.84	309.96	81.51	228.45	1.357 Level 3		
15,100.00	7,366.90	14,932.31	7,177.55	132.62	132.70	52.32	-1,073.42	7,899.84	309.75	78.49	231.26	1.339 Level 3		
15,200.00	7,367.03	15,032.31	7,177.80	134.28	134.36	52.32	-1,074.18	7,999.84	309.54	75.46	234.08	1.322 Level 3		
15,300.00	7,367.16	15,132.30	7,178.06	135.94	136.02	52.31	-1,074.94	8,099.83	309.34	72.43	236.90	1.306 Level 3		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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							
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
15,400.00	7,367.30	15,232.30	7,178.31	137.60	137.68	52.31	-1,075.70	8,199.83	309.13	69.41	239.72	1.290	Level 3
15,500.00	7,367.43	15,332.30	7,178.56	139.26	139.33	52.31	-1,076.46	8,299.83	308.92	66.38	242.54	1.274	Level 3
15,600.00	7,367.57	15,432.30	7,178.82	140.92	140.99	52.31	-1,077.22	8,399.82	308.71	63.35	245.36	1.258	Level 3
15,700.00	7,367.70	15,532.30	7,179.07	142.58	142.65	52.31	-1,077.98	8,499.82	308.51	60.32	248.19	1.243	Level 2
15,800.00	7,367.83	15,632.30	7,179.32	144.24	144.31	52.30	-1,078.73	8,599.82	308.30	57.29	251.01	1.228	Level 2
15,900.00	7,367.97	15,732.30	7,179.58	145.90	145.97	52.30	-1,079.49	8,699.81	308.09	54.26	253.83	1.214	Level 2
16,000.00	7,368.10	15,832.30	7,179.83	147.56	147.63	52.30	-1,080.25	8,799.81	307.88	51.23	256.65	1.200	Level 2
16,100.00	7,368.24	15,932.30	7,180.08	149.22	149.29	52.30	-1,081.01	8,899.81	307.67	48.20	259.48	1.186	Level 2
16,200.00	7,368.37	16,032.30	7,180.34	150.88	150.95	52.30	-1,081.77	8,999.80	307.47	45.17	262.30	1.172	Level 2
16,300.00	7,368.50	16,132.30	7,180.59	152.54	152.61	52.30	-1,082.53	9,099.80	307.26	42.13	265.12	1.159	Level 2
16,400.00	7,368.64	16,232.30	7,180.84	154.21	154.27	52.29	-1,083.29	9,199.80	307.05	39.10	267.95	1.146	Level 2
16,500.00	7,368.77	16,332.30	7,181.10	155.87	155.93	52.29	-1,084.05	9,299.79	306.84	36.07	270.77	1.133	Level 2
16,600.00	7,368.90	16,432.30	7,181.35	157.53	157.60	52.29	-1,084.81	9,399.79	306.64	33.04	273.60	1.121	Level 2
16,700.00	7,369.04	16,532.30	7,181.60	159.19	159.26	52.29	-1,085.57	9,499.79	306.43	30.00	276.43	1.109	Level 2
16,800.00	7,369.17	16,632.30	7,181.86	160.86	160.92	52.29	-1,086.33	9,599.78	306.22	26.97	279.25	1.097	Level 2
16,900.00	7,369.31	16,732.30	7,182.11	162.52	162.58	52.29	-1,087.09	9,699.78	306.01	23.94	282.08	1.085	Level 2
17,000.00	7,369.44	16,832.30	7,182.36	164.18	164.24	52.28	-1,087.85	9,799.78	305.81	20.90	284.90	1.073	Level 2
17,100.00	7,369.57	16,932.30	7,182.62	165.84	165.91	52.28	-1,088.61	9,899.77	305.60	17.87	287.73	1.062	Level 2
17,200.00	7,369.71	17,032.30	7,182.87	167.51	167.57	52.28	-1,089.37	9,999.77	305.39	14.83	290.56	1.051	Level 2
17,300.00	7,369.84	17,132.30	7,183.12	169.17	169.23	52.28	-1,090.13	10,099.77	305.18	11.80	293.39	1.040	Level 2
17,400.00	7,369.97	17,232.30	7,183.38	170.84	170.90	52.28	-1,090.89	10,199.76	304.97	8.76	296.21	1.030	Level 2
17,500.00	7,370.11	17,332.30	7,183.63	172.50	172.56	52.27	-1,091.65	10,299.76	304.77	5.73	299.04	1.019	Level 2
17,600.00	7,370.24	17,432.30	7,183.88	174.16	174.22	52.27	-1,092.41	10,399.76	304.56	2.69	301.87	1.009	Level 2
17,700.00	7,370.38	17,532.30	7,184.14	175.83	175.89	52.27	-1,093.17	10,499.75	304.35	-0.35	304.70	0.999	Level 1
17,800.00	7,370.51	17,632.30	7,184.39	177.49	177.55	52.27	-1,093.93	10,599.75	304.14	-3.38	307.53	0.989	Level 1
17,900.00	7,370.64	17,732.30	7,184.64	179.16	179.21	52.27	-1,094.69	10,699.75	303.94	-6.42	310.35	0.979	Level 1
18,000.00	7,370.78	17,832.30	7,184.90	180.82	180.88	52.27	-1,095.45	10,799.74	303.73	-9.45	313.18	0.970	Level 1
18,100.00	7,370.91	17,932.30	7,185.15	182.49	182.54	52.26	-1,096.21	10,899.74	303.52	-12.49	316.01	0.960	Level 1
18,200.00	7,371.05	18,032.30	7,185.40	184.15	184.21	52.26	-1,096.96	10,999.73	303.31	-15.53	318.84	0.951	Level 1
18,300.00	7,371.18	18,132.30	7,185.66	185.82	185.87	52.26	-1,097.72	11,099.73	303.11	-18.57	321.67	0.942	Level 1
18,400.00	7,371.31	18,232.30	7,185.91	187.48	187.54	52.26	-1,098.48	11,199.73	302.90	-21.60	324.50	0.933	Level 1
18,500.00	7,371.45	18,332.30	7,186.16	189.15	189.20	52.26	-1,099.24	11,299.72	302.69	-24.64	327.33	0.925	Level 1
18,600.00	7,371.58	18,432.30	7,186.42	190.82	190.87	52.25	-1,100.00	11,399.72	302.48	-27.68	330.16	0.916	Level 1
18,700.00	7,371.71	18,532.30	7,186.67	192.48	192.53	52.25	-1,100.76	11,499.72	302.28	-30.72	332.99	0.908	Level 1
18,800.00	7,371.85	18,632.30	7,186.92	194.15	194.20	52.25	-1,101.52	11,599.71	302.07	-33.75	335.82	0.899	Level 1
