

SRC ENERGY

**WELD COUNTY (NAD83, TRUE NORTH)
5N-66W-29 SANFORD 21-29 PAD
SANFORD 4N-30C-M**

**Wellbore #1
Design #1**

Anticollision Report

25 October, 2018

Hewlett-Packard

Anticollision Report

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

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

Survey Tool Program	Date	10/25/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,800.00	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:crustal field declination	
1,800.00	15,468.95	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-19 Offsets Incomplete						
KORI J 19-13 - Noble SI Well - No Surveys	14,765.22	7,368.64	971.78	586.39	2.522	CC, ES
KORI J 19-13 - Noble SI Well - No Surveys	14,800.00	7,368.66	972.40	586.48	2.520	SF
5N-66W-20 Offsets Incomplete						
HSR-WIEDEMAN 14-20 - Noble SI Well - No Surveys	8,076.24	7,265.22	1,060.81	783.29	3.822	CC, ES
HSR-WIEDEMAN 14-20 - Noble SI Well - No Surveys	8,100.00	7,265.23	1,061.08	783.31	3.820	SF
5N-66W-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,085.53	1,948.77	1,041.52	1,018.83	45.899	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,400.00	2,210.17	1,050.87	1,027.87	45.685	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	3,449.38	3,454.15	578.67	549.41	19.778	CC, ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,500.00	7,312.70	804.72	758.68	17.478	SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,643.39	6,583.22	406.98	159.16	1.642	CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,700.00	6,639.78	408.62	158.69	1.635	ES, SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,646.20	6,586.02	438.10	190.27	1.768	CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,700.00	6,639.78	439.73	189.90	1.760	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	200.00	201.00	250.35	239.97	24.135	CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	7,971.10	7,247.16	341.57	65.67	1.238	Level 2, ES, SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys						Out of range
KAMMERZELL 29-5 - XOG PR Well - No Surveys	9,704.31	7,255.05	165.55	-133.59	0.553	Level 1, CC, ES, SF
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	200.00	207.00	1,195.49	1,184.94	113.266	CC
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	400.00	407.16	1,197.69	1,180.41	69.320	ES, SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,794.99	7,277.81	867.13	817.88	17.605	CC
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,800.00	7,277.60	867.15	817.83	17.583	ES
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,900.00	7,273.37	873.46	823.04	17.324	SF
UPRC 29-7C - Noble T/A Well - No Surveys						Out of range
UPRC 29-8C - Noble SI Well - No Surveys						Out of range
UPV 29-1H6 - Noble PR Well - No Surveys						Out of range
UPV 29-2H6 - Noble SI Well - No Surveys	6,646.52	6,573.34	492.30	244.71	1.988	CC
UPV 29-2H6 - Noble SI Well - No Surveys	6,700.00	6,626.78	493.93	244.35	1.979	ES, SF

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Anticollision Report

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

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-29 SANFORD 21-29 PAD						
SANFORD 1C-27-XR - Wellbore #1 - Design #1	200.00	201.00	151.37	143.80	19.985	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	7,720.18	7,340.99	242.14	202.68	6.137	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	155.34	147.77	20.509	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	7,100.00	7,609.29	253.09	216.01	6.827	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	7,348.84	7,542.96	8.28	-27.77	0.230	Level 1, CC, ES, SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	161.51	153.94	21.324	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	7,800.00	7,272.97	481.76	446.47	13.654	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	161.61	154.04	21.337	CC, ES
SANFORD 26C-27-XR - Wellbore #1 - Design #1	7,757.81	7,310.23	408.05	367.71	10.115	SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	155.42	147.84	20.519	CC, ES
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	7,139.42	7,582.10	367.51	330.11	9.827	SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	151.36	143.79	19.984	CC
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	7,500.00	7,469.73	175.01	133.61	4.227	ES, SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.291	CC
SANFORD 30C-30-M - Wellbore #1 - Design #1	15,468.95	15,589.32	233.64	-3.02	0.987	Level 1, ES, SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.47	2.646	CC, ES
SANFORD 30N-30A-M - Wellbore #1 - Design #1	15,468.95	15,253.86	238.55	30.40	1.146	Level 2, SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	60.12	52.54	7.937	CC, ES
SANFORD 30N-30B-M - Wellbore #1 - Design #1	15,468.95	15,410.03	386.46	113.69	1.417	Level 3, SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	200.00	100.18	92.60	13.227	CC, ES
SANFORD 31N-30B-M - Wellbore #1 - Design #1	15,468.95	15,410.68	941.72	667.62	3.436	SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	200.00	80.14	72.57	10.581	CC, ES
SANFORD 31N-30C-M - Wellbore #1 - Design #1	15,468.95	15,473.70	720.18	445.50	2.622	SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	200.00	200.00	199.99	192.42	26.406	CC, ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	300.00	297.04	200.68	193.02	26.208	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	179.96	172.39	23.761	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	300.00	294.77	181.72	174.06	23.744	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	234.51	226.94	30.962	CC, ES, SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	250.14	242.57	33.026	CC, ES, SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	170.07	162.50	22.454	CC, ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	7,200.00	7,675.47	705.86	669.24	19.277	SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	180.23	172.66	23.795	CC, ES, SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.290	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	15,468.95	15,584.99	488.58	219.28	1.814	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	60.10	52.53	7.935	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	15,468.95	15,273.23	560.01	298.60	2.142	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	20.03	12.45	2.644	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	15,468.95	15,389.68	351.96	81.63	1.302	Level 3, SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	139.89	132.32	18.470	CC, ES, SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	200.00	159.92	152.35	21.115	CC, ES, SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	119.85	112.28	15.824	CC, ES
SANFORD 5N-30C-M - Wellbore #1 - Design #1	15,468.95	15,507.57	1,159.26	884.52	4.219	SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.00	201.00	192.17	184.59	25.371	CC, ES, SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	205.17	197.59	27.088	CC, ES, SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	219.42	211.84	28.969	CC, ES, SF

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

Summary							
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Between Ellipses (usft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design							
5N-66W-30 Offsets Incomplete							
HOMYAK 1 - XOG PR Well - No Surveys	12,232.12	7,312.34	182.07	-159.58	0.533	Level 1, CC, ES, SF	
HOMYAK 2 - XOG SI Well - No Surveys						Out of range	
LUNDVALL 3 - Noble PR Well - No Surveys						Out of range	
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range	
LUNDVALL 4 - Noble PR Well - No Surveys	13,535.21	7,337.01	148.75	-215.19	0.409	Level 1, CC, ES, SF	
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,199.94	7,460.97	834.53	677.41	5.311	CC	
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,200.00	7,460.97	834.53	677.41	5.311	ES	
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,300.00	7,461.84	840.51	682.08	5.305	SF	
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys						Out of range	
MOSSBERG-PM J30-9 - Noble PR Well - No Surveys						Out of range	
RICKS-PM J30-12 - Noble PR Well - No Surveys						Out of range	
STEVE J 30-4J - Noble PR Well - Actual Multishot Survey						Out of range	
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey						Out of range	

Offset Design													5N-66W-19 Offsets Incomplete - KORJ J 19-13 - 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						
14,100.00	7,251.30	7,368.30	7,368.30	114.47	259.33	89.98	1,143.78	-6,966.58	1,177.65	823.15	354.50	3.322						
14,200.00	7,251.35	7,368.35	7,368.35	116.12	259.33	89.98	1,143.78	-6,966.58	1,124.20	763.88	360.32	3.120						
14,300.00	7,251.40	7,368.40	7,368.40	117.78	259.33	89.99	1,143.78	-6,966.58	1,077.40	711.31	366.09	2.943						
14,400.00	7,251.45	7,368.45	7,368.45	119.43	259.33	89.99	1,143.78	-6,966.58	1,038.14	666.54	371.60	2.794						
14,500.00	7,251.50	7,368.50	7,368.50	121.08	259.33	89.99	1,143.78	-6,966.58	1,007.32	630.72	376.60	2.675						
14,600.00	7,251.56	7,368.56	7,368.56	122.74	259.33	90.00	1,143.78	-6,966.58	985.72	604.92	380.81	2.589						
14,700.00	7,251.61	7,368.61	7,368.61	124.40	259.34	90.00	1,143.78	-6,966.58	973.97	589.99	383.98	2.537						
14,765.22	7,251.64	7,368.64	7,368.64	125.47	259.34	90.00	1,143.78	-6,966.58	971.78	586.39	385.39	2.522	CC, ES					
14,800.00	7,251.66	7,368.66	7,368.66	126.05	259.34	90.00	1,143.78	-6,966.58	972.40	586.48	385.92	2.520	SF					
14,900.00	7,251.71	7,368.71	7,368.71	127.71	259.34	90.00	1,143.78	-6,966.58	981.08	594.50	386.58	2.538						
15,000.00	7,251.76	7,368.76	7,368.76	129.36	259.34	90.01	1,143.78	-6,966.58	999.74	613.75	385.99	2.590						
15,100.00	7,251.81	7,368.81	7,368.81	131.02	259.34	90.01	1,143.78	-6,966.58	1,027.83	643.53	384.30	2.675						
15,200.00	7,251.86	7,368.86	7,368.86	132.68	259.35	90.01	1,143.78	-6,966.58	1,064.61	682.87	381.74	2.789						
15,300.00	7,251.91	7,368.91	7,368.91	134.34	259.35	90.02	1,143.78	-6,966.58	1,109.21	730.67	378.54	2.930						
15,400.00	7,251.96	7,368.96	7,368.96	135.99	259.35	90.02	1,143.78	-6,966.58	1,160.73	785.81	374.92	3.096						
15,468.95	7,252.00	7,369.00	7,369.00	137.14	259.35	90.02	1,143.78	-6,966.58	1,199.83	827.54	372.29	3.223						

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Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,600.00	7,245.11	7,262.11	7,262.11	17.83	255.56	87.54	1,222.95	-277.48	1,162.83	889.38	273.45	4.252	
7,700.00	7,248.02	7,265.02	7,265.02	18.33	255.67	89.99	1,222.95	-277.48	1,125.56	851.44	274.11	4.106	
7,800.00	7,248.07	7,265.07	7,265.07	18.96	255.67	89.99	1,222.95	-277.48	1,096.19	821.34	274.85	3.988	
7,900.00	7,248.13	7,265.13	7,265.13	19.71	255.67	90.00	1,222.95	-277.48	1,075.35	799.62	275.73	3.900	
8,000.00	7,248.18	7,265.18	7,265.18	20.57	255.67	90.00	1,222.95	-277.48	1,063.55	786.83	276.72	3.843	
8,076.24	7,248.22	7,265.22	7,265.22	21.29	255.67	90.00	1,222.95	-277.48	1,060.81	783.29	277.52	3.822 CC, ES	
8,100.00	7,248.23	7,265.23	7,265.23	21.52	255.67	90.00	1,222.95	-277.48	1,061.08	783.31	277.76	3.820 SF	
8,200.00	7,248.28	7,265.28	7,265.28	22.56	255.68	90.00	1,222.95	-277.48	1,068.01	789.20	278.80	3.831	
8,300.00	7,248.33	7,265.33	7,265.33	23.67	255.68	90.01	1,222.95	-277.48	1,084.16	804.36	279.79	3.875	
8,400.00	7,248.38	7,265.38	7,265.38	24.84	255.68	90.01	1,222.95	-277.48	1,109.12	828.43	280.69	3.951	
8,500.00	7,248.43	7,265.43	7,265.43	26.07	255.68	90.01	1,222.95	-277.48	1,142.32	860.85	281.47	4.058	
8,600.00	7,248.48	7,265.48	7,265.48	27.35	255.68	90.01	1,222.95	-277.48	1,183.07	900.94	282.13	4.193	

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Anticollision Report

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

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-17D - Noble PR Well - Actual En												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
500.00	499.45	488.59	488.59	3.51	14.99	18.58	-161.69	1,203.04	1,198.97	1,179.68	19.29	62.168	
600.00	598.73	586.25	586.25	3.62	15.49	18.80	-161.55	1,203.09	1,187.69	1,167.79	19.90	59.696	
700.00	697.94	683.06	683.06	3.77	15.49	18.99	-161.48	1,203.33	1,175.98	1,155.95	20.03	58.722	
800.00	797.14	781.03	781.03	3.94	15.50	19.19	-161.48	1,203.71	1,164.44	1,144.26	20.18	57.694	
900.00	896.34	880.04	880.04	4.13	15.52	19.39	-161.56	1,204.18	1,153.02	1,132.66	20.36	56.635	
1,000.00	995.55	982.61	982.60	4.33	15.54	19.62	-161.78	1,204.47	1,141.44	1,120.88	20.56	55.531	
1,100.00	1,094.75	1,083.44	1,083.44	4.55	15.56	19.85	-162.09	1,204.49	1,129.63	1,108.86	20.77	54.395	
1,200.00	1,193.95	1,182.91	1,182.90	4.79	15.59	20.08	-162.23	1,204.49	1,117.79	1,096.80	20.99	53.245	
1,300.00	1,293.15	1,277.19	1,277.19	5.04	15.61	20.31	-162.64	1,204.59	1,106.14	1,084.90	21.23	52.096	
1,400.00	1,392.36	1,375.25	1,375.19	5.29	15.65	20.69	-165.60	1,204.60	1,094.84	1,073.35	21.49	50.953	
1,500.00	1,491.56	1,463.05	1,462.77	5.56	15.69	21.22	-171.83	1,204.49	1,084.18	1,062.43	21.75	49.845	
1,600.00	1,590.76	1,561.67	1,560.98	5.83	15.74	21.94	-180.82	1,204.65	1,074.33	1,052.29	22.04	48.753	
1,700.00	1,689.96	1,665.59	1,664.12	6.11	15.80	22.87	-193.26	1,203.22	1,063.72	1,041.38	22.34	47.611	
1,800.00	1,789.17	1,746.34	1,743.93	6.39	15.86	23.75	-205.56	1,202.37	1,054.45	1,031.80	22.64	46.567	
1,900.00	1,888.37	1,823.17	1,819.68	6.54	15.92	24.64	-218.38	1,202.55	1,047.17	1,024.55	22.62	46.300	
2,000.00	1,987.57	1,884.00	1,879.66	6.57	15.98	25.33	-228.40	1,204.22	1,042.79	1,020.15	22.64	46.058	
2,085.53	2,072.42	1,948.77	1,943.49	6.61	16.04	26.02	-238.75	1,207.88	1,041.52	1,018.83	22.69	45.899 CC, ES	
2,100.00	2,086.77	1,958.42	1,952.98	6.61	16.05	26.12	-240.27	1,208.60	1,041.55	1,018.86	22.69	45.894	
2,200.00	2,185.98	2,039.47	2,032.82	6.67	16.13	26.88	-252.18	1,215.94	1,043.12	1,020.35	22.77	45.804	
2,300.00	2,285.18	2,125.35	2,117.44	6.74	16.22	27.60	-263.40	1,225.32	1,046.27	1,023.39	22.88	45.728	
2,400.00	2,384.38	2,210.17	2,200.83	6.83	16.33	28.32	-275.16	1,235.47	1,050.87	1,027.87	23.00	45.685 SF	
2,500.00	2,483.59	2,285.03	2,274.13	6.92	16.45	28.99	-286.64	1,245.36	1,057.40	1,034.30	23.10	45.776	
2,600.00	2,582.79	2,366.73	2,353.82	7.03	16.58	29.70	-299.65	1,257.87	1,066.30	1,043.06	23.23	45.894	
2,700.00	2,681.99	2,461.81	2,446.44	7.15	16.75	30.50	-314.50	1,273.39	1,076.30	1,052.86	23.44	45.912	
2,800.00	2,781.19	2,539.60	2,522.02	7.29	16.90	31.18	-327.71	1,286.23	1,087.28	1,063.69	23.59	46.097	
2,900.00	2,880.40	2,627.14	2,606.58	7.43	17.10	31.98	-343.93	1,301.96	1,100.37	1,076.57	23.80	46.241	
3,000.00	2,979.60	2,711.32	2,687.72	7.58	17.32	32.78	-360.44	1,317.16	1,114.33	1,090.32	24.00	46.422	
3,100.00	3,078.80	2,796.71	2,769.61	7.74	17.57	33.61	-378.44	1,333.31	1,129.93	1,105.70	24.24	46.619	
3,200.00	3,178.00	2,890.37	2,859.26	7.91	17.86	34.52	-398.69	1,351.38	1,146.45	1,121.92	24.53	46.739	
3,300.00	3,277.21	3,015.41	2,979.35	8.09	18.23	35.67	-424.75	1,374.42	1,162.13	1,137.13	25.00	46.488	
3,400.00	3,376.41	3,109.40	3,069.86	8.28	18.53	36.52	-444.01	1,390.90	1,177.12	1,151.81	25.31	46.506	
3,500.00	3,475.61	3,223.50	3,179.86	8.48	18.91	37.49	-466.78	1,410.87	1,192.17	1,166.43	25.74	46.319	

Hewlett-Packard

Anticollision Report

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

Offset Design											5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLEJ 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	99.24	-165.00	1,014.14	1,027.54							
100.00	100.00	89.00	89.00	3.28	3.56	99.24	-165.00	1,014.14	1,027.48	1,019.85	7.63	134.670				
200.00	200.00	189.00	189.00	3.31	5.73	99.24	-165.00	1,014.14	1,027.48	1,017.66	9.82	104.590				
300.00	299.98	288.98	288.98	3.35	8.87	19.89	-165.00	1,014.14	1,025.84	1,012.83	13.01	78.872				
400.00	399.84	388.84	388.84	3.42	12.22	20.02	-165.00	1,014.14	1,020.92	1,004.49	16.43	62.138				
500.00	499.45	488.59	488.59	3.51	14.99	20.24	-164.98	1,014.15	1,012.73	993.44	19.29	52.512				
600.00	598.73	588.13	588.13	3.62	16.12	20.51	-164.73	1,014.16	1,001.50	980.97	20.54	48.769				
700.00	697.94	687.36	687.36	3.77	16.13	20.77	-164.81	1,014.10	989.65	968.99	20.67	47.887				
800.00	797.14	786.31	786.31	3.94	16.14	21.05	-165.04	1,014.03	977.84	957.02	20.82	46.961				
900.00	896.34	885.43	885.42	4.13	16.15	21.32	-165.11	1,014.01	966.07	945.07	21.00	46.009				
1,000.00	995.55	984.89	984.89	4.33	16.17	21.62	-165.41	1,013.93	954.31	933.11	21.19	45.029				
1,100.00	1,094.75	1,084.59	1,084.59	4.55	16.20	21.94	-166.04	1,013.75	942.53	921.13	21.41	44.032				
1,200.00	1,193.95	1,184.48	1,184.47	4.79	16.22	22.27	-166.69	1,013.49	930.72	909.09	21.63	43.024				
1,300.00	1,293.15	1,283.41	1,283.40	5.04	16.25	22.62	-167.42	1,013.18	918.90	897.03	21.88	42.006				
1,400.00	1,392.36	1,382.82	1,382.80	5.29	16.29	22.99	-168.46	1,012.84	907.16	885.03	22.13	40.992				
1,500.00	1,491.56	1,487.51	1,487.48	5.56	16.33	23.41	-169.65	1,012.08	895.09	872.69	22.40	39.959				
1,600.00	1,590.76	1,602.80	1,602.74	5.83	16.38	23.92	-171.24	1,010.04	882.17	859.49	22.68	38.898				
1,700.00	1,689.96	1,729.28	1,728.97	6.11	16.45	24.74	-175.64	1,003.55	866.51	843.55	22.96	37.744				
1,800.00	1,789.17	1,845.80	1,844.83	6.39	16.52	25.83	-183.24	993.92	848.80	825.56	23.25	36.512				
1,900.00	1,888.37	1,971.12	1,968.95	6.54	16.62	27.18	-192.03	979.11	827.99	804.79	23.20	35.688				
2,000.00	1,987.57	2,080.12	2,076.17	6.57	16.72	28.72	-202.70	962.67	805.24	781.94	23.30	34.566				
2,100.00	2,086.77	2,199.27	2,192.47	6.61	16.87	30.81	-217.27	941.31	781.16	757.76	23.40	33.377				
2,200.00	2,185.98	2,305.06	2,294.63	6.67	17.05	33.05	-232.32	918.32	754.89	731.30	23.59	32.000				
2,300.00	2,285.18	2,380.60	2,367.18	6.74	17.19	34.91	-244.99	901.57	730.15	706.26	23.88	30.569				
2,400.00	2,384.38	2,463.01	2,446.31	6.83	17.34	37.12	-260.47	884.49	708.62	684.44	24.18	29.306				
2,500.00	2,483.59	2,563.95	2,543.13	6.92	17.55	40.00	-279.79	863.53	688.75	664.25	24.50	28.108				
2,600.00	2,582.79	2,671.01	2,645.65	7.03	17.81	43.22	-299.25	839.62	668.84	643.96	24.88	26.887				
2,700.00	2,681.99	2,776.84	2,746.18	7.15	18.12	46.76	-318.43	812.71	648.26	622.95	25.32	25.603				
2,800.00	2,781.19	2,868.46	2,832.80	7.29	18.42	50.09	-335.33	788.11	629.04	603.22	25.82	24.361				
2,900.00	2,880.40	2,952.42	2,912.46	7.43	18.68	53.22	-350.32	766.22	612.51	586.19	26.32	23.271				
3,000.00	2,979.60	3,029.46	2,986.12	7.58	18.93	56.05	-363.83	748.15	600.05	573.25	26.80	22.388				
3,100.00	3,078.80	3,110.37	3,063.33	7.74	19.21	59.15	-380.08	730.28	592.59	565.30	27.30	21.707				
3,200.00	3,178.00	3,216.00	3,163.80	7.91	19.62	63.39	-401.52	705.70	587.42	559.50	27.92	21.040				
3,300.00	3,277.21	3,323.08	3,266.20	8.09	20.02	67.59	-419.68	680.25	582.27	553.75	28.52	20.414				
3,400.00	3,376.41	3,409.79	3,349.59	8.28	20.33	70.88	-432.89	660.50	578.99	549.97	29.02	19.951				
3,449.38	3,425.40	3,454.15	3,392.47	8.38	20.49	72.50	-439.59	651.30	578.67	549.41	29.26	19.778 CC, ES				
3,500.00	3,475.61	3,501.17	3,438.06	8.48	20.65	74.16	-446.46	642.07	578.97	549.47	29.50	19.625				
3,600.00	3,574.82	3,593.41	3,527.64	8.68	20.99	77.35	-459.79	624.57	581.29	551.31	29.97	19.393				
3,700.00	3,674.02	3,697.64	3,629.56	8.88	21.33	80.64	-472.84	607.23	584.66	554.19	30.47	19.191				
3,800.00	3,773.22	3,787.71	3,718.06	9.10	21.62	83.23	-483.46	594.30	589.72	558.86	30.86	19.111				
3,900.00	3,872.42	3,880.38	3,808.41	9.32	21.97	86.19	-495.42	577.57	596.49	565.21	31.28	19.066				
4,000.00	3,971.63	3,965.38	3,890.08	9.54	22.35	89.27	-508.43	557.96	606.51	574.84	31.67	19.148				
4,100.00	4,070.83	4,052.37	3,973.22	9.77	22.78	92.46	-522.35	536.48	619.35	587.29	32.06	19.317				
4,200.00	4,170.03	4,136.34	4,053.11	10.00	23.21	95.48	-537.17	515.29	636.01	603.62	32.39	19.634				
4,300.00	4,269.23	4,243.90	4,155.72	10.24	23.74	99.11	-555.24	488.61	654.19	621.30	32.88	19.893				
4,400.00	4,368.44	4,375.49	4,283.05	10.48	24.31	102.96	-572.03	460.09	670.42	636.93	33.49	20.019				
4,500.00	4,467.64	4,453.08	4,358.60	10.72	24.63	104.99	-581.07	444.93	686.75	653.02	33.72	20.364				
4,600.00	4,566.84	4,581.15	4,484.20	10.97	25.10	107.91	-593.81	423.53	702.35	668.12	34.23	20.516				
4,700.00	4,666.05	4,690.26	4,592.21	11.22	25.43	109.91	-601.96	410.53	715.81	681.21	34.60	20.686				
4,800.00	4,765.25	4,809.01	4,710.34	11.47	25.72	111.69	-608.97	400.72	727.72	692.73	34.98	20.801				
4,900.00	4,864.45	4,908.76	4,809.78	11.73	25.93	113.01	-613.47	394.32	738.35	703.06	35.30	20.919				
5,000.00	4,963.65	5,006.49	4,907.27	11.99	26.13	114.15	-618.60	389.64	749.67	714.07	35.60	21.057				