18,900.00	7,371.98	18,732.30	7,187.18	195.81	195.86	52.25	-1,102.28	11,699.71	301.86	-36.79	338.65	0.891	Level 1
19,000.00	7,372.12	18,832.30	7,187.43	197.48	197.53	52.25	-1,103.04	11,799.71	301.65	-39.83	341.48	0.883	Level 1
19,100.00	7,372.25	18,932.30	7,187.68	199.15	199.19	52.25	-1,103.80	11,899.70	301.44	-42.87	344.31	0.875	Level 1
19,200.00	7,372.38	19,032.30	7,187.93	200.81	200.86	52.24	-1,104.56	11,999.70	301.24	-45.91	347.14	0.868	Level 1
19,300.00	7,372.52	19,132.30	7,188.19	202.48	202.53	52.24	-1,105.32	12,099.70	301.03	-48.95	349.97	0.860	Level 1
19,400.00	7,372.65	19,232.30	7,188.44	204.14	204.19	52.24	-1,106.08	12,199.69	300.82	-51.98	352.81	0.853	Level 1
19,500.00	7,372.79	19,332.30	7,188.69	205.81	205.86	52.24	-1,106.84	12,299.69	300.61	-55.02	355.64	0.845	Level 1
19,600.00	7,372.92	19,432.30	7,188.95	207.48	207.52	52.24	-1,107.60	12,399.69	300.41	-58.06	358.47	0.838	Level 1
19,700.00	7,373.05	19,532.30	7,189.20	209.15	209.19	52.23	-1,108.36	12,499.68	300.20	-61.10	361.30	0.831	Level 1
19,800.00	7,373.19	19,632.30	7,189.45	210.81	210.86	52.23	-1,109.12	12,599.68	299.99	-64.14	364.13	0.824	Level 1
19,900.00	7,373.32	19,732.30	7,189.71	212.48	212.52	52.23	-1,109.88	12,699.68	299.78	-67.18	366.96	0.817	Level 1
20,000.00	7,373.45	19,832.29	7,189.96	214.15	214.19	52.23	-1,110.64	12,799.67	299.58	-70.22	369.79	0.810	Level 1
20,100.00	7,373.59	19,932.29	7,190.21	215.81	215.86	52.23	-1,111.40	12,899.67	299.37	-73.26	372.63	0.803	Level 1
20,200.00	7,373.72	20,032.29	7,190.47	217.48	217.52	52.22	-1,112.16	12,999.67	299.16	-76.30	375.46	0.797	Level 1
20,300.00	7,373.86	20,132.29	7,190.72	219.15	219.19	52.22	-1,112.92	13,099.66	298.95	-79.34	378.29	0.790	Level 1
20,400.00	7,373.99	20,232.29	7,190.97	220.82	220.86	52.22	-1,113.68	13,199.66	298.74	-82.38	381.12	0.784	Level 1
20,407.86	7,374.00	20,240.16	7,190.99	220.95	220.99	52.22	-1,113.74	13,207.52	298.73	-82.61	381.34	0.783	Level 1, ES, SF

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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	0.00	0.00	3.28	3.28	179.60	-40.07	0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-40.07	0.28	40.07	32.54	7.53	5.323		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-40.07	0.28	40.07	32.50	7.57	5.291		
300.00	299.98	298.62	298.60	3.34	3.34	-4.75	-41.77	0.19	40.05	32.40	7.65	5.236		
400.00	399.84	397.25	397.09	3.40	3.40	-4.91	-46.85	-0.09	39.99	32.24	7.75	5.159		
500.00	499.45	495.88	495.35	3.49	3.49	-5.18	-55.32	-0.55	39.88	31.99	7.89	5.056		
509.71	509.11	505.46	504.88	3.50	3.49	-5.21	-56.32	-0.60	39.88	31.97	7.90	5.045 CC		
600.00	598.74	594.51	593.26	3.60	3.59	-5.53	-67.15	-1.19	39.99	31.93	8.06	4.959 ES		
700.00	697.94	693.05	690.62	3.74	3.74	-5.58	-82.33	-2.01	42.88	34.60	8.28	5.180		
800.00	797.15	792.24	788.14	3.91	3.93	-5.38	-100.42	-2.99	48.63	40.08	8.55	5.686		
900.00	896.35	907.94	886.22	4.10	4.18	-5.19	-118.93	-3.99	54.69	45.78	8.91	6.140		
1,000.00	995.55	1,008.13	984.30	4.31	4.43	-5.04	-137.43	-4.99	60.75	51.48	9.27	6.553		
1,100.00	1,094.76	1,091.69	1,082.38	4.53	4.66	-4.91	-155.94	-6.00	66.80	57.18	9.63	6.939		
1,200.00	1,193.96	1,208.50	1,180.46	4.77	4.99	-4.81	-174.44	-7.00	72.86	62.79	10.08	7.230		
1,300.00	1,293.17	1,291.32	1,278.54	5.02	5.24	-4.72	-192.95	-8.00	78.92	68.45	10.48	7.534		
1,400.00	1,392.37	1,408.86	1,376.62	5.28	5.61	-4.65	-211.45	-9.00	84.98	74.01	10.97	7.745		
1,500.00	1,491.58	1,490.95	1,474.71	5.55	5.88	-4.59	-229.96	-10.01	91.05	79.64	11.40	7.986		
1,600.00	1,590.78	1,590.77	1,572.79	5.83	6.22	-4.53	-248.47	-11.01	97.11	85.22	11.89	8.170		
1,700.00	1,689.99	1,709.41	1,670.87	6.12	6.62	-4.48	-266.97	-12.01	103.17	90.73	12.43	8.298		
1,800.00	1,789.19	1,790.40	1,768.95	6.41	6.90	-4.43	-285.48	-13.01	109.23	96.33	12.89	8.473		
1,900.00	1,888.40	1,909.78	1,867.03	6.56	7.13	-4.39	-303.98	-14.01	115.29	102.49	12.80	9.007		
2,000.00	1,987.60	1,990.03	1,965.11	6.59	7.17	-4.36	-322.49	-15.02	121.35	108.52	12.83	9.460		
2,100.00	2,086.81	2,089.85	2,063.19	6.64	7.23	-4.33	-340.99	-16.02	127.41	114.52	12.89	9.886		
2,200.00	2,186.01	2,189.67	2,161.27	6.70	7.31	-4.30	-359.50	-17.02	133.47	120.49	12.98	10.284		
2,300.00	2,285.22	2,289.48	2,259.35	6.77	7.40	-4.27	-378.00	-18.02	139.53	126.43	13.10	10.652		
2,400.00	2,384.42	2,389.30	2,357.43	6.86	7.51	-4.25	-396.51	-19.03	145.59	132.34	13.25	10.990		
2,500.00	2,483.63	2,489.11	2,455.51	6.96	7.64	-4.22	-415.01	-20.03	151.65	138.23	13.42	11.297		