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,062.86	5,110.72	5,011.32	12.25	26.32	115.17	-623.92	386.77	760.62	724.69	35.93	21.170	
5,200.00	5,162.06	5,252.08	5,152.59	12.51	26.54	116.55	-626.65	383.51	768.62	732.32	36.30	21.173	
5,300.00	5,261.26	5,356.65	5,257.15	12.78	26.66	117.50	-625.65	382.79	773.64	737.03	36.61	21.130	
5,400.00	5,360.46	5,455.73	5,356.22	13.05	26.77	118.33	-624.74	382.80	778.70	741.77	36.93	21.087	
5,500.00	5,459.67	5,551.24	5,451.74	13.32	26.88	119.10	-624.17	383.12	784.12	746.87	37.25	21.050	
5,600.00	5,558.87	5,645.84	5,546.34	13.59	26.99	119.84	-624.15	383.36	790.26	752.68	37.57	21.032	
5,700.00	5,658.07	5,752.99	5,653.47	13.86	27.10	120.59	-624.31	384.74	796.34	758.43	37.91	21.008	
5,800.00	5,757.27	5,851.65	5,752.08	14.13	27.20	121.15	-624.28	387.77	801.75	763.50	38.25	20.962	
5,900.00	5,856.48	5,936.88	5,837.30	14.41	27.30	121.71	-624.89	389.03	808.50	769.92	38.58	20.956	
6,000.00	5,955.68	6,029.17	5,929.57	14.69	27.44	122.41	-626.33	388.36	816.93	778.00	38.92	20.988	
6,100.00	6,054.88	6,132.37	6,032.77	14.97	27.59	123.19	-627.80	387.58	825.40	786.11	39.29	21.008	
6,200.00	6,154.09	6,232.01	6,132.39	15.25	27.74	123.90	-629.03	387.27	833.66	794.01	39.65	21.024	
6,300.00	6,253.29	6,330.59	6,230.96	15.53	27.88	124.55	-630.54	387.47	842.11	802.09	40.02	21.042	
6,400.00	6,352.49	6,433.44	6,333.81	15.81	28.02	125.21	-632.00	387.89	850.48	810.09	40.40	21.053	
6,500.00	6,451.69	6,535.16	6,435.52	16.09	28.17	125.86	-632.95	388.21	858.56	817.78	40.78	21.055	
6,600.00	6,550.93	6,634.82	6,535.18	16.37	28.31	129.70	-633.80	388.64	866.50	825.35	41.15	21.057	
6,700.00	6,650.78	6,734.92	6,635.27	16.54	28.45	-84.86	-634.68	389.23	869.88	828.40	41.48	20.971	
6,800.00	6,749.67	6,833.85	6,734.19	16.66	28.59	-71.37	-635.59	389.94	866.48	824.64	41.84	20.708	
6,900.00	6,845.16	6,929.96	6,830.30	16.73	28.73	-71.47	-636.40	390.61	857.05	814.81	42.25	20.287	
7,000.00	6,934.90	7,020.48	6,920.81	16.77	28.86	-74.25	-636.99	391.05	843.16	800.46	42.70	19.748	
7,100.00	7,016.67	7,103.67	7,004.00	16.79	28.98	-78.37	-637.37	391.46	827.11	783.89	43.22	19.139	
7,200.00	7,088.47	7,176.47	7,076.80	16.84	29.08	-82.95	-637.59	391.90	811.91	768.09	43.82	18.529	
7,300.00	7,148.53	7,235.56	7,135.89	16.95	29.17	-87.10	-637.73	392.30	801.03	756.52	44.51	17.997	
7,385.02	7,189.24	7,275.32	7,175.65	17.11	29.23	-89.79	-637.85	392.58	797.68	752.52	45.16	17.664	
7,400.00	7,195.36	7,281.28	7,181.61	17.14	29.24	-90.16	-637.87	392.62	797.80	752.53	45.27	17.624	
7,500.00	7,227.82	7,312.70	7,213.03	17.43	29.28	-91.59	-637.99	392.85	804.72	758.68	46.04	17.478 SF	
7,600.00	7,245.11	7,329.07	7,229.39	17.83	29.30	-91.02	-638.05	392.97	823.08	776.32	46.76	17.604	
7,700.00	7,248.02	7,331.22	7,231.54	18.33	29.31	-89.62	-638.06	392.98	852.61	805.27	47.34	18.009	
7,800.00	7,248.07	7,330.54	7,230.86	18.96	29.31	-89.57	-638.06	392.98	892.38	844.55	47.83	18.657	
7,900.00	7,248.13	7,329.86	7,230.18	19.71	29.31	-89.52	-638.06	392.97	941.14	892.92	48.22	19.519	
8,000.00	7,248.18	7,329.18	7,229.50	20.57	29.30	-89.47	-638.05	392.97	997.56	949.06	48.50	20.567	
8,100.00	7,248.23	7,328.50	7,228.82	21.52	29.30	-89.42	-638.05	392.96	1,060.44	1,011.73	48.70	21.773	
8,200.00	7,248.28	7,327.82	7,228.14	22.56	29.30	-89.37	-638.05	392.96	1,128.68	1,079.84	48.84	23.109	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	98.93	-163.19	1,038.38	1,051.19				
100.00	100.00	89.00	89.00	3.28	3.56	98.93	-163.19	1,038.38	1,051.13	1,043.50	7.63	137.769	
200.00	200.00	189.00	189.00	3.31	5.73	98.93	-163.19	1,038.38	1,051.13	1,041.30	9.82	106.997	
300.00	299.98	288.98	288.98	3.35	8.87	19.57	-163.19	1,038.38	1,049.48	1,036.48	13.01	80.690	
400.00	399.84	388.84	388.84	3.42	12.22	19.70	-163.19	1,038.38	1,044.55	1,028.12	16.43	63.577	
500.00	499.45	488.45	488.45	3.51	15.65	19.92	-163.19	1,038.38	1,036.35	1,016.40	19.95	51.951	
600.00	598.73	587.73	587.73	3.62	19.11	20.20	-163.19	1,038.38	1,025.13	1,001.61	23.52	43.590	
700.00	697.94	686.94	686.94	3.77	22.58	20.44	-163.19	1,038.38	1,013.30	986.19	27.11	37.371	
800.00	797.14	786.14	786.14	3.94	26.06	20.69	-163.19	1,038.38	1,001.49	970.75	30.74	32.577	
900.00	896.34	885.34	885.34	4.13	29.55	20.95	-163.19	1,038.38	989.70	955.30	34.39	28.775	
1,000.00	995.55	984.55	984.55	4.33	33.05	21.21	-163.19	1,038.38	977.93	939.86	38.07	25.690	
1,100.00	1,094.75	1,083.75	1,083.75	4.55	36.55	21.48	-163.19	1,038.38	966.18	924.42	41.75	23.139	
1,200.00	1,193.95	1,182.95	1,182.95	4.79	40.05	21.76	-163.19	1,038.38	954.45	908.99	45.46	20.997	
1,300.00	1,293.15	1,282.15	1,282.15	5.04	43.55	22.04	-163.19	1,038.38	942.74	893.57	49.17	19.172	
1,400.00	1,392.36	1,381.36	1,381.36	5.29	47.06	22.34	-163.19	1,038.38	931.06	878.16	52.90	17.601	
1,500.00	1,491.56	1,480.56	1,480.56	5.56	50.56	22.63	-163.19	1,038.38	919.40	862.77	56.63	16.234	
1,600.00	1,590.76	1,579.76	1,579.76	5.83	54.07	22.94	-163.19	1,038.38	907.77	847.39	60.38	15.035	
1,700.00	1,689.96	1,678.96	1,678.96	6.11	57.58	23.25	-163.19	1,038.38	896.16	832.04	64.13	13.975	
1,800.00	1,789.17	1,778.17	1,778.17	6.39	61.09	23.57	-163.19	1,038.38	884.58	816.70	67.88	13.031	
1,900.00	1,888.37	1,877.37	1,877.37	6.54	64.60	23.91	-163.19	1,038.38	873.03	801.72	71.32	12.242	
2,000.00	1,987.57	1,976.57	1,976.57	6.57	68.11	24.24	-163.19	1,038.38	861.51	786.66	74.85	11.511	
2,100.00	2,086.77	2,075.77	2,075.77	6.61	71.62	24.59	-163.19	1,038.38	850.02	771.63	78.39	10.844	
2,200.00	2,185.98	2,174.98	2,174.98	6.67	75.13	24.95	-163.19	1,038.38	838.56	756.61	81.95	10.233	
2,300.00	2,285.18	2,274.18	2,274.18	6.74	78.65	25.32	-163.19	1,038.38	827.13	741.61	85.52	9.672	
2,400.00	2,384.38	2,373.38	2,373.38	6.83	82.16	25.70	-163.19	1,038.38	815.74	726.64	89.11	9.155	
2,500.00	2,483.59	2,472.59	2,472.59	6.92	85.67	26.09	-163.19	1,038.38	804.39	711.68	92.70	8.677	
2,600.00	2,582.79	2,571.79	2,571.79	7.03	89.18	26.48	-163.19	1,038.38	793.07	696.76	96.32	8.234	
2,700.00	2,681.99	2,670.99	2,670.99	7.15	92.70	26.90	-163.19	1,038.38	781.79	681.85	99.94	7.823	
2,800.00	2,781.19	2,770.19	2,770.19	7.29	96.21	27.32	-163.19	1,038.38	770.56	666.98	103.57	7.440	
2,900.00	2,880.40	2,869.40	2,869.40	7.43	99.72	27.75	-163.19	1,038.38	759.36	652.14	107.22	7.082	
3,000.00	2,979.60	2,968.60	2,968.60	7.58	103.23	28.20	-163.19	1,038.38	748.21	637.34	110.87	6.748	
3,100.00	3,078.80	3,067.80	3,067.80	7.74	106.75	28.67	-163.19	1,038.38	737.11	622.57	114.54	6.435	
3,200.00	3,178.00	3,167.00	3,167.00	7.91	110.26	29.14	-163.19	1,038.38	726.06	607.84	118.21	6.142	
3,300.00	3,277.21	3,266.21	3,266.21	8.09	113.77	29.63	-163.19	1,038.38	715.06	593.16	121.90	5.866	
3,400.00	3,376.41	3,365.41	3,365.41	8.28	117.29	30.14	-163.19	1,038.38	704.11	578.52	125.59	5.606	
3,500.00	3,475.61	3,464.61	3,464.61	8.48	120.80	30.66	-163.19	1,038.38	693.21	563.93	129.29	5.362	
3,600.00	3,574.82	3,563.82	3,563.82	8.68	124.32	31.20	-163.19	1,038.38	682.38	549.39	132.99	5.131	
3,700.00	3,674.02	3,663.02	3,663.02	8.88	127.83	31.75	-163.19	1,038.38	671.61	534.90	136.71	4.913	
3,800.00	3,773.22	3,762.22	3,762.22	9.10	131.34	32.33	-163.19	1,038.38	660.90	520.48	140.43	4.706	
3,900.00	3,872.42	3,861.42	3,861.42	9.32	134.86	32.92	-163.19	1,038.38	650.26	506.11	144.15	4.511	
4,000.00	3,971.63	3,960.63	3,960.63	9.54	138.37	33.53	-163.19	1,038.38	639.70	491.82	147.88	4.326	
4,100.00	4,070.83	4,059.83	4,059.83	9.77	141.89	34.17	-163.19	1,038.38	629.20	477.59	151.62	4.150	
4,200.00	4,170.03	4,159.03	4,159.03	10.00	145.40	34.82	-163.19	1,038.38	618.79	463.43	155.36	3.983	
4,300.00	4,269.23	4,258.23	4,258.23	10.24	148.91	35.49	-163.19	1,038.38	608.46	449.36	159.10	3.824	
4,400.00	4,368.44	4,357.44	4,357.44	10.48	152.43	36.19	-163.19	1,038.38	598.22	435.36	162.85	3.673	
4,500.00	4,467.64	4,456.64	4,456.64	10.72	155.94	36.92	-163.19	1,038.38	588.06	421.46	166.61	3.530	
4,600.00	4,566.84	4,555.84	4,555.84	10.97	159.46	37.66	-163.19	1,038.38	578.01	407.64	170.36	3.393	
4,700.00	4,666.05	4,655.05	4,655.05	11.22	162.97	38.44	-163.19	1,038.38	568.05	393.93	174.13	3.262	
4,800.00	4,765.25	4,754.25	4,754.25	11.47	166.48	39.24	-163.19	1,038.38	558.21	380.31	177.89	3.138	
4,900.00	4,864.45	4,853.45	4,853.45	11.73	170.00	40.07	-163.19	1,038.38	548.47	366.81	181.66	3.019	
5,000.00	4,963.65	4,952.65	4,952.65	11.99	173.51	40.93	-163.19	1,038.38	538.86	353.42	185.43	2.906	
5,100.00	5,062.86	5,051.86	5,051.86	12.25	177.03	41.82	-163.19	1,038.38	529.37	340.16	189.21	2.798	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,162.06	5,151.06	5,151.06	12.51	180.54	42.74	-163.19	1,038.38	520.01	327.02	192.99	2.695	
5,300.00	5,261.26	5,250.26	5,250.26	12.78	184.06	43.70	-163.19	1,038.38	510.79	314.02	196.77	2.596	
5,400.00	5,360.46	5,349.46	5,349.46	13.05	187.57	44.69	-163.19	1,038.38	501.72	301.16	200.55	2.502	
5,500.00	5,459.67	5,448.67	5,448.67	13.32	191.09	45.72	-163.19	1,038.38	492.80	288.46	204.34	2.412	
5,600.00	5,558.87	5,547.87	5,547.87	13.59	194.60	46.78	-163.19	1,038.38	484.05	275.92	208.13	2.326	
5,700.00	5,658.07	5,647.07	5,647.07	13.86	198.11	47.88	-163.19	1,038.38	475.47	263.54	211.93	2.244	
5,800.00	5,757.27	5,746.27	5,746.27	14.13	201.63	49.02	-163.19	1,038.38	467.08	251.35	215.73	2.165	
5,900.00	5,856.48	5,845.48	5,845.48	14.41	205.14	50.21	-163.19	1,038.38	458.87	239.35	219.53	2.090	
6,000.00	5,955.68	5,944.68	5,944.68	14.69	208.66	51.43	-163.19	1,038.38	450.87	227.54	223.33	2.019	
6,100.00	6,054.88	6,043.88	6,043.88	14.97	212.17	52.70	-163.19	1,038.38	443.08	215.95	227.13	1.951	
6,200.00	6,154.09	6,143.09	6,143.09	15.25	215.69	54.01	-163.19	1,038.38	435.52	204.58	230.94	1.886	
6,300.00	6,253.29	6,242.29	6,242.29	15.53	219.20	55.37	-163.19	1,038.38	428.20	193.45	234.75	1.824	
6,400.00	6,352.49	6,341.49	6,341.49	15.81	222.72	56.77	-163.19	1,038.38	421.12	182.56	238.57	1.765	
6,500.00	6,451.69	6,440.69	6,440.69	16.09	226.23	58.22	-163.19	1,038.38	414.31	171.93	242.38	1.709	
6,600.00	6,550.93	6,539.93	6,539.93	16.37	229.75	62.74	-163.19	1,038.38	407.95	161.75	246.20	1.657	
6,643.39	6,594.22	6,583.22	6,583.22	16.44	231.28	90.00	-163.19	1,038.38	406.98	159.16	247.82	1.642 CC	
6,700.00	6,650.78	6,639.78	6,639.78	16.54	233.28	-151.62	-163.19	1,038.38	408.62	158.69	249.93	1.635 ES, SF	
6,800.00	6,749.67	6,738.67	6,738.67	16.66	236.79	-137.39	-163.19	1,038.38	419.60	166.07	253.54	1.655	
6,900.00	6,845.16	6,834.16	6,834.16	16.73	240.17	-136.00	-163.19	1,038.38	441.33	184.38	256.95	1.718	
7,000.00	6,934.90	6,923.90	6,923.90	16.77	243.35	-136.29	-163.19	1,038.38	474.58	214.48	260.10	1.825	
7,100.00	7,016.67	7,005.67	7,005.67	16.79	246.25	-136.64	-163.19	1,038.38	519.95	257.01	262.94	1.977	
7,200.00	7,088.47	7,077.47	7,077.47	16.84	248.79	-136.19	-163.19	1,038.38	577.39	311.98	265.41	2.175	
7,300.00	7,148.53	7,137.53	7,137.53	16.95	250.92	-134.15	-163.19	1,038.38	646.08	378.59	267.48	2.415	
7,400.00	7,195.36	7,184.36	7,184.36	17.14	252.58	-129.45	-163.19	1,038.38	724.46	455.36	269.10	2.692	
7,500.00	7,227.82	7,216.82	7,216.82	17.43	253.73	-120.31	-163.19	1,038.38	810.48	540.26	270.22	2.999	
7,600.00	7,245.11	7,234.11	7,234.11	17.83	254.34	-104.02	-163.19	1,038.38	901.72	630.90	270.81	3.330	
7,700.00	7,248.02	7,237.02	7,237.02	18.33	254.44	-90.09	-163.19	1,038.38	995.65	724.74	270.91	3.675	
7,800.00	7,248.07	7,237.07	7,237.07	18.96	254.45	-90.09	-163.19	1,038.38	1,090.71	819.79	270.92	4.026	
7,900.00	7,248.13	7,237.13	7,237.13	19.71	254.45	-90.10	-163.19	1,038.38	1,186.59	915.65	270.94	4.380	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	98.39	-160.27	1,086.86	1,098.67				
100.00	100.00	89.00	89.00	3.28	3.56	98.39	-160.27	1,086.86	1,098.61	1,090.99	7.63	143.993	
200.00	200.00	189.00	189.00	3.31	5.73	98.39	-160.27	1,086.86	1,098.61	1,088.79	9.82	111.831	
300.00	299.98	288.98	288.98	3.35	8.87	19.03	-160.27	1,086.86	1,096.96	1,083.96	13.01	84.340	
400.00	399.84	388.84	388.84	3.42	12.22	19.15	-160.27	1,086.86	1,092.02	1,075.59	16.43	66.465	
500.00	499.45	488.45	488.45	3.51	15.65	19.36	-160.27	1,086.86	1,083.79	1,063.84	19.95	54.329	
600.00	598.73	587.73	587.73	3.62	19.11	19.61	-160.27	1,086.86	1,072.53	1,049.01	23.52	45.606	
700.00	697.94	686.94	686.94	3.77	22.58	19.84	-160.27	1,086.86	1,060.65	1,033.54	27.11	39.118	
800.00	797.14	786.14	786.14	3.94	26.06	20.07	-160.27	1,086.86	1,048.80	1,018.05	30.74	34.116	
900.00	896.34	885.34	885.34	4.13	29.55	20.31	-160.27	1,086.86	1,036.96	1,002.56	34.39	30.150	
1,000.00	995.55	984.55	984.55	4.33	33.05	20.56	-160.27	1,086.86	1,025.14	987.07	38.07	26.931	
1,100.00	1,094.75	1,083.75	1,083.75	4.55	36.55	20.81	-160.27	1,086.86	1,013.33	971.58	41.75	24.269	
1,200.00	1,193.95	1,182.95	1,182.95	4.79	40.05	21.06	-160.27	1,086.86	1,001.55	956.09	45.46	22.033	
1,300.00	1,293.15	1,282.15	1,282.15	5.04	43.55	21.33	-160.27	1,086.86	989.79	940.62	49.17	20.129	
1,400.00	1,392.36	1,381.36	1,381.36	5.29	47.06	21.59	-160.27	1,086.86	978.05	925.15	52.90	18.490	
1,500.00	1,491.56	1,480.56	1,480.56	5.56	50.56	21.87	-160.27	1,086.86	966.33	909.70	56.63	17.064	
1,600.00	1,590.76	1,579.76	1,579.76	5.83	54.07	22.15	-160.27	1,086.86	954.63	894.26	60.37	15.812	
1,700.00	1,689.96	1,678.96	1,678.96	6.11	57.58	22.44	-160.27	1,086.86	942.96	878.83	64.12	14.705	
1,800.00	1,789.17	1,778.17	1,778.17	6.39	61.09	22.73	-160.27	1,086.86	931.31	863.43	67.88	13.720	
1,900.00	1,888.37	1,877.37	1,877.37	6.54	64.60	23.04	-160.27	1,086.86	919.68	848.37	71.31	12.897	
2,000.00	1,987.57	1,976.57	1,976.57	6.57	68.11	23.35	-160.27	1,086.86	908.08	833.24	74.84	12.134	
2,100.00	2,086.77	2,075.77	2,075.77	6.61	71.62	23.67	-160.27	1,086.86	896.51	818.13	78.38	11.437	
2,200.00	2,185.98	2,174.98	2,174.98	6.67	75.13	23.99	-160.27	1,086.86	884.97	803.03	81.94	10.800	
2,300.00	2,285.18	2,274.18	2,274.18	6.74	78.65	24.33	-160.27	1,086.86	873.45	787.94	85.51	10.214	
2,400.00	2,384.38	2,373.38	2,373.38	6.83	82.16	24.67	-160.27	1,086.86	861.97	772.87	89.10	9.674	
2,500.00	2,483.59	2,472.59	2,472.59	6.92	85.67	25.03	-160.27	1,086.86	850.52	757.82	92.70	9.175	
2,600.00	2,582.79	2,571.79	2,571.79	7.03	89.18	25.39	-160.27	1,086.86	839.10	742.79	96.31	8.713	
2,700.00	2,681.99	2,670.99	2,670.99	7.15	92.70	25.76	-160.27	1,086.86	827.72	727.79	99.93	8.283	
2,800.00	2,781.19	2,770.19	2,770.19	7.29	96.21	26.15	-160.27	1,086.86	816.37	712.80	103.57	7.883	
2,900.00	2,880.40	2,869.40	2,869.40	7.43	99.72	26.54	-160.27	1,086.86	805.06	697.85	107.21	7.509	
3,000.00	2,979.60	2,968.60	2,968.60	7.58	103.23	26.95	-160.27	1,086.86	793.78	682.92	110.87	7.160	
3,100.00	3,078.80	3,067.80	3,067.80	7.74	106.75	27.37	-160.27	1,086.86	782.55	668.02	114.53	6.833	
3,200.00	3,178.00	3,167.00	3,167.00	7.91	110.26	27.80	-160.27	1,086.86	771.36	653.16	118.20	6.526	
3,300.00	3,277.21	3,266.21	3,266.21	8.09	113.77	28.24	-160.27	1,086.86	760.22	638.33	121.89	6.237	
3,400.00	3,376.41	3,365.41	3,365.41	8.28	117.29	28.69	-160.27	1,086.86	749.12	623.54	125.58	5.965	
3,500.00	3,475.61	3,464.61	3,464.61	8.48	120.80	29.16	-160.27	1,086.86	738.07	608.79	129.28	5.709	
3,600.00	3,574.82	3,563.82	3,563.82	8.68	124.32	29.65	-160.27	1,086.86	727.07	594.09	132.98	5.467	
3,700.00	3,674.02	3,663.02	3,663.02	8.88	127.83	30.14	-160.27	1,086.86	716.12	579.43	136.69	5.239	
3,800.00	3,773.22	3,762.22	3,762.22	9.10	131.34	30.66	-160.27	1,086.86	705.23	564.82	140.41	5.023	
3,900.00	3,872.42	3,861.42	3,861.42	9.32	134.86	31.19	-160.27	1,086.86	694.39	550.26	144.13	4.818	
4,000.00	3,971.63	3,960.63	3,960.63	9.54	138.37	31.73	-160.27	1,086.86	683.62	535.76	147.86	4.623	
4,100.00	4,070.83	4,059.83	4,059.83	9.77	141.89	32.29	-160.27	1,086.86	672.91	521.31	151.60	4.439	
4,200.00	4,170.03	4,159.03	4,159.03	10.00	145.40	32.88	-160.27	1,086.86	662.27	506.93	155.34	4.263	
4,300.00	4,269.23	4,258.23	4,258.23	10.24	148.91	33.48	-160.27	1,086.86	651.69	492.61	159.08	4.097	
4,400.00	4,368.44	4,357.44	4,357.44	10.48	152.43	34.10	-160.27	1,086.86	641.19	478.36	162.83	3.938	
4,500.00	4,467.64	4,456.64	4,456.64	10.72	155.94	34.74	-160.27	1,086.86	630.77	464.19	166.58	3.787	
4,600.00	4,566.84	4,555.84	4,555.84	10.97	159.46	35.40	-160.27	1,086.86	620.43	450.09	170.34	3.642	
4,700.00	4,666.05	4,655.05	4,655.05	11.22	162.97	36.08	-160.27	1,086.86	610.17	436.07	174.10	3.505	
4,800.00	4,765.25	4,754.25	4,754.25	11.47	166.48	36.79	-160.27	1,086.86	600.00	422.14	177.86	3.373	
4,900.00	4,864.45	4,853.45	4,853.45	11.73	170.00	37.52	-160.27	1,086.86	589.93	408.30	181.63	3.248	
5,000.00	4,963.65	4,952.65	4,952.65	11.99	173.51	38.27	-160.27	1,086.86	579.95	394.55	185.40	3.128	
5,100.00	5,062.86	5,051.86	5,051.86	12.25	177.03	39.06	-160.27	1,086.86	570.08	380.91	189.17	3.014	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,162.06	5,151.06	5,151.06	12.51	180.54	39.87	-160.27	1,086.86	560.32	367.37	192.95	2.904	
5,300.00	5,261.26	5,250.26	5,250.26	12.78	184.06	40.70	-160.27	1,086.86	550.67	353.95	196.73	2.799	
5,400.00	5,360.46	5,349.46	5,349.46	13.05	187.57	41.57	-160.27	1,086.86	541.15	340.64	200.51	2.699	
5,500.00	5,459.67	5,448.67	5,448.67	13.32	191.09	42.47	-160.27	1,086.86	531.75	327.46	204.29	2.603	
5,600.00	5,558.87	5,547.87	5,547.87	13.59	194.60	43.40	-160.27	1,086.86	522.49	314.41	208.08	2.511	
5,700.00	5,658.07	5,647.07	5,647.07	13.86	198.11	44.36	-160.27	1,086.86	513.37	301.50	211.87	2.423	
5,800.00	5,757.27	5,746.27	5,746.27	14.13	201.63	45.36	-160.27	1,086.86	504.40	288.74	215.66	2.339	
5,900.00	5,856.48	5,845.48	5,845.48	14.41	205.14	46.39	-160.27	1,086.86	495.59	276.13	219.46	2.258	
6,000.00	5,955.68	5,944.68	5,944.68	14.69	208.66	47.46	-160.27	1,086.86	486.95	263.69	223.26	2.181	
6,100.00	6,054.88	6,043.88	6,043.88	14.97	212.17	48.57	-160.27	1,086.86	478.48	251.42	227.06	2.107	
6,200.00	6,154.09	6,143.09	6,143.09	15.25	215.69	49.71	-160.27	1,086.86	470.20	239.33	230.86	2.037	
6,300.00	6,253.29	6,242.29	6,242.29	15.53	219.20	50.90	-160.27	1,086.86	462.11	227.44	234.67	1.969	
6,400.00	6,352.49	6,341.49	6,341.49	15.81	222.72	52.13	-160.27	1,086.86	454.23	215.75	238.48	1.905	
6,500.00	6,451.69	6,440.69	6,440.69	16.09	226.23	53.40	-160.27	1,086.86	446.56	204.27	242.29	1.843	
6,600.00	6,550.93	6,539.93	6,539.93	16.37	229.75	57.73	-160.27	1,086.86	439.31	193.21	246.10	1.785	
6,646.20	6,597.02	6,586.02	6,586.02	16.45	231.38	90.00	-160.27	1,086.86	438.10	190.27	247.83	1.768 CC	
6,700.00	6,650.78	6,639.78	6,639.78	16.54	233.28	-156.67	-160.27	1,086.86	439.73	189.90	249.83	1.760 ES, SF	
6,800.00	6,749.67	6,738.67	6,738.67	16.66	236.79	-142.24	-160.27	1,086.86	451.44	198.00	253.44	1.781	
6,900.00	6,845.16	6,834.16	6,834.16	16.73	240.17	-140.47	-160.27	1,086.86	474.69	217.82	256.87	1.848	
7,000.00	6,934.90	6,923.90	6,923.90	16.77	243.35	-140.28	-160.27	1,086.86	509.92	249.89	260.03	1.961	
7,100.00	7,016.67	7,005.67	7,005.67	16.79	246.25	-140.14	-160.27	1,086.86	557.39	294.51	262.88	2.120	
7,200.00	7,088.47	7,077.47	7,077.47	16.84	248.79	-139.26	-160.27	1,086.86	616.80	351.43	265.37	2.324	
7,300.00	7,148.53	7,137.53	7,137.53	16.95	250.92	-136.84	-160.27	1,086.86	687.17	419.72	267.45	2.569	
7,400.00	7,195.36	7,184.36	7,184.36	17.14	252.58	-131.79	-160.27	1,086.86	766.93	497.86	269.07	2.850	
7,500.00	7,227.82	7,216.82	7,216.82	17.43	253.73	-122.18	-160.27	1,086.86	854.03	583.83	270.20	3.161	
7,600.00	7,245.11	7,234.11	7,234.11	17.83	254.34	-104.93	-160.27	1,086.86	946.11	675.32	270.79	3.494	
7,700.00	7,248.02	7,237.02	7,237.02	18.33	254.44	-90.09	-160.27	1,086.86	1,040.69	769.80	270.89	3.842	
7,800.00	7,248.07	7,237.07	7,237.07	18.96	254.45	-90.10	-160.27	1,086.86	1,136.25	865.35	270.90	4.194	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-135.84	-179.59	-174.41	250.35				
100.00	100.00	101.00	99.00	3.28	3.74	-135.84	-179.59	-174.41	250.35	242.53	7.82	32.017	
200.00	200.00	201.00	199.00	3.31	6.28	-135.84	-179.59	-174.41	250.35	239.97	10.37	24.135 CC	
300.00	299.98	301.02	298.98	3.35	9.48	144.97	-179.59	-174.41	251.77	238.15	13.62	18.486	
400.00	399.84	401.16	398.84	3.42	12.87	145.60	-179.59	-174.41	256.08	239.00	17.07	14.998	
500.00	499.45	501.55	498.45	3.51	16.33	146.59	-179.59	-174.41	263.32	242.69	20.63	12.764	
600.00	598.73	602.27	597.73	3.62	19.84	147.90	-179.59	-174.41	273.38	249.12	24.26	11.270	
700.00	697.94	703.06	696.94	3.77	23.37	149.25	-179.59	-174.41	284.16	256.23	27.92	10.177	
800.00	797.14	803.86	796.14	3.94	26.91	150.50	-179.59	-174.41	295.08	263.46	31.61	9.334	
900.00	896.34	904.66	895.34	4.13	30.46	151.65	-179.59	-174.41	306.13	270.80	35.33	8.665	
1,000.00	995.55	1,005.45	994.55	4.33	34.01	152.73	-179.59	-174.41	317.30	278.23	39.07	8.122	
1,100.00	1,094.75	1,106.25	1,093.75	4.55	37.57	153.74	-179.59	-174.41	328.57	285.75	42.82	7.673	
1,200.00	1,193.95	1,207.05	1,192.95	4.79	41.13	154.68	-179.59	-174.41	339.93	293.35	46.58	7.297	
1,300.00	1,293.15	1,307.85	1,292.15	5.04	44.69	155.56	-179.59	-174.41	351.38	301.02	50.36	6.977	
1,400.00	1,392.36	1,408.64	1,391.36	5.29	48.25	156.38	-179.59	-174.41	362.91	308.76	54.15	6.702	
1,500.00	1,491.56	1,509.44	1,490.56	5.56	51.82	157.15	-179.59	-174.41	374.50	316.56	57.94	6.463	
1,600.00	1,590.76	1,589.76	1,589.76	5.83	54.66	157.87	-179.59	-174.41	386.16	325.14	61.02	6.328	
1,700.00	1,689.96	1,688.96	1,688.96	6.11	58.16	158.56	-179.59	-174.41	397.87	333.10	64.77	6.143	
1,800.00	1,789.17	1,788.17	1,788.17	6.39	61.67	159.20	-179.59	-174.41	409.64	341.11	68.53	5.978	
1,900.00	1,888.37	1,887.37	1,887.37	6.54	65.18	159.81	-179.59	-174.41	421.46	349.50	71.96	5.857	
2,000.00	1,987.57	1,986.57	1,986.57	6.57	68.70	160.38	-179.59	-174.41	433.32	357.84	75.48	5.741	
2,100.00	2,086.77	2,085.77	2,085.77	6.61	72.21	160.93	-179.59	-174.41	445.22	366.20	79.02	5.634	
2,200.00	2,185.98	2,184.98	2,184.98	6.67	75.72	161.44	-179.59	-174.41	457.16	374.59	82.58	5.536	
2,300.00	2,285.18	2,284.18	2,284.18	6.74	79.23	161.93	-179.59	-174.41	469.14	382.99	86.14	5.446	
2,400.00	2,384.38	2,383.38	2,383.38	6.83	82.74	162.40	-179.59	-174.41	481.14	391.42	89.72	5.362	
2,500.00	2,483.59	2,482.59	2,482.59	6.92	86.25	162.84	-179.59	-174.41	493.18	399.86	93.32	5.285	
2,600.00	2,582.79	2,581.79	2,581.79	7.03	89.77	163.26	-179.59	-174.41	505.24	408.31	96.93	5.213	
2,700.00	2,681.99	2,680.99	2,680.99	7.15	93.28	163.66	-179.59	-174.41	517.33	416.78	100.55	5.145	
2,800.00	2,781.19	2,780.19	2,780.19	7.29	96.79	164.05	-179.59	-174.41	529.44	425.27	104.18	5.082	
2,900.00	2,880.40	2,879.40	2,879.40	7.43	100.31	164.41	-179.59	-174.41	541.58	433.76	107.82	5.023	
3,000.00	2,979.60	2,978.60	2,978.60	7.58	103.82	164.76	-179.59	-174.41	553.73	442.26	111.47	4.968	
3,100.00	3,078.80	3,077.80	3,077.80	7.74	107.33	165.10	-179.59	-174.41	565.91	450.78	115.13	4.915	
3,200.00	3,178.00	3,177.00	3,177.00	7.91	110.85	165.42	-179.59	-174.41	578.10	459.30	118.80	4.866	
3,300.00	3,277.21	3,276.21	3,276.21	8.09	114.36	165.73	-179.59	-174.41	590.32	467.83	122.48	4.820	
3,400.00	3,376.41	3,375.41	3,375.41	8.28	117.87	166.02	-179.59	-174.41	602.54	476.37	126.17	4.776	
3,500.00	3,475.61	3,474.61	3,474.61	8.48	121.39	166.31	-179.59	-174.41	614.79	484.92	129.86	4.734	
3,600.00	3,574.82	3,573.82	3,573.82	8.68	124.90	166.58	-179.59	-174.41	627.04	493.48	133.57	4.695	
3,700.00	3,674.02	3,673.02	3,673.02	8.88	128.41	166.84	-179.59	-174.41	639.31	502.04	137.27	4.657	
3,800.00	3,773.22	3,772.22	3,772.22	9.10	131.93	167.09	-179.59	-174.41	651.60	510.61	140.99	4.622	
3,900.00	3,872.42	3,871.42	3,871.42	9.32	135.44	167.34	-179.59	-174.41	663.89	519.18	144.71	4.588	
4,000.00	3,971.63	3,970.63	3,970.63	9.54	138.96	167.57	-179.59	-174.41	676.20	527.76	148.43	4.556	
4,100.00	4,070.83	4,069.83	4,069.83	9.77	142.47	167.80	-179.59	-174.41	688.51	536.35	152.16	4.525	
4,200.00	4,170.03	4,169.03	4,169.03	10.00	145.98	168.01	-179.59	-174.41	700.84	544.95	155.90	4.496	
4,300.00	4,269.23	4,268.23	4,268.23	10.24	149.50	168.22	-179.59	-174.41	713.18	553.54	159.63	4.468	
4,400.00	4,368.44	4,367.44	4,367.44	10.48	153.01	168.43	-179.59	-174.41	725.52	562.15	163.38	4.441	
4,500.00	4,467.64	4,466.64	4,466.64	10.72	156.53	168.62	-179.59	-174.41	737.88	570.76	167.12	4.415	
4,600.00	4,566.84	4,565.84	4,565.84	10.97	160.04	168.81	-179.59	-174.41	750.24	579.37	170.87	4.391	
4,700.00	4,666.05	4,665.05	4,665.05	11.22	163.55	169.00	-179.59	-174.41	762.61	587.99	174.62	4.367	
4,800.00	4,765.25	4,764.25	4,764.25	11.47	167.07	169.17	-179.59	-174.41	774.99	596.61	178.38	4.345	
4,900.00	4,864.45	4,863.45	4,863.45	11.73	170.58	169.35	-179.59	-174.41	787.37	605.24	182.14	4.323	
5,000.00	4,963.65	4,962.65	4,962.65	11.99	174.10	169.51	-179.59	-174.41	799.77	613.87	185.90	4.302	
5,100.00	5,062.86	5,061.86	5,061.86	12.25	177.61	169.67	-179.59	-174.41	812.17	622.51	189.66	4.282	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
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	5,162.06	5,161.06	5,161.06	12.51	181.13	169.83	-179.59	-174.41	824.57	631.15	193.42	4.263	
5,300.00	5,261.26	5,260.26	5,260.26	12.78	184.64	169.98	-179.59	-174.41	836.98	639.79	197.19	4.245	
5,400.00	5,360.46	5,359.46	5,359.46	13.05	188.16	170.13	-179.59	-174.41	849.40	648.44	200.96	4.227	
5,500.00	5,459.67	5,458.67	5,458.67	13.32	191.67	170.28	-179.59	-174.41	861.82	657.09	204.73	4.210	
5,600.00	5,558.87	5,557.87	5,557.87	13.59	195.18	170.41	-179.59	-174.41	874.25	665.74	208.50	4.193	
5,700.00	5,658.07	5,657.07	5,657.07	13.86	198.70	170.55	-179.59	-174.41	886.68	674.40	212.28	4.177	
5,800.00	5,757.27	5,756.27	5,756.27	14.13	202.21	170.68	-179.59	-174.41	899.11	683.06	216.05	4.162	
5,900.00	5,856.48	5,855.48	5,855.48	14.41	205.73	170.81	-179.59	-174.41	911.55	691.72	219.83	4.147	
6,000.00	5,955.68	5,954.68	5,954.68	14.69	209.24	170.94	-179.59	-174.41	924.00	700.39	223.61	4.132	
6,100.00	6,054.88	6,053.88	6,053.88	14.97	212.76	171.06	-179.59	-174.41	936.45	709.06	227.39	4.118	
6,200.00	6,154.09	6,153.09	6,153.09	15.25	216.27	171.17	-179.59	-174.41	948.90	717.73	231.17	4.105	
6,300.00	6,253.29	6,252.29	6,252.29	15.53	219.79	171.29	-179.59	-174.41	961.36	726.41	234.95	4.092	
6,400.00	6,352.49	6,351.49	6,351.49	15.81	223.30	171.40	-179.59	-174.41	973.82	735.08	238.74	4.079	
6,500.00	6,451.69	6,450.69	6,450.69	16.09	226.82	171.51	-179.59	-174.41	986.29	743.76	242.52	4.067	
6,600.00	6,550.93	6,549.93	6,549.93	16.37	230.33	174.79	-179.59	-174.41	998.51	752.21	246.30	4.054	
6,700.00	6,650.78	6,649.78	6,649.78	16.54	233.87	-40.04	-179.59	-174.41	1,000.87	750.85	250.02	4.003	
6,800.00	6,749.67	6,748.67	6,748.67	16.66	237.37	-26.09	-179.59	-174.41	988.46	734.80	253.67	3.897	
6,900.00	6,845.16	6,844.16	6,844.16	16.73	240.76	-25.18	-179.59	-174.41	961.70	704.54	257.16	3.740	
7,000.00	6,934.90	6,933.90	6,933.90	16.77	243.93	-26.85	-179.59	-174.41	921.44	661.02	260.42	3.538	
7,100.00	7,016.67	7,015.67	7,015.67	16.79	246.83	-30.46	-179.59	-174.41	869.00	605.61	263.39	3.299	
7,200.00	7,088.47	7,087.47	7,087.47	16.84	249.38	-36.34	-179.59	-174.41	806.12	540.11	266.01	3.030	
7,300.00	7,148.53	7,147.53	7,147.53	16.95	251.50	-45.15	-179.59	-174.41	735.06	466.83	268.23	2.740	
7,400.00	7,195.36	7,205.64	7,194.36	17.14	253.56	-57.19	-179.59	-174.41	658.62	388.17	270.45	2.435	
7,500.00	7,227.82	7,226.82	7,226.82	17.43	254.31	-71.26	-179.59	-174.41	580.24	308.79	271.46	2.138	
7,600.00	7,245.11	7,244.11	7,244.11	17.83	254.93	-84.12	-179.59	-174.41	504.26	231.76	272.49	1.851	
7,700.00	7,248.02	7,247.02	7,247.02	18.33	255.03	-89.98	-179.59	-174.41	436.08	162.83	273.26	1.596	
7,800.00	7,248.07	7,247.07	7,247.07	18.96	255.03	-89.99	-179.59	-174.41	382.03	107.83	274.20	1.393 Level 3	
7,900.00	7,248.13	7,247.13	7,247.13	19.71	255.03	-89.99	-179.59	-174.41	348.90	73.62	275.28	1.267 Level 3	
7,971.10	7,248.16	7,247.16	7,247.16	20.32	255.03	-90.00	-179.59	-174.41	341.57	65.67	275.91	1.238 Level 2, ES, SF	
8,000.00	7,248.18	7,247.18	7,247.18	20.57	255.03	-90.00	-179.59	-174.41	342.80	66.73	276.07	1.242 Level 2	
8,100.00	7,248.23	7,247.23	7,247.23	21.52	255.04	-90.01	-179.59	-174.41	365.09	88.85	276.23	1.322 Level 3	
8,200.00	7,248.28	7,247.28	7,247.28	22.56	255.04	-90.02	-179.59	-174.41	411.18	135.27	275.91	1.490 Level 3	
8,300.00	7,248.33	7,247.33	7,247.33	23.67	255.04	-90.03	-179.59	-174.41	474.18	198.77	275.41	1.722	
8,400.00	7,248.38	7,247.38	7,247.38	24.84	255.04	-90.04	-179.59	-174.41	548.30	273.37	274.93	1.994	
8,500.00	7,248.43	7,247.43	7,247.43	26.07	255.04	-90.05	-179.59	-174.41	629.61	355.08	274.53	2.293	
8,600.00	7,248.48	7,247.48	7,247.48	27.35	255.05	-90.05	-179.59	-174.41	715.67	441.47	274.21	2.610	
8,700.00	7,248.54	7,247.54	7,247.54	28.66	255.05	-90.06	-179.59	-174.41	804.97	531.01	273.96	2.938	
8,800.00	7,248.59	7,247.59	7,247.59	30.01	255.05	-90.07	-179.59	-174.41	896.52	622.75	273.77	3.275	
8,900.00	7,248.64	7,247.64	7,247.64	31.40	255.05	-90.08	-179.59	-174.41	989.71	716.09	273.62	3.617	
9,000.00	7,248.69	7,247.69	7,247.69	32.80	255.05	-90.09	-179.59	-174.41	1,084.12	810.61	273.51	3.964	
9,100.00	7,248.74	7,247.74	7,247.74	34.24	255.05	-90.10	-179.59	-174.41	1,179.44	906.03	273.42	4.314	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-5 - XOG PR Well - No Survey										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.00	7,248.48	7,254.48	7,254.48	27.35	255.29	-89.80	-1.02	-1,907.36	1,116.65	844.33	272.32	4.100	
8,700.00	7,248.54	7,254.54	7,254.54	28.66	255.29	-89.82	-1.02	-1,907.36	1,017.86	745.36	272.51	3.735	
8,800.00	7,248.59	7,254.59	7,254.59	30.01	255.30	-89.84	-1.02	-1,907.36	919.34	646.59	272.75	3.371	
8,900.00	7,248.64	7,254.64	7,254.64	31.40	255.30	-89.86	-1.02	-1,907.36	821.17	548.09	273.08	3.007	
9,000.00	7,248.69	7,254.69	7,254.69	32.80	255.30	-89.88	-1.02	-1,907.36	723.51	449.95	273.55	2.645	
9,100.00	7,248.74	7,254.74	7,254.74	34.24	255.30	-89.89	-1.02	-1,907.36	626.58	352.33	274.24	2.285	
9,200.00	7,248.79	7,254.79	7,254.79	35.69	255.30	-89.91	-1.02	-1,907.36	530.79	255.50	275.29	1.928	
9,300.00	7,248.84	7,254.84	7,254.84	37.16	255.31	-89.93	-1.02	-1,907.36	436.89	159.92	276.97	1.577	
9,400.00	7,248.89	7,254.89	7,254.89	38.65	255.31	-89.95	-1.02	-1,907.36	346.43	66.61	279.82	1.238	Level 2
9,500.00	7,248.94	7,254.94	7,254.94	40.15	255.31	-89.96	-1.02	-1,907.36	262.96	-21.80	284.77	0.923	Level 1
9,600.00	7,249.00	7,255.00	7,255.00	41.67	255.31	-89.98	-1.02	-1,907.36	195.67	-97.00	292.67	0.669	Level 1
9,700.00	7,249.05	7,255.05	7,255.05	43.20	255.31	-90.00	-1.02	-1,907.36	165.61	-133.48	299.09	0.554	Level 1
9,704.31	7,249.05	7,255.05	7,255.05	43.26	255.31	-90.00	-1.02	-1,907.36	165.55	-133.59	299.15	0.553	Level 1, CC, ES, SF
9,800.00	7,249.10	7,255.10	7,255.10	44.73	255.31	-90.02	-1.02	-1,907.36	191.22	-103.78	295.00	0.648	Level 1
9,900.00	7,249.15	7,255.15	7,255.15	46.28	255.32	-90.03	-1.02	-1,907.36	256.32	-31.29	287.62	0.891	Level 1
10,000.00	7,249.20	7,255.20	7,255.20	47.84	255.32	-90.05	-1.02	-1,907.36	338.88	56.29	282.59	1.199	Level 2
10,100.00	7,249.25	7,255.25	7,255.25	49.40	255.32	-90.07	-1.02	-1,907.36	428.93	149.34	279.59	1.534	
10,200.00	7,249.30	7,255.30	7,255.30	50.97	255.32	-90.09	-1.02	-1,907.36	522.61	244.86	277.75	1.882	
10,300.00	7,249.35	7,255.35	7,255.35	52.55	255.32	-90.11	-1.02	-1,907.36	618.27	341.69	276.58	2.235	
10,400.00	7,249.41	7,255.41	7,255.41	54.13	255.33	-90.12	-1.02	-1,907.36	715.12	439.31	275.81	2.593	
10,500.00	7,249.46	7,255.46	7,255.46	55.71	255.33	-90.14	-1.02	-1,907.36	812.73	537.45	275.28	2.952	
10,600.00	7,249.51	7,255.51	7,255.51	57.31	255.33	-90.16	-1.02	-1,907.36	910.86	635.95	274.91	3.313	
10,700.00	7,249.56	7,255.56	7,255.56	58.90	255.33	-90.18	-1.02	-1,907.36	1,009.36	734.71	274.65	3.675	
10,800.00	7,249.61	7,255.61	7,255.61	60.50	255.33	-90.19	-1.02	-1,907.36	1,108.13	833.66	274.47	4.037	

Hewlett-Packard

Anticollision Report

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

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-6H6 - 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	
0.00	0.00	7.00	-7.00	3.28	3.28	-172.42	-1,185.05	-157.70	1,195.49				
100.00	100.00	107.00	93.00	3.28	3.85	-172.42	-1,185.05	-157.70	1,195.49	1,187.57	7.93	150.827	
200.00	200.00	207.00	193.00	3.31	6.46	-172.42	-1,185.05	-157.70	1,195.49	1,184.94	10.55	113.266 CC	
300.00	299.98	307.02	292.98	3.35	9.68	108.25	-1,185.05	-157.70	1,196.04	1,182.22	13.82	86.548	
400.00	399.84	407.16	392.84	3.42	13.07	108.46	-1,185.05	-157.70	1,197.69	1,180.41	17.28	69.320 ES, SF	

Hewlett-Packard

Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_NS-GYRO-MS, 7350-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	13.71	13.71	3.28	3.28	-123.46	-649.15	-982.13	1,177.28				
100.00	100.00	105.58	105.58	3.28	3.28	-123.46	-649.36	-982.52	1,177.75	1,170.39	7.36	160.039	
200.00	200.00	205.43	205.42	3.31	3.32	-123.46	-649.83	-983.17	1,178.56	1,171.14	7.42	158.941	
300.00	299.98	303.80	303.79	3.35	3.38	-157.14	-650.49	-983.79	1,181.06	1,173.54	7.52	157.037	
400.00	399.84	409.51	409.50	3.42	3.47	-157.18	-651.25	-984.18	1,186.58	1,178.90	7.68	154.489	
500.00	499.45	505.87	505.85	3.51	3.58	-157.24	-652.07	-984.37	1,195.26	1,187.38	7.88	151.681	
8,000.00	7,248.18	7,311.38	7,310.31	20.57	18.80	-93.09	-703.33	-997.63	1,175.93	1,137.59	38.34	30.671	
8,100.00	7,248.23	7,307.16	7,306.09	21.52	18.79	-92.81	-703.39	-997.81	1,110.89	1,071.60	39.29	28.274	
8,200.00	7,248.28	7,302.94	7,301.87	22.56	18.78	-92.53	-703.46	-997.99	1,051.33	1,010.90	40.43	26.004	
8,300.00	7,248.33	7,298.71	7,297.66	23.67	18.78	-92.25	-703.52	-998.18	998.25	956.49	41.76	23.907	
8,400.00	7,248.38	7,294.49	7,293.44	24.84	18.77	-91.97	-703.58	-998.36	952.71	909.47	43.24	22.034	
8,500.00	7,248.43	7,290.27	7,289.22	26.07	18.77	-91.69	-703.65	-998.54	915.85	871.03	44.82	20.433	
8,600.00	7,248.48	7,286.04	7,285.00	27.35	18.76	-91.42	-703.71	-998.72	888.75	842.32	46.43	19.142	
8,700.00	7,248.54	7,281.82	7,280.78	28.66	18.75	-91.14	-703.77	-998.90	872.31	824.35	47.96	18.188	
8,794.99	7,248.58	7,277.81	7,276.77	29.95	18.75	-90.87	-703.84	-999.07	867.13	817.88	49.26	17.605 CC	
8,800.00	7,248.59	7,277.60	7,276.56	30.01	18.75	-90.86	-703.84	-999.08	867.15	817.83	49.32	17.583 ES	
8,900.00	7,248.64	7,273.37	7,272.34	31.40	18.74	-90.58	-703.90	-999.26	873.46	823.04	50.42	17.324 SF	
9,000.00	7,248.69	7,269.15	7,268.12	32.80	18.74	-90.30	-703.97	-999.44	891.00	839.77	51.22	17.394	
9,100.00	7,248.74	7,264.93	7,263.91	34.24	18.73	-90.02	-704.03	-999.62	919.12	867.40	51.73	17.769	
9,200.00	7,248.79	7,260.71	7,259.69	35.69	18.72	-89.74	-704.09	-999.80	956.90	904.94	51.96	18.417	
9,300.00	7,248.84	7,256.48	7,255.47	37.16	18.72	-89.46	-704.16	-999.98	1,003.24	951.28	51.97	19.306	
9,400.00	7,248.89	7,252.26	7,251.25	38.65	18.71	-89.19	-704.22	-1,000.16	1,057.03	1,005.22	51.81	20.403	
9,500.00	7,248.94	7,251.96	7,247.03	40.15	18.71	-88.91	-704.29	-1,000.34	1,117.17	1,065.63	51.54	21.676	
9,600.00	7,249.00	7,256.19	7,242.81	41.67	18.72	-88.63	-704.35	-1,000.52	1,182.71	1,131.51	51.20	23.098	

Hewlett-Packard

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	99.75	-194.14	1,129.49	1,146.31					
100.00	100.00	76.00	76.00	3.28	3.55	99.75	-194.14	1,129.49	1,146.05	1,138.43	7.62	150.402		
200.00	200.00	176.00	176.00	3.31	5.54	99.75	-194.14	1,129.49	1,146.05	1,136.42	9.64	118.926		
300.00	299.98	275.98	275.98	3.35	8.65	20.39	-194.14	1,129.49	1,144.42	1,131.63	12.79	89.458		
400.00	399.84	375.84	375.84	3.42	12.00	20.52	-194.14	1,129.49	1,139.51	1,123.31	16.21	70.305		
500.00	499.45	475.45	475.45	3.51	15.43	20.73	-194.14	1,129.49	1,131.35	1,111.63	19.72	57.361		
600.00	598.73	574.73	574.73	3.62	18.88	21.00	-194.14	1,129.49	1,120.19	1,096.90	23.29	48.097		
700.00	697.94	673.94	673.94	3.77	22.35	21.23	-194.14	1,129.49	1,108.42	1,081.53	26.89	41.226		
800.00	797.14	773.14	773.14	3.94	25.83	21.47	-194.14	1,129.49	1,096.67	1,066.16	30.51	35.940		
900.00	896.34	872.34	872.34	4.13	29.32	21.71	-194.14	1,129.49	1,084.94	1,050.78	34.17	31.756		
1,000.00	995.55	971.55	971.55	4.33	32.82	21.96	-194.14	1,129.49	1,073.23	1,035.39	37.84	28.364		
1,100.00	1,094.75	1,070.75	1,070.75	4.55	36.32	22.21	-194.14	1,129.49	1,061.54	1,020.01	41.53	25.563		
1,200.00	1,193.95	1,169.95	1,169.95	4.79	39.82	22.47	-194.14	1,129.49	1,049.87	1,004.64	45.23	23.212		
1,300.00	1,293.15	1,269.15	1,269.15	5.04	43.32	22.74	-194.14	1,129.49	1,038.22	989.28	48.94	21.212		
1,400.00	1,392.36	1,368.36	1,368.36	5.29	46.83	23.01	-194.14	1,129.49	1,026.60	973.93	52.67	19.491		
1,500.00	1,491.56	1,467.56	1,467.56	5.56	50.33	23.29	-194.14	1,129.49	1,014.99	958.59	56.40	17.995		
1,600.00	1,590.76	1,566.76	1,566.76	5.83	53.84	23.57	-194.14	1,129.49	1,003.42	943.27	60.15	16.682		
1,700.00	1,689.96	1,665.96	1,665.96	6.11	57.35	23.86	-194.14	1,129.49	991.86	927.96	63.90	15.523		
1,800.00	1,789.17	1,765.17	1,765.17	6.39	60.86	24.16	-194.14	1,129.49	980.34	912.68	67.65	14.490		
1,900.00	1,888.37	1,864.37	1,864.37	6.54	64.37	24.47	-194.14	1,129.49	968.84	897.75	71.09	13.629		
2,000.00	1,987.57	1,963.57	1,963.57	6.57	67.88	24.78	-194.14	1,129.49	957.36	882.75	74.62	12.830		
2,100.00	2,086.77	2,062.77	2,062.77	6.61	71.39	25.10	-194.14	1,129.49	945.92	867.76	78.16	12.102		
2,200.00	2,185.98	2,161.98	2,161.98	6.67	74.90	25.43	-194.14	1,129.49	934.50	852.79	81.72	11.435		
2,300.00	2,285.18	2,261.18	2,261.18	6.74	78.42	25.76	-194.14	1,129.49	923.12	837.83	85.29	10.823		
2,400.00	2,384.38	2,360.38	2,360.38	6.83	81.93	26.10	-194.14	1,129.49	911.77	822.89	88.88	10.259		
2,500.00	2,483.59	2,459.59	2,459.59	6.92	85.44	26.46	-194.14	1,129.49	900.45	807.98	92.48	9.737		
2,600.00	2,582.79	2,558.79	2,558.79	7.03	88.95	26.82	-194.14	1,129.49	889.17	793.08	96.09	9.254		
2,700.00	2,681.99	2,657.99	2,657.99	7.15	92.47	27.19	-194.14	1,129.49	877.92	778.21	99.71	8.805		
2,800.00	2,781.19	2,757.19	2,757.19	7.29	95.98	27.57	-194.14	1,129.49	866.71	763.37	103.34	8.387		
2,900.00	2,880.40	2,856.40	2,856.40	7.43	99.49	27.96	-194.14	1,129.49	855.54	748.55	106.99	7.996		
3,000.00	2,979.60	2,955.60	2,955.60	7.58	103.00	28.36	-194.14	1,129.49	844.41	733.77	110.65	7.632		
3,100.00	3,078.80	3,054.80	3,054.80	7.74	106.52	28.77	-194.14	1,129.49	833.32	719.01	114.31	7.290		
3,200.00	3,178.00	3,154.00	3,154.00	7.91	110.03	29.19	-194.14	1,129.49	822.28	704.29	117.98	6.969		
3,300.00	3,277.21	3,253.21	3,253.21	8.09	113.54	29.62	-194.14	1,129.49	811.28	689.61	121.67	6.668		
3,400.00	3,376.41	3,352.41	3,352.41	8.28	117.06	30.07	-194.14	1,129.49	800.32	674.97	125.36	6.384		
3,500.00	3,475.61	3,451.61	3,451.61	8.48	120.57	30.53	-194.14	1,129.49	789.42	660.36	129.06	6.117		
3,600.00	3,574.82	3,550.82	3,550.82	8.68	124.09	31.00	-194.14	1,129.49	778.57	645.81	132.76	5.864		
3,700.00	3,674.02	3,650.02	3,650.02	8.88	127.60	31.48	-194.14	1,129.49	767.77	631.30	136.47	5.626		
3,800.00	3,773.22	3,749.22	3,749.22	9.10	131.11	31.98	-194.14	1,129.49	757.03	616.83	140.19	5.400		
3,900.00	3,872.42	3,848.42	3,848.42	9.32	134.63	32.49	-194.14	1,129.49	746.34	602.43	143.92	5.186		
4,000.00	3,971.63	3,947.63	3,947.63	9.54	138.14	33.01	-194.14	1,129.49	735.72	588.07	147.65	4.983		
4,100.00	4,070.83	4,046.83	4,046.83	9.77	141.66	33.56	-194.14	1,129.49	725.16	573.78	151.38	4.790		
4,200.00	4,170.03	4,146.03	4,146.03	10.00	145.17	34.11	-194.14	1,129.49	714.66	559.54	155.12	4.607		
4,300.00	4,269.23	4,245.23	4,245.23	10.24	148.68	34.69	-194.14	1,129.49	704.24	545.38	158.86	4.433		
4,400.00	4,368.44	4,344.44	4,344.44	10.48	152.20	35.28	-194.14	1,129.49	693.89	531.27	162.61	4.267		
4,500.00	4,467.64	4,443.64	4,443.64	10.72	155.71	35.88	-194.14	1,129.49	683.61	517.24	166.36	4.109		
4,600.00	4,566.84	4,542.84	4,542.84	10.97	159.23	36.51	-194.14	1,129.49	673.41	503.29	170.12	3.958		
4,700.00	4,666.05	4,642.05	4,642.05	11.22	162.74	37.16	-194.14	1,129.49	663.29	489.41	173.88	3.815		
4,800.00	4,765.25	4,741.25	4,741.25	11.47	166.25	37.82	-194.14	1,129.49	653.26	475.62	177.64	3.677		
4,900.00	4,864.45	4,840.45	4,840.45	11.73	169.77	38.51	-194.14	1,129.49	643.33	461.92	181.41	3.546		
5,000.00	4,963.65	4,939.65	4,939.65	11.99	173.28	39.22	-194.14	1,129.49	633.48	448.30	185.18	3.421		
5,100.00	5,062.86	5,038.86	5,038.86	12.25	176.80	39.95	-194.14	1,129.49	623.74	434.79	188.95	3.301		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,162.06	5,138.06	5,138.06	12.51	180.31	40.70	-194.14	1,129.49	614.10	421.37	192.73	3.186	
5,300.00	5,261.26	5,237.26	5,237.26	12.78	183.83	41.48	-194.14	1,129.49	604.56	408.06	196.51	3.077	
5,400.00	5,360.46	5,336.46	5,336.46	13.05	187.34	42.28	-194.14	1,129.49	595.15	394.86	200.29	2.971	
5,500.00	5,459.67	5,435.67	5,435.67	13.32	190.86	43.10	-194.14	1,129.49	585.85	381.78	204.07	2.871	
5,600.00	5,558.87	5,534.87	5,534.87	13.59	194.37	43.95	-194.14	1,129.49	576.68	368.82	207.86	2.774	
5,700.00	5,658.07	5,634.07	5,634.07	13.86	197.88	44.83	-194.14	1,129.49	567.64	355.99	211.65	2.682	
5,800.00	5,757.27	5,733.27	5,733.27	14.13	201.40	45.74	-194.14	1,129.49	558.73	343.29	215.44	2.593	
5,900.00	5,856.48	5,832.48	5,832.48	14.41	204.91	46.68	-194.14	1,129.49	549.98	330.74	219.23	2.509	
6,000.00	5,955.68	5,931.68	5,931.68	14.69	208.43	47.64	-194.14	1,129.49	541.37	318.34	223.03	2.427	
6,100.00	6,054.88	6,030.88	6,030.88	14.97	211.94	48.64	-194.14	1,129.49	532.92	306.09	226.83	2.349	
6,200.00	6,154.09	6,130.09	6,130.09	15.25	215.46	49.67	-194.14	1,129.49	524.64	294.01	230.63	2.275	
6,300.00	6,253.29	6,229.29	6,229.29	15.53	218.97	50.73	-194.14	1,129.49	516.54	282.10	234.44	2.203	
6,400.00	6,352.49	6,328.49	6,328.49	15.81	222.49	51.82	-194.14	1,129.49	508.61	270.37	238.24	2.135	
6,500.00	6,451.69	6,427.69	6,427.69	16.09	226.00	52.95	-194.14	1,129.49	500.88	258.83	242.05	2.069	
6,600.00	6,550.93	6,526.93	6,526.93	16.37	229.52	57.14	-194.14	1,129.49	493.54	247.69	245.86	2.007	
6,646.52	6,597.34	6,573.34	6,573.34	16.45	231.16	90.00	-194.14	1,129.49	492.30	244.71	247.59	1.988 CC	
6,700.00	6,650.78	6,626.78	6,626.78	16.54	233.05	-157.31	-194.14	1,129.49	493.93	244.35	249.59	1.979 ES, SF	
6,800.00	6,749.67	6,725.67	6,725.67	16.66	236.56	-142.75	-194.14	1,129.49	505.72	252.52	253.20	1.997	
6,900.00	6,845.16	6,821.16	6,821.16	16.73	239.94	-140.73	-194.14	1,129.49	529.09	272.46	256.63	2.062	
7,000.00	6,934.90	6,910.90	6,910.90	16.77	243.12	-140.22	-194.14	1,129.49	564.37	304.57	259.80	2.172	
7,100.00	7,016.67	7,007.33	6,992.67	16.79	246.54	-139.76	-194.14	1,129.49	611.72	348.55	263.18	2.324	
7,200.00	7,088.47	7,064.47	7,064.47	16.84	248.56	-138.56	-194.14	1,129.49	670.82	405.67	265.15	2.530	
7,300.00	7,148.53	7,124.53	7,124.53	16.95	250.69	-135.87	-194.14	1,129.49	740.73	473.49	267.23	2.772	
7,400.00	7,195.36	7,171.36	7,171.36	17.14	252.35	-130.60	-194.14	1,129.49	819.91	551.06	268.85	3.050	
7,500.00	7,227.82	7,203.82	7,203.82	17.43	253.50	-120.93	-194.14	1,129.49	906.40	636.42	269.98	3.357	
7,600.00	7,245.11	7,221.11	7,221.11	17.83	254.11	-104.18	-194.14	1,129.49	997.87	727.29	270.58	3.688	
7,700.00	7,248.02	7,224.02	7,224.02	18.33	254.21	-90.09	-194.14	1,129.49	1,091.87	821.19	270.68	4.034	
7,800.00	7,248.07	7,224.07	7,224.07	18.96	254.22	-90.09	-194.14	1,129.49	1,186.90	916.21	270.69	4.385	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-98.02	-21.12	-149.89	151.37					
100.00	100.00	101.00	101.00	3.28	3.28	-98.02	-21.12	-149.89	151.37	143.84	7.53	20.105		
200.00	200.00	201.00	201.00	3.31	3.31	-98.02	-21.12	-149.89	151.37	143.80	7.57	19.985 CC, ES		
300.00	299.98	300.32	299.68	3.35	3.34	-177.68	-21.85	-150.50	153.83	146.17	7.66	20.094		
400.00	399.84	400.51	399.48	3.42	3.40	-178.03	-22.72	-151.23	159.90	152.12	7.78	20.550		
500.00	499.45	500.98	499.00	3.51	3.48	-178.38	-23.58	-151.95	169.47	161.51	7.95	21.310		
600.00	598.73	601.81	598.17	3.62	3.58	-178.71	-24.44	-152.68	182.25	174.08	8.17	22.310		
700.00	697.94	702.72	697.25	3.77	3.70	-179.01	-25.30	-153.40	195.71	187.29	8.41	23.263		
800.00	797.14	803.64	796.33	3.94	3.84	-179.27	-26.17	-154.12	209.17	200.47	8.69	24.066		
900.00	896.34	904.55	895.40	4.13	3.99	-179.50	-27.03	-154.84	222.63	213.63	9.00	24.733		
1,000.00	995.55	1,005.47	994.48	4.33	4.15	-179.70	-27.89	-155.57	236.10	226.76	9.34	25.280		
1,100.00	1,094.75	1,106.38	1,093.56	4.55	4.33	-179.89	-28.75	-156.29	249.56	239.86	9.70	25.724		
1,200.00	1,193.95	1,207.29	1,192.64	4.79	4.51	179.95	-29.61	-157.01	263.04	252.95	10.09	26.081		
1,300.00	1,293.15	1,308.21	1,291.72	5.04	4.71	179.80	-30.47	-157.73	276.51	266.02	10.49	26.364		
1,400.00	1,392.36	1,409.12	1,390.80	5.29	4.91	179.67	-31.33	-158.46	289.98	279.08	10.91	26.585		
1,500.00	1,491.56	1,489.96	1,489.88	5.56	5.08	179.55	-32.19	-159.18	303.46	292.16	11.30	26.855		
1,600.00	1,590.76	1,589.05	1,588.96	5.83	5.29	179.44	-33.05	-159.90	316.94	305.20	11.74	26.991		
1,700.00	1,689.96	1,688.13	1,688.04	6.11	5.51	179.34	-33.92	-160.63	330.42	318.22	12.20	27.093		
1,800.00	1,789.17	1,787.22	1,787.12	6.39	5.73	179.24	-34.78	-161.35	343.90	331.24	12.66	27.166		
1,900.00	1,888.37	1,886.31	1,886.20	6.54	5.96	179.16	-35.64	-162.07	357.38	344.74	12.63	28.288		
2,000.00	1,987.57	1,985.39	1,985.28	6.57	6.19	179.08	-36.50	-162.79	370.86	357.98	12.88	28.796		
2,100.00	2,086.77	2,084.48	2,084.36	6.61	6.42	179.00	-37.36	-163.52	384.34	371.20	13.14	29.246		
2,200.00	2,185.98	2,183.56	2,183.44	6.67	6.66	178.93	-38.22	-164.24	397.82	384.40	13.42	29.642		
2,300.00	2,285.18	2,282.65	2,282.52	6.74	6.90	178.87	-39.08	-164.96	411.30	397.59	13.72	29.985		
2,400.00	2,384.38	2,381.74	2,381.60	6.83	7.14	178.80	-39.94	-165.68	424.79	410.76	14.03	30.280		
2,500.00	2,483.59	2,480.82	2,480.68	6.92	7.38	178.75	-40.80	-166.41	438.27	423.92	14.36	30.530		
2,600.00	2,582.79	2,579.91	2,579.76	7.03	7.63	178.69	-41.67	-167.13	451.76	437.06	14.70	30.739		
2,700.00	2,681.99	2,678.99	2,678.84	7.15	7.88	178.64	-42.53	-167.85	465.24	450.19	15.05	30.910		
2,800.00	2,781.19	2,778.08	2,777.91	7.29	8.13	178.59	-43.39	-168.57	478.73	463.31	15.42	31.048		
2,900.00	2,880.40	2,877.16	2,876.99	7.43	8.38	178.55	-44.25	-169.30	492.21	476.41	15.80	31.155		
3,000.00	2,979.60	2,976.25	2,976.07	7.58	8.63	178.51	-45.11	-170.02	505.70	489.51	16.19	31.235		
3,100.00	3,078.80	3,075.34	3,075.15	7.74	8.88	178.47	-45.97	-170.74	519.18	502.59	16.59	31.291		
3,200.00	3,178.00	3,174.42	3,174.23	7.91	9.14	178.43	-46.83	-171.46	532.67	515.66	17.00	31.326		
3,300.00	3,277.21	3,273.51	3,273.31	8.09	9.39	178.39	-47.69	-172.19	546.15	528.73	17.43	31.342		
3,400.00	3,376.41	3,372.59	3,372.39	8.28	9.65	178.35	-48.55	-172.91	559.64	541.78	17.86	31.342		
3,500.00	3,475.61	3,471.68	3,471.47	8.48	9.91	178.32	-49.42	-173.63	573.13	554.83	18.29	31.328		
3,600.00	3,574.82	3,570.77	3,570.55	8.68	10.17	178.29	-50.28	-174.35	586.61	567.87	18.74	31.302		
3,700.00	3,674.02	3,669.85	3,669.63	8.88	10.43	178.26	-51.14	-175.08	600.10	580.91	19.19	31.266		
3,800.00	3,773.22	3,768.94	3,768.71	9.10	10.69	178.23	-52.00	-175.80	613.59	593.93	19.65	31.220		
3,900.00	3,872.42	3,868.02	3,867.79	9.32	10.95	178.20	-52.86	-176.52	627.08	606.96	20.12	31.168		
4,000.00	3,971.63	3,967.11	3,966.87	9.54	11.21	178.18	-53.72	-177.24	640.56	619.97	20.59	31.108		
4,100.00	4,070.83	4,066.19	4,065.95	9.77	11.47	178.15	-54.58	-177.97	654.05	632.98	21.07	31.044		
4,200.00	4,170.03	4,165.28	4,165.03	10.00	11.74	178.13	-55.44	-178.69	667.54	645.99	21.55	30.976		
4,300.00	4,269.23	4,264.37	4,264.11	10.24	12.00	178.10	-56.30	-179.41	681.03	658.99	22.04	30.904		
4,400.00	4,368.44	4,363.45	4,363.19	10.48	12.26	178.08	-57.16	-180.13	694.51	671.99	22.53	30.829		
4,500.00	4,467.64	4,462.54	4,462.27	10.72	12.53	178.06	-58.03	-180.86	708.00	684.98	23.02	30.752		
4,600.00	4,566.84	4,561.62	4,561.34	10.97	12.79	178.04	-58.89	-181.58	721.49	697.97	23.52	30.673		
4,700.00	4,666.05	4,660.71	4,660.42	11.22	13.06	178.02	-59.75	-182.30	734.98	710.95	24.02	30.593		
4,800.00	4,765.25	4,759.80	4,759.50	11.47	13.32	178.00	-60.61	-183.02	748.47	723.94	24.53	30.513		
4,900.00	4,864.45	4,858.88	4,858.58	11.73	13.59	177.98	-61.47	-183.75	761.96	736.92	25.04	30.432		
5,000.00	4,963.65	4,957.97	4,957.66	11.99	13.85	177.96	-62.33	-184.47	775.44	749.89	25.55	30.350		
5,100.00	5,062.86	5,057.05	5,056.74	12.25	14.12	177.94	-63.19	-185.19	788.93	762.87	26.06	30.269		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,162.06	5,156.14	5,155.82	12.51	14.39	177.93	-64.05	-185.91	802.42	775.84	26.58	30.188	
5,300.00	5,261.26	5,255.22	5,254.90	12.78	14.65	177.91	-64.91	-186.64	815.91	788.81	27.10	30.108	
5,400.00	5,360.46	5,354.31	5,353.98	13.05	14.92	177.89	-65.78	-187.36	829.40	801.78	27.62	30.028	
5,500.00	5,459.67	5,453.40	5,453.06	13.32	15.19	177.88	-66.64	-188.08	842.89	814.74	28.14	29.948	
5,600.00	5,558.87	5,552.48	5,552.14	13.59	15.45	177.86	-67.50	-188.80	856.38	827.71	28.67	29.870	
5,700.00	5,658.07	5,651.57	5,651.22	13.86	15.72	177.85	-68.36	-189.53	869.87	840.67	29.20	29.793	
5,800.00	5,757.27	5,750.65	5,750.30	14.13	15.99	177.84	-69.22	-190.25	883.35	853.63	29.73	29.716	
5,900.00	5,856.48	5,849.74	5,849.38	14.41	16.26	177.82	-70.08	-190.97	896.84	866.59	30.26	29.641	
6,000.00	5,955.68	5,948.83	5,948.46	14.69	16.53	177.81	-70.94	-191.69	910.33	879.54	30.79	29.567	
6,100.00	6,054.88	6,047.91	6,047.54	14.97	16.80	177.80	-71.80	-192.42	923.82	892.50	31.32	29.493	
6,200.00	6,154.09	6,147.00	6,146.62	15.25	17.06	177.78	-72.66	-193.14	937.31	905.45	31.86	29.421	
6,300.00	6,253.29	6,246.08	6,245.70	15.53	17.33	177.77	-73.53	-193.86	950.80	918.41	32.39	29.351	
6,400.00	6,352.49	6,345.17	6,344.78	15.81	17.60	177.76	-74.39	-194.58	964.29	931.36	32.93	29.281	
6,500.00	6,451.69	8,047.94	7,362.65	16.09	26.83	125.22	-77.26	760.40	935.97	906.86	29.11	32.152	
6,600.00	6,550.93	8,059.97	7,362.63	16.37	26.88	121.02	-77.18	772.43	840.39	810.72	29.67	28.321	
6,700.00	6,650.78	8,061.56	7,362.63	16.54	26.88	-121.74	-77.17	774.02	745.22	714.90	30.32	24.577	
6,800.00	6,749.67	8,047.51	7,362.65	16.66	26.83	-125.32	-77.26	759.97	652.43	621.34	31.08	20.990	
6,900.00	6,845.16	8,018.16	7,362.68	16.73	26.71	-131.92	-77.44	730.62	564.86	532.85	32.01	17.648	
7,000.00	6,934.90	7,974.23	7,362.73	16.77	26.56	-134.51	-77.72	686.69	485.37	452.20	33.17	14.633	
7,100.00	7,016.67	7,916.81	7,362.79	16.79	26.40	-134.17	-78.07	629.27	416.66	382.04	34.62	12.036	
7,200.00	7,088.47	7,847.31	7,362.87	16.84	26.25	-131.66	-78.51	559.77	360.95	324.60	36.35	9.931	
7,300.00	7,148.53	7,767.44	7,362.96	16.95	25.84	-127.62	-79.00	479.91	319.45	281.45	38.00	8.407	
7,400.00	7,195.36	7,661.96	7,359.70	17.14	24.31	-121.14	-79.63	374.54	290.34	251.64	38.70	7.502	
7,500.00	7,227.82	7,550.42	7,338.72	17.43	22.61	-112.38	-80.13	265.14	266.55	227.45	39.11	6.816	
7,600.00	7,245.11	7,449.74	7,303.65	17.83	21.39	-102.78	-80.41	170.87	249.91	210.49	39.42	6.339	
7,700.00	7,248.02	7,357.97	7,259.11	18.33	20.58	-92.38	-80.52	90.73	242.40	202.93	39.47	6.142	
7,720.18	7,248.03	7,340.99	7,249.62	18.46	20.45	-90.14	-80.53	76.65	242.14	202.68	39.46	6.137 SF	
7,800.00	7,248.07	7,279.69	7,212.33	18.96	20.07	-81.38	-80.51	28.02	246.94	207.70	39.23	6.294	
7,900.00	7,248.13	7,214.85	7,168.01	19.71	19.77	-71.49	-80.42	-19.25	268.83	230.10	38.72	6.943	
8,000.00	7,248.18	7,161.32	7,127.93	20.57	19.59	-63.41	-80.29	-54.73	308.78	270.57	38.21	8.082	
8,100.00	7,248.23	7,116.96	7,092.56	21.52	19.48	-57.10	-80.15	-81.49	363.66	325.79	37.87	9.603	
8,200.00	7,248.28	7,079.93	7,061.67	22.56	19.40	-52.23	-80.01	-101.89	429.50	391.79	37.71	11.391	
8,300.00	7,248.33	7,050.00	7,035.87	23.67	19.33	-48.59	-79.88	-117.05	503.09	465.44	37.66	13.360	
8,400.00	7,248.38	7,022.27	7,011.35	24.84	19.28	-45.46	-79.75	-130.00	582.19	544.53	37.65	15.462	
8,500.00	7,248.43	7,000.00	6,991.27	26.07	19.23	-43.13	-79.63	-139.62	665.27	627.59	37.68	17.656	
8,600.00	7,248.48	6,979.92	6,972.88	27.35	19.19	-41.15	-79.53	-147.69	751.31	713.59	37.72	19.920	
8,700.00	7,248.54	6,962.80	6,957.01	28.66	19.15	-39.56	-79.43	-154.10	839.60	801.84	37.76	22.237	
8,800.00	7,248.59	6,950.00	6,945.03	30.01	19.12	-38.43	-79.35	-158.62	929.64	891.85	37.79	24.597	
8,900.00	7,248.64	6,934.47	6,930.38	31.40	19.09	-37.12	-79.26	-163.78	1,021.06	983.22	37.84	26.987	
9,000.00	7,248.69	6,922.63	6,919.13	32.80	19.07	-36.16	-79.18	-167.47	1,113.59	1,075.72	37.87	29.403	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-105.22	-40.79	-149.89	155.34					
100.00	100.00	101.00	101.00	3.28	3.28	-105.22	-40.79	-149.89	155.34	147.81	7.53	20.633		
200.00	200.00	201.00	201.00	3.31	3.31	-105.22	-40.79	-149.89	155.34	147.77	7.57	20.509	CC, ES	
300.00	299.98	300.54	299.46	3.35	3.34	175.31	-41.31	-150.60	157.91	150.25	7.66	20.624		
400.00	399.84	400.73	399.26	3.42	3.40	175.32	-41.91	-151.43	164.08	156.30	7.78	21.082		
500.00	499.45	501.21	498.78	3.51	3.48	175.42	-42.51	-152.26	173.73	165.77	7.96	21.837		
600.00	598.73	602.04	597.94	3.62	3.59	175.59	-43.11	-153.08	186.58	178.41	8.17	22.829		
700.00	697.94	702.96	697.02	3.77	3.71	175.76	-43.71	-153.91	200.10	191.69	8.42	23.771		
800.00	797.14	803.88	796.09	3.94	3.84	175.91	-44.31	-154.74	213.62	204.93	8.70	24.561		
900.00	896.34	904.80	895.17	4.13	3.99	176.04	-44.91	-155.56	227.15	218.14	9.01	25.215		
1,000.00	995.55	1,005.72	994.24	4.33	4.16	176.16	-45.51	-156.39	240.67	231.32	9.35	25.748		
1,100.00	1,094.75	1,106.64	1,093.32	4.55	4.33	176.27	-46.11	-157.21	254.20	244.49	9.71	26.179		
1,200.00	1,193.95	1,207.56	1,192.39	4.79	4.52	176.36	-46.71	-158.04	267.72	257.63	10.09	26.521		
1,300.00	1,293.15	1,308.48	1,291.47	5.04	4.71	176.44	-47.31	-158.86	281.25	270.75	10.50	26.791		
1,400.00	1,392.36	1,409.40	1,390.54	5.29	4.92	176.52	-47.91	-159.69	294.77	283.85	10.92	26.999		
1,500.00	1,491.56	1,489.68	1,489.62	5.56	5.08	176.59	-48.51	-160.51	308.30	296.99	11.31	27.261		
1,600.00	1,590.76	1,588.76	1,588.69	5.83	5.30	176.66	-49.11	-161.34	321.83	310.08	11.75	27.386		
1,700.00	1,689.96	1,687.84	1,687.77	6.11	5.51	176.72	-49.71	-162.16	335.35	323.15	12.21	27.476		
1,800.00	1,789.17	1,786.92	1,786.84	6.39	5.73	176.77	-50.31	-162.99	348.88	336.21	12.67	27.539		
1,900.00	1,888.37	1,886.00	1,885.92	6.54	5.86	176.82	-50.91	-163.81	362.41	349.87	12.55	28.887		
2,000.00	1,987.57	1,985.08	1,984.99	6.57	5.89	176.87	-51.51	-164.64	375.94	363.35	12.59	29.864		
2,100.00	2,086.77	2,084.16	2,084.07	6.61	5.91	176.91	-52.11	-165.47	389.47	376.83	12.64	30.809		
2,200.00	2,185.98	2,183.24	2,183.14	6.67	5.95	176.95	-52.71	-166.29	403.00	390.28	12.72	31.680		
2,300.00	2,285.18	2,282.32	2,282.22	6.74	6.00	176.99	-53.31	-167.12	416.53	403.70	12.83	32.475		
2,400.00	2,384.38	2,381.40	2,381.29	6.83	6.06	177.03	-53.91	-167.94	430.06	417.10	12.96	33.192		
2,500.00	2,483.59	2,480.49	2,480.37	6.92	6.13	177.06	-54.51	-168.77	443.59	430.47	13.11	33.831		
2,600.00	2,582.79	2,579.57	2,579.44	7.03	6.22	177.09	-55.11	-169.59	457.12	443.83	13.29	34.395		
2,700.00	2,681.99	2,678.65	2,678.52	7.15	6.31	177.12	-55.71	-170.42	470.64	457.15	13.49	34.886		
2,800.00	2,781.19	2,777.73	2,777.59	7.29	6.41	177.15	-56.30	-171.24	484.17	470.46	13.71	35.306		
2,900.00	2,880.40	2,876.81	2,876.67	7.43	6.53	177.18	-56.90	-172.07	497.70	483.75	13.96	35.661		
3,000.00	2,979.60	2,975.89	2,975.74	7.58	6.65	177.20	-57.50	-172.89	511.23	497.02	14.22	35.955		
3,100.00	3,078.80	3,074.97	3,074.82	7.74	6.78	177.23	-58.10	-173.72	524.77	510.27	14.50	36.193		
3,200.00	3,178.00	3,174.05	3,173.89	7.91	6.92	177.25	-58.70	-174.55	538.30	523.50	14.80	36.379		
3,300.00	3,277.21	3,273.13	3,272.96	8.09	7.07	177.27	-59.30	-175.37	551.83	536.71	15.11	36.518		
3,400.00	3,376.41	3,372.21	3,372.04	8.28	7.23	177.29	-59.90	-176.20	565.36	549.92	15.44	36.617		
3,500.00	3,475.61	3,471.29	3,471.11	8.48	7.39	177.31	-60.50	-177.02	578.89	563.10	15.78	36.678		
3,600.00	3,574.82	3,570.37	3,570.19	8.68	7.56	177.33	-61.10	-177.85	592.42	576.28	16.14	36.707		
3,700.00	3,674.02	3,669.45	3,669.26	8.88	7.73	177.35	-61.70	-178.67	605.95	589.44	16.51	36.707		
3,800.00	3,773.22	3,768.53	3,768.34	9.10	7.91	177.36	-62.30	-179.50	619.48	602.59	16.89	36.682		
3,900.00	3,872.42	3,867.61	3,867.41	9.32	8.10	177.38	-62.90	-180.32	633.01	615.73	17.28	36.635		
4,000.00	3,971.63	3,966.69	3,966.49	9.54	8.29	177.40	-63.50	-181.15	646.54	628.86	17.68	36.570		
4,100.00	4,070.83	4,065.77	4,065.56	9.77	8.49	177.41	-64.10	-181.97	660.07	641.98	18.09	36.489		
4,200.00	4,170.03	4,164.85	4,164.64	10.00	8.69	177.43	-64.70	-182.80	673.60	655.09	18.51	36.395		
4,300.00	4,269.23	4,263.93	4,263.71	10.24	8.89	177.44	-65.30	-183.62	687.13	668.20	18.94	36.289		
4,400.00	4,368.44	4,363.01	4,362.79	10.48	9.10	177.45	-65.90	-184.45	700.66	681.29	19.37	36.174		
4,500.00	4,467.64	4,462.09	4,461.86	10.72	9.31	177.47	-66.50	-185.28	714.19	694.38	19.81	36.051		
4,600.00	4,566.84	4,561.17	4,560.94	10.97	9.52	177.48	-67.10	-186.10	727.73	707.47	20.26	35.922		
4,700.00	4,666.05	4,660.25	4,660.01	11.22	9.74	177.49	-67.70	-186.93	741.26	720.54	20.71	35.788		
4,800.00	4,765.25	4,759.33	4,759.09	11.47	9.96	177.50	-68.30	-187.75	754.79	733.62	21.17	35.650		
4,900.00	4,864.45	4,858.41	4,858.16	11.73	10.18	177.51	-68.90	-188.58	768.32	746.68	21.64	35.509		
5,000.00	4,963.65	4,957.49	4,957.24	11.99	10.40	177.52	-69.50	-189.40	781.85	759.74	22.11	35.366		
5,100.00	5,062.86	5,056.57	5,056.31	12.25	10.63	177.53	-70.10	-190.23	795.38	772.80	22.58	35.222		