2,600.00	2,582.83	2,588.93	2,553.59	7.08	7.78	-4.20	-433.52	-21.03	157.71	144.08	13.63	11.573		
2,700.00	2,682.04	2,688.75	2,651.67	7.21	7.93	-4.18	-452.03	-22.03	163.77	149.92	13.86	11.820		
2,800.00	2,781.24	2,788.56	2,749.75	7.34	8.10	-4.16	-470.53	-23.03	169.83	155.72	14.11	12.038		
2,900.00	2,880.45	2,888.38	2,847.83	7.50	8.28	-4.15	-489.04	-24.04	175.89	161.51	14.38	12.228		
3,000.00	2,979.65	2,988.20	2,945.91	7.66	8.47	-4.13	-507.54	-25.04	181.95	167.27	14.68	12.394		
3,100.00	3,078.86	3,088.01	3,044.00	7.83	8.67	-4.12	-526.05	-26.04	188.02	173.02	15.00	12.536		
3,200.00	3,178.06	3,187.83	3,142.08	8.01	8.89	-4.10	-544.55	-27.04	194.08	178.74	15.33	12.657		
3,300.00	3,277.27	3,287.64	3,240.16	8.20	9.11	-4.09	-563.06	-28.05	200.14	184.45	15.69	12.758		
3,400.00	3,376.47	3,387.46	3,338.24	8.39	9.34	-4.08	-581.56	-29.05	206.20	190.14	16.06	12.841		
3,500.00	3,475.68	3,487.28	3,436.32	8.60	9.57	-4.07	-600.07	-30.05	212.26	195.82	16.44	12.909		
3,600.00	3,574.88	3,587.09	3,534.40	8.81	9.82	-4.06	-618.57	-31.05	218.32	201.48	16.84	12.963		
3,700.00	3,674.09	3,686.91	3,632.48	9.02	10.07	-4.05	-637.08	-32.05	224.38	207.13	17.25	13.005		
3,800.00	3,773.29	3,786.72	3,730.56	9.25	10.33	-4.04	-655.58	-33.06	230.44	212.76	17.68	13.035		
3,900.00	3,872.50	3,886.54	3,828.64	9.48	10.60	-4.03	-674.09	-34.06	236.50	218.39	18.11	13.056		
4,000.00	3,971.70	3,986.36	3,926.72	9.71	10.87	-4.02	-692.60	-35.06	242.56	224.00	18.56	13.069		
4,100.00	4,070.91	4,086.17	4,024.80	9.95	11.14	-4.01	-711.10	-36.06	248.62	229.61	19.02	13.074		
4,200.00	4,170.11	4,185.99	4,122.88	10.19	11.42	-4.00	-729.61	-37.07	254.69	235.20	19.48	13.073		
4,300.00	4,269.32	4,285.81	4,220.96	10.44	11.70	-3.99	-748.11	-38.07	260.75	240.79	19.95	13.067		
4,400.00	4,368.52	4,385.62	4,319.04	10.69	11.99	-3.99	-766.62	-39.07	266.81	246.37	20.44	13.056		
4,500.00	4,467.73	4,485.44	4,417.12	10.95	12.28	-3.98	-785.12	-40.07	272.87	251.94	20.92	13.041		
4,600.00	4,566.93	4,585.25	4,515.20	11.21	12.58	-3.97	-803.63	-41.07	278.93	257.51	21.42	13.023		
4,700.00	4,666.14	4,685.07	4,613.29	11.47	12.88	-3.97	-822.13	-42.08	284.99	263.07	21.92	13.001		
4,800.00	4,765.34	4,784.89	4,711.37	11.73	13.18	-3.96	-840.64	-43.08	291.05	268.62	22.43	12.978		
4,900.00	4,864.55	4,884.70	4,809.45	12.00	13.49	-3.96	-859.14	-44.08	297.11	274.17	22.94	12.952		
5,000.00	4,963.75	4,984.52	4,907.53	12.27	13.79	-3.95	-877.65	-45.08	303.17	279.72	23.46	12.925		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
5,100.00	5,062.96	5,084.33	5,005.61	12.54	14.10	-3.95	-896.15	-46.09	309.23	285.26	23.98	12.896		
5,200.00	5,162.16	5,184.15	5,103.69	12.81	14.41	-3.94	-914.66	-47.09	315.30	290.79	24.51	12.866		
5,300.00	5,261.37	5,283.97	5,201.77	13.09	14.73	-3.94	-933.17	-48.09	321.36	296.32	25.04	12.836		
5,400.00	5,360.57	5,383.78	5,299.85	13.37	15.05	-3.93	-951.67	-49.09	327.42	301.85	25.57	12.804		
5,500.00	5,459.78	5,483.60	5,397.93	13.65	15.36	-3.93	-970.18	-50.09	333.48	307.37	26.11	12.772		
5,600.00	5,558.98	5,583.42	5,496.01	13.93	15.68	-3.92	-988.68	-51.10	339.54	312.89	26.65	12.740		
5,700.00	5,658.18	5,683.23	5,594.09	14.21	16.01	-3.92	-1,007.19	-52.10	345.60	318.40	27.20	12.708		
5,800.00	5,757.39	5,783.05	5,692.17	14.50	16.33	-3.91	-1,025.69	-53.10	351.66	323.92	27.74	12.676		
5,900.00	5,856.59	5,882.86	5,790.25	14.79	16.65	-3.91	-1,044.20	-54.10	357.72	329.43	28.29	12.643		
6,000.00	5,955.80	5,982.68	5,888.33	15.07	16.98	-3.91	-1,062.70	-55.11	363.78	334.94	28.85	12.611		
6,100.00	6,055.00	6,082.50	5,986.41	15.36	17.31	-3.90	-1,081.21	-56.11	369.84	340.44	29.40	12.578		
6,200.00	6,154.21	6,182.31	6,084.49	15.65	17.64	-3.90	-1,099.71	-57.11	375.91	345.94	29.96	12.546		
6,300.00	6,253.41	6,282.13	6,182.58	15.94	17.97	-3.89	-1,118.22	-58.11	381.97	351.44	30.52	12.515		
6,400.00	6,352.62	6,381.94	6,280.66	16.24	18.30	-3.89	-1,136.73	-59.11	388.03	356.94	31.08	12.483		
6,500.00	6,451.82	6,481.76	6,378.74	16.53	18.63	-3.89	-1,155.23	-60.12	394.09	362.44	31.65	12.452		
6,600.00	6,551.03	6,581.58	6,476.82	16.83	18.96	-3.88	-1,173.74	-61.12	400.15	367.93	32.21	12.421		
6,700.00	6,650.23	6,681.39	6,574.90	17.12	19.30	-3.88	-1,192.24	-62.12	406.21	373.43	32.78	12.391		
6,800.00	6,749.44	6,782.10	6,673.72	17.41	19.60	17.85	-1,210.80	-58.09	412.20	378.87	33.33	12.366		
6,900.00	6,847.87	6,881.95	6,769.95	17.64	19.86	56.44	-1,228.59	-38.83	418.27	384.46	33.81	12.371		