Hewlett-Packard

Anticollision Report

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

Offset Design											5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)				
5,200.00	5,162.06	5,155.65	5,155.39	12.51	10.86	177.54	-70.70	-191.05	808.91	785.85	23.06	35.077			
5,300.00	5,261.26	5,254.73	5,254.46	12.78	11.09	177.55	-71.30	-191.88	822.44	798.90	23.54	34.932			
5,400.00	5,360.46	5,353.81	5,353.54	13.05	11.32	177.56	-71.90	-192.70	835.98	811.94	24.03	34.787			
5,500.00	5,459.67	5,452.89	5,452.61	13.32	11.56	177.57	-72.50	-193.53	849.51	824.98	24.52	34.642			
5,600.00	5,558.87	5,551.97	5,551.69	13.59	11.79	177.58	-73.10	-194.35	863.04	838.02	25.02	34.499			
5,700.00	5,658.07	5,651.05	5,650.76	13.86	12.03	177.59	-73.70	-195.18	876.57	851.06	25.51	34.357			
5,800.00	5,757.27	5,750.13	5,749.84	14.13	12.27	177.60	-74.30	-196.01	890.10	864.09	26.01	34.216			
5,900.00	5,856.48	5,849.21	5,848.91	14.41	12.51	177.61	-74.90	-196.83	903.63	877.11	26.52	34.077			
6,000.00	5,955.68	5,948.29	5,947.99	14.69	12.75	177.61	-75.49	-197.66	917.16	890.14	27.02	33.940			
6,100.00	6,054.88	6,047.37	6,047.06	14.97	13.00	177.62	-76.09	-198.48	930.69	903.16	27.53	33.805			
6,200.00	6,154.09	6,147.06	6,146.75	15.25	13.25	177.63	-76.69	-199.29	944.21	916.14	28.04	33.671			
6,300.00	6,253.29	6,246.26	6,245.95	15.53	13.50	177.64	-77.29	-200.10	957.73	929.16	28.55	33.537			
6,400.00	6,352.49	6,345.46	6,345.15	15.81	13.75	177.65	-77.89	-200.91	971.25	942.18	29.06	33.403			
6,500.00	6,451.69	6,444.66	6,444.35	16.09	14.00	177.66	-78.49	-201.72	984.77	955.19	29.57	33.269			
6,600.00	6,550.93	6,543.90	6,543.59	16.37	14.25	177.67	-79.09	-202.53	998.29	968.21	30.08	33.135			
6,700.00	6,650.17	6,643.14	6,642.83	16.65	14.50	177.68	-79.69	-203.34	1011.81	981.23	30.59	33.001			
6,800.00	6,749.41	6,742.38	6,742.07	16.93	14.75	177.69	-80.29	-204.15	1025.33	994.25	31.08	32.867			
6,900.00	6,848.65	6,841.62	6,841.31	17.21	15.00	177.70	-80.89	-204.96	1038.85	1007.27	31.58	32.733			
7,000.00	6,947.89	6,940.86	6,940.55	17.49	15.25	177.71	-81.49	-205.77	1052.37	1020.29	32.08	32.599			
7,100.00	7,047.13	7,040.10	7,039.79	17.77	15.50	177.72	-82.09	-206.58	1065.89	1033.31	32.58	32.465			
7,125.00	7,035.63	7,028.60	7,028.29	17.81	15.56	177.72	-82.15	-206.63	1068.68	1035.63	32.66	32.444	6.827 SF		
7,200.00	7,088.47	7,081.44	7,081.13	18.09	15.81	177.73	-82.75	-207.44	1082.20	1048.74	33.08	32.310			
7,300.00	7,148.53	7,141.50	7,141.19	18.37	16.06	177.74	-83.35	-208.25	1095.72	1061.76	33.58	32.166			
7,400.00	7,195.36	7,188.33	7,187.99	18.65	16.31	177.75	-83.95	-209.06	1109.24	1074.78	34.08	32.022			
7,500.00	7,227.82	7,220.79	7,220.48	18.93	16.56	177.76	-84.55	-209.87	1122.76	1087.80	34.58	31.878			
7,600.00	7,245.11	7,238.08	7,237.77	19.21	16.81	177.77	-85.15	-210.68	1136.28	1100.82	35.08	31.734			
7,700.00	7,248.02	7,241.00	7,240.69	19.49	17.06	177.78	-85.75	-211.49	1149.79	1113.84	35.58	31.590			
7,800.00	7,248.07	7,241.05	7,240.74	19.77	17.31	177.79	-86.35	-212.30	1163.31	1126.86	36.08	31.446			
7,900.00	7,248.13	7,241.10	7,240.79	20.05	17.56	177.80	-86.95	-213.11	1176.83	1139.88	36.58	31.302			
8,000.00	7,248.18	7,241.15	7,240.84	20.33	17.81	177.81	-87.55	-213.92	1190.35	1152.90	37.08	31.158			
8,100.00	7,248.23	7,241.20	7,240.89	20.61	18.06	177.82	-88.15	-214.73	1203.87	1165.92	37.58	31.014			
8,200.00	7,248.28	7,241.25	7,240.94	20.89	18.31	177.83	-88.75	-215.54	1217.39	1178.94	38.08	30.870			
8,300.00	7,248.33	7,241.30	7,240.99	21.17	18.56	177.84	-89.35	-216.35	1230.91	1191.96	38.58	30.726			
8,400.00	7,248.38	7,241.35	7,241.04	21.45	18.81	177.85	-89.95	-217.16	1244.43	1204.98	39.08	30.582			
8,500.00	7,248.43	7,241.40	7,241.09	21.73	19.06	177.86	-90.55	-217.97	1257.95	1218.00	39.58	30.438			
8,600.00	7,248.48	7,241.45	7,241.14	22.01	19.31	177.87	-91.15	-218.78	1271.47	1231.02	40.08	30.294			
8,700.00	7,248.54	7,241.50	7,241.19	22.29	19.56	177.88	-91.75	-219.59	1284.99	1244.04	40.58	30.150			
8,800.00	7,248.59	7,241.55	7,241.24	22.57	19.81	177.89	-92.35	-220.40	1298.51	1257.06	41.08	30.006			
8,900.00	7,248.64	7,241.60	7,241.29	22.85	20.06	177.90	-92.95	-221.21	1312.03	1270.08	41.58	29.862			

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-90.42	-1.09	-150.17	150.17					
100.00	100.00	101.00	101.00	3.28	3.28	-90.42	-1.09	-150.17	150.17	142.65	7.53	19.946		
200.00	200.00	201.00	201.00	3.31	3.31	-90.42	-1.09	-150.17	150.17	142.60	7.57	19.827		
300.00	299.98	300.31	299.68	3.35	3.35	-169.34	0.45	-150.70	152.42	144.76	7.66	19.892		
400.00	399.84	400.50	399.45	3.42	3.42	-168.77	2.92	-151.55	158.42	150.63	7.80	20.322		
500.00	499.45	500.96	498.96	3.51	3.51	-168.48	5.39	-152.40	167.85	159.88	7.97	21.050		
600.00	598.73	601.75	598.13	3.62	3.61	-168.42	7.84	-153.24	180.43	172.24	8.20	22.014		
700.00	697.94	702.63	697.21	3.77	3.74	-168.44	10.29	-154.09	193.66	185.22	8.45	22.929		
800.00	797.14	803.51	796.30	3.94	3.88	-168.46	12.75	-154.93	206.90	198.17	8.73	23.699		
900.00	896.34	904.39	895.39	4.13	4.04	-168.47	15.20	-155.78	220.13	211.09	9.04	24.338		
1,000.00	995.55	1,005.27	994.47	4.33	4.20	-168.49	17.65	-156.62	233.36	223.98	9.39	24.862		
1,100.00	1,094.75	1,106.15	1,093.56	4.55	4.38	-168.50	20.11	-157.47	246.60	236.85	9.75	25.286		
1,200.00	1,193.95	1,207.03	1,192.65	4.79	4.57	-168.51	22.56	-158.31	259.83	249.69	10.14	25.627		
1,300.00	1,293.15	1,307.91	1,291.73	5.04	4.77	-168.52	25.01	-159.16	273.06	262.52	10.54	25.896		
1,400.00	1,392.36	1,408.79	1,390.82	5.29	4.98	-168.53	27.47	-160.00	286.30	275.33	10.97	26.107		
1,500.00	1,491.56	1,509.67	1,489.91	5.56	5.19	-168.54	29.92	-160.85	299.53	288.13	11.40	26.269		
1,600.00	1,590.76	1,589.45	1,588.99	5.83	5.36	-168.55	32.37	-161.69	312.77	300.96	11.80	26.494		
1,700.00	1,689.96	1,688.57	1,688.08	6.11	5.58	-168.55	34.83	-162.54	326.00	313.74	12.26	26.591		
1,800.00	1,789.17	1,787.69	1,787.17	6.39	5.81	-168.56	37.28	-163.38	339.23	326.51	12.72	26.660		
1,900.00	1,888.37	1,886.81	1,886.25	6.54	5.94	-168.56	39.73	-164.23	352.47	339.86	12.60	27.969		
2,000.00	1,987.57	1,985.93	1,985.34	6.57	5.96	-168.57	42.19	-165.07	365.70	353.05	12.64	28.922		
2,100.00	2,086.77	2,085.06	2,084.43	6.61	5.99	-168.58	44.64	-165.92	378.93	366.23	12.70	29.842		
2,200.00	2,185.98	2,184.18	2,183.51	6.67	6.02	-168.58	47.09	-166.76	392.17	379.39	12.78	30.691		
2,300.00	2,285.18	2,283.30	2,282.60	6.74	6.07	-168.58	49.55	-167.61	405.40	392.52	12.88	31.468		
2,400.00	2,384.38	2,382.42	2,381.69	6.83	6.13	-168.59	52.00	-168.45	418.63	405.62	13.01	32.171		
2,500.00	2,483.59	2,481.54	2,480.77	6.92	6.20	-168.59	54.45	-169.29	431.87	418.70	13.17	32.799		
2,600.00	2,582.79	2,580.66	2,579.86	7.03	6.29	-168.60	56.91	-170.14	445.10	431.76	13.34	33.355		
2,700.00	2,681.99	2,679.78	2,678.95	7.15	6.38	-168.60	59.36	-170.98	458.33	444.79	13.54	33.841		
2,800.00	2,781.19	2,778.90	2,778.03	7.29	6.48	-168.60	61.81	-171.83	471.57	457.80	13.76	34.259		
2,900.00	2,880.40	2,878.02	2,877.12	7.43	6.60	-168.61	64.27	-172.67	484.80	470.79	14.01	34.615		
3,000.00	2,979.60	2,977.14	2,976.21	7.58	6.72	-168.61	66.72	-173.52	498.03	483.77	14.27	34.911		
3,100.00	3,078.80	3,076.26	3,075.29	7.74	6.85	-168.61	69.17	-174.36	511.27	496.72	14.54	35.153		
3,200.00	3,178.00	3,175.38	3,174.38	7.91	6.99	-168.61	71.63	-175.21	524.50	509.66	14.84	35.345		
3,300.00	3,277.21	3,274.50	3,273.46	8.09	7.14	-168.62	74.08	-176.05	537.73	522.58	15.15	35.493		
3,400.00	3,376.41	3,373.62	3,372.55	8.28	7.29	-168.62	76.53	-176.90	550.97	535.49	15.48	35.600		
3,500.00	3,475.61	3,472.74	3,471.64	8.48	7.45	-168.62	78.99	-177.74	564.20	548.38	15.82	35.671		
3,600.00	3,574.82	3,571.86	3,570.72	8.68	7.62	-168.62	81.44	-178.59	577.43	561.26	16.17	35.710		
3,700.00	3,674.02	3,670.98	3,669.81	8.88	7.79	-168.63	83.89	-179.43	590.67	574.13	16.54	35.720		
3,800.00	3,773.22	3,770.10	3,768.90	9.10	7.97	-168.63	86.35	-180.28	603.90	586.99	16.91	35.707		
3,900.00	3,872.42	3,869.22	3,867.98	9.32	8.16	-168.63	88.80	-181.12	617.13	599.83	17.30	35.671		
4,000.00	3,971.63	3,968.34	3,967.07	9.54	8.35	-168.63	91.25	-181.97	630.37	612.67	17.70	35.618		
4,100.00	4,070.83	4,067.47	4,066.16	9.77	8.54	-168.63	93.71	-182.81	643.60	625.50	18.10	35.548		
4,200.00	4,170.03	4,166.59	4,165.24	10.00	8.74	-168.63	96.16	-183.66	656.83	638.31	18.52	35.465		
4,300.00	4,269.23	4,265.71	4,264.33	10.24	8.94	-168.64	98.61	-184.50	670.07	651.12	18.94	35.371		
4,400.00	4,368.44	4,364.83	4,363.42	10.48	9.15	-168.64	101.07	-185.34	683.30	663.93	19.38	35.267		
4,500.00	4,467.64	4,463.95	4,462.50	10.72	9.36	-168.64	103.52	-186.19	696.53	676.72	19.81	35.155		
4,600.00	4,566.84	4,563.07	4,561.59	10.97	9.57	-168.64	105.97	-187.03	709.77	689.51	20.26	35.037		
4,700.00	4,666.05	4,662.19	4,660.68	11.22	9.79	-168.64	108.43	-187.88	723.00	702.29	20.71	34.913		
4,800.00	4,765.25	4,761.31	4,759.76	11.47	10.01	-168.64	110.88	-188.72	736.23	715.07	21.16	34.786		
4,900.00	4,864.45	4,860.43	4,858.85	11.73	10.23	-168.64	113.33	-189.57	749.47	727.84	21.63	34.655		
5,000.00	4,963.65	4,959.55	4,957.94	11.99	10.45	-168.65	115.79	-190.41	762.70	740.61	22.09	34.522		
5,100.00	5,062.86	5,058.67	5,057.02	12.25	10.68	-168.65	118.24	-191.26	775.94	753.37	22.56	34.387		

Hewlett-Packard

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,157.79	5,156.11	12.51	10.91	-168.65	120.69	-192.10	789.17	766.13	23.04	34.251		
5,300.00	5,261.26	5,256.91	5,255.20	12.78	11.14	-168.65	123.15	-192.95	802.40	778.88	23.52	34.114		
5,400.00	5,360.46	5,356.03	5,354.28	13.05	11.37	-168.65	125.60	-193.79	815.64	791.63	24.00	33.978		
5,500.00	5,459.67	5,455.15	5,453.37	13.32	11.60	-168.65	128.05	-194.64	828.87	804.38	24.49	33.842		
5,600.00	5,558.87	5,554.27	5,552.46	13.59	11.84	-168.65	130.51	-195.48	842.10	817.12	24.98	33.707		
5,700.00	5,658.07	5,653.39	5,651.54	13.86	12.08	-168.65	132.96	-196.33	855.34	829.86	25.48	33.572		
5,800.00	5,757.27	5,752.51	5,750.63	14.13	12.31	-168.65	135.41	-197.17	868.57	842.59	25.97	33.439		
5,900.00	5,856.48	5,851.63	5,849.72	14.41	12.55	-168.66	137.87	-198.02	881.80	855.33	26.47	33.307		
6,000.00	5,955.68	5,950.76	5,948.80	14.69	12.80	-168.66	140.32	-198.86	895.04	868.06	26.98	33.177		
6,100.00	6,054.88	6,049.88	6,047.89	14.97	13.04	-168.66	142.77	-199.70	908.27	880.79	27.48	33.049		
6,200.00	6,154.09	6,149.00	6,146.97	15.25	13.28	-168.66	145.23	-200.55	921.50	893.51	27.99	32.922		
6,300.00	6,253.29	7,841.96	7,173.45	15.53	21.40	-165.51	166.17	735.06	919.62	891.87	27.75	33.134		
6,400.00	6,352.49	7,854.16	7,173.43	15.81	21.53	-165.08	166.11	747.26	820.37	792.31	28.06	29.241		
6,500.00	6,451.69	7,866.35	7,173.41	16.09	21.67	-164.54	166.06	759.45	721.12	692.76	28.36	25.427		
6,600.00	6,550.93	7,878.29	7,173.38	16.37	21.80	-159.06	166.00	771.38	621.84	593.17	28.67	21.691		
6,700.00	6,650.78	7,879.78	7,173.38	16.54	21.82	146.88	165.99	772.88	521.96	493.03	28.93	18.040		
6,800.00	6,749.67	7,865.64	7,173.41	16.66	21.66	169.34	166.06	758.73	423.09	393.97	29.12	14.529		
6,900.00	6,845.16	7,836.19	7,173.46	16.73	21.33	172.86	166.20	729.29	327.65	298.43	29.22	11.214		
7,000.00	6,934.90	7,807.82	7,173.54	16.77	21.02	173.82	166.41	685.28	238.00	208.70	29.30	8.123		
7,100.00	7,016.67	7,734.68	7,173.65	16.79	20.25	173.49	166.69	627.78	156.39	127.18	29.20	5.355		
7,200.00	7,088.47	7,665.11	7,173.77	16.84	19.56	171.12	167.02	558.21	84.88	55.72	29.16	2.911		
7,300.00	7,148.53	7,585.18	7,173.92	16.95	18.81	157.01	167.40	478.28	25.90	-3.76	29.66	0.873 Level 1		
7,348.84	7,173.14	7,542.96	7,173.99	17.04	18.45	88.87	167.60	436.06	8.28	-27.77	36.05	0.230 Level 1, CC, ES, SF		
7,400.00	7,195.36	7,498.40	7,172.66	17.14	18.09	20.43	167.78	391.53	25.02	-5.15	30.17	0.829 Level 1		
7,500.00	7,227.82	7,414.90	7,161.80	17.43	17.45	6.66	167.90	308.80	68.69	39.04	29.65	2.316		
7,600.00	7,245.11	7,335.28	7,141.46	17.83	16.90	3.70	167.76	231.88	110.46	80.44	30.02	3.680		
7,700.00	7,248.02	7,259.12	7,113.17	18.33	16.45	2.49	167.40	161.22	150.30	119.77	30.53	4.923		
7,800.00	7,248.07	7,189.98	7,080.35	18.96	16.09	1.80	166.87	100.41	197.86	166.77	31.09	6.365		
7,900.00	7,248.13	7,128.94	7,046.04	19.71	15.82	1.30	166.26	49.95	254.16	222.55	31.61	8.041		
8,000.00	7,248.18	7,075.59	7,012.21	20.57	15.61	0.95	165.62	8.71	317.66	285.59	32.07	9.906		
8,100.00	7,248.23	7,029.17	6,980.07	21.52	15.45	0.69	164.99	-24.75	387.00	354.55	32.46	11.924		
8,200.00	7,248.28	6,988.84	6,950.22	22.56	15.32	0.49	164.38	-51.86	461.09	428.31	32.78	14.067		
8,300.00	7,248.33	6,950.00	6,919.91	23.67	15.21	0.33	163.74	-76.13	539.05	506.01	33.04	16.315		
8,400.00	7,248.38	6,923.06	6,898.04	24.84	15.13	0.23	163.28	-91.85	620.09	586.83	33.26	18.645		
8,500.00	7,248.43	6,900.00	6,878.82	26.07	15.07	0.15	162.86	-104.57	703.74	670.31	33.43	21.051		
8,600.00	7,248.48	6,872.46	6,855.27	27.35	15.00	0.07	162.35	-118.83	789.45	755.87	33.58	23.507		
8,700.00	7,248.54	6,850.00	6,835.62	28.66	14.94	0.00	161.91	-129.70	876.94	843.23	33.71	26.013		
8,800.00	7,248.59	6,832.80	6,820.32	30.01	14.90	-0.05	161.57	-137.55	965.89	932.08	33.81	28.566		
8,900.00	7,248.64	6,816.11	6,805.27	31.40	14.86	-0.09	161.23	-144.77	1,056.08	1,022.18	33.90	31.150		
9,000.00	7,248.69	6,800.00	6,790.58	32.80	14.82	-0.13	160.90	-151.36	1,147.31	1,113.33	33.99	33.758		