7,000.00	6,943.29	6,980.68	6,861.09	17.88	20.12	67.90	-1,245.17	-4.98	424.40	390.15	34.25	12.391		
7,100.00	7,033.35	7,078.37	6,945.20	18.10	20.36	72.06	-1,260.19	42.19	430.42	395.74	34.67	12.413		
7,200.00	7,115.82	7,175.11	7,020.58	18.32	20.58	73.72	-1,273.35	101.23	436.15	401.03	35.12	12.418		
7,300.00	7,188.68	7,271.02	7,085.83	18.52	20.79	74.33	-1,284.41	170.53	441.44	405.79	35.65	12.384		
7,400.00	7,250.14	7,366.21	7,139.78	18.71	21.00	74.44	-1,293.20	248.35	446.13	409.81	36.32	12.285		
7,500.00	7,298.67	7,460.79	7,181.53	18.92	21.21	74.32	-1,299.57	332.87	450.08	412.89	37.19	12.104		
7,600.00	7,333.08	7,554.88	7,210.43	19.20	21.46	74.11	-1,303.43	422.24	453.17	414.88	38.29	11.835		
7,700.00	7,352.53	7,648.60	7,226.06	19.62	21.79	73.87	-1,304.73	514.55	455.31	415.69	39.63	11.489		
7,800.00	7,357.04	7,744.43	7,229.10	20.23	22.23	73.72	-1,303.60	610.28	456.43	415.25	41.18	11.084		
7,900.00	7,357.17	7,844.42	7,229.38	21.00	22.85	73.77	-1,301.88	710.26	457.16	414.24	42.91	10.653		
8,000.00	7,357.31	7,944.42	7,229.66	21.89	23.61	73.81	-1,300.16	810.25	457.88	413.07	44.81	10.217		
8,100.00	7,357.45	8,044.42	7,229.94	22.89	24.50	73.86	-1,298.43	910.23	458.60	411.74	46.86	9.786		
8,200.00	7,357.58	8,144.41	7,230.21	23.96	25.48	73.90	-1,296.71	1,010.21	459.33	410.28	49.04	9.366		
8,300.00	7,357.72	8,244.41	7,230.49	25.11	26.54	73.95	-1,294.98	1,110.19	460.05	408.71	51.34	8.961		
8,400.00	7,357.86	8,344.41	7,230.77	26.31	27.68	73.99	-1,293.26	1,210.17	460.78	407.05	53.73	8.576		
8,500.00	7,357.99	8,444.40	7,231.05	27.56	28.87	74.03	-1,291.53	1,310.15	461.50	405.29	56.21	8.210		
8,600.00	7,358.13	8,544.40	7,231.32	28.86	30.11	74.08	-1,289.81	1,410.13	462.23	403.46	58.76	7.866		
8,700.00	7,358.27	8,644.40	7,231.60	30.19	31.39	74.12	-1,288.08	1,510.12	462.95	401.57	61.39	7.542		
8,800.00	7,358.40	8,744.39	7,231.88	31.55	32.71	74.16	-1,286.36	1,610.10	463.68	399.61	64.06	7.238		
8,900.00	7,358.54	8,844.39	7,232.16	32.95	34.06	74.21	-1,284.63	1,710.08	464.40	397.61	66.79	6.953		
9,000.00	7,358.68	8,944.39	7,232.43	34.36	35.43	74.25	-1,282.91	1,810.06	465.13	395.56	69.57	6.686		
9,100.00	7,358.81	9,044.39	7,232.71	35.80	36.83	74.29	-1,281.18	1,910.04	465.85	393.47	72.39	6.436		
9,200.00	7,358.95	9,144.38	7,232.99	37.26	38.26	74.34	-1,279.46	2,010.02	466.58	391.34	75.24	6.201		
9,300.00	7,359.09	9,238.17	7,233.25	38.73	39.61	74.39	-1,278.11	2,103.81	467.61	389.44	78.17	5.982		
9,400.00	7,359.23	9,331.48	7,233.51	40.22	40.98	74.50	-1,278.85	2,197.10	470.74	389.61	81.12	5.803		
9,500.00	7,359.36	9,431.41	7,233.78	41.72	42.47	74.64	-1,279.98	2,297.03	474.21	390.14	84.08	5.640		
9,600.00	7,359.50	9,531.34	7,234.06	43.24	43.96	74.77	-1,281.10	2,396.96	477.69	390.64	87.05	5.487		
9,700.00	7,359.64	9,631.28	7,234.34	44.77	45.47	74.90	-1,282.23	2,496.88	481.17	391.12	90.05	5.343		
9,800.00	7,359.77	9,731.21	7,234.61	46.30	46.99	75.03	-1,283.35	2,596.81	484.65	391.58	93.07	5.207		
9,900.00	7,359.91	9,831.14	7,234.89	47.85	48.53	75.15	-1,284.48	2,696.74	488.14	392.03	96.11	5.079		
10,000.00	7,360.05	9,931.08	7,235.17	49.40	50.07	75.28	-1,285.60	2,796.66	491.63	392.46	99.17	4.958		
10,100.00	7,360.18	10,031.01	7,235.44	50.96	51.61	75.40	-1,286.73	2,896.59	495.12	392.88	102.24	4.843		
10,200.00	7,360.32	10,130.94	7,235.72	52.53	53.17	75.52	-1,287.86	2,996.52	498.61	393.29	105.32	4.734		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
10,300.00	7,360.46	10,230.88	7,236.00	54.10	54.73	75.64	-1,288.98	3,096.44	502.10	393.68	108.42	4.631		
10,400.00	7,360.59	10,330.81	7,236.27	55.68	56.30	75.76	-1,290.11	3,196.37	505.60	394.07	111.53	4.533		
10,500.00	7,360.73	10,430.74	7,236.55	57.26	57.87	75.88	-1,291.23	3,296.30	509.10	394.45	114.65	4.440		
10,600.00	7,360.87	10,530.68	7,236.83	58.85	59.45	75.99	-1,292.36	3,396.22	512.60	394.82	117.78	4.352		
10,700.00	7,361.00	10,630.61	7,237.10	60.44	61.04	76.10	-1,293.48	3,496.15	516.10	395.18	120.93	4.268		
10,800.00	7,361.14	10,730.54	7,237.38	62.04	62.63	76.22	-1,294.61	3,596.08	519.61	395.53	124.08	4.188		
10,900.00	7,361.28	10,830.52	7,237.66	63.64	64.22	76.29	-1,295.73	3,696.05	521.39	394.17	127.23	4.098		
11,000.00	7,361.41	10,930.52	7,237.94	65.25	65.82	76.31	-1,296.86	3,796.04	521.55	391.17	130.38	4.000		
11,100.00	7,361.54	11,030.52	7,238.21	66.86	67.42	76.33	-1,297.98	3,896.03	521.71	388.17	133.54	3.907		
11,200.00	7,361.68	11,130.52	7,238.49	68.48	69.03	76.35	-1,299.11	3,996.03	521.86	385.16	136.70	3.818		