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Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-112.13	-60.84	-149.61	161.51					
100.00	100.00	101.00	101.00	3.28	3.28	-112.13	-60.84	-149.61	161.51	153.98	7.53	21.452		
200.00	200.00	201.00	201.00	3.31	3.31	-112.13	-60.84	-149.61	161.51	153.94	7.57	21.324	CC, ES	
300.00	299.98	297.82	297.80	3.35	3.34	168.10	-62.47	-149.96	164.19	156.53	7.66	21.447		
400.00	399.84	402.78	397.13	3.42	3.40	167.40	-66.10	-150.73	171.43	163.65	7.78	22.027		
500.00	499.45	503.36	496.48	3.51	3.48	166.99	-69.75	-151.51	182.10	174.14	7.95	22.892		
600.00	598.73	604.32	595.45	3.62	3.58	166.84	-73.38	-152.28	195.89	187.72	8.17	23.970		
700.00	697.94	694.63	694.33	3.77	3.69	166.79	-77.02	-153.05	210.34	201.93	8.41	25.023		
800.00	797.14	806.42	793.22	3.94	3.84	166.75	-80.65	-153.82	224.78	216.08	8.70	25.831		
900.00	896.34	907.47	892.10	4.13	4.00	166.71	-84.28	-154.60	239.23	230.21	9.02	26.530		
1,000.00	995.55	1,008.51	990.98	4.33	4.16	166.68	-87.91	-155.37	253.67	244.31	9.36	27.099		
1,100.00	1,094.75	1,109.56	1,089.86	4.55	4.34	166.65	-91.54	-156.14	268.12	258.39	9.73	27.555		
1,200.00	1,193.95	1,189.39	1,188.74	4.79	4.50	166.62	-95.17	-156.91	282.56	272.48	10.08	28.030		
1,300.00	1,293.15	1,288.34	1,287.62	5.04	4.69	166.60	-98.80	-157.68	297.00	286.52	10.49	28.325		
1,400.00	1,392.36	1,387.29	1,386.50	5.29	4.89	166.58	-102.43	-158.46	311.45	300.54	10.91	28.554		
1,500.00	1,491.56	1,486.24	1,485.39	5.56	5.10	166.56	-106.06	-159.23	325.89	314.55	11.34	28.728		
1,600.00	1,590.76	1,585.19	1,584.27	5.83	5.32	166.54	-109.70	-160.00	340.34	328.55	11.79	28.857		
1,700.00	1,689.96	1,684.14	1,683.15	6.11	5.54	166.52	-113.33	-160.77	354.78	342.53	12.26	28.949		
1,800.00	1,789.17	1,783.09	1,782.03	6.39	5.77	166.51	-116.96	-161.54	369.23	356.50	12.73	29.011		
1,900.00	1,888.37	1,882.05	1,880.91	6.54	5.91	166.49	-120.59	-162.31	383.67	371.06	12.61	30.416		
2,000.00	1,987.57	1,981.00	1,979.79	6.57	5.94	166.48	-124.22	-163.09	398.12	385.46	12.66	31.438		
2,100.00	2,086.77	2,079.95	2,078.67	6.61	5.97	166.47	-127.85	-163.86	412.56	399.85	12.72	32.437		
2,200.00	2,185.98	2,178.90	2,177.56	6.67	6.01	166.46	-131.48	-164.63	427.01	414.21	12.80	33.357		
2,300.00	2,285.18	2,277.85	2,276.44	6.74	6.06	166.45	-135.11	-165.40	441.45	428.54	12.91	34.196		
2,400.00	2,384.38	2,376.80	2,375.32	6.83	6.12	166.44	-138.74	-166.17	455.90	442.86	13.04	34.953		
2,500.00	2,483.59	2,475.75	2,474.20	6.92	6.20	166.43	-142.38	-166.95	470.34	457.14	13.20	35.627		
2,600.00	2,582.79	2,574.70	2,573.08	7.03	6.28	166.42	-146.01	-167.72	484.79	471.41	13.38	36.220		
2,700.00	2,681.99	2,673.65	2,671.96	7.15	6.38	166.41	-149.64	-168.49	499.23	485.65	13.59	36.736		
2,800.00	2,781.19	2,772.61	2,770.85	7.29	6.49	166.40	-153.27	-169.26	513.68	499.86	13.82	37.178		
2,900.00	2,880.40	2,871.56	2,869.73	7.43	6.61	166.39	-156.90	-170.03	528.13	514.06	14.06	37.551		
3,000.00	2,979.60	2,970.51	2,968.61	7.58	6.73	166.39	-160.53	-170.80	542.57	528.24	14.33	37.858		
3,100.00	3,078.80	3,069.46	3,067.49	7.74	6.87	166.38	-164.16	-171.58	557.02	542.40	14.62	38.107		
3,200.00	3,178.00	3,168.41	3,166.37	7.91	7.01	166.37	-167.79	-172.35	571.46	556.54	14.92	38.301		
3,300.00	3,277.21	3,267.36	3,265.25	8.09	7.17	166.37	-171.42	-173.12	585.91	570.67	15.24	38.446		
3,400.00	3,376.41	3,366.31	3,364.13	8.28	7.33	166.36	-175.06	-173.89	600.35	584.78	15.57	38.548		
3,500.00	3,475.61	3,465.26	3,463.02	8.48	7.49	166.36	-178.69	-174.66	614.80	598.87	15.92	38.611		
3,600.00	3,574.82	3,564.22	3,561.90	8.68	7.67	166.35	-182.32	-175.44	629.24	612.96	16.28	38.640		
3,700.00	3,674.02	3,663.17	3,660.78	8.88	7.85	166.35	-185.95	-176.21	643.69	627.03	16.66	38.638		
3,800.00	3,773.22	3,762.12	3,759.66	9.10	8.03	166.34	-189.58	-176.98	658.13	641.09	17.05	38.610		
3,900.00	3,872.42	3,861.07	3,858.54	9.32	8.22	166.34	-193.21	-177.75	672.58	655.13	17.44	38.560		
4,000.00	3,971.63	3,960.02	3,957.42	9.54	8.42	166.33	-196.84	-178.52	687.02	669.17	17.85	38.491		
4,100.00	4,070.83	4,058.97	4,056.31	9.77	8.62	166.33	-200.47	-179.30	701.47	683.20	18.27	38.404		
4,200.00	4,170.03	4,157.92	4,155.19	10.00	8.82	166.32	-204.10	-180.07	715.91	697.22	18.69	38.304		
4,300.00	4,269.23	4,256.87	4,254.07	10.24	9.03	166.32	-207.74	-180.84	730.36	711.23	19.12	38.192		
4,400.00	4,368.44	4,355.82	4,352.95	10.48	9.24	166.32	-211.37	-181.61	744.80	725.24	19.56	38.071		
4,500.00	4,467.64	4,454.78	4,451.83	10.72	9.46	166.31	-215.00	-182.38	759.25	739.24	20.01	37.941		
4,600.00	4,566.84	4,553.73	4,550.71	10.97	9.68	166.31	-218.63	-183.15	773.69	753.23	20.47	37.805		
4,700.00	4,666.05	4,652.68	4,649.59	11.22	9.90	166.31	-222.26	-183.93	788.14	767.21	20.93	37.664		
4,800.00	4,765.25	4,751.63	4,748.48	11.47	10.12	166.30	-225.89	-184.70	802.58	781.19	21.39	37.518		
4,900.00	4,864.45	4,850.58	4,847.36	11.73	10.35	166.30	-229.52	-185.47	817.03	795.17	21.86	37.370		
5,000.00	4,963.65	4,949.53	4,946.24	11.99	10.58	166.30	-233.15	-186.24	831.47	809.13	22.34	37.220		
5,100.00	5,062.86	5,048.48	5,045.12	12.25	10.81	166.29	-236.78	-187.01	845.92	823.10	22.82	37.068		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,147.43	5,144.00	12.51	11.04	166.29	-240.42	-187.79	860.37	837.06	23.31	36.915		
5,300.00	5,261.26	5,246.39	5,242.88	12.78	11.28	166.29	-244.05	-188.56	874.81	851.01	23.80	36.763		
5,400.00	5,360.46	5,345.34	5,341.76	13.05	11.52	166.29	-247.68	-189.33	889.26	864.97	24.29	36.611		
5,500.00	5,459.67	5,444.29	5,440.65	13.32	11.76	166.28	-251.31	-190.10	903.70	878.91	24.79	36.459		
5,600.00	5,558.87	5,543.24	5,539.53	13.59	12.00	166.28	-254.94	-190.87	918.15	892.86	25.29	36.308		
5,700.00	5,658.07	5,642.19	5,638.41	13.86	12.24	166.28	-258.57	-191.64	932.59	906.80	25.79	36.159		
5,800.00	5,757.27	5,741.14	5,737.29	14.13	12.49	166.28	-262.20	-192.42	947.04	920.74	26.30	36.012		
5,900.00	5,856.48	5,840.09	5,836.17	14.41	12.73	166.27	-265.83	-193.19	961.48	934.67	26.81	35.866		
6,000.00	5,955.68	5,939.04	5,935.05	14.69	12.98	166.27	-269.46	-193.96	975.93	948.61	27.32	35.722		
6,100.00	6,054.88	6,037.99	6,033.94	14.97	13.23	166.27	-273.10	-194.73	990.37	962.54	27.84	35.580		
6,200.00	6,154.09	6,136.95	6,132.82	15.25	13.48	166.27	-276.73	-195.50	1,004.82	976.46	28.35	35.440		
6,300.00	6,253.29	6,235.90	6,231.70	15.53	13.73	166.26	-280.36	-196.28	1,019.26	990.39	28.87	35.302		
6,400.00	6,352.49	6,334.85	6,330.58	15.81	13.98	166.26	-283.99	-197.05	1,033.71	1,004.31	29.39	35.167		
6,500.00	6,451.69	6,434.05	6,429.78	16.09	14.23	166.26	-287.62	-197.82	1,048.15	1,018.75	29.91	35.032		
6,600.00	6,550.93	6,532.99	6,528.62	16.37	14.48	166.26	-291.25	-198.59	1,062.59	1,033.19	30.43	34.897		
6,700.00	6,650.17	6,631.95	6,627.58	16.65	14.73	166.26	-294.88	-199.36	1,077.03	1,047.63	30.95	34.762		
6,800.00	6,749.41	6,730.91	6,726.54	16.93	14.98	166.26	-298.51	-200.13	1,091.47	1,062.07	31.47	34.627		
6,900.00	6,848.65	6,829.91	6,825.54	17.21	15.23	166.26	-302.14	-200.90	1,105.91	1,076.51	31.99	34.492		
7,000.00	6,947.89	6,928.91	6,924.54	17.49	15.48	166.26	-305.77	-201.67	1,120.35	1,090.95	32.51	34.357		
7,100.00	7,047.13	7,027.91	7,023.54	17.77	15.73	166.26	-309.40	-202.44	1,134.79	1,105.39	33.03	34.222		
7,200.00	7,146.37	7,126.91	7,122.54	18.05	15.98	166.26	-313.03	-203.21	1,149.23	1,119.83	33.55	34.087		
7,300.00	7,245.61	7,225.91	7,221.54	18.33	16.23	166.26	-316.66	-203.98	1,163.67	1,134.27	34.07	33.952		
7,400.00	7,344.85	7,324.91	7,320.54	18.61	16.48	166.26	-320.29	-204.75	1,178.11	1,148.71	34.59	33.817		
7,500.00	7,444.09	7,423.91	7,419.54	18.89	16.73	166.26	-323.92	-205.52	1,192.55	1,163.15	35.11	33.682		
7,600.00	7,543.33	7,522.91	7,518.54	19.17	16.98	166.26	-327.55	-206.29	1,206.99	1,177.59	35.63	33.547		
7,700.00	7,642.57	7,621.91	7,617.54	19.45	17.23	166.26	-331.18	-207.06	1,221.43	1,192.03	36.15	33.412		
7,800.00	7,741.81	7,720.91	7,716.54	19.73	17.48	166.26	-334.81	-207.83	1,235.87	1,206.47	36.67	33.277		
7,900.00	7,841.05	7,819.91	7,815.54	20.01	17.73	166.26	-338.44	-208.60	1,250.31	1,220.91	37.19	33.142		
8,000.00	7,940.29	7,918.91	7,914.54	20.29	17.98	166.26	-342.07	-209.37	1,264.75	1,235.35	37.71	33.007		
8,100.00	8,039.53	8,017.91	8,013.54	20.57	18.23	166.26	-345.70	-210.14	1,279.19	1,249.79	38.23	32.872		
8,200.00	8,138.77	8,116.91	8,112.54	20.85	18.48	166.26	-349.33	-210.91	1,293.63	1,264.23	38.75	32.737		
8,300.00	8,238.01	8,215.91	8,211.54	21.13	18.73	166.26	-352.96	-211.68	1,308.07	1,278.67	39.27	32.602		
8,400.00	8,337.25	8,314.91	8,310.54	21.41	18.98	166.26	-356.59	-212.45	1,322.51	1,293.11	39.79	32.467		
8,500.00	8,436.49	8,413.91	8,409.54	21.69	19.23	166.26	-360.22	-213.22	1,336.95	1,307.55	40.31	32.332		
8,600.00	8,535.73	8,512.91	8,508.54	21.97	19.48	166.26	-363.85	-213.99	1,351.39	1,321.99	40.83	32.197		
8,700.00	8,634.97	8,611.91	8,607.54	22.25	19.73	166.26	-367.48	-214.76	1,365.83	1,336.43	41.35	32.062		
8,800.00	8,734.21	8,710.91	8,706.54	22.53	19.98	166.26	-371.11	-215.53	1,380.27	1,350.87	41.87	31.927		
8,900.00	8,833.45	8,809.91	8,805.54	22.81	20.23	166.26	-374.74	-216.30	1,394.71	1,365.31	42.39	31.792		
9,000.00	8,932.69	8,908.91	8,904.54	23.09	20.48	166.26	-378.37	-217.07	1,409.15	1,379.75	42.91	31.657		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-68.58	59.02	-150.45	161.61					
100.00	100.00	101.00	101.00	3.28	3.28	-68.58	59.02	-150.45	161.61	154.08	7.53	21.465		
200.00	200.00	201.00	201.00	3.31	3.31	-68.58	59.02	-150.45	161.61	154.04	7.57	21.337	CC, ES	
300.00	299.98	298.43	298.41	3.35	3.35	-147.75	60.70	-150.61	163.88	156.21	7.66	21.390		
400.00	399.84	395.57	395.42	3.42	3.42	-147.09	65.66	-151.09	170.65	162.86	7.79	21.900		
500.00	499.45	505.48	494.10	3.51	3.52	-146.42	72.89	-151.78	181.39	173.40	7.98	22.726		
600.00	598.73	606.39	592.92	3.62	3.63	-146.36	80.19	-152.49	194.83	186.62	8.21	23.730		
700.00	697.94	707.38	691.66	3.77	3.76	-146.49	87.47	-153.19	208.83	200.36	8.47	24.655		
800.00	797.14	808.37	790.40	3.94	3.91	-146.60	94.76	-153.89	222.83	214.07	8.77	25.418		
900.00	896.34	909.35	889.14	4.13	4.08	-146.70	102.05	-154.59	236.84	227.74	9.10	26.038		
1,000.00	995.55	989.66	987.89	4.33	4.22	-146.79	109.33	-155.29	250.84	241.42	9.42	26.640		
1,100.00	1,094.75	1,088.68	1,086.63	4.55	4.40	-146.87	116.62	-155.99	264.84	255.05	9.79	27.045		
1,200.00	1,193.95	1,187.69	1,185.37	4.79	4.60	-146.94	123.91	-156.70	278.85	268.66	10.19	27.361		
1,300.00	1,293.15	1,286.70	1,284.12	5.04	4.81	-147.00	131.19	-157.40	292.85	282.24	10.61	27.603		
1,400.00	1,392.36	1,385.72	1,382.86	5.29	5.02	-147.06	138.48	-158.10	306.86	295.81	11.04	27.784		
1,500.00	1,491.56	1,484.73	1,481.60	5.56	5.24	-147.12	145.77	-158.80	320.86	309.37	11.49	27.916		
1,600.00	1,590.76	1,583.75	1,580.35	5.83	5.47	-147.16	153.05	-159.50	334.87	322.91	11.96	28.007		
1,700.00	1,689.96	1,682.76	1,679.09	6.11	5.70	-147.21	160.34	-160.20	348.87	336.44	12.43	28.066		
1,800.00	1,789.17	1,781.77	1,777.83	6.39	5.94	-147.25	167.63	-160.91	362.88	349.96	12.91	28.099		
1,900.00	1,888.37	1,880.79	1,876.58	6.54	6.18	-147.29	174.91	-161.61	376.88	363.98	12.91	29.198		
2,000.00	1,987.57	1,979.80	1,975.32	6.57	6.43	-147.33	182.20	-162.31	390.89	377.72	13.17	29.679		
2,100.00	2,086.77	2,078.82	2,074.06	6.61	6.68	-147.36	189.49	-163.01	404.90	391.45	13.45	30.103		
2,200.00	2,185.98	2,177.83	2,172.80	6.67	6.93	-147.39	196.78	-163.71	418.90	405.15	13.75	30.472		
2,300.00	2,285.18	2,276.84	2,271.55	6.74	7.19	-147.42	204.06	-164.41	432.91	418.85	14.06	30.791		
2,400.00	2,384.38	2,375.86	2,370.29	6.83	7.44	-147.45	211.35	-165.12	446.91	432.53	14.39	31.062		
2,500.00	2,483.59	2,474.87	2,469.03	6.92	7.70	-147.47	218.64	-165.82	460.92	446.19	14.73	31.290		
2,600.00	2,582.79	2,573.89	2,567.78	7.03	7.96	-147.49	225.92	-166.52	474.93	459.84	15.09	31.479		
2,700.00	2,681.99	2,672.90	2,666.52	7.15	8.23	-147.52	233.21	-167.22	488.93	473.48	15.46	31.632		
2,800.00	2,781.19	2,771.91	2,765.26	7.29	8.49	-147.54	240.50	-167.92	502.94	487.10	15.84	31.753		
2,900.00	2,880.40	2,870.93	2,864.01	7.43	8.76	-147.56	247.78	-168.62	516.95	500.71	16.23	31.844		
3,000.00	2,979.60	2,969.94	2,962.75	7.58	9.03	-147.58	255.07	-169.33	530.96	514.32	16.64	31.910		
3,100.00	3,078.80	3,068.96	3,061.49	7.74	9.30	-147.60	262.36	-170.03	544.96	527.91	17.05	31.954		
3,200.00	3,178.00	3,167.97	3,160.23	7.91	9.57	-147.61	269.64	-170.73	558.97	541.49	17.48	31.977		
3,300.00	3,277.21	3,266.98	3,258.98	8.09	9.84	-147.63	276.93	-171.43	572.98	555.06	17.92	31.982		
3,400.00	3,376.41	3,366.00	3,357.72	8.28	10.11	-147.65	284.22	-172.13	586.98	568.62	18.36	31.973		
3,500.00	3,475.61	3,465.01	3,456.46	8.48	10.38	-147.66	291.50	-172.83	600.99	582.18	18.81	31.950		
3,600.00	3,574.82	3,564.03	3,555.21	8.68	10.66	-147.67	298.79	-173.53	615.00	595.73	19.27	31.916		
3,700.00	3,674.02	3,663.04	3,653.95	8.88	10.93	-147.69	306.08	-174.24	629.00	609.27	19.73	31.873		
3,800.00	3,773.22	3,762.05	3,752.69	9.10	11.21	-147.70	313.37	-174.94	643.01	622.81	20.21	31.821		
3,900.00	3,872.42	3,861.07	3,851.44	9.32	11.48	-147.71	320.65	-175.64	657.02	636.33	20.69	31.762		
4,000.00	3,971.63	3,960.08	3,950.18	9.54	11.76	-147.73	327.94	-176.34	671.03	649.86	21.17	31.698		
4,100.00	4,070.83	4,059.10	4,048.92	9.77	12.04	-147.74	335.23	-177.04	685.03	663.38	21.66	31.629		
4,200.00	4,170.03	4,158.11	4,147.66	10.00	12.32	-147.75	342.51	-177.74	699.04	676.89	22.15	31.556		
4,300.00	4,269.23	4,257.13	4,246.41	10.24	12.59	-147.76	349.80	-178.45	713.05	690.40	22.65	31.480		
4,400.00	4,368.44	4,356.14	4,345.15	10.48	12.87	-147.77	357.09	-179.15	727.06	703.90	23.15	31.401		
4,500.00	4,467.64	4,455.15	4,443.89	10.72	13.15	-147.78	364.37	-179.85	741.06	717.40	23.66	31.321		
4,600.00	4,566.84	4,554.17	4,542.64	10.97	13.43	-147.79	371.66	-180.55	755.07	730.90	24.17	31.239		
4,700.00	4,666.05	4,653.18	4,641.38	11.22	13.71	-147.80	378.95	-181.25	769.08	744.39	24.68	31.156		
4,800.00	4,765.25	4,752.20	4,740.12	11.47	13.99	-147.81	386.23	-181.95	783.09	757.88	25.20	31.072		
4,900.00	4,864.45	4,851.21	4,838.87	11.73	14.27	-147.81	393.52	-182.66	797.09	771.37	25.72	30.988		
5,000.00	4,963.65	4,950.22	4,937.61	11.99	14.55	-147.82	400.81	-183.36	811.10	784.86	26.25	30.905		
5,100.00	5,062.86	5,049.24	5,036.35	12.25	14.83	-147.83	408.09	-184.06	825.11	798.34	26.77	30.821		