11,300.00	7,361.81	11,230.52	7,238.77	70.10	70.64	76.37	-1,300.24	4,096.02	522.02	382.15	139.87	3.732		
11,400.00	7,361.95	11,330.52	7,239.04	71.72	72.25	76.39	-1,301.36	4,196.01	522.18	379.13	143.05	3.650		
11,500.00	7,362.08	11,430.52	7,239.32	73.35	73.86	76.41	-1,302.49	4,296.01	522.34	376.11	146.23	3.572		
11,600.00	7,362.21	11,530.52	7,239.60	74.97	75.48	76.43	-1,303.61	4,396.00	522.49	373.08	149.41	3.497		
11,700.00	7,362.35	11,630.52	7,239.87	76.60	77.10	76.45	-1,304.74	4,495.99	522.65	370.05	152.60	3.425		
11,800.00	7,362.48	11,730.52	7,240.15	78.23	78.72	76.47	-1,305.87	4,595.98	522.81	367.02	155.79	3.356		
11,900.00	7,362.61	11,830.52	7,240.43	79.86	80.34	76.49	-1,306.99	4,695.98	522.96	363.98	158.99	3.289		
12,000.00	7,362.75	11,930.52	7,240.70	81.50	81.97	76.51	-1,308.12	4,795.97	523.12	360.93	162.19	3.225		
12,100.00	7,362.88	12,030.52	7,240.98	83.13	83.59	76.53	-1,309.24	4,895.96	523.28	357.89	165.39	3.164		
12,200.00	7,363.02	12,130.52	7,241.26	84.77	85.22	76.55	-1,310.37	4,995.96	523.44	354.84	168.60	3.105		
12,300.00	7,363.15	12,230.52	7,241.53	86.41	86.85	76.57	-1,311.50	5,095.95	523.59	351.78	171.81	3.047		
12,400.00	7,363.28	12,330.52	7,241.81	88.05	88.49	76.59	-1,312.62	5,195.94	523.75	348.73	175.02	2.992		
12,500.00	7,363.42	12,430.52	7,242.09	89.69	90.12	76.61	-1,313.75	5,295.93	523.91	345.67	178.24	2.939		
12,600.00	7,363.55	12,530.52	7,242.36	91.33	91.76	76.63	-1,314.87	5,395.93	524.07	342.61	181.46	2.888		
12,700.00	7,363.69	12,630.52	7,242.64	92.97	93.39	76.65	-1,316.00	5,495.92	524.23	339.54	184.68	2.839		
12,800.00	7,363.82	12,730.52	7,242.92	94.61	95.03	76.67	-1,317.13	5,595.91	524.38	336.48	187.91	2.791		
12,900.00	7,363.95	12,830.52	7,243.20	96.26	96.67	76.69	-1,318.25	5,695.91	524.54	333.41	191.13	2.744		
13,000.00	7,364.09	12,930.52	7,243.47	97.90	98.31	76.71	-1,319.38	5,795.90	524.70	330.34	194.36	2.700		
13,100.00	7,364.22	13,030.52	7,243.75	99.55	99.95	76.73	-1,320.50	5,895.89	524.86	327.26	197.59	2.656		
13,200.00	7,364.35	13,130.51	7,244.03	101.20	101.59	76.75	-1,321.63	5,995.89	525.02	324.19	200.83	2.614		
13,300.00	7,364.49	13,230.51	7,244.30	102.85	103.24	76.77	-1,322.76	6,095.88	525.17	321.11	204.06	2.574		
13,400.00	7,364.62	13,330.51	7,244.58	104.50	104.88	76.79	-1,323.88	6,195.87	525.33	318.03	207.30	2.534		
13,500.00	7,364.76	13,430.51	7,244.86	106.15	106.52	76.81	-1,325.01	6,295.86	525.49	314.95	210.54	2.496		
13,600.00	7,364.89	13,530.51	7,245.13	107.80	108.17	76.83	-1,326.13	6,395.86	525.65	311.87	213.78	2.459		
13,700.00	7,365.02	13,630.51	7,245.41	109.45	109.82	76.85	-1,327.26	6,495.85	525.81	308.79	217.02	2.423		
13,800.00	7,365.16	13,730.51	7,245.69	111.10	111.46	76.87	-1,328.39	6,595.84	525.97	305.70	220.27	2.388		
13,900.00	7,365.29	13,830.51	7,245.96	112.75	113.11	76.89	-1,329.51	6,695.84	526.13	302.61	223.51	2.354		
14,000.00	7,365.43	13,930.51	7,246.24	114.41	114.76	76.91	-1,330.64	6,795.83	526.28	299.52	226.76	2.321		
14,100.00	7,365.56	14,030.51	7,246.52	116.06	116.41	76.93	-1,331.76	6,895.82	526.44	296.43	230.01	2.289		
14,200.00	7,365.69	14,130.51	7,246.79	117.71	118.06	76.95	-1,332.89	6,995.82	526.60	293.34	233.26	2.258		
14,300.00	7,365.83	14,230.51	7,247.07	119.37	119.71	76.97	-1,334.02	7,095.81	526.76	290.25	236.51	2.227		
14,400.00	7,365.96	14,330.51	7,247.35	121.02	121.36	76.99	-1,335.14	7,195.80	526.92	287.15	239.77	2.198		
14,500.00	7,366.09	14,430.51	7,247.62	122.68	123.02	77.01	-1,336.27	7,295.79	527.08	284.06	243.02	2.169		
14,600.00	7,366.23	14,530.51	7,247.90	124.33	124.67	77.03	-1,337.39	7,395.79	527.24	280.96	246.28	2.141		
14,700.00	7,366.36	14,630.51	7,248.18	125.99	126.32	77.05	-1,338.52	7,495.78	527.40	277.86	249.54	2.114		
14,800.00	7,366.50	14,730.51	7,248.46	127.65	127.97	77.07	-1,339.65	7,595.77	527.56	274.76	252.79	2.087		
14,900.00	7,366.63	14,830.51	7,248.73	129.31	129.63	77.09	-1,340.77	7,695.77	527.72	271.66	256.05	2.061		
15,000.00	7,366.76	14,930.51	7,249.01	130.96	131.28	77.11	-1,341.90	7,795.76	527.88	268.56	259.31	2.036		
15,100.00	7,366.90	15,030.51	7,249.29	132.62	132.94	77.13	-1,343.02	7,895.75	528.04	265.46	262.58	2.011		
15,200.00	7,367.03	15,130.51	7,249.56	134.28	134.59	77.15	-1,344.15	7,995.75	528.19	262.36	265.84	1.987		
15,300.00	7,367.16	15,230.51	7,249.84	135.94	136.25	77.17	-1,345.28	8,095.74	528.35	259.25	269.10	1.963		
15,400.00	7,367.30	15,330.51	7,250.12	137.60	137.91	77.19	-1,346.40	8,195.73	528.51	256.15	272.37	1.940		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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		