Hewlett-Packard

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 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		
5,200.00	5,162.06	5,148.25	5,135.10	12.51	15.11	-147.84	415.38	-184.76	839.12	811.82	27.30	30.738		
5,300.00	5,261.26	5,247.27	5,233.84	12.78	15.40	-147.84	422.67	-185.46	853.12	825.29	27.83	30.655		
5,400.00	5,360.46	5,346.28	5,332.58	13.05	15.68	-147.85	429.95	-186.16	867.13	838.77	28.36	30.573		
5,500.00	5,459.67	5,445.29	5,431.32	13.32	15.96	-147.86	437.24	-186.87	881.14	852.24	28.90	30.492		
5,600.00	5,558.87	5,544.31	5,530.07	13.59	16.24	-147.87	444.53	-187.57	895.15	865.71	29.43	30.412		
5,700.00	5,658.07	5,643.32	5,628.81	13.86	16.52	-147.87	451.82	-188.27	909.15	879.18	29.97	30.333		
5,800.00	5,757.27	5,742.34	5,727.55	14.13	16.81	-147.88	459.10	-188.97	923.16	892.65	30.51	30.255		
5,900.00	5,856.48	5,841.35	5,826.30	14.41	17.09	-147.88	466.39	-189.67	937.17	906.11	31.05	30.178		
6,000.00	5,955.68	5,940.36	5,925.04	14.69	17.37	-147.89	473.68	-190.37	951.18	919.58	31.60	30.102		
6,100.00	6,054.88	6,039.38	6,023.78	14.97	17.66	-147.90	480.96	-191.07	965.18	933.04	32.14	30.027		
6,200.00	6,154.09	6,138.39	6,122.53	15.25	17.94	-147.90	488.25	-191.78	979.19	946.50	32.69	29.954		
6,300.00	6,253.29	6,237.41	6,221.27	15.53	18.22	-147.91	495.54	-192.48	993.20	959.96	33.24	29.882		
6,400.00	6,352.49	6,336.42	6,320.01	15.81	18.51	-147.91	502.82	-193.18	1,007.21	973.42	33.79	29.811		
6,500.00	6,451.69	6,063.55	7,360.47	16.09	28.03	-94.34	577.38	760.60	1,006.85	975.92	30.93	32.552		
6,600.00	6,550.93	8,075.51	7,360.45	16.37	28.07	-86.55	577.35	772.55	917.25	885.42	31.83	28.816		
6,700.00	6,650.78	8,077.02	7,360.45	16.54	28.07	75.41	577.34	774.07	829.34	796.48	32.87	25.233		
6,800.00	6,749.67	8,062.90	7,360.47	16.66	28.02	101.98	577.38	759.94	745.30	711.26	34.04	21.892		
6,900.00	6,845.16	8,033.47	7,360.52	16.73	27.93	111.39	577.45	730.52	668.04	632.68	35.36	18.892		
7,000.00	6,934.90	7,989.48	7,360.59	16.77	27.79	115.51	577.56	686.52	600.27	563.47	36.80	16.314		
7,100.00	7,016.67	7,931.99	7,360.69	16.79	27.65	116.43	577.70	629.04	544.09	505.79	38.30	14.208		
7,200.00	7,088.47	7,862.44	7,360.80	16.84	27.50	115.22	577.87	559.48	500.63	460.88	39.74	12.596		
7,300.00	7,148.53	7,782.52	7,360.94	16.95	26.97	112.70	578.06	479.57	469.66	428.75	40.91	11.480		
7,400.00	7,195.36	7,672.22	7,357.01	17.14	25.21	108.18	578.03	369.42	448.39	407.60	40.79	10.992		
7,500.00	7,227.82	7,555.62	7,333.52	17.43	23.50	102.30	576.56	255.39	430.59	390.19	40.41	10.656		
7,600.00	7,245.11	7,451.64	7,295.38	17.83	22.28	96.26	573.97	158.80	417.30	377.06	40.23	10.372		
7,700.00	7,248.02	7,357.82	7,247.94	18.33	21.48	89.85	570.66	78.03	409.52	369.29	40.23	10.180		
7,757.81	7,248.05	7,310.23	7,219.47	18.69	21.16	85.84	568.64	39.97	408.05	367.71	40.34	10.115 SF		
7,800.00	7,248.07	7,278.77	7,199.13	18.96	21.00	82.98	567.20	16.01	408.97	368.54	40.43	10.115		
7,900.00	7,248.13	7,214.06	7,153.72	19.71	20.78	76.66	563.95	-29.93	419.62	378.91	40.71	10.308		
8,000.00	7,248.18	7,161.14	7,113.27	20.57	20.65	71.21	561.05	-63.92	443.83	402.86	40.96	10.835		
8,100.00	7,248.23	7,117.61	7,077.99	21.52	20.55	66.66	558.51	-89.27	481.67	440.51	41.16	11.703		
8,200.00	7,248.28	7,081.50	7,047.46	22.56	20.48	62.92	556.30	-108.42	531.61	490.34	41.27	12.882		
8,300.00	7,248.33	7,050.00	7,019.99	23.67	20.41	59.72	554.31	-123.69	591.49	550.17	41.32	14.313		
8,400.00	7,248.38	7,025.62	6,998.22	24.84	20.35	57.30	552.73	-134.56	659.18	617.83	41.35	15.941		
8,500.00	7,248.43	7,000.00	6,974.93	26.07	20.29	54.83	551.03	-145.08	732.92	691.58	41.33	17.731		
8,600.00	7,248.48	6,984.82	6,960.93	27.35	20.26	53.40	550.01	-150.86	811.26	769.93	41.33	19.631		
8,700.00	7,248.54	6,968.38	6,945.62	28.66	20.22	51.89	548.90	-156.75	893.22	851.92	41.30	21.629		
8,800.00	7,248.59	6,950.00	6,928.33	30.01	20.18	50.24	547.63	-162.86	978.01	936.75	41.26	23.702		
8,900.00	7,248.64	6,950.00	6,928.33	31.40	20.18	50.24	547.63	-162.86	1,065.09	1,023.85	41.24	25.829		
9,000.00	7,248.69	6,929.91	6,909.24	32.80	20.13	48.50	546.24	-168.96	1,153.79	1,112.59	41.20	28.002		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-75.47	38.98	-150.45	155.42					
100.00	100.00	101.00	101.00	3.28	3.28	-75.47	38.98	-150.45	155.42	147.89	7.53	20.642		
200.00	200.00	201.00	201.00	3.31	3.31	-75.47	38.98	-150.45	155.42	147.84	7.57	20.519	CC, ES	
300.00	299.98	299.06	299.04	3.35	3.35	-154.54	40.68	-150.63	157.61	149.95	7.66	20.571		
400.00	399.84	396.82	396.66	3.42	3.42	-153.60	45.70	-151.16	164.19	156.40	7.79	21.067		
500.00	499.45	504.01	495.58	3.51	3.52	-152.58	52.82	-151.90	174.69	166.71	7.98	21.889		
600.00	598.73	604.92	594.41	3.62	3.63	-152.15	59.95	-152.65	188.07	179.86	8.21	22.911		
700.00	697.94	705.90	693.17	3.77	3.76	-151.93	67.08	-153.40	202.05	193.58	8.47	23.862		
800.00	797.14	806.88	791.92	3.94	3.91	-151.74	74.20	-154.15	216.03	207.27	8.76	24.655		
900.00	896.34	907.87	890.68	4.13	4.07	-151.57	81.33	-154.90	230.01	220.92	9.09	25.306		
1,000.00	995.55	1,008.85	989.44	4.33	4.25	-151.42	88.46	-155.65	243.99	234.55	9.44	25.833		
1,100.00	1,094.75	1,109.84	1,088.19	4.55	4.44	-151.29	95.58	-156.40	257.97	248.15	9.83	26.255		
1,200.00	1,193.95	1,189.18	1,186.95	4.79	4.60	-151.17	102.71	-157.15	271.96	261.78	10.18	26.703		
1,300.00	1,293.15	1,288.19	1,285.70	5.04	4.81	-151.06	109.84	-157.90	285.95	275.35	10.60	26.973		
1,400.00	1,392.36	1,387.21	1,384.46	5.29	5.02	-150.96	116.96	-158.64	299.93	288.90	11.03	27.182		
1,500.00	1,491.56	1,486.23	1,483.22	5.56	5.24	-150.87	124.09	-159.39	313.92	302.44	11.48	27.340		
1,600.00	1,590.76	1,585.24	1,581.97	5.83	5.47	-150.79	131.21	-160.14	327.91	315.97	11.94	27.456		
1,700.00	1,689.96	1,684.26	1,680.73	6.11	5.70	-150.72	138.34	-160.89	341.90	329.48	12.42	27.538		
1,800.00	1,789.17	1,783.27	1,779.48	6.39	5.94	-150.65	145.47	-161.64	355.89	342.99	12.90	27.593		
1,900.00	1,888.37	1,882.29	1,878.24	6.54	6.08	-150.59	152.59	-162.39	369.88	357.09	12.79	28.913		
2,000.00	1,987.57	1,981.30	1,977.00	6.57	6.12	-150.53	159.72	-163.14	383.87	371.02	12.85	29.877		
2,100.00	2,086.77	2,080.32	2,075.75	6.61	6.15	-150.47	166.85	-163.89	397.86	384.95	12.91	30.822		
2,200.00	2,185.98	2,179.34	2,174.51	6.67	6.19	-150.42	173.97	-164.64	411.85	398.86	12.99	31.693		
2,300.00	2,285.18	2,278.35	2,273.27	6.74	6.24	-150.38	181.10	-165.39	425.84	412.74	13.11	32.490		
2,400.00	2,384.38	2,377.37	2,372.02	6.83	6.31	-150.33	188.22	-166.13	439.84	426.59	13.24	33.211		
2,500.00	2,483.59	2,476.38	2,470.78	6.92	6.38	-150.29	195.35	-166.88	453.83	440.42	13.40	33.857		
2,600.00	2,582.79	2,575.40	2,569.53	7.03	6.47	-150.25	202.48	-167.63	467.82	454.23	13.59	34.428		
2,700.00	2,681.99	2,674.42	2,668.29	7.15	6.57	-150.21	209.60	-168.38	481.81	468.02	13.79	34.928		
2,800.00	2,781.19	2,773.43	2,767.05	7.29	6.68	-150.18	216.73	-169.13	495.81	481.78	14.02	35.359		
2,900.00	2,880.40	2,872.45	2,865.80	7.43	6.80	-150.14	223.86	-169.88	509.80	495.53	14.27	35.726		
3,000.00	2,979.60	2,971.46	2,964.56	7.58	6.92	-150.11	230.98	-170.63	523.79	509.26	14.54	36.034		
3,100.00	3,078.80	3,070.48	3,063.31	7.74	7.06	-150.08	238.11	-171.38	537.78	522.96	14.82	36.286		
3,200.00	3,178.00	3,169.49	3,162.07	7.91	7.20	-150.06	245.24	-172.13	551.78	536.66	15.12	36.487		
3,300.00	3,277.21	3,268.51	3,260.83	8.09	7.36	-150.03	252.36	-172.87	565.77	550.33	15.44	36.643		
3,400.00	3,376.41	3,367.53	3,359.58	8.28	7.52	-150.00	259.49	-173.62	579.77	563.99	15.77	36.758		
3,500.00	3,475.61	3,466.54	3,458.34	8.48	7.68	-149.98	266.61	-174.37	593.76	577.64	16.12	36.836		
3,600.00	3,574.82	3,565.56	3,557.10	8.68	7.85	-149.96	273.74	-175.12	607.75	591.27	16.48	36.882		
3,700.00	3,674.02	3,664.57	3,655.85	8.88	8.03	-149.93	280.87	-175.87	621.75	604.90	16.85	36.899		
3,800.00	3,773.22	3,763.59	3,754.61	9.10	8.22	-149.91	287.99	-176.62	635.74	618.51	17.23	36.891		
3,900.00	3,872.42	3,862.60	3,853.36	9.32	8.41	-149.89	295.12	-177.37	649.73	632.11	17.63	36.861		
4,000.00	3,971.63	3,961.62	3,952.12	9.54	8.60	-149.87	302.25	-178.12	663.73	645.70	18.03	36.812		
4,100.00	4,070.83	4,060.64	4,050.88	9.77	8.80	-149.86	309.37	-178.87	677.72	659.28	18.44	36.746		
4,200.00	4,170.03	4,159.65	4,149.63	10.00	9.00	-149.84	316.50	-179.62	691.72	672.85	18.86	36.667		
4,300.00	4,269.23	4,258.67	4,248.39	10.24	9.21	-149.82	323.62	-180.36	705.71	686.42	19.29	36.576		
4,400.00	4,368.44	4,357.68	4,347.14	10.48	9.42	-149.80	330.75	-181.11	719.71	699.97	19.73	36.475		
4,500.00	4,467.64	4,456.70	4,445.90	10.72	9.64	-149.79	337.88	-181.86	733.70	713.52	20.18	36.366		
4,600.00	4,566.84	4,555.71	4,544.66	10.97	9.86	-149.77	345.00	-182.61	747.69	727.07	20.63	36.250		
4,700.00	4,666.05	4,654.73	4,643.41	11.22	10.08	-149.76	352.13	-183.36	761.69	740.61	21.08	36.129		
4,800.00	4,765.25	4,753.75	4,742.17	11.47	10.30	-149.74	359.26	-184.11	775.68	754.14	21.54	36.003		
4,900.00	4,864.45	4,852.76	4,840.92	11.73	10.53	-149.73	366.38	-184.86	789.68	767.67	22.01	35.874		
5,000.00	4,963.65	4,951.78	4,939.68	11.99	10.76	-149.72	373.51	-185.61	803.67	781.19	22.49	35.742		
5,100.00	5,062.86	5,050.79	5,038.44	12.25	10.99	-149.70	380.63	-186.36	817.67	794.71	22.96	35.608		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,149.81	5,137.19	12.51	11.22	-149.69	387.76	-187.11	831.66	808.22	23.44	35.473		
5,300.00	5,261.26	5,248.82	5,235.95	12.78	11.46	-149.68	394.89	-187.85	845.66	821.73	23.93	35.338		
5,400.00	5,360.46	5,347.84	5,334.71	13.05	11.69	-149.67	402.01	-188.60	859.65	835.23	24.42	35.202		
5,500.00	5,459.67	5,446.86	5,433.46	13.32	11.93	-149.66	409.14	-189.35	873.65	848.73	24.91	35.066		
5,600.00	5,558.87	5,545.87	5,532.22	13.59	12.17	-149.65	416.27	-190.10	887.64	862.23	25.41	34.931		
5,700.00	5,658.07	5,644.89	5,630.97	13.86	12.42	-149.64	423.39	-190.85	901.64	875.73	25.91	34.797		
5,800.00	5,757.27	5,743.90	5,729.73	14.13	12.66	-149.63	430.52	-191.60	915.63	889.22	26.41	34.664		
5,900.00	5,856.48	5,842.92	5,828.49	14.41	12.90	-149.62	437.65	-192.35	929.63	902.71	26.92	34.532		
6,000.00	5,955.68	5,941.93	5,927.24	14.69	13.15	-149.61	444.77	-193.10	943.62	916.19	27.43	34.401		
6,100.00	6,054.88	6,040.95	6,026.00	14.97	13.40	-149.60	451.90	-193.85	957.62	929.68	27.94	34.272		
6,200.00	6,154.09	7,702.85	7,038.60	15.25	21.37	-95.77	523.26	722.88	965.10	936.81	28.30	34.108		
6,300.00	6,253.29	7,715.09	7,038.58	15.53	21.51	-94.01	523.24	735.12	874.15	845.22	28.93	30.218		
6,400.00	6,352.49	7,727.33	7,038.57	15.81	21.64	-92.23	523.22	747.36	785.20	755.52	29.68	26.454		
6,500.00	6,451.69	7,739.57	7,038.55	16.09	21.78	-90.41	523.19	759.60	699.03	668.42	30.61	22.839		
6,600.00	6,550.93	7,751.55	7,038.53	16.37	21.92	-83.30	523.17	771.58	616.78	585.01	31.77	19.413		
6,700.00	6,650.78	7,753.09	7,038.53	16.54	21.93	72.99	523.17	773.12	539.84	506.71	33.13	16.293		
6,800.00	6,749.67	7,738.99	7,038.55	16.66	21.78	93.83	523.19	759.02	472.22	437.57	34.64	13.632		
6,900.00	6,845.16	7,709.59	7,038.59	16.73	21.44	97.75	523.25	729.62	418.90	382.79	36.11	11.601		
7,000.00	6,934.90	7,665.62	7,038.65	16.77	20.97	96.15	523.34	685.65	383.99	346.81	37.19	10.326		
7,100.00	7,016.67	7,608.16	7,038.74	16.79	20.37	90.85	523.45	628.18	368.69	331.20	37.49	9.834		
7,139.42	7,046.27	7,582.10	7,038.77	16.81	20.11	88.06	523.50	602.12	367.51	330.11	37.40	9.827 SF		
7,200.00	7,088.47	7,538.62	7,038.83	16.84	19.68	83.32	523.58	558.65	369.92	332.87	37.05	9.985		
7,300.00	7,148.53	7,458.71	7,038.95	16.95	18.94	75.23	523.74	478.74	381.44	345.25	36.19	10.539		
7,400.00	7,195.36	7,379.07	7,037.69	17.14	18.27	68.47	523.80	399.13	397.08	361.70	35.38	11.224		
7,500.00	7,227.82	7,306.69	7,028.98	17.43	17.70	62.82	523.30	327.32	415.15	380.37	34.77	11.938		
7,600.00	7,245.11	7,236.49	7,012.81	17.83	17.19	57.91	522.26	259.05	434.18	399.76	34.41	12.617		
7,700.00	7,248.02	7,168.32	6,990.04	18.33	16.75	54.22	520.73	194.85	453.43	419.15	34.28	13.227		
7,800.00	7,248.07	7,105.17	6,962.94	18.96	16.39	51.32	518.88	137.86	478.77	444.45	34.32	13.951		
7,900.00	7,248.13	7,050.00	6,934.76	19.71	16.11	48.51	516.94	90.49	512.12	477.63	34.49	14.850		
8,000.00	7,248.18	7,000.00	6,905.77	20.57	15.88	45.82	514.92	49.82	553.43	518.71	34.72	15.940		
8,100.00	7,248.23	6,950.00	6,873.69	21.52	15.68	43.08	512.68	11.55	602.25	567.30	34.95	17.233		
8,200.00	7,248.28	6,911.58	6,847.07	22.56	15.54	40.97	510.81	-16.07	657.86	622.65	35.22	18.680		
8,300.00	7,248.33	6,876.03	6,820.98	23.67	15.43	39.04	508.97	-40.16	719.44	683.98	35.46	20.289		
8,400.00	7,248.38	6,850.00	6,801.06	24.84	15.35	37.66	507.56	-56.85	786.17	750.48	35.68	22.032		
8,500.00	7,248.43	6,816.52	6,774.46	26.07	15.26	35.92	505.68	-77.09	857.16	821.30	35.86	23.905		
8,600.00	7,248.48	6,800.00	6,760.96	27.35	15.22	35.08	504.72	-86.55	931.94	895.93	36.01	25.877		
8,700.00	7,248.54	6,769.29	6,735.22	28.66	15.15	33.57	502.90	-103.20	1,009.65	973.51	36.14	27.935		
8,800.00	7,248.59	6,750.00	6,718.65	30.01	15.11	32.64	501.72	-113.01	1,090.06	1,053.81	36.25	30.070		
8,900.00	7,248.64	6,731.28	6,702.30	31.40	15.07	31.77	500.56	-122.05	1,172.68	1,136.34	36.34	32.268		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-82.81	18.94	-150.17	151.36					
100.00	100.00	101.00	101.00	3.28	3.28	-82.81	18.94	-150.17	151.36	143.83	7.53	20.104		
200.00	200.00	201.00	201.00	3.31	3.31	-82.81	18.94	-150.17	151.36	143.79	7.57	19.984	CC	
300.00	299.98	299.43	299.41	3.35	3.35	-161.78	20.65	-150.46	153.53	145.87	7.66	20.038		
400.00	399.84	401.33	398.55	3.42	3.42	-160.81	24.98	-151.18	159.82	152.03	7.80	20.499		
500.00	499.45	501.82	497.96	3.51	3.51	-160.23	29.52	-151.94	169.49	161.51	7.98	21.249		
600.00	598.73	602.63	597.04	3.62	3.62	-160.07	34.04	-152.70	182.19	173.99	8.20	22.217		
700.00	697.94	703.52	696.04	3.77	3.74	-160.04	38.56	-153.45	195.52	187.07	8.45	23.130		
800.00	797.14	804.42	795.04	3.94	3.89	-160.02	43.08	-154.21	208.85	200.11	8.74	23.894		
900.00	896.34	905.31	894.04	4.13	4.05	-160.00	47.60	-154.97	222.18	213.12	9.06	24.525		
1,000.00	995.55	1,006.20	993.05	4.33	4.22	-159.99	52.12	-155.72	235.50	226.10	9.41	25.039		
1,100.00	1,094.75	1,107.09	1,092.05	4.55	4.40	-159.97	56.64	-156.48	248.83	239.06	9.78	25.453		
1,200.00	1,193.95	1,192.02	1,191.05	4.79	4.56	-159.96	61.16	-157.23	262.16	252.02	10.14	25.862		
1,300.00	1,293.15	1,308.88	1,290.05	5.04	4.80	-159.95	65.68	-157.99	275.49	264.91	10.58	26.041		
1,400.00	1,392.36	1,409.77	1,389.05	5.29	5.01	-159.94	70.20	-158.75	288.82	277.81	11.01	26.241		
1,500.00	1,491.56	1,489.34	1,488.05	5.56	5.18	-159.93	74.72	-159.50	302.15	290.74	11.40	26.500		
1,600.00	1,590.76	1,588.45	1,587.06	5.83	5.39	-159.92	79.24	-160.26	315.47	303.62	11.85	26.620		
1,700.00	1,689.96	1,687.55	1,686.06	6.11	5.62	-159.91	83.76	-161.02	328.80	316.49	12.31	26.707		
1,800.00	1,789.17	1,786.66	1,785.06	6.39	5.84	-159.90	88.28	-161.77	342.13	329.35	12.78	26.767		
1,900.00	1,888.37	1,885.77	1,884.06	6.54	6.08	-159.89	92.80	-162.53	355.46	342.70	12.76	27.851		
2,000.00	1,987.57	1,984.88	1,983.06	6.57	6.31	-159.89	97.31	-163.28	368.79	355.77	13.01	28.336		
2,100.00	2,086.77	2,083.99	2,082.07	6.61	6.55	-159.88	101.83	-164.04	382.12	368.83	13.28	28.766		
2,200.00	2,185.98	2,183.09	2,181.07	6.67	6.79	-159.87	106.35	-164.80	395.44	381.87	13.57	29.143		
2,300.00	2,285.18	2,282.20	2,280.07	6.74	7.04	-159.87	110.87	-165.55	408.77	394.90	13.87	29.470		
2,400.00	2,384.38	2,381.31	2,379.07	6.83	7.28	-159.86	115.39	-166.31	422.10	407.91	14.19	29.751		
2,500.00	2,483.59	2,480.42	2,478.07	6.92	7.53	-159.86	119.91	-167.07	435.43	420.91	14.52	29.989		
2,600.00	2,582.79	2,579.53	2,577.07	7.03	7.78	-159.85	124.43	-167.82	448.76	433.89	14.87	30.188		
2,700.00	2,681.99	2,678.63	2,676.08	7.15	8.04	-159.85	128.95	-168.58	462.09	446.86	15.22	30.351		
2,800.00	2,781.19	2,777.74	2,775.08	7.29	8.29	-159.85	133.47	-169.33	475.41	459.82	15.60	30.482		
2,900.00	2,880.40	2,876.85	2,874.08	7.43	8.55	-159.84	137.99	-170.09	488.74	472.76	15.98	30.584		
3,000.00	2,979.60	2,975.96	2,973.08	7.58	8.80	-159.84	142.51	-170.85	502.07	485.69	16.38	30.660		
3,100.00	3,078.80	3,075.06	3,072.08	7.74	9.06	-159.83	147.03	-171.60	515.40	498.62	16.78	30.713		
3,200.00	3,178.00	3,174.17	3,171.09	7.91	9.32	-159.83	151.55	-172.36	528.73	511.53	17.20	30.747		
3,300.00	3,277.21	3,273.28	3,270.09	8.09	9.58	-159.83	156.07	-173.12	542.05	524.43	17.62	30.762		
3,400.00	3,376.41	3,372.39	3,369.09	8.28	9.84	-159.83	160.59	-173.87	555.38	537.33	18.05	30.762		
3,500.00	3,475.61	3,471.50	3,468.09	8.48	10.11	-159.82	165.11	-174.63	568.71	550.22	18.50	30.748		
3,600.00	3,574.82	3,570.60	3,567.09	8.68	10.37	-159.82	169.63	-175.38	582.04	563.09	18.94	30.723		
3,700.00	3,674.02	3,669.71	3,666.09	8.88	10.63	-159.82	174.14	-176.14	595.37	575.97	19.40	30.688		
3,800.00	3,773.22	3,768.82	3,765.10	9.10	10.90	-159.82	178.66	-176.90	608.70	588.83	19.86	30.645		
3,900.00	3,872.42	3,867.93	3,864.10	9.32	11.16	-159.81	183.18	-177.65	622.02	601.69	20.33	30.594		
4,000.00	3,971.63	3,967.03	3,963.10	9.54	11.43	-159.81	187.70	-178.41	635.35	614.55	20.81	30.537		
4,100.00	4,070.83	4,066.14	4,062.10	9.77	11.70	-159.81	192.22	-179.17	648.68	627.40	21.29	30.476		
4,200.00	4,170.03	4,165.25	4,161.10	10.00	11.96	-159.81	196.74	-179.92	662.01	640.24	21.77	30.410		
4,300.00	4,269.23	4,264.36	4,260.11	10.24	12.23	-159.80	201.26	-180.68	675.34	653.08	22.26	30.341		
4,400.00	4,368.44	4,363.47	4,359.11	10.48	12.50	-159.80	205.78	-181.43	688.67	665.91	22.75	30.269		
4,500.00	4,467.64	4,462.57	4,458.11	10.72	12.77	-159.80	210.30	-182.19	701.99	678.75	23.25	30.195		
4,600.00	4,566.84	4,561.68	4,557.11	10.97	13.03	-159.80	214.82	-182.95	715.32	691.57	23.75	30.120		
4,700.00	4,666.05	4,660.79	4,656.11	11.22	13.30	-159.80	219.34	-183.70	728.65	704.40	24.25	30.043		
4,800.00	4,765.25	4,759.90	4,755.11	11.47	13.57	-159.80	223.86	-184.46	741.98	717.22	24.76	29.965		
4,900.00	4,864.45	4,859.00	4,854.12	11.73	13.84	-159.79	228.38	-185.22	755.31	730.04	25.27	29.887		
5,000.00	4,963.65	4,958.11	4,953.12	11.99	14.11	-159.79	232.90	-185.97	768.64	742.85	25.79	29.809		
5,100.00	5,062.86	5,057.22	5,052.12	12.25	14.38	-159.79	237.42	-186.73	781.96	755.66	26.30	29.731		

Hewlett-Packard

Anticollision Report

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

Offset Design												5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:		3.28 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,200.00	5,162.06	5,156.33	5,151.12	12.51	14.65	-159.79	241.94	-187.48	795.29	768.47	26.82	29.653				
5,300.00	5,261.26	5,255.44	5,250.12	12.78	14.93	-159.79	246.45	-188.24	808.62	781.28	27.34	29.576				
5,400.00	5,360.46	5,354.54	5,349.13	13.05	15.20	-159.79	250.97	-189.00	821.95	794.09	27.86	29.499				
5,500.00	5,459.67	5,453.65	5,448.13	13.32	15.47	-159.79	255.49	-189.75	835.28	806.89	28.39	29.423				
5,600.00	5,558.87	5,552.76	5,547.13	13.59	15.74	-159.78	260.01	-190.51	848.61	819.69	28.92	29.347				
5,700.00	5,658.07	5,651.87	5,646.13	13.86	16.01	-159.78	264.53	-191.27	861.93	832.49	29.45	29.272				
5,800.00	5,757.27	5,750.97	5,745.13	14.13	16.28	-159.78	269.05	-192.02	875.26	845.29	29.98	29.199				
5,900.00	5,856.48	5,850.08	5,844.13	14.41	16.56	-159.78	273.57	-192.78	888.59	858.08	30.51	29.126				
6,000.00	5,955.68	5,949.19	5,943.14	14.69	16.83	-159.78	278.09	-193.53	901.92	870.88	31.04	29.054				
6,100.00	6,054.88	6,048.30	6,042.14	14.97	17.10	-159.78	282.61	-194.29	915.25	883.67	31.58	28.984				
6,200.00	6,154.09	6,147.41	6,141.14	15.25	17.37	-159.78	287.13	-195.05	928.58	896.46	32.11	28.914				
6,300.00	6,253.29	6,246.51	6,240.14	15.53	17.65	-159.78	291.65	-195.80	941.90	909.25	32.65	28.846				
6,400.00	6,352.49	7,924.29	7,243.46	15.81	27.36	-111.15	335.72	747.56	911.34	883.23	28.11	32.421				
6,500.00	6,451.69	7,936.50	7,243.44	16.09	27.41	-108.21	335.70	759.77	914.16	785.60	28.56	28.503				
6,600.00	6,550.93	7,948.45	7,243.42	16.37	27.45	-96.48	335.68	771.72	917.52	688.42	29.10	24.657				
6,700.00	6,650.78	7,949.96	7,243.42	16.54	27.46	81.27	335.67	773.23	921.14	591.40	29.74	20.887				
6,800.00	6,749.67	7,935.83	7,243.44	16.66	27.40	115.65	335.70	759.09	927.00	496.48	30.52	17.266				
6,900.00	6,845.16	7,906.40	7,243.50	16.73	27.29	126.54	335.76	729.66	938.12	406.56	31.56	13.883				
7,000.00	6,934.90	7,862.40	7,243.57	16.77	27.16	129.57	335.84	685.66	937.73	324.70	33.03	10.830				
7,100.00	7,016.67	7,804.91	7,243.67	16.79	27.00	127.85	335.95	628.17	929.29	254.19	35.11	8.241				
7,200.00	7,088.47	7,735.35	7,243.79	16.84	26.86	122.38	336.08	558.61	926.29	198.44	37.84	6.244				
7,300.00	7,148.53	7,655.43	7,243.93	16.95	26.24	113.82	336.23	478.69	921.09	160.65	40.44	4.973				
7,400.00	7,195.36	7,562.56	7,241.86	17.14	24.91	102.56	336.31	385.88	922.21	140.64	41.57	4.383				
7,500.00	7,227.82	7,469.73	7,227.56	17.43	23.45	89.39	335.82	294.25	915.01	133.61	41.41	4.227 ES, SF				
7,510.42	7,230.34	7,460.43	7,225.39	17.47	23.31	88.00	335.74	285.20	914.95	133.62	41.33	4.233				
7,600.00	7,245.11	7,382.76	7,202.22	17.83	22.29	76.26	334.81	211.13	919.46	139.09	40.37	4.445				
7,700.00	7,248.02	7,300.85	7,168.22	18.33	21.38	64.83	333.40	136.68	919.93	154.82	39.11	4.958				
7,800.00	7,248.07	7,228.05	7,130.21	18.96	20.76	55.07	331.78	74.66	921.47	183.40	38.07	5.818				
7,900.00	7,248.13	7,165.22	7,091.90	19.71	20.33	46.98	330.12	24.92	923.33	225.89	37.43	7.034				
8,000.00	7,248.18	7,111.43	7,055.34	20.57	20.03	40.72	328.52	-14.48	917.43	280.21	37.22	8.528				
8,100.00	7,248.23	7,065.47	7,021.57	21.52	19.81	35.99	327.04	-45.60	911.00	343.75	37.26	10.226				
8,200.00	7,248.28	7,026.15	6,990.96	22.56	19.65	32.40	325.68	-70.23	905.69	414.28	37.41	12.075				
8,300.00	7,248.33	7,000.00	6,969.78	23.67	19.55	30.25	324.75	-85.55	902.81	490.18	37.63	14.025				
8,400.00	7,248.38	6,963.18	6,938.94	24.84	19.45	27.50	323.37	-105.61	900.80	570.05	37.75	16.099				
8,500.00	7,248.43	6,937.81	6,917.04	26.07	19.40	25.79	322.40	-118.37	899.04	653.13	37.91	18.228				
8,600.00	7,248.48	6,915.62	6,897.48	27.35	19.35	24.41	321.53	-128.82	896.74	738.70	38.05	20.416				
8,700.00	7,248.54	6,900.00	6,883.50	28.66	19.32	23.50	320.90	-135.75	894.44	826.28	38.17	22.650				
8,800.00	7,248.59	6,878.82	6,864.28	30.01	19.27	22.33	320.04	-144.61	903.71	915.44	38.26	24.925				
8,900.00	7,248.64	6,850.00	6,837.68	31.40	19.21	20.87	318.84	-155.62	1,044.53	1,006.17	38.36	27.231				
9,000.00	7,248.69	6,850.00	6,837.68	32.80	19.21	20.87	318.84	-155.62	1,135.99	1,097.56	38.43	29.562				