15,500.00	7,367.43	15,430.51	7,250.39	139.26	139.56	77.21	-1,347.53	8,295.72	528.67	253.04	275.64	1.918		
15,600.00	7,367.57	15,530.51	7,250.67	140.92	141.22	77.23	-1,348.65	8,395.72	528.83	249.93	278.90	1.896		
15,700.00	7,367.70	15,630.51	7,250.95	142.58	142.88	77.25	-1,349.78	8,495.71	528.99	246.82	282.17	1.875		
15,800.00	7,367.83	15,730.51	7,251.22	144.24	144.54	77.27	-1,350.91	8,595.70	529.15	243.71	285.44	1.854		
15,900.00	7,367.97	15,830.51	7,251.50	145.90	146.19	77.29	-1,352.03	8,695.70	529.31	240.60	288.71	1.833		
16,000.00	7,368.10	15,930.51	7,251.78	147.56	147.85	77.31	-1,353.16	8,795.69	529.47	237.49	291.98	1.813		
16,100.00	7,368.24	16,030.51	7,252.05	149.22	149.51	77.33	-1,354.28	8,895.68	529.63	234.38	295.25	1.794		
16,200.00	7,368.37	16,130.51	7,252.33	150.88	151.17	77.35	-1,355.41	8,995.68	529.79	231.27	298.53	1.775		
16,300.00	7,368.50	16,230.51	7,252.61	152.54	152.83	77.37	-1,356.54	9,095.67	529.95	228.16	301.80	1.756		
16,400.00	7,368.64	16,330.51	7,252.89	154.21	154.49	77.39	-1,357.66	9,195.66	530.11	225.04	305.07	1.738		
16,500.00	7,368.77	16,430.51	7,253.16	155.87	156.15	77.41	-1,358.79	9,295.65	530.27	221.93	308.35	1.720		
16,600.00	7,368.90	16,530.50	7,253.44	157.53	157.81	77.43	-1,359.91	9,395.65	530.43	218.81	311.62	1.702		
16,700.00	7,369.04	16,630.50	7,253.72	159.19	159.47	77.45	-1,361.04	9,495.64	530.60	215.69	314.90	1.685		
16,800.00	7,369.17	16,730.50	7,253.99	160.86	161.13	77.47	-1,362.17	9,595.63	530.76	212.58	318.18	1.668		
16,900.00	7,369.31	16,830.50	7,254.27	162.52	162.79	77.49	-1,363.29	9,695.63	530.92	209.46	321.46	1.652		
17,000.00	7,369.44	16,930.50	7,254.55	164.18	164.45	77.51	-1,364.42	9,795.62	531.08	206.34	324.74	1.635		
17,100.00	7,369.57	17,030.50	7,254.82	165.84	166.11	77.53	-1,365.54	9,895.61	531.24	203.22	328.02	1.620		
17,200.00	7,369.71	17,130.50	7,255.10	167.51	167.78	77.55	-1,366.67	9,995.61	531.40	200.10	331.30	1.604		
17,300.00	7,369.84	17,237.43	7,255.40	169.17	169.55	77.56	-1,367.62	10,102.53	531.36	196.83	334.53	1.588		
17,400.00	7,369.97	17,341.81	7,255.68	170.84	171.28	77.53	-1,366.62	10,206.90	529.47	191.76	337.71	1.568		
17,500.00	7,370.11	17,441.79	7,255.96	172.50	172.94	77.50	-1,365.56	10,306.87	527.50	186.55	340.95	1.547		
17,600.00	7,370.24	17,541.77	7,256.24	174.16	174.60	77.47	-1,364.51	10,406.85	525.53	181.34	344.18	1.527		
17,700.00	7,370.38	17,641.75	7,256.52	175.83	176.26	77.44	-1,363.45	10,506.82	523.56	176.14	347.42	1.507		
17,800.00	7,370.51	17,741.73	7,256.79	177.49	177.91	77.40	-1,362.39	10,606.80	521.59	170.93	350.66	1.487	Level 3	
17,900.00	7,370.64	17,841.71	7,257.07	179.16	179.57	77.37	-1,361.34	10,706.77	519.62	165.73	353.89	1.468	Level 3	
18,000.00	7,370.78	17,941.69	7,257.35	180.82	181.23	77.34	-1,360.28	10,806.75	517.65	160.52	357.12	1.449	Level 3	
18,100.00	7,370.91	18,041.67	7,257.62	182.49	182.89	77.31	-1,359.22	10,906.72	515.68	155.32	360.36	1.431	Level 3	
18,200.00	7,371.05	18,141.65	7,257.90	184.15	184.55	77.27	-1,358.17	11,006.69	513.71	150.12	363.59	1.413	Level 3	
18,300.00	7,371.18	18,241.63	7,258.18	185.82	186.21	77.24	-1,357.11	11,106.67	511.74	144.92	366.82	1.395	Level 3	
18,400.00	7,371.31	18,341.61	7,258.45	187.48	187.87	77.21	-1,356.05	11,206.64	509.77	139.72	370.06	1.378	Level 3	
18,500.00	7,371.45	18,441.59	7,258.73	189.15	189.53	77.17	-1,355.00	11,306.62	507.81	134.52	373.29	1.360	Level 3	
18,600.00	7,371.58	18,541.57	7,259.01	190.82	191.19	77.14	-1,353.94	11,406.59	505.84	129.32	376.52	1.343	Level 3	
18,700.00	7,371.71	18,641.55	7,259.28	192.48	192.85	77.10	-1,352.89	11,506.57	503.87	124.12	379.75	1.327	Level 3	
18,800.00	7,371.85	18,741.53	7,259.56	194.15	194.51	77.07	-1,351.83	11,606.54	501.90	118.93	382.97	1.311	Level 3	
18,900.00	7,371.98	18,841.51	7,259.84	195.81	196.17	77.03	-1,350.77	11,706.51	499.93	113.73	386.20	1.294	Level 3	
19,000.00	7,372.12	18,941.49	7,260.11	197.48	197.83	77.00	-1,349.72	11,806.49	497.97	108.54	389.43	1.279	Level 3	
19,100.00	7,372.25	19,041.47	7,260.39	199.15	199.49	76.96	-1,348.66	11,906.46	496.00	103.34	392.66	1.263	Level 3	
19,200.00	7,372.38	19,141.45	7,260.67	200.81	201.15	76.93	-1,347.60	12,006.44	494.03	98.15	395.88	1.248	Level 2	
19,300.00	7,372.52	19,241.43	7,260.94	202.48	202.81	76.89	-1,346.55	12,106.41	492.06	92.96	399.11	1.233	Level 2	
19,400.00	7,372.65	19,341.41	7,261.22	204.14	204.47	76.85	-1,345.49	12,206.38	490.10	87.77	402.33	1.218	Level 2	