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1												Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	40.07	-0.28	40.07				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	40.07	-0.28	40.07	32.54	7.53	5.323	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	40.07	-0.28	40.07	32.50	7.57	5.291 CC	
300.00	299.98	299.55	299.53	3.35	3.35	-79.90	40.65	1.35	40.33	32.67	7.66	5.265	
400.00	399.84	399.09	398.93	3.42	3.42	-80.19	42.36	6.25	41.09	33.31	7.79	5.277	
500.00	499.45	498.63	498.09	3.51	3.51	-80.66	45.22	14.39	42.37	34.41	7.97	5.319	
600.00	598.73	601.73	597.00	3.62	3.63	-81.09	49.19	25.69	44.17	35.96	8.21	5.383	
700.00	697.94	698.25	696.14	3.77	3.77	-81.21	53.49	37.92	46.15	37.66	8.49	5.434	
800.00	797.14	798.23	795.28	3.94	3.94	-81.31	57.78	50.15	48.13	39.30	8.83	5.450	
900.00	896.34	901.79	894.41	4.13	4.13	-81.41	62.08	62.39	50.12	40.90	9.22	5.437	
1,000.00	995.55	1,001.81	993.55	4.33	4.34	-81.49	66.37	74.62	52.10	42.47	9.63	5.408	
1,100.00	1,094.75	1,101.83	1,092.69	4.55	4.57	-81.58	70.67	86.85	54.08	44.00	10.08	5.366	
1,200.00	1,193.95	1,201.85	1,191.82	4.79	4.80	-81.65	74.96	99.08	56.06	45.51	10.55	5.314	
1,300.00	1,293.15	1,301.87	1,290.96	5.04	5.05	-81.72	79.26	111.31	58.05	47.00	11.04	5.256	
1,400.00	1,392.36	1,401.89	1,390.09	5.29	5.31	-81.79	83.55	123.54	60.03	48.47	11.56	5.194	
1,500.00	1,491.56	1,501.91	1,489.23	5.56	5.58	-81.85	87.85	135.77	62.01	49.92	12.09	5.130	
1,600.00	1,590.76	1,601.93	1,588.37	5.83	5.85	-81.91	92.15	148.00	64.00	51.36	12.63	5.066	
1,700.00	1,689.96	1,701.95	1,687.50	6.11	6.13	-81.96	96.44	160.24	65.98	52.79	13.19	5.002	
1,800.00	1,789.17	1,801.97	1,786.64	6.39	6.42	-82.02	100.74	172.47	67.96	54.20	13.76	4.939	
1,900.00	1,888.37	1,901.99	1,885.78	6.54	6.71	-82.06	105.03	184.70	69.95	56.13	13.82	5.061	
2,000.00	1,987.57	2,002.01	1,984.91	6.57	7.00	-82.11	109.33	196.93	71.93	57.79	14.14	5.086	
2,100.00	2,086.77	2,102.02	2,084.05	6.61	7.30	-82.15	113.62	209.16	73.91	59.43	14.48	5.104	
2,200.00	2,185.98	2,197.96	2,183.19	6.67	7.59	-82.19	117.92	221.39	75.90	61.07	14.83	5.118	
2,300.00	2,285.18	2,302.06	2,282.32	6.74	7.91	-82.23	122.21	233.62	77.88	62.67	15.21	5.119	
2,400.00	2,384.38	2,402.08	2,381.46	6.83	8.21	-82.27	126.51	245.85	79.87	64.26	15.60	5.118	
2,500.00	2,483.59	2,502.10	2,480.59	6.92	8.52	-82.31	130.80	258.09	81.85	65.84	16.01	5.112	
2,600.00	2,582.79	2,602.12	2,579.73	7.03	8.83	-82.34	135.10	270.32	83.83	67.40	16.43	5.103	
2,700.00	2,681.99	2,702.14	2,678.87	7.15	9.15	-82.37	139.39	282.55	85.82	68.95	16.86	5.089	
2,800.00	2,781.19	2,802.16	2,778.00	7.29	9.46	-82.40	143.69	294.78	87.80	70.49	17.31	5.073	
2,900.00	2,880.40	2,902.18	2,877.14	7.43	9.78	-82.43	147.98	307.01	89.78	72.02	17.77	5.053	
3,000.00	2,979.60	3,002.20	2,976.28	7.58	10.10	-82.46	152.28	319.24	91.77	73.53	18.24	5.032	
3,100.00	3,078.80	3,102.22	3,075.41	7.74	10.41	-82.49	156.58	331.47	93.75	75.04	18.72	5.009	
3,200.00	3,178.00	3,197.76	3,174.55	7.91	10.72	-82.51	160.87	343.70	95.74	76.54	19.19	4.988	
3,300.00	3,277.21	3,302.26	3,273.68	8.09	11.05	-82.54	165.17	355.94	97.72	78.01	19.71	4.959	
3,400.00	3,376.41	3,402.28	3,372.82	8.28	11.38	-82.56	169.46	368.17	99.70	79.49	20.21	4.933	
3,500.00	3,475.61	3,502.30	3,471.96	8.48	11.70	-82.58	173.76	380.40	101.69	80.96	20.73	4.906	
3,600.00	3,574.82	3,602.32	3,571.09	8.68	12.02	-82.61	178.05	392.63	103.67	82.42	21.25	4.878	
3,700.00	3,674.02	3,702.34	3,670.23	8.88	12.35	-82.63	182.35	404.86	105.66	83.87	21.78	4.850	
3,800.00	3,773.22	3,802.36	3,769.37	9.10	12.67	-82.65	186.64	417.09	107.64	85.32	22.32	4.823	
3,900.00	3,872.42	3,902.38	3,868.50	9.32	13.00	-82.67	190.94	429.32	109.62	86.76	22.86	4.795	
4,000.00	3,971.63	4,002.40	3,967.64	9.54	13.32	-82.69	195.23	441.55	111.61	88.20	23.41	4.767	
4,100.00	4,070.83	4,102.42	4,066.78	9.77	13.65	-82.70	199.53	453.79	113.59	89.63	23.96	4.740	
4,200.00	4,170.03	4,197.56	4,165.91	10.00	13.96	-82.72	203.82	466.02	115.58	91.07	24.51	4.716	
4,300.00	4,269.23	4,302.46	4,265.05	10.24	14.30	-82.74	208.12	478.25	117.56	92.47	25.09	4.686	
4,400.00	4,368.44	4,402.48	4,364.18	10.48	14.63	-82.75	212.41	490.48	119.54	93.89	25.65	4.660	
4,500.00	4,467.64	4,502.50	4,463.32	10.72	14.96	-82.77	216.71	502.71	121.53	95.30	26.23	4.634	
4,600.00	4,566.84	4,602.52	4,562.46	10.97	15.29	-82.79	221.00	514.94	123.51	96.71	26.80	4.609	
4,700.00	4,666.05	4,702.54	4,661.59	11.22	15.62	-82.80	225.30	527.17	125.50	98.12	27.38	4.584	
4,800.00	4,765.25	4,802.56	4,760.73	11.47	15.95	-82.81	229.60	539.40	127.48	99.52	27.96	4.559	
4,900.00	4,864.45	4,902.58	4,859.87	11.73	16.28	-82.83	233.89	551.64	129.46	100.92	28.55	4.535	
5,000.00	4,963.65	5,002.60	4,959.00	11.99	16.61	-82.84	238.19	563.87	131.45	102.31	29.13	4.512	
5,100.00	5,062.86	5,102.62	5,058.14	12.25	16.94	-82.86	242.48	576.10	133.43	103.71	29.72	4.489	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,202.64	5,157.27	12.51	17.27	-82.87	246.78	588.33	135.42	105.10	30.32	4.467		
5,300.00	5,261.26	5,302.65	5,256.41	12.78	17.60	-82.88	251.07	600.56	137.40	106.49	30.91	4.445		
5,400.00	5,360.46	5,397.33	5,355.55	13.05	17.91	-82.89	255.37	612.79	139.38	107.89	31.49	4.426		
5,500.00	5,459.67	5,502.69	5,454.68	13.32	18.26	-82.90	259.66	625.02	141.37	109.26	32.11	4.403		
5,600.00	5,558.87	5,602.71	5,553.82	13.59	18.59	-82.92	263.96	637.25	143.35	110.64	32.71	4.383		
5,700.00	5,658.07	5,702.73	5,652.96	13.86	18.92	-82.93	268.25	649.49	145.34	112.02	33.31	4.363		
5,800.00	5,757.27	5,802.75	5,752.09	14.13	19.25	-82.94	272.55	661.72	147.32	113.40	33.92	4.343		
5,900.00	5,856.48	5,902.77	5,851.23	14.41	19.58	-82.95	276.84	673.95	149.30	114.78	34.52	4.325		
6,000.00	5,955.68	6,002.79	5,950.37	14.69	19.92	-82.96	281.14	686.18	151.29	116.16	35.13	4.306		
6,100.00	6,054.88	6,102.81	6,049.50	14.97	20.25	-82.97	285.43	698.41	153.27	117.53	35.74	4.288		
6,200.00	6,154.09	6,202.83	6,148.64	15.25	20.58	-82.98	289.73	710.64	155.26	118.90	36.35	4.271		
6,300.00	6,253.29	6,302.85	6,247.77	15.53	20.91	-82.99	294.03	722.87	157.24	120.28	36.96	4.254		
6,400.00	6,352.49	6,397.13	6,346.91	15.81	21.23	-83.00	298.32	735.10	159.23	121.67	37.56	4.239		
6,500.00	6,451.69	6,502.89	6,446.05	16.09	21.58	-83.01	302.62	747.34	161.21	123.02	38.19	4.221		
6,600.00	6,550.93	6,602.91	6,545.18	16.37	21.91	-79.84	306.91	759.57	163.18	124.38	38.80	4.206		
6,700.00	6,650.78	6,696.41	6,643.66	16.54	22.22	68.89	311.18	771.72	164.80	125.57	39.24	4.200		
6,800.00	6,749.67	6,795.98	6,742.92	16.66	22.45	89.80	315.50	776.69	167.81	128.38	39.43	4.256		
6,900.00	6,845.16	6,898.68	6,844.80	16.73	22.61	98.19	319.97	765.56	172.80	133.35	39.45	4.381		
7,000.00	6,934.90	7,004.73	6,946.71	16.77	22.73	104.53	324.49	737.03	179.33	140.03	39.30	4.563		
7,100.00	7,016.67	7,114.27	7,045.50	16.79	22.87	109.69	328.92	690.23	186.82	147.80	39.02	4.788		
7,200.00	7,088.47	7,227.30	7,137.49	16.84	23.07	113.85	333.11	624.94	194.53	155.86	38.67	5.030		
7,300.00	7,148.53	7,343.64	7,218.60	16.95	23.42	117.10	336.86	541.85	201.76	163.33	38.44	5.249		
7,400.00	7,195.36	7,462.88	7,284.65	17.14	24.07	119.47	339.99	442.82	207.84	169.28	38.56	5.390		
7,500.00	7,227.82	7,584.41	7,331.81	17.43	25.12	121.00	342.34	331.05	212.20	172.92	39.28	5.402		
7,600.00	7,245.11	7,707.36	7,357.09	17.83	26.58	121.71	343.75	210.92	214.46	173.75	40.71	5.268		
7,700.00	7,248.02	7,820.40	7,361.14	18.33	27.72	121.77	344.21	98.03	214.83	172.67	42.16	5.096		
7,800.00	7,248.07	7,920.40	7,361.45	18.96	27.79	121.81	344.48	-1.97	215.07	172.32	42.75	5.031		
7,900.00	7,248.13	8,020.40	7,361.75	19.71	27.96	121.85	344.75	-101.97	215.30	171.77	43.54	4.945		
8,000.00	7,248.18	8,120.40	7,362.06	20.57	28.23	121.89	345.02	-201.97	215.54	171.03	44.51	4.843		
8,100.00	7,248.23	8,220.40	7,362.37	21.52	28.60	121.94	345.29	-301.96	215.78	170.13	45.65	4.727		
8,200.00	7,248.28	8,320.40	7,362.68	22.56	29.05	121.98	345.56	-401.96	216.02	169.07	46.95	4.601		
8,300.00	7,248.33	8,420.40	7,362.98	23.67	29.60	122.02	345.83	-501.96	216.26	167.87	48.39	4.469		
8,400.00	7,248.38	8,520.40	7,363.29	24.84	30.23	122.06	346.10	-601.96	216.50	166.54	49.96	4.334		
8,500.00	7,248.43	8,620.40	7,363.60	26.07	30.93	122.10	346.37	-701.96	216.74	165.09	51.65	4.197		
8,600.00	7,248.48	8,720.40	7,363.90	27.35	31.71	122.14	346.64	-801.96	216.98	163.53	53.44	4.060		
8,700.00	7,248.54	8,820.40	7,364.21	28.66	32.55	122.18	346.91	-901.96	217.22	161.88	55.33	3.926		
8,800.00	7,248.59	8,920.40	7,364.52	30.01	33.46	122.22	347.18	-1,001.96	217.45	160.14	57.31	3.794		
8,900.00	7,248.64	9,020.40	7,364.83	31.40	34.43	122.26	347.45	-1,101.95	217.69	158.32	59.37	3.667		
9,000.00	7,248.69	9,120.40	7,365.13	32.80	35.44	122.30	347.71	-1,201.95	217.93	156.44	61.50	3.544		
9,100.00	7,248.74	9,220.40	7,365.44	34.24	36.51	122.34	347.98	-1,301.95	218.17	154.48	63.69	3.426		
9,200.00	7,248.79	9,320.40	7,365.75	35.69	37.62	122.38	348.25	-1,401.95	218.41	152.47	65.94	3.312		
9,300.00	7,248.84	9,420.40	7,366.05	37.16	38.77	122.42	348.52	-1,501.95	218.65	150.41	68.24	3.204		
9,400.00	7,248.89	9,520.40	7,366.36	38.65	39.96	122.46	348.79	-1,601.95	218.89	148.30	70.59	3.101		
9,500.00	7,248.94	9,620.39	7,366.67	40.15	41.18	122.49	349.06	-1,701.95	219.13	146.15	72.98	3.003		
9,600.00	7,249.00	9,720.39	7,366.97	41.67	42.43	122.53	349.33	-1,801.95	219.37	143.97	75.41	2.909		
9,700.00	7,249.05	9,820.39	7,367.28	43.20	43.71	122.57	349.60	-1,901.94	219.61	141.74	77.87	2.820		
9,800.00	7,249.10	9,920.39	7,367.59	44.73	45.01	122.61	349.87	-2,001.94	219.85	139.49	80.36	2.736		
9,900.00	7,249.15	10,020.39	7,367.90	46.28	46.34	122.65	350.14	-2,101.94	220.09	137.21	82.88	2.655		
10,000.00	7,249.20	10,120.39	7,368.20	47.84	47.69	122.69	350.41	-2,201.94	220.34	134.90	85.43	2.579		
10,100.00	7,249.25	10,220.39	7,368.51	49.40	49.06	122.73	350.68	-2,301.94	220.58	132.57	88.00	2.507		
10,200.00	7,249.30	10,320.39	7,368.82	50.97	50.45	122.77	350.95	-2,401.94	220.82	130.22	90.59	2.437		
10,300.00	7,249.35	10,420.39	7,369.12	52.55	51.86	122.81	351.21	-2,501.94	221.06	127.85	93.20	2.372		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	7,249.41	10,520.39	7,369.43	54.13	53.28	122.85	351.48	-2,601.94	221.30	125.47	95.83	2.309	
10,500.00	7,249.46	10,620.39	7,369.74	55.71	54.71	122.88	351.75	-2,701.93	221.54	123.06	98.48	2.250	
10,600.00	7,249.51	10,720.39	7,370.05	57.31	56.16	122.92	352.02	-2,801.93	221.78	120.65	101.13	2.193	
10,700.00	7,249.56	10,820.39	7,370.35	58.90	57.62	122.96	352.29	-2,901.93	222.02	118.22	103.81	2.139	
10,800.00	7,249.61	10,920.39	7,370.66	60.50	59.09	123.00	352.56	-3,001.93	222.26	115.77	106.49	2.087	
10,900.00	7,249.66	11,020.39	7,370.97	62.11	60.57	123.04	352.83	-3,101.93	222.50	113.32	109.19	2.038	
11,000.00	7,249.71	11,120.39	7,371.27	63.72	62.06	123.08	353.10	-3,201.93	222.75	110.85	111.89	1.991	
11,100.00	7,249.76	11,220.39	7,371.58	65.33	63.57	123.11	353.37	-3,301.93	222.99	108.38	114.61	1.946	
11,200.00	7,249.82	11,320.39	7,371.89	66.94	65.07	123.15	353.64	-3,401.93	223.23	105.90	117.33	1.903	
11,300.00	7,249.87	11,420.39	7,372.19	68.56	66.59	123.19	353.91	-3,501.92	223.47	103.41	120.06	1.861	
11,400.00	7,249.92	11,520.39	7,372.50	70.18	68.11	123.23	354.18	-3,601.92	223.71	100.91	122.80	1.822	
11,500.00	7,249.97	11,620.39	7,372.81	71.80	69.64	123.26	354.45	-3,701.92	223.96	98.41	125.55	1.784	
11,600.00	7,250.02	11,720.39	7,373.12	73.42	71.18	123.30	354.71	-3,801.92	224.20	95.90	128.30	1.747	
11,700.00	7,250.07	11,820.39	7,373.42	75.05	72.72	123.34	354.98	-3,901.92	224.44	93.38	131.06	1.713	
11,800.00	7,250.12	11,920.39	7,373.73	76.68	74.27	123.38	355.25	-4,001.92	224.68	90.86	133.82	1.679	
11,900.00	7,250.17	12,020.39	7,374.04	78.31	75.83	123.41	355.52	-4,101.92	224.93	88.34	136.59	1.647	
12,000.00	7,250.22	12,120.38	7,374.34	79.94	77.39	123.45	355.79	-4,201.92	225.17	85.81	139.36	1.616	
12,100.00	7,250.28	12,220.38	7,374.65	81.57	78.95	123.49	356.06	-4,301.91	225.41	83.27	142.14	1.586	
12,200.00	7,250.33	12,320.38	7,374.96	83.21	80.52	123.53	356.33	-4,401.91	225.65	80.74	144.92	1.557	
12,300.00	7,250.38	12,420.38	7,375.27	84.84	82.09	123.56	356.60	-4,501.91	225.90	78.20	147.70	1.529	
12,400.00	7,250.43	12,520.38	7,375.57	86.48	83.66	123.60	356.87	-4,601.91	226.14	75.65	150.49	1.503	
12,500.00	7,250.48	12,620.38	7,375.88	88.12	85.24	123.64	357.14	-4,701.91	226.38	73.11	153.28	1.477 Level 3	
12,600.00	7,250.53	12,720.38	7,376.19	89.76	86.83	123.67	357.41	-4,801.91	226.63	70.56	156.07	1.452 Level 3	
12,700.00	7,250.58	12,820.38	7,376.49	91.40	88.41	123.71	357.68	-4,901.91	226.87	68.01	158.86	1.428 Level 3	
12,800.00	7,250.63	12,920.38	7,376.80	93.04	90.00	123.75	357.95	-5,001.91	227.11	65.45	161.66	1.405 Level 3	
12,900.00	7,250.69	13,020.38	7,377.11	94.68	91.59	123.78	358.21	-5,101.90	227.36	62.90	164.46	1.382 Level 3	
13,000.00	7,250.74	13,120.38	7,377.41	96.33	93.19	123.82	358.48	-5,201.90	227.60	60.34	167.26	1.361 Level 3	
13,100.00	7,250.79	13,220.38	7,377.72	97.97	94.79	123.86	358.75	-5,301.90	227.84	57.78	170.06	1.340 Level 3	
13,200.00	7,250.84	13,320.38	7,378.03	99.62	96.39	123.89	359.02	-5,401.90	228.09	55.22	172.87	1.319 Level 3	
13,300.00	7,250.89	13,420.38	7,378.34	101.27	97.99	123.93	359.29	-5,501.90	228.33	52.66	175.67	1.300 Level 3	
13,400.00	7,250.94	13,520.38	7,378.64	102.92	99.59	123.97	359.56	-5,601.90	228.57	50.10	178.48	1.281 Level 3	
13,500.00	7,250.99	13,620.38	7,378.95	104.56	101.20	124.00	359.83	-5,701.90	228.82	47.53	181.29	1.262 Level 3	
13,600.00	7,251.04	13,720.38	7,379.26	106.21	102.81	124.04	360.10	-5,801.90	229.06	44.97	184.09	1.244 Level 2	
13,700.00	7,251.09	13,820.38	7,379.56	107.86	104.42	124.07	360.37	-5,901.89	229.31	42.40	186.90	1.227 Level 2	
13,800.00	7,251.15	13,920.38	7,379.87	109.51	106.03	124.11	360.64	-6,001.89	229.55	39.84	189.71	1.210 Level 2	
13,900.00	7,251.20	14,020.38	7,380.18	111.16	107.65	124.15	360.91	-6,101.89	229.79	37.27	192.53	1.194 Level 2	
14,000.00	7,251.25	14,120.38	7,380.49	112.82	109.27	124.18	361.18	-6,201.89	230.04	34.70	195.34	1.178 Level 2	
14,100.00	7,251.30	14,220.38	7,380.79	114.47	110.88	124.22	361.44	-6,301.89	230.28	32.13	198.15	1.162 Level 2	
14,200.00	7,251.35	14,320.38	7,381.10	116.12	112.50	124.25	361.71	-6,401.89	230.53	29.57	200.96	1.147 Level 2	
14,300.00	7,251.40	14,420.38	7,381.41	117.78	114.12	124.29	361.98	-6,501.89	230.77	27.00	203.78	1.132 Level 2	
14,400.00	7,251.45	14,520.38	7,381.71	119.43	115.75	124.32	362.25	-6,601.89	231.02	24.43	206.59	1.118 Level 2	
14,500.00	7,251.50	14,620.37	7,382.02	121.08	117.37	124.36	362.52	-6,701.89	231.26	21.86	209.40	1.104 Level 2	
14,600.00	7,251.56	14,720.37	7,382.33	122.74	119.00	124.39	362.79	-6,801.88	231.51	19.29	212.22	1.091 Level 2	
14,700.00	7,251.61	14,820.37	7,382.63	124.40	120.62	124.43	363.06	-6,901.88	231.75	16.72	215.03	1.078 Level 2	
14,800.00	7,251.66	14,920.37	7,382.94	126.05	122.25	124.46	363.33	-7,001.88	232.00	14.16	217.84	1.065 Level 2	
14,900.00	7,251.71	15,020.37	7,383.25	127.71	123.88	124.50	363.60	-7,101.88	232.24	11.59	220.66	1.053 Level 2	
15,000.00	7,251.76	15,120.37	7,383.56	129.36	125.51	124.53	363.87	-7,201.88	232.49	9.02	223.47	1.040 Level 2	
15,100.00	7,251.81	15,220.37	7,383.86	131.02	127.14	124.57	364.14	-7,301.88	232.73	6.45	226.28	1.029 Level 2	
15,200.00	7,251.86	15,320.37	7,384.17	132.68	128.77	124.60	364.41	-7,401.88	232.98	3.88	229.10	1.017 Level 2	
15,300.00	7,251.91	15,420.37	7,384.48	134.34	130.41	124.64	364.68	-7,501.88	233.22	1.32	231.91	1.006 Level 2	
15,400.00	7,251.96	15,520.37	7,384.78	135.99	132.04	124.67	364.94	-7,601.87	233.47	-1.25	234.72	0.995 Level 1	
15,468.95	7,252.00	15,589.32	7,385.00	137.14	133.17	124.70	365.13	-7,670.83	233.64	-3.02	236.66	0.987 Level 1, ES, SF	

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Anticollision Report

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

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Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.80	20.04	-0.28	20.04				
100.00	100.00	100.00	100.00	3.28	3.28	-0.80	20.04	-0.28	20.04	12.51	7.53	2.662	
200.00	200.00	200.00	200.00	3.31	3.31	-0.80	20.04	-0.28	20.04	12.47	7.57	2.646	CC, ES
300.00	299.98	299.79	299.77	3.35	3.35	-80.35	20.58	1.37	20.26	12.60	7.66	2.645	
400.00	399.84	399.58	399.42	3.42	3.42	-80.79	22.19	6.33	20.91	13.13	7.79	2.686	
500.00	499.45	499.37	498.82	3.51	3.51	-81.47	24.87	14.58	22.01	14.04	7.97	2.763	
600.00	598.73	600.83	597.88	3.62	3.63	-81.76	28.61	26.11	23.57	15.36	8.21	2.873	
700.00	697.94	700.85	696.95	3.77	3.77	-80.55	32.78	38.95	25.41	16.91	8.50	2.990	
800.00	797.14	800.87	796.01	3.94	3.95	-79.50	36.96	51.78	27.26	18.42	8.84	3.084	
900.00	896.34	900.89	895.08	4.13	4.14	-78.58	41.13	64.62	29.12	19.90	9.22	3.158	
1,000.00	995.55	1,000.91	994.14	4.33	4.35	-77.78	45.30	77.46	30.99	21.35	9.64	3.215	
1,100.00	1,094.75	1,100.92	1,093.21	4.55	4.58	-77.06	49.47	90.30	32.86	22.77	10.08	3.258	
1,200.00	1,193.95	1,200.94	1,192.28	4.79	4.82	-76.43	53.64	103.14	34.73	24.17	10.56	3.290	
1,300.00	1,293.15	1,300.96	1,291.34	5.04	5.07	-75.85	57.82	115.98	36.61	25.56	11.05	3.312	
1,400.00	1,392.36	1,400.98	1,390.41	5.29	5.34	-75.34	61.99	128.82	38.49	26.93	11.57	3.328	
1,500.00	1,491.56	1,501.00	1,489.47	5.56	5.61	-74.87	66.16	141.66	40.38	28.28	12.10	3.338	
1,600.00	1,590.76	1,601.02	1,588.54	5.83	5.89	-74.44	70.33	154.50	42.27	29.62	12.64	3.343	
1,700.00	1,689.96	1,701.03	1,687.61	6.11	6.17	-74.05	74.50	167.34	44.16	30.96	13.20	3.345	
1,800.00	1,789.17	1,801.05	1,786.67	6.39	6.46	-73.69	78.67	180.18	46.05	32.28	13.77	3.345	
1,900.00	1,888.37	1,901.07	1,885.74	6.54	6.62	-73.37	82.85	193.02	47.94	34.25	13.69	3.503	
2,000.00	1,987.57	2,001.09	1,984.81	6.57	6.65	-73.06	87.02	205.85	49.84	36.09	13.74	3.627	
2,100.00	2,086.77	2,101.11	2,083.87	6.61	6.69	-72.78	91.19	218.69	51.73	37.91	13.82	3.742	
2,200.00	2,185.98	2,201.13	2,182.94	6.67	6.75	-72.52	95.36	231.53	53.63	39.69	13.94	3.848	
2,300.00	2,285.18	2,301.14	2,282.00	6.74	6.83	-72.27	99.53	244.37	55.53	41.45	14.08	3.945	
2,400.00	2,384.38	2,401.16	2,381.07	6.83	6.91	-72.04	103.70	257.21	57.43	43.19	14.24	4.032	
2,500.00	2,483.59	2,501.18	2,480.14	6.92	7.01	-71.83	107.88	270.05	59.33	44.89	14.43	4.110	
2,600.00	2,582.79	2,601.20	2,579.20	7.03	7.12	-71.63	112.05	282.89	61.23	46.58	14.65	4.179	
2,700.00	2,681.99	2,701.22	2,678.27	7.15	7.25	-71.44	116.22	295.73	63.13	48.24	14.89	4.239	
2,800.00	2,781.19	2,801.24	2,777.33	7.29	7.38	-71.26	120.39	308.57	65.03	49.87	15.16	4.290	
2,900.00	2,880.40	2,901.25	2,876.40	7.43	7.53	-71.10	124.56	321.41	66.93	51.49	15.44	4.334	
3,000.00	2,979.60	3,001.27	2,975.47	7.58	7.69	-70.94	128.73	334.25	68.84	53.09	15.75	4.371	
3,100.00	3,078.80	3,101.29	3,074.53	7.74	7.85	-70.79	132.91	347.09	70.74	54.67	16.08	4.401	
3,200.00	3,178.00	3,201.31	3,173.60	7.91	8.03	-70.65	137.08	359.92	72.65	56.23	16.42	4.425	
3,300.00	3,277.21	3,301.33	3,272.67	8.09	8.21	-70.51	141.25	372.76	74.55	57.77	16.78	4.443	
3,400.00	3,376.41	3,401.34	3,371.73	8.28	8.40	-70.39	145.42	385.60	76.46	59.30	17.15	4.457	
3,500.00	3,475.61	3,501.36	3,470.80	8.48	8.60	-70.27	149.59	398.44	78.36	60.82	17.54	4.466	
3,600.00	3,574.82	3,601.38	3,569.86	8.68	8.80	-70.15	153.76	411.28	80.27	62.32	17.95	4.472	
3,700.00	3,674.02	3,701.40	3,668.93	8.88	9.01	-70.04	157.94	424.12	82.17	63.81	18.37	4.474	
3,800.00	3,773.22	3,798.58	3,768.00	9.10	9.22	-69.93	162.11	436.96	84.08	65.29	18.79	4.475	
3,900.00	3,872.42	3,901.44	3,867.06	9.32	9.45	-69.83	166.28	449.80	85.99	66.75	19.23	4.471	
4,000.00	3,971.63	4,001.45	3,966.13	9.54	9.68	-69.74	170.45	462.64	87.89	68.21	19.68	4.465	
4,100.00	4,070.83	4,101.47	4,065.19	9.77	9.91	-69.65	174.62	475.48	89.80	69.66	20.14	4.458	
4,200.00	4,170.03	4,201.49	4,164.26	10.00	10.15	-69.56	178.79	488.32	91.71	71.10	20.61	4.450	
4,300.00	4,269.23	4,301.51	4,263.33	10.24	10.39	-69.47	182.97	501.16	93.62	72.53	21.09	4.439	
4,400.00	4,368.44	4,401.53	4,362.39	10.48	10.63	-69.39	187.14	514.00	95.52	73.95	21.57	4.428	
4,500.00	4,467.64	4,501.55	4,461.46	10.72	10.88	-69.31	191.31	526.83	97.43	75.37	22.06	4.416	
4,600.00	4,566.84	4,601.56	4,560.52	10.97	11.13	-69.24	195.48	539.67	99.34	76.78	22.56	4.403	
4,700.00	4,666.05	4,701.58	4,659.59	11.22	11.38	-69.16	199.65	552.51	101.25	78.18	23.07	4.390	
4,800.00	4,765.25	4,801.60	4,758.66	11.47	11.64	-69.10	203.82	565.35	103.16	79.58	23.58	4.376	
4,900.00	4,864.45	4,901.62	4,857.72	11.73	11.90	-69.03	208.00	578.19	105.07	80.97	24.09	4.361	
5,000.00	4,963.65	5,001.64	4,956.79	11.99	12.16	-68.96	212.17	591.03	106.97	82.36	24.61	4.346	
5,100.00	5,062.86	5,101.66	5,055.86	12.25	12.43	-68.90	216.34	603.87	108.88	83.75	25.14	4.331	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,201.67	5,154.92	12.51	12.69	-68.84	220.51	616.71	110.79	85.12	25.67	4.316		
5,300.00	5,261.26	5,301.69	5,253.99	12.78	12.96	-68.78	224.68	629.55	112.70	86.50	26.20	4.301		
5,400.00	5,360.46	5,401.71	5,353.05	13.05	13.24	-68.73	228.86	642.39	114.61	87.87	26.74	4.286		
5,500.00	5,459.67	5,501.73	5,452.12	13.32	13.51	-68.67	233.03	655.23	116.52	89.24	27.28	4.271		
5,600.00	5,558.87	5,601.75	5,551.19	13.59	13.78	-68.62	237.20	668.07	118.43	90.60	27.83	4.256		
5,700.00	5,658.07	5,701.77	5,650.25	13.86	14.06	-68.57	241.37	680.90	120.34	91.96	28.38	4.241		
5,800.00	5,757.27	5,801.78	5,749.32	14.13	14.34	-68.52	245.54	693.74	122.25	93.32	28.93	4.226		
5,900.00	5,856.48	5,901.80	5,848.38	14.41	14.62	-68.47	249.71	706.58	124.16	94.67	29.48	4.211		
6,000.00	5,955.68	6,001.82	5,947.45	14.69	14.90	-68.42	253.89	719.42	126.07	96.03	30.04	4.196		
6,100.00	6,054.88	6,101.84	6,046.52	14.97	15.18	-68.38	258.06	732.26	127.98	97.38	30.60	4.182		
6,200.00	6,154.09	6,201.86	6,145.58	15.25	15.46	-68.34	262.23	745.10	129.89	98.72	31.16	4.168		
6,300.00	6,253.29	6,301.88	6,244.65	15.53	15.75	-68.29	266.40	757.94	131.80	100.07	31.73	4.154		
6,400.00	6,352.49	6,399.46	6,345.16	15.81	16.01	-68.66	270.63	769.99	133.54	101.26	32.28	4.137		
6,500.00	6,451.69	6,501.52	6,447.02	16.09	16.18	-74.41	274.95	769.34	133.65	100.84	32.81	4.073		
6,600.00	6,550.93	6,597.17	6,541.25	16.37	16.29	-82.75	278.97	753.95	136.10	102.90	33.20	4.099		
6,700.00	6,650.78	6,687.26	6,626.96	16.54	16.35	50.27	282.64	726.69	145.37	112.23	33.14	4.387		
6,800.00	6,749.67	6,773.87	6,704.95	16.66	16.38	54.94	286.01	689.33	159.70	126.98	32.72	4.881		
6,900.00	6,845.16	6,857.62	6,774.88	16.73	16.40	49.60	289.05	643.46	176.65	144.53	32.12	5.500		
7,000.00	6,934.90	6,939.03	6,836.52	16.77	16.43	44.63	291.76	590.44	194.26	162.79	31.48	6.172		
7,100.00	7,016.67	7,018.55	6,889.73	16.79	16.48	40.68	294.12	531.46	211.14	180.22	30.92	6.828		
7,200.00	7,088.47	7,096.56	6,934.40	16.84	16.57	37.67	296.12	467.59	226.34	195.78	30.55	7.408		
7,300.00	7,148.53	7,173.41	6,970.44	16.95	16.72	35.44	297.77	399.80	239.18	208.73	30.44	7.857		
7,400.00	7,195.36	7,250.00	6,998.00	17.14	16.93	33.87	299.06	328.39	249.21	218.59	30.62	8.138		
7,500.00	7,227.82	7,324.72	7,016.44	17.43	17.21	32.88	299.97	256.03	256.14	225.02	31.12	8.230		
7,600.00	7,245.11	7,400.00	7,026.32	17.83	17.54	32.38	300.52	181.45	259.76	227.86	31.90	8.142		
7,700.00	7,248.02	7,484.96	7,028.18	18.33	18.00	32.33	300.75	96.54	260.19	227.34	32.85	7.920		
7,800.00	7,248.07	7,584.96	7,028.60	18.96	18.65	32.39	300.95	-3.46	259.91	226.07	33.83	7.682		
7,900.00	7,248.13	7,684.96	7,029.02	19.71	19.43	32.44	301.14	-103.46	259.62	224.67	34.95	7.429		
8,000.00	7,248.18	7,784.96	7,029.44	20.57	20.31	32.49	301.34	-203.46	259.33	223.15	36.19	7.167		
8,100.00	7,248.23	7,884.95	7,029.87	21.52	21.28	32.55	301.53	-303.46	259.04	221.51	37.54	6.901		
8,200.00	7,248.28	7,984.95	7,030.29	22.56	22.34	32.60	301.73	-403.46	258.76	219.77	38.99	6.636		
8,300.00	7,248.33	8,084.95	7,030.71	23.67	23.47	32.65	301.93	-503.45	258.47	217.94	40.53	6.377		
8,400.00	7,248.38	8,184.95	7,031.13	24.84	24.66	32.71	302.12	-603.45	258.18	216.03	42.16	6.124		
8,500.00	7,248.43	8,284.95	7,031.56	26.07	25.90	32.76	302.32	-703.45	257.90	214.04	43.85	5.881		
8,600.00	7,248.48	8,384.95	7,031.98	27.35	27.19	32.81	302.51	-803.45	257.61	212.00	45.62	5.647		
8,700.00	7,248.54	8,484.95	7,032.40	28.66	28.52	32.87	302.71	-903.45	257.33	209.89	47.44	5.425		
8,800.00	7,248.59	8,584.95	7,032.82	30.01	29.88	32.92	302.90	-1,003.44	257.04	207.73	49.31	5.213		
8,900.00	7,248.64	8,684.95	7,033.25	31.40	31.27	32.98	303.10	-1,103.44	256.76	205.53	51.22	5.012		
9,000.00	7,248.69	8,784.95	7,033.67	32.80	32.69	33.03	303.30	-1,203.44	256.47	203.29	53.18	4.822		
9,100.00	7,248.74	8,884.95	7,034.09	34.24	34.13	33.08	303.49	-1,303.44	256.19	201.00	55.18	4.643		
9,200.00	7,248.79	8,984.95	7,034.51	35.69	35.60	33.14	303.69	-1,403.44	255.90	198.69	57.21	4.473		
9,300.00	7,248.84	9,084.95	7,034.94	37.16	37.08	33.19	303.88	-1,503.44	255.62	196.34	59.27	4.312		
9,400.00	7,248.89	9,184.95	7,035.36	38.65	38.57	33.25	304.08	-1,603.43	255.33	193.97	61.36	4.161		
9,500.00	7,248.94	9,284.94	7,035.78	40.15	40.08	33.30	304.27	-1,703.43	255.05	191.57	63.48	4.018		
9,600.00	7,249.00	9,384.94	7,036.20	41.67	41.60	33.36	304.47	-1,803.43	254.76	189.14	65.62	3.882		
9,700.00	7,249.05	9,484.94	7,036.63	43.20	43.13	33.41	304.67	-1,903.43	254.48	186.70	67.78	3.754		
9,800.00	7,249.10	9,584.94	7,037.05	44.73	44.68	33.47	304.86	-2,003.43	254.20	184.23	69.96	3.633		
9,900.00	7,249.15	9,684.94	7,037.47	46.28	46.23	33.52	305.06	-2,103.43	253.91	181.75	72.16	3.519		
10,000.00	7,249.20	9,784.94	7,037.89	47.84	47.79	33.58	305.25	-2,203.42	253.63	179.25	74.38	3.410		
10,100.00	7,249.25	9,884.94	7,038.32	49.40	49.36	33.63	305.45	-2,303.42	253.35	176.74	76.61	3.307		
10,200.00	7,249.30	9,984.94	7,038.74	50.97	50.93	33.69	305.64	-2,403.42	253.07	174.21	78.86	3.209		
10,300.00	7,249.35	10,084.94	7,039.16	52.55	52.51	33.75	305.84	-2,503.42	252.78	171.66	81.12	3.116		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,249.41	10,184.94	7,039.58	54.13	54.10	33.80	306.04	-2,603.42	252.50	169.11	83.40	3.028		
10,500.00	7,249.46	10,284.94	7,040.01	55.71	55.69	33.86	306.23	-2,703.41	252.22	166.54	85.68	2.944		
10,600.00	7,249.51	10,384.94	7,040.43	57.31	57.28	33.91	306.43	-2,803.41	251.94	163.96	87.98	2.864		
10,700.00	7,249.56	10,484.94	7,040.85	58.90	58.88	33.97	306.62	-2,903.41	251.66	161.37	90.29	2.787		
10,800.00	7,249.61	10,584.94	7,041.27	60.50	60.48	34.03	306.82	-3,003.41	251.38	158.77	92.61	2.714		
10,900.00	7,249.66	10,684.93	7,041.70	62.11	62.09	34.08	307.01	-3,103.41	251.10	156.16	94.94	2.645		
11,000.00	7,249.71	10,784.93	7,042.12	63.72	63.70	34.14	307.21	-3,203.41	250.82	153.54	97.28	2.578		
11,100.00	7,249.76	10,884.93	7,042.54	65.33	65.31	34.20	307.40	-3,303.40	250.54	150.91	99.63	2.515		
11,200.00	7,249.82	10,984.93	7,042.96	66.94	66.93	34.25	307.60	-3,403.40	250.26	148.27	101.98	2.454		
11,300.00	7,249.87	11,084.93	7,043.39	68.56	68.55	34.31	307.80	-3,503.40	249.98	145.63	104.35	2.396		
11,400.00	7,249.92	11,184.93	7,043.81	70.18	70.17	34.37	307.99	-3,603.40	249.70	142.98	106.72	2.340		
11,500.00	7,249.97	11,284.93	7,044.23	71.80	71.79	34.42	308.19	-3,703.40	249.42	140.32	109.10	2.286		
11,600.00	7,250.02	11,384.93	7,044.65	73.42	73.42	34.48	308.38	-3,803.39	249.14	137.65	111.49	2.235		
11,700.00	7,250.07	11,484.93	7,045.08	75.05	75.05	34.54	308.58	-3,903.39	248.86	134.98	113.88	2.185		
11,800.00	7,250.12	11,584.93	7,045.50	76.68	76.68	34.60	308.77	-4,003.39	248.58	132.30	116.28	2.138		
11,900.00	7,250.17	11,684.93	7,045.92	78.31	78.31	34.65	308.97	-4,103.39	248.30	129.61	118.69	2.092		
12,000.00	7,250.22	11,784.93	7,046.34	79.94	79.94	34.71	309.17	-4,203.39	248.03	126.92	121.11	2.048		
12,100.00	7,250.28	11,884.93	7,046.77	81.57	81.58	34.77	309.36	-4,303.39	247.75	124.22	123.53	2.006		
12,200.00	7,250.33	11,984.93	7,047.19	83.21	83.21	34.83	309.56	-4,403.38	247.47	121.51	125.96	1.965		
12,300.00	7,250.38	12,084.93	7,047.61	84.84	84.85	34.89	309.75	-4,503.38	247.19	118.80	128.39	1.925		
12,400.00	7,250.43	12,184.92	7,048.03	86.48	86.49	34.95	309.95	-4,603.38	246.92	116.09	130.83	1.887		
12,500.00	7,250.48	12,284.92	7,048.46	88.12	88.13	35.00	310.14	-4,703.38	246.64	113.37	133.28	1.851		
12,600.00	7,250.53	12,384.92	7,048.88	89.76	89.77	35.06	310.34	-4,803.38	246.36	110.64	135.73	1.815		
12,700.00	7,250.58	12,484.92	7,049.30	91.40	91.41	35.12	310.54	-4,903.38	246.09	107.91	138.18	1.781		
12,800.00	7,250.63	12,584.92	7,049.72	93.04	93.06	35.18	310.73	-5,003.37	245.81	105.17	140.65	1.748		
12,900.00	7,250.69	12,684.92	7,050.15	94.68	94.70	35.24	310.93	-5,103.37	245.54	102.42	143.11	1.716		
13,000.00	7,250.74	12,784.92	7,050.57	96.33	96.35	35.30	311.12	-5,203.37	245.26	99.68	145.59	1.685		
13,100.00	7,250.79	12,884.92	7,050.99	97.97	97.99	35.36	311.32	-5,303.37	244.99	96.92	148.06	1.655		
13,200.00	7,250.84	12,984.92	7,051.41	99.62	99.64	35.42	311.51	-5,403.37	244.71	94.17	150.55	1.625		
13,300.00	7,250.89	13,084.92	7,051.84	101.27	101.29	35.48	311.71	-5,503.36	244.44	91.40	153.03	1.597		
13,400.00	7,250.94	13,184.92	7,052.26	102.92	102.94	35.54	311.91	-5,603.36	244.16	88.64	155.53	1.570		
13,500.00	7,250.99	13,284.92	7,052.68	104.56	104.59	35.60	312.10	-5,703.36	243.89	85.86	158.02	1.543		
13,600.00	7,251.04	13,384.92	7,053.10	106.21	106.24	35.66	312.30	-5,803.36	243.61	83.09	160.53	1.518		
13,700.00	7,251.09	13,484.92	7,053.53	107.86	107.89	35.72	312.49	-5,903.36	243.34	80.31	163.04	1.493 Level 3		
13,800.00	7,251.15	13,584.91	7,053.95	109.51	109.54	35.78	312.69	-6,003.36	243.07	77.52	165.55	1.468 Level 3		
13,900.00	7,251.20	13,684.91	7,054.37	111.16	111.19	35.84	312.88	-6,103.35	242.80	74.73	168.06	1.445 Level 3		
14,000.00	7,251.25	13,784.91	7,054.79	112.82	112.84	35.90	313.08	-6,203.35	242.52	71.94	170.59	1.422 Level 3		
14,100.00	7,251.30	13,884.91	7,055.22	114.47	114.50	35.96	313.28	-6,303.35	242.25	69.14	173.11	1.399 Level 3		
14,200.00	7,251.35	13,984.91	7,055.64	116.12	116.15	36.02	313.47	-6,403.35	241.98	66.33	175.64	1.378 Level 3		
14,300.00	7,251.40	14,084.91	7,056.06	117.78	117.81	36.08	313.67	-6,503.35	241.71	63.53	178.18	1.357 Level 3		
14,400.00	7,251.45	14,184.91	7,056.48	119.43	119.46	36.14	313.86	-6,603.35	241.43	60.72	180.72	1.336 Level 3		
14,500.00	7,251.50	14,284.91	7,056.91	121.08	121.12	36.20	314.06	-6,703.34	241.16	57.90	183.26	1.316 Level 3		
14,600.00	7,251.56	14,384.91	7,057.33	122.74	122.77	36.27	314.25	-6,803.34	240.89	55.08	185.81	1.296 Level 3		
14,700.00	7,251.61	14,484.91	7,057.75	124.40	124.43	36.33	314.45	-6,903.34	240.62	52.25	188.37	1.277 Level 3		
14,800.00	7,251.66	14,584.91	7,058.17	126.05	126.08	36.39	314.65	-7,003.34	240.35	49.43	190.93	1.259 Level 3		
14,900.00	7,251.71	14,684.91	7,058.60	127.71	127.74	36.45	314.84	-7,103.34	240.08	46.59	193.49	1.241 Level 2		
15,000.00	7,251.76	14,784.91	7,059.02	129.36	129.40	36.51	315.04	-7,203.33	239.81	43.76	196.05	1.223 Level 2		
15,100.00	7,251.81	14,884.91	7,059.44	131.02	131.06	36.57	315.23	-7,303.33	239.54	40.92	198.63	1.206 Level 2		
15,200.00	7,251.86	14,984.90	7,059.86	132.68	132.71	36.64	315.43	-7,403.33	239.27	38.07	201.20	1.189 Level 2		
15,300.00	7,251.91	15,084.90	7,060.29	134.34	134.37	36.70	315.62	-7,503.33	239.00	35.22	203.78	1.173 Level 2		
15,400.00	7,251.96	15,184.90	7,060.71	135.99	136.03	36.76	315.82	-7,603.33	238.73	32.37	206.37	1.157 Level 2		
15,468.95	7,252.00	15,253.86	7,061.00	137.14	137.17	36.81	315.95	-7,672.28	238.55	30.40	208.15	1.146 Level 2, SF		