19,500.00	7,372.79	19,441.39	7,261.50	205.81	206.14	76.82	-1,344.44	12,306.36	488.13	82.58	405.55	1.204	Level 2	
19,600.00	7,372.92	19,541.37	7,261.77	207.48	207.80	76.78	-1,343.38	12,406.33	486.16	77.39	408.77	1.189	Level 2	
19,700.00	7,373.05	19,641.35	7,262.05	209.15	209.46	76.74	-1,342.32	12,506.31	484.20	72.20	411.99	1.175	Level 2	
19,800.00	7,373.19	19,741.33	7,262.33	210.81	211.12	76.71	-1,341.27	12,606.28	482.23	67.02	415.21	1.161	Level 2	
19,900.00	7,373.32	19,841.31	7,262.60	212.48	212.78	76.67	-1,340.21	12,706.26	480.27	61.83	418.43	1.148	Level 2	
20,000.00	7,373.45	19,941.29	7,262.88	214.15	214.45	76.63	-1,339.15	12,806.23	478.30	56.65	421.65	1.134	Level 2	
20,100.00	7,373.59	20,041.27	7,263.16	215.81	216.11	76.59	-1,338.10	12,906.20	476.34	51.47	424.87	1.121	Level 2	
20,200.00	7,373.72	20,141.25	7,263.43	217.48	217.77	76.55	-1,337.04	13,006.18	474.37	46.29	428.08	1.108	Level 2	
20,300.00	7,373.86	20,241.23	7,263.71	219.15	219.43	76.51	-1,335.98	13,106.15	472.41	41.11	431.30	1.095	Level 2	
20,400.00	7,373.99	20,341.21	7,263.99	220.82	221.10	76.47	-1,334.93	13,206.13	470.44	35.93	434.51	1.083	Level 2	
20,407.86	7,374.00	20,349.08	7,264.01	220.95	221.23	76.47	-1,334.85	13,213.99	470.29	35.52	434.76	1.082	Level 2, SF	

Hewlett-Packard

Anticollision Report

Company: SRC ENERGY
Project: WELD COUNTY (NAD83, TRUE NORTH)
Reference Site: 5N-66W-29 SANFORD 21-29 PAD
Site Error: 0.00 usft
Reference Well: SANFORD 8C-27-XR
Well Error: 3.28 usft
Reference Wellbore Wellbore #1
Reference Design: Design #1

Local Co-ordinate Reference: Well SANFORD 8C-27-XR
TVD Reference: RKB = 4' @ 4909.00usft (RIG)
MD Reference: RKB = 4' @ 4909.00usft (RIG)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.45 sigma
Database: EDM 5000.14 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to RKB = 4' @ 4909.00usft (RIG)

Offset Depths are relative to Offset Datum

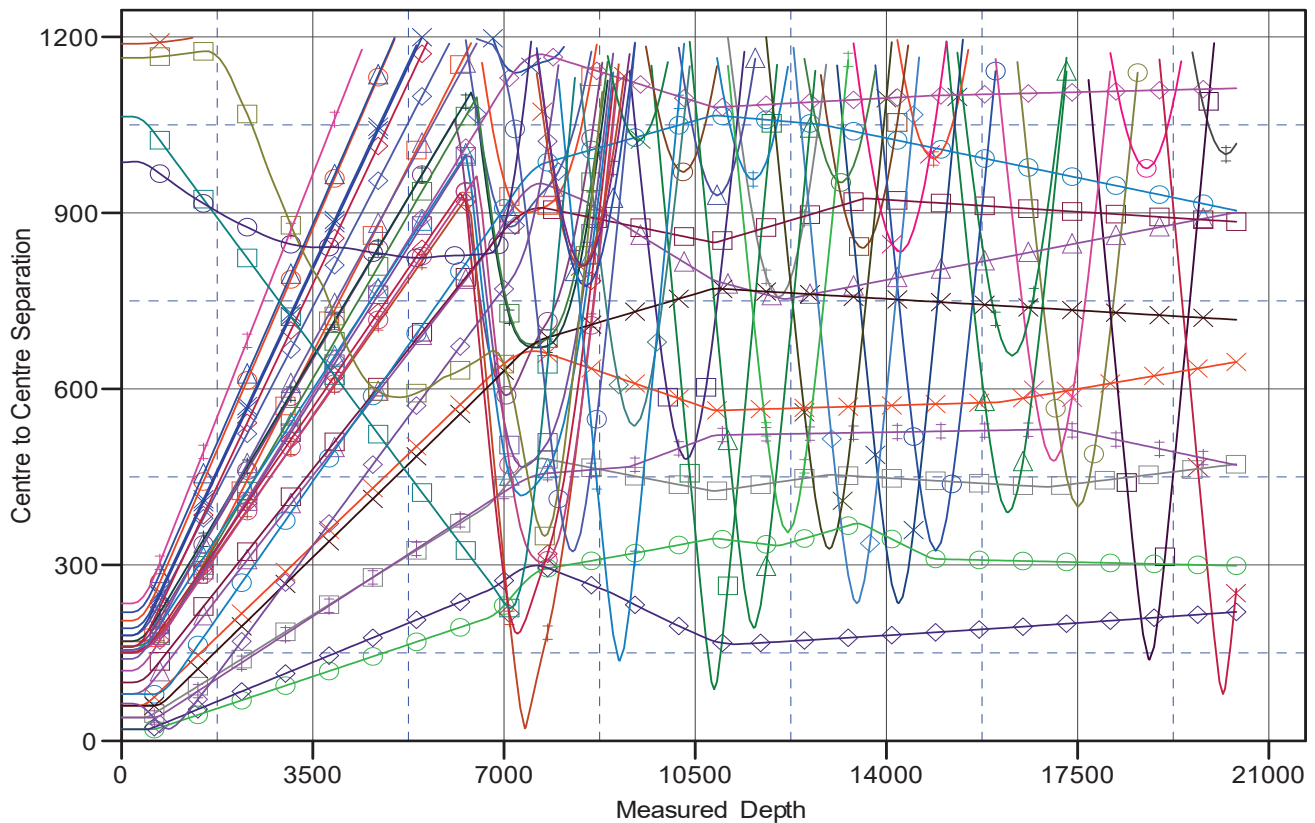
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 8C-27-XR

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

- | | | |
|---|---|--|
| UPRC 27-6C, Noble P&A Well, Actual VES Surveys V0 | WIEDEMANJ 28-21D, Noble SI Well, Actual Ensign Surveys V0 | SANFORD 5C-30-M, Wellbore #1, Design #1 V0 |
| UPV 27-1H6 Noble P&A Well, Actual Sperry Surveys V0 | IGOFARMSJ 28-19D, Noble SI Well, Actual Ensign Surveys V0 | SANFORD 1C-27-XR, Wellbore #1, Design #1 V0 |
| UPV 27-7H6 Noble PR Well, Actual VES Surveys V0 | COLTRANEGO 1, Noble SI Well, No Surveys V0 | SANFORD 30N-30A-M, Wellbore #1, Design #1 V0 |
| GRACIE J 27-19X, Noble SI Well, Actual Multishot Surveys V0 | SANFORD 32N-30B-M, Wellbore #1, Design #1 V0 | SANFORD 31N-30B-M, Wellbore #1, Design #1 V0 |
| UPRC 27-5C Noble T/A Well, Actual VES Surveys V0 | SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0 | SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0 |
| UPV 27-2H6 Noble PR Well, Actual VES Surveys V0 | SANFORD 4N-30A-M, Wellbore #1, Design #1 V0 | SANFORD 28C-27-XR, Wellbore #1, Design #1 V0 |
| UPV 27-6H6 Noble P&A Well, Actual VES Surveys V0 | SANFORD 4C-30-M, Wellbore #1, Design #1 V0 | SANFORD 42N-27B-XR, Wellbore #1, Design #1 V0 |
| UPRC 27-4C Noble SI Well, Actual BHI Tiff Surveys V0 | SANFORD 4N-30B-M, Wellbore #1, Design #1 V0 | SANFORD 26N-27C-XR, Wellbore #1, Design #1 V0 |
| IGO 28-3H6 Noble SI Well, No Surveys V0 | SANFORD 32N-30C-M, Wellbore #1, Design #1 V0 | SANFORD 30C-30-M, Wellbore #1, Design #1 V0 |
| COLTRANEPM J28-5, Noble SI Well, No Surveys V0 | SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0 | UPRC 29-8C, Noble SI Well, No Surveys V0 |
| IGOFARMSJ 28-20D, Noble PR Well, Actual Ensign Surveys V0 | SANFORD 4N-30C-M, Wellbore #1, Design #1 V0 | UPRC 29-7C, Noble T/A Well, No Surveys V0 |
| IGOFARMSJ 28-31D, Noble PR Well, Actual Ensign Surveys V0 | SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0 | KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0 |
| WIEDEMAN28-1H6, Noble SI Well, No Surveys V0 | SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0 | UPV 29-1H6 Noble PR Well, No Surveys V0 |
| WIEDEMANPM J28-2, Noble SI Well, No Surveys V0 | SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0 | BENSLEY J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0 |
| WIEDEMAN 1, Noble SI Well, No Surveys V0 | SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0 | UPV 29-2H6 Noble SI Well, No Surveys V0 |
| IGOFARMSJ 28-32D, Noble PR Well, Actual Ensign Surveys V0 | SANFORD 31N-30C-M, Wellbore #1, Design #1 V0 | BENSLEY J29-18D, Noble SI Well, Actual Ensign Surveys V0 |
| WIEDEMANJ 28-22D, Noble SI Well, Actual Ensign Surveys V0 | SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0 | BENSLEY J29-17D, Noble PR Well, Actual Ensign Surveys V0 |
| COLTRANEPM J 28-4, Noble PR Well, No Surveys V0 | SANFORD 8N-30C-M, Wellbore #1, Design #1 V0 | BENSLEY J29-4H6, Noble SI Well, No Surveys V0 |
| WIEDEMANJ 28-17, Noble SI Well, No Surveys V0 | SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0 | KAMMERZELL J29-19, Noble SI Well, Actual Confrtech Gnos V0 |
| WIEDEMANPM J28-7, Noble SI Well, No Surveys V0 | SANFORD 30N-30B-M, Wellbore #1, Design #1 V0 | BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0 |
| WIEDEMANJ 28-18D, Noble SI Well, Actual Ensign Surveys V0 | SANFORD 5N-30B-M, Wellbore #1, Design #1 V0 | |

Hewlett-Packard

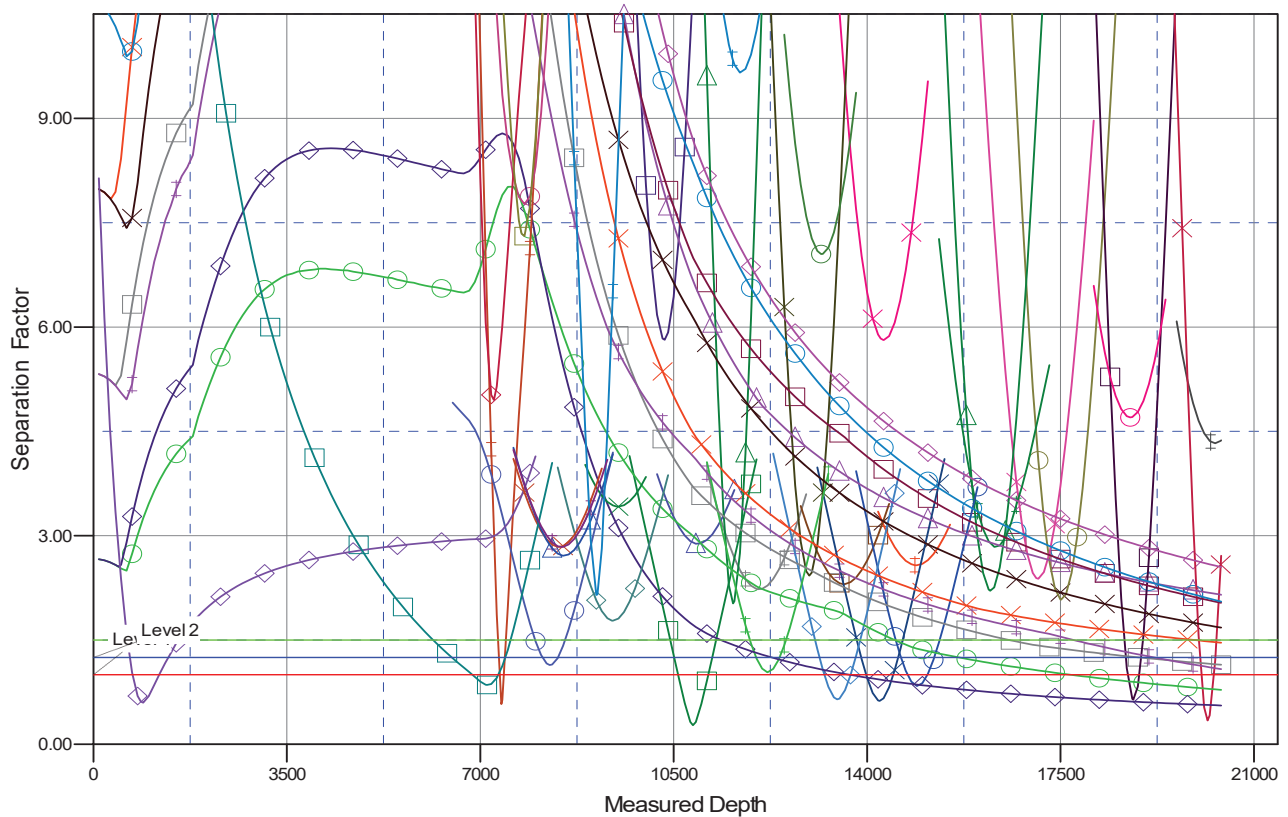
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 8C-27-XR
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 8C-27-XR	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' @ 4909.00usft (RIG)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 8C-27-XR
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

- | | | |
|---|--|---|
| UPRC 27-6C Noble P&A Well, Actual VES Surveys V0 | WIEDEMANJ 28-21D, Noble SI Well, Actual Ensign Surveys V0 | SANFORD5C-30-M, Wellbore #1, Design #1 V0 |
| UPV 27-1H6 Noble P&A Well, Actual Sperry Surveys V0 | IGO FARMSJ 28-19D, Noble SI Well, Actual Ensign Surveys V0 | SANFORD 1C-27-XR, Wellbore #1, Design #1 V0 |
| UPV 27-7H6 Noble PR Well, Actual VES Surveys V0 | COLTRANEIGO 1, Noble SI Well, No Surveys V0 | SANFORD30N-30A-M, Wellbore #1, Design #1 V0 |
| GRACIE J 27-19K, Noble SI Well, Actual Multishot Surveys V0 | SANF ORD 32N-30B-M, Wellbore #1, Design #1 V0 | SANFORD31N-30B-M, Wellbore #1, Design #1 V0 |
| UPRC 27-6C Noble T/A Well, Actual VES Surveys V0 | SANF ORD 1N-27A-XR, Wellbore #1, Design #1 V0 | SANFORD40N-27C-XR, Wellbore #1, Design #1 V0 |
| UPV 27-2H6 Noble PR Well, Actual VES Surveys V0 | SANF ORD 4N-30A-M, Wellbore #1, Design #1 V0 | SANF ORD 26C-27-XR, Wellbore #1, Design #1 V0 |
| UPV 27-8H6 Noble P&A Well, Actual VES Surveys V0 | SANF ORD 4C-30-M, Wellbore #1, Design #1 V0 | SANFORD40N-27B-XR, Wellbore #1, Design #1 V0 |
| UPRC 27-4C Noble SI Well, Actual BHI Tiff Surveys V0 | SANF ORD 4N-30B-M, Wellbore #1, Design #1 V0 | SANFORD 26N-27C-XR, Wellbore #1, Design #1 V0 |
| IGO 28-3H6 Noble SI Well, No Surveys V0 | SANF ORD 32N-30C-M, Wellbore #1, Design #1 V0 | SANFORD30C-30-M, Wellbore #1, Design #1 V0 |
| COLTRANEPM J28-5, Noble SI Well, No Surveys V0 | SANF ORD 8N-27B-XR, Wellbore #1, Design #1 V0 | UPRC 29-8C, Noble SI Well, No Surveys V0 |
| IGO FARMSJ 28-20D, Noble PR Well, Actual Ensign Surveys V0 | SANF ORD 4N-30C-M, Wellbore #1, Design #1 V0 | UPRC 29-7C, Noble T/A Well, No Surveys V0 |
| IGO FARMSJ 28-31D, Noble PR Well, Actual Ensign Surveys V0 | SANF ORD 1N-27B-XR, Wellbore #1, Design #1 V0 | KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0 |
| WIEDEMANJ 28-17H, Noble SI Well, No Surveys V0 | SANF ORD 26N-27A-XR, Wellbore #1, Design #1 V0 | UPV 29-1H6, Noble PR Well, No Surveys V0 |
| WIEDEMANPM J28-2, Noble SI Well, No Surveys V0 | SANF ORD 1N-27C-XR, Wellbore #1, Design #1 V0 | BENSLEJ 29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0 |
| WIEDEMAN1, Noble SI Well, No Surveys V0 | SANF ORD 41N-27C-XR, Wellbore #1, Design #1 V0 | UPV 29-2H6 Noble SI Well, No Surveys V0 |
| IGO FARMSJ 28-32D, Noble PR Well, Actual Ensign Surveys V0 | SANF ORD 31N-30C-M, Wellbore #1, Design #1 V0 | BENSLEJ 29-18D, Noble SI Well, Actual Ensign Surveys V0 |
| COLTRANEPM J 28-4, Noble PR Well, No Surveys V0 | SANF ORD 41N-27B-XR, Wellbore #1, Design #1 V0 | BENSLEJ 29-17D, Noble PR Well, Actual Ensign Surveys V0 |
| WIEDEMANJ 28-7, Noble SI Well, No Surveys V0 | SANF ORD 5N-30C-M, Wellbore #1, Design #1 V0 | KAMMERZELL 29-4H6, Noble SI Well, No Surveys V0 |
| WIEDEMANPM J28-7, Noble SI Well, No Surveys V0 | SANF ORD 8N-27C-XR, Wellbore #1, Design #1 V0 | KAMMERZELL J 29-19, Noble SI Well, Actual Conelch Gyros V0 |
| WIEDEMANJ 28-18D, Noble SI Well, Actual Ensign Surveys V0 | SANF ORD 3N-30B-M, Wellbore #1, Design #1 V0 | BENSLEJ 29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0 |
| | SANF ORD 5N-30B-M, Wellbore #1, Design #1 V0 | |