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Anticollision Report

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

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	-0.53	60.11	-0.56	60.12				
100.00	100.00	100.00	100.00	3.28	3.28	-0.53	60.11	-0.56	60.12	52.59	7.53	7.985	
200.00	200.00	200.00	200.00	3.31	3.31	-0.53	60.11	-0.56	60.12	52.54	7.57	7.937 CC, ES	
300.00	299.98	299.01	298.99	3.35	3.35	-80.11	60.94	0.94	60.63	52.97	7.66	7.916	
400.00	399.84	398.00	397.85	3.42	3.42	-80.61	63.42	5.43	62.18	54.40	7.79	7.986	
500.00	499.45	496.96	496.43	3.51	3.51	-81.40	67.54	12.91	64.78	56.81	7.96	8.135	
600.00	598.73	595.87	594.61	3.62	3.62	-82.22	73.31	23.35	68.46	60.26	8.19	8.354	
700.00	697.94	695.55	693.25	3.77	3.77	-81.85	80.25	35.92	73.09	64.60	8.49	8.613	
800.00	797.14	804.56	792.09	3.94	3.96	-81.48	87.23	48.57	77.75	68.91	8.84	8.792	
900.00	896.34	904.67	890.93	4.13	4.16	-81.15	94.22	61.22	82.42	73.19	9.23	8.932	
1,000.00	995.55	995.22	989.77	4.33	4.35	-80.86	101.20	73.88	87.09	77.46	9.63	9.047	
1,100.00	1,094.75	1,104.89	1,088.61	4.55	4.61	-80.60	108.19	86.53	91.76	81.66	10.10	9.086	
1,200.00	1,193.95	1,205.00	1,187.45	4.79	4.86	-80.36	115.17	99.19	96.43	85.85	10.58	9.118	
1,300.00	1,293.15	1,305.11	1,286.29	5.04	5.12	-80.14	122.16	111.84	101.10	90.03	11.08	9.128	
1,400.00	1,392.36	1,405.22	1,385.12	5.29	5.39	-79.95	129.15	124.50	105.78	94.18	11.60	9.123	
1,500.00	1,491.56	1,494.67	1,483.96	5.56	5.64	-79.76	136.13	137.15	110.46	98.35	12.10	9.127	
1,600.00	1,590.76	1,594.56	1,582.80	5.83	5.92	-79.60	143.12	149.80	115.13	102.48	12.65	9.100	
1,700.00	1,689.96	1,705.55	1,681.64	6.11	6.25	-79.45	150.10	162.46	119.81	106.57	13.25	9.045	
1,800.00	1,789.17	1,805.66	1,780.48	6.39	6.54	-79.31	157.09	175.11	124.49	110.68	13.81	9.013	
1,900.00	1,888.37	1,905.77	1,879.32	6.54	6.69	-79.17	164.07	187.77	129.17	115.44	13.73	9.407	
2,000.00	1,987.57	2,005.88	1,978.16	6.57	6.73	-79.05	171.06	200.42	133.85	120.06	13.79	9.707	
2,100.00	2,086.77	2,105.99	2,077.00	6.61	6.77	-78.94	178.04	213.07	138.53	124.66	13.88	9.984	
2,200.00	2,185.98	2,206.10	2,175.83	6.67	6.84	-78.83	185.03	225.73	143.21	129.22	13.99	10.236	
2,300.00	2,285.18	2,306.21	2,274.67	6.74	6.91	-78.73	192.02	238.38	147.90	133.76	14.13	10.464	
2,400.00	2,384.38	2,406.32	2,373.51	6.83	7.00	-78.64	199.00	251.04	152.58	138.27	14.31	10.666	
2,500.00	2,483.59	2,493.57	2,472.35	6.92	7.09	-78.55	205.99	263.69	157.26	142.77	14.49	10.854	
2,600.00	2,582.79	2,606.54	2,571.19	7.03	7.22	-78.47	212.97	276.35	161.95	147.22	14.72	10.999	
2,700.00	2,681.99	2,706.65	2,670.03	7.15	7.35	-78.39	219.96	289.00	166.63	151.66	14.97	11.131	
2,800.00	2,781.19	2,806.76	2,768.87	7.29	7.49	-78.32	226.94	301.65	171.31	156.07	15.24	11.242	
2,900.00	2,880.40	2,906.87	2,867.70	7.43	7.64	-78.25	233.93	314.31	176.00	160.47	15.53	11.333	
3,000.00	2,979.60	3,006.98	2,966.54	7.58	7.80	-78.18	240.91	326.96	180.68	164.84	15.84	11.407	
3,100.00	3,078.80	3,107.09	3,065.38	7.74	7.97	-78.12	247.90	339.62	185.37	169.20	16.17	11.464	
3,200.00	3,178.00	3,207.20	3,164.22	7.91	8.15	-78.06	254.88	352.27	190.05	173.54	16.52	11.507	
3,300.00	3,277.21	3,307.31	3,263.06	8.09	8.33	-78.00	261.87	364.93	194.74	177.86	16.88	11.536	
3,400.00	3,376.41	3,407.42	3,361.90	8.28	8.53	-77.95	268.86	377.58	199.42	182.16	17.26	11.553	
3,500.00	3,475.61	3,507.53	3,460.74	8.48	8.73	-77.89	275.84	390.23	204.11	186.45	17.66	11.561	
3,600.00	3,574.82	3,607.64	3,559.58	8.68	8.94	-77.85	282.83	402.89	208.79	190.73	18.06	11.559	
3,700.00	3,674.02	3,707.75	3,658.41	8.88	9.15	-77.80	289.81	415.54	213.48	194.99	18.48	11.549	
3,800.00	3,773.22	3,807.86	3,757.25	9.10	9.37	-77.75	296.80	428.20	218.16	199.25	18.92	11.533	
3,900.00	3,872.42	3,907.97	3,856.09	9.32	9.60	-77.71	303.78	440.85	222.85	203.49	19.36	11.511	
4,000.00	3,971.63	4,008.08	3,954.93	9.54	9.83	-77.67	310.77	453.50	227.54	207.72	19.81	11.483	
4,100.00	4,070.83	4,091.81	4,053.77	9.77	10.03	-77.63	317.75	466.16	232.22	211.98	20.24	11.474	
4,200.00	4,170.03	4,208.30	4,152.61	10.00	10.31	-77.59	324.74	478.81	236.91	216.16	20.75	11.417	
4,300.00	4,269.23	4,308.41	4,251.45	10.24	10.55	-77.55	331.72	491.47	241.60	220.37	21.23	11.380	
4,400.00	4,368.44	4,408.52	4,350.29	10.48	10.80	-77.52	338.71	504.12	246.28	224.56	21.72	11.340	
4,500.00	4,467.64	4,508.63	4,449.12	10.72	11.05	-77.48	345.70	516.78	250.97	228.76	22.21	11.298	
4,600.00	4,566.84	4,608.74	4,547.96	10.97	11.31	-77.45	352.68	529.43	255.66	232.94	22.72	11.254	
4,700.00	4,666.05	4,708.85	4,646.80	11.22	11.56	-77.42	359.67	542.08	260.34	237.12	23.22	11.210	
4,800.00	4,765.25	4,808.96	4,745.64	11.47	11.83	-77.39	366.65	554.74	265.03	241.29	23.74	11.164	
4,900.00	4,864.45	4,909.07	4,844.48	11.73	12.09	-77.36	373.64	567.39	269.72	245.46	24.26	11.119	
5,000.00	4,963.65	5,009.18	4,943.32	11.99	12.36	-77.33	380.62	580.05	274.40	249.62	24.78	11.072	
5,100.00	5,062.86	5,109.29	5,042.16	12.25	12.62	-77.30	387.61	592.70	279.09	253.78	25.31	11.026	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,209.40	5,140.99	12.51	12.90	-77.28	394.59	605.35	283.78	257.93	25.85	10.979		
5,300.00	5,261.26	5,309.51	5,239.83	12.78	13.17	-77.25	401.58	618.01	288.47	262.08	26.38	10.933		
5,400.00	5,360.46	5,409.62	5,338.67	13.05	13.44	-77.23	408.56	630.66	293.15	266.23	26.93	10.887		
5,500.00	5,459.67	5,509.73	5,437.51	13.32	13.72	-77.20	415.55	643.32	297.84	270.37	27.47	10.841		
5,600.00	5,558.87	5,590.16	5,536.35	13.59	13.95	-77.18	422.54	655.97	302.53	274.56	27.97	10.817		
5,700.00	5,658.07	5,709.95	5,635.19	13.86	14.28	-77.15	429.52	668.63	307.21	278.64	28.57	10.751		
5,800.00	5,757.27	5,789.94	5,734.03	14.13	14.51	-77.13	436.51	681.28	311.90	282.83	29.07	10.728		
5,900.00	5,856.48	5,889.83	5,832.87	14.41	14.79	-77.11	443.49	693.93	316.59	286.96	29.63	10.684		
6,000.00	5,955.68	5,989.72	5,931.70	14.69	15.07	-77.09	450.48	706.59	321.28	291.08	30.19	10.641		
6,100.00	6,054.88	6,089.61	6,030.54	14.97	15.36	-77.07	457.46	719.24	325.96	295.21	30.76	10.599		
6,200.00	6,154.09	6,189.50	6,129.38	15.25	15.64	-77.05	464.45	731.90	330.65	299.33	31.32	10.557		
6,300.00	6,253.29	6,289.39	6,228.22	15.53	15.93	-77.03	471.43	744.55	335.34	303.45	31.89	10.516		
6,400.00	6,352.49	6,389.28	6,327.06	15.81	16.22	-77.01	478.42	757.20	340.03	307.57	32.46	10.476		
6,500.00	6,451.69	6,489.17	6,425.90	16.09	16.51	-77.00	485.41	769.86	344.72	311.68	33.03	10.436		
6,600.00	6,550.93	6,590.11	6,526.15	16.37	16.75	-74.59	492.50	778.37	349.30	315.74	33.56	10.409		
6,700.00	6,650.78	6,690.18	6,625.63	16.54	16.91	68.80	499.56	771.60	353.93	320.03	33.90	10.440		
6,800.00	6,749.67	6,788.94	6,721.59	16.66	17.01	81.76	506.40	749.70	358.72	324.58	34.13	10.510		
6,900.00	6,845.16	6,886.48	6,811.92	16.73	17.07	82.63	512.86	713.73	363.52	329.26	34.27	10.608		
7,000.00	6,934.90	6,982.91	6,894.81	16.77	17.10	82.12	518.82	664.99	368.20	333.86	34.34	10.721		
7,100.00	7,016.67	7,078.34	6,968.69	16.79	17.11	81.29	524.16	604.96	372.59	338.18	34.40	10.830		
7,200.00	7,088.47	7,172.92	7,032.27	16.84	17.15	80.41	528.78	535.22	376.55	342.03	34.51	10.910		
7,300.00	7,148.53	7,266.76	7,084.48	16.95	17.25	79.61	532.61	457.44	379.95	345.20	34.74	10.936		
7,400.00	7,195.36	7,360.00	7,124.52	17.14	17.43	78.95	535.59	373.37	382.66	347.52	35.14	10.890		
7,500.00	7,227.82	7,452.80	7,151.79	17.43	17.71	78.45	537.67	284.78	384.60	348.86	35.75	10.759		
7,600.00	7,245.11	7,545.28	7,165.91	17.83	18.10	78.13	538.83	193.48	385.70	349.13	36.56	10.549		
7,700.00	7,248.02	7,641.09	7,168.08	18.33	18.61	78.04	539.14	97.73	385.93	348.34	37.59	10.266		
7,800.00	7,248.07	7,741.09	7,168.26	18.96	19.26	78.06	539.32	-2.27	385.94	347.07	38.87	9.929		
7,900.00	7,248.13	7,841.09	7,168.44	19.71	20.02	78.08	539.50	-102.27	385.94	345.57	40.38	9.559		
8,000.00	7,248.18	7,941.09	7,168.62	20.57	20.89	78.10	539.68	-202.27	385.95	343.86	42.09	9.169		
8,100.00	7,248.23	8,041.09	7,168.80	21.52	21.85	78.12	539.86	-302.27	385.95	341.96	43.99	8.774		
8,200.00	7,248.28	8,141.09	7,168.98	22.56	22.89	78.14	540.04	-402.27	385.96	339.91	46.05	8.382		
8,300.00	7,248.33	8,241.09	7,169.16	23.67	24.00	78.16	540.22	-502.27	385.96	337.72	48.25	8.000		
8,400.00	7,248.38	8,341.09	7,169.33	24.84	25.17	78.18	540.40	-602.27	385.97	335.40	50.57	7.633		
8,500.00	7,248.43	8,441.08	7,169.51	26.07	26.40	78.20	540.58	-702.27	385.97	332.98	52.99	7.283		
8,600.00	7,248.48	8,541.08	7,169.69	27.35	27.67	78.22	540.76	-802.27	385.98	330.47	55.51	6.953		
8,700.00	7,248.54	8,641.08	7,169.87	28.66	28.98	78.24	540.94	-902.27	385.98	327.88	58.11	6.643		
8,800.00	7,248.59	8,741.08	7,170.05	30.01	30.33	78.26	541.12	-1,002.27	385.99	325.22	60.77	6.351		
8,900.00	7,248.64	8,841.08	7,170.23	31.40	31.71	78.28	541.30	-1,102.27	385.99	322.50	63.50	6.079		
9,000.00	7,248.69	8,941.08	7,170.41	32.80	33.11	78.30	541.48	-1,202.27	386.00	319.72	66.28	5.824		
9,100.00	7,248.74	9,041.08	7,170.59	34.24	34.54	78.32	541.66	-1,302.27	386.01	316.90	69.11	5.586		
9,200.00	7,248.79	9,141.08	7,170.77	35.69	35.99	78.34	541.84	-1,402.27	386.01	314.04	71.97	5.363		
9,300.00	7,248.84	9,241.08	7,170.95	37.16	37.45	78.36	542.02	-1,502.27	386.02	311.14	74.88	5.155		
9,400.00	7,248.89	9,341.08	7,171.13	38.65	38.94	78.38	542.20	-1,602.27	386.02	308.21	77.81	4.961		
9,500.00	7,248.94	9,441.08	7,171.30	40.15	40.44	78.40	542.38	-1,702.27	386.03	305.25	80.78	4.779		
9,600.00	7,249.00	9,541.08	7,171.48	41.67	41.95	78.42	542.56	-1,802.26	386.04	302.27	83.77	4.608		
9,700.00	7,249.05	9,641.08	7,171.66	43.20	43.47	78.44	542.74	-1,902.26	386.04	299.26	86.78	4.448		
9,800.00	7,249.10	9,741.08	7,171.84	44.73	45.00	78.46	542.92	-2,002.26	386.05	296.23	89.82	4.298		
9,900.00	7,249.15	9,841.08	7,172.02	46.28	46.55	78.48	543.10	-2,102.26	386.05	293.18	92.87	4.157		
10,000.00	7,249.20	9,941.08	7,172.20	47.84	48.10	78.50	543.28	-2,202.26	386.06	290.12	95.94	4.024		
10,100.00	7,249.25	10,041.08	7,172.38	49.40	49.66	78.51	543.46	-2,302.26	386.07	287.04	99.02	3.899		
10,200.00	7,249.30	10,141.08	7,172.56	50.97	51.22	78.53	543.64	-2,402.26	386.07	283.95	102.12	3.780		
10,300.00	7,249.35	10,241.08	7,172.74	52.55	52.80	78.55	543.82	-2,502.26	386.08	280.84	105.24	3.669		

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Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,249.41	10,341.08	7,172.92	54.13	54.38	78.57	544.00	-2,602.26	386.08	277.72	108.36	3.563		
10,500.00	7,249.46	10,441.08	7,173.10	55.71	55.96	78.59	544.17	-2,702.26	386.09	274.59	111.50	3.463		
10,600.00	7,249.51	10,541.08	7,173.28	57.31	57.55	78.61	544.35	-2,802.26	386.10	271.46	114.64	3.368		
10,700.00	7,249.56	10,641.08	7,173.45	58.90	59.14	78.63	544.53	-2,902.26	386.10	268.31	117.80	3.278		
10,800.00	7,249.61	10,741.08	7,173.63	60.50	60.74	78.65	544.71	-3,002.26	386.11	265.15	120.96	3.192		
10,900.00	7,249.66	10,841.08	7,173.81	62.11	62.34	78.67	544.89	-3,102.26	386.12	261.99	124.13	3.111		
11,000.00	7,249.71	10,941.08	7,173.99	63.72	63.95	78.69	545.07	-3,202.26	386.12	258.82	127.31	3.033		
11,100.00	7,249.76	11,041.08	7,174.17	65.33	65.56	78.71	545.25	-3,302.26	386.13	255.64	130.49	2.959		
11,200.00	7,249.82	11,141.08	7,174.35	66.94	67.17	78.73	545.43	-3,402.26	386.14	252.45	133.68	2.888		
11,300.00	7,249.87	11,241.08	7,174.53	68.56	68.78	78.75	545.61	-3,502.26	386.14	249.27	136.88	2.821		
11,400.00	7,249.92	11,341.08	7,174.71	70.18	70.40	78.77	545.79	-3,602.26	386.15	246.07	140.08	2.757		
11,500.00	7,249.97	11,441.08	7,174.89	71.80	72.02	78.79	545.97	-3,702.26	386.16	242.87	143.29	2.695		
11,600.00	7,250.02	11,541.08	7,175.07	73.42	73.64	78.81	546.15	-3,802.26	386.16	239.66	146.50	2.636		
11,700.00	7,250.07	11,641.08	7,175.25	75.05	75.27	78.83	546.33	-3,902.26	386.17	236.45	149.72	2.579		
11,800.00	7,250.12	11,741.08	7,175.42	76.68	76.89	78.85	546.51	-4,002.26	386.18	233.24	152.94	2.525		
11,900.00	7,250.17	11,841.08	7,175.60	78.31	78.52	78.87	546.69	-4,102.26	386.18	230.02	156.16	2.473		
12,000.00	7,250.22	11,941.08	7,175.78	79.94	80.15	78.89	546.87	-4,202.25	386.19	226.80	159.39	2.423		
12,100.00	7,250.28	12,041.08	7,175.96	81.57	81.78	78.91	547.05	-4,302.25	386.20	223.58	162.62	2.375		
12,200.00	7,250.33	12,141.08	7,176.14	83.21	83.42	78.93	547.23	-4,402.25	386.20	220.35	165.86	2.329		
12,300.00	7,250.38	12,241.08	7,176.32	84.84	85.05	78.94	547.41	-4,502.25	386.21	217.12	169.10	2.284		
12,400.00	7,250.43	12,341.08	7,176.50	86.48	86.69	78.96	547.59	-4,602.25	386.22	213.88	172.34	2.241		
12,500.00	7,250.48	12,441.08	7,176.68	88.12	88.33	78.98	547.77	-4,702.25	386.23	210.64	175.58	2.200		
12,600.00	7,250.53	12,541.08	7,176.86	89.76	89.96	79.00	547.95	-4,802.25	386.23	207.40	178.83	2.160		
12,700.00	7,250.58	12,641.08	7,177.04	91.40	91.60	79.02	548.13	-4,902.25	386.24	204.16	182.08	2.121		
12,800.00	7,250.63	12,741.08	7,177.22	93.04	93.25	79.04	548.31	-5,002.25	386.25	200.92	185.33	2.084		
12,900.00	7,250.69	12,841.08	7,177.40	94.68	94.89	79.06	548.49	-5,102.25	386.26	197.67	188.59	2.048		
13,000.00	7,250.74	12,941.08	7,177.57	96.33	96.53	79.08	548.67	-5,202.25	386.26	194.42	191.84	2.013		
13,100.00	7,250.79	13,041.08	7,177.75	97.97	98.17	79.10	548.85	-5,302.25	386.27	191.17	195.10	1.980		
13,200.00	7,250.84	13,141.08	7,177.93	99.62	99.82	79.12	549.03	-5,402.25	386.28	187.91	198.36	1.947		
13,300.00	7,250.89	13,241.08	7,178.11	101.27	101.47	79.14	549.21	-5,502.25	386.29	184.66	201.63	1.916		
13,400.00	7,250.94	13,341.08	7,178.29	102.92	103.11	79.16	549.39	-5,602.25	386.29	181.40	204.89	1.885		
13,500.00	7,250.99	13,441.08	7,178.47	104.56	104.76	79.18	549.57	-5,702.25	386.30	178.14	208.16	1.856		
13,600.00	7,251.04	13,541.08	7,178.65	106.21	106.41	79.20	549.75	-5,802.25	386.31	174.88	211.43	1.827		
13,700.00	7,251.09	13,641.08	7,178.83	107.86	108.06	79.22	549.93	-5,902.25	386.32	171.62	214.70	1.799		
13,800.00	7,251.15	13,741.08	7,179.01	109.51	109.71	79.24	550.11	-6,002.25	386.32	168.35	217.97	1.772		
13,900.00	7,251.20	13,841.08	7,179.19	111.16	111.36	79.26	550.29	-6,102.25	386.33	165.09	221.24	1.746		
14,000.00	7,251.25	13,941.08	7,179.37	112.82	113.01	79.28	550.47	-6,202.25	386.34	161.82	224.52	1.721		
14,100.00	7,251.30	14,041.08	7,179.55	114.47	114.66	79.30	550.65	-6,302.25	386.35	158.55	227.79	1.696		
14,200.00	7,251.35	14,141.08	7,179.72	116.12	116.31	79.32	550.83	-6,402.25	386.36	155.28	231.07	1.672		
14,300.00	7,251.40	14,241.08	7,179.90	117.78	117.97	79.34	551.01	-6,502.25	386.36	152.01	234.35	1.649		
14,400.00	7,251.45	14,341.08	7,180.08	119.43	119.62	79.36	551.19	-6,602.25	386.37	148.74	237.63	1.626		
14,500.00	7,251.50	14,441.08	7,180.26	121.08	121.27	79.37	551.37	-6,702.24	386.38	145.47	240.91	1.604		
14,600.00	7,251.56	14,541.08	7,180.44	122.74	122.93	79.39	551.55	-6,802.24	386.39	142.19	244.20	1.582		
14,700.00	7,251.61	14,641.08	7,180.62	124.40	124.58	79.41	551.73	-6,902.24	386.40	138.92	247.48	1.561		
14,800.00	7,251.66	14,741.08	7,180.80	126.05	126.24	79.43	551.91	-7,002.24	386.40	135.64	250.77	1.541		
14,900.00	7,251.71	14,841.08	7,180.98	127.71	127.89	79.45	552.09	-7,102.24	386.41	132.36	254.05	1.521		
15,000.00	7,251.76	14,941.08	7,181.16	129.36	129.55	79.47	552.26	-7,202.24	386.42	129.08	257.34	1.502		
15,100.00	7,251.81	15,041.08	7,181.34	131.02	131.21	79.49	552.44	-7,302.24	386.43	125.80	260.63	1.483 Level 3		
15,200.00	7,251.86	15,141.08	7,181.52	132.68	132.86	79.51	552.62	-7,402.24	386.44	122.52	263.92	1.464 Level 3		
15,300.00	7,251.91	15,241.08	7,181.69	134.34	134.52	79.53	552.80	-7,502.24	386.45	119.24	267.21	1.446 Level 3		
15,400.00	7,251.96	15,341.08	7,181.87	135.99	136.18	79.55	552.98	-7,602.24	386.46	115.96	270.50	1.429 Level 3		
15,468.95	7,252.00	15,410.03	7,182.00	137.14	137.32	79.56	553.11	-7,671.19	386.46	113.69	272.77	1.417 Level 3, SF		

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Anticollision Report

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

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Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.68	-100.18	0.56	100.18					
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-100.18	0.56	100.18	92.65	7.53	13.306		
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-100.18	0.56	100.18	92.60	7.57	13.227	CC, ES	
300.00	299.98	297.80	297.78	3.35	3.35	100.48	-101.23	1.85	101.58	93.92	7.66	13.268		
400.00	399.84	395.48	395.32	3.42	3.40	101.03	-104.40	5.72	105.79	98.01	7.78	13.605		
500.00	499.45	492.91	492.40	3.51	3.49	101.84	-109.65	12.13	112.81	104.87	7.94	14.202		
600.00	598.73	589.99	588.79	3.62	3.60	102.78	-116.96	21.07	122.60	114.44	8.17	15.015		
700.00	697.94	687.38	685.05	3.77	3.74	102.84	-126.30	32.48	134.51	126.07	8.44	15.937		
800.00	797.14	786.60	782.98	3.94	3.92	102.61	-136.39	44.80	146.97	138.20	8.77	16.753		
900.00	896.34	885.82	880.91	4.13	4.13	102.41	-146.48	57.13	159.43	150.28	9.15	17.428		
1,000.00	995.55	985.04	978.85	4.33	4.36	102.24	-156.57	69.46	171.90	162.34	9.56	17.979		
1,100.00	1,094.75	1,084.26	1,076.78	4.55	4.61	102.09	-166.67	81.79	184.36	174.36	10.01	18.424		
1,200.00	1,193.95	1,183.47	1,174.71	4.79	4.88	101.96	-176.76	94.12	196.83	186.35	10.48	18.783		
1,300.00	1,293.15	1,282.69	1,272.64	5.04	5.16	101.85	-186.85	106.45	209.30	198.32	10.98	19.069		
1,400.00	1,392.36	1,381.91	1,370.57	5.29	5.45	101.75	-196.94	118.78	221.77	210.27	11.49	19.296		
1,500.00	1,491.56	1,481.13	1,468.50	5.56	5.76	101.66	-207.03	131.10	234.24	222.21	12.03	19.476		
1,600.00	1,590.76	1,580.35	1,566.43	5.83	6.07	101.58	-217.12	143.43	246.70	234.13	12.58	19.617		
1,700.00	1,689.96	1,679.57	1,664.37	6.11	6.38	101.50	-227.21	155.76	259.17	246.04	13.14	19.726		
1,800.00	1,789.17	1,778.79	1,762.30	6.39	6.71	101.44	-237.30	168.09	271.65	257.93	13.71	19.810		
1,900.00	1,888.37	1,878.01	1,860.23	6.54	6.92	101.38	-247.39	180.42	284.12	270.44	13.67	20.782		
2,000.00	1,987.57	1,977.23	1,958.16	6.57	6.99	101.32	-257.48	192.75	296.59	282.83	13.76	21.559		
2,100.00	2,086.77	2,076.44	2,056.09	6.61	7.03	101.27	-267.57	205.08	309.06	295.22	13.84	22.330		
2,200.00	2,185.98	2,175.66	2,154.02	6.67	7.10	101.22	-277.66	217.40	321.53	307.58	13.95	23.044		
2,300.00	2,285.18	2,274.88	2,251.95	6.74	7.18	101.18	-287.75	229.73	334.00	319.91	14.09	23.698		
2,400.00	2,384.38	2,374.10	2,349.89	6.83	7.28	101.14	-297.85	242.06	346.47	332.21	14.26	24.293		
2,500.00	2,483.59	2,473.32	2,447.82	6.92	7.38	101.10	-307.94	254.39	358.95	344.49	14.46	24.828		
2,600.00	2,582.79	2,572.54	2,545.75	7.03	7.51	101.07	-318.03	266.72	371.42	356.74	14.68	25.305		
2,700.00	2,681.99	2,671.76	2,643.68	7.15	7.64	101.03	-328.12	279.05	383.89	368.97	14.92	25.727		
2,800.00	2,781.19	2,770.98	2,741.61	7.29	7.79	101.00	-338.21	291.38	396.36	381.17	15.19	26.095		
2,900.00	2,880.40	2,870.20	2,839.54	7.43	7.95	100.98	-348.30	303.70	408.83	393.36	15.48	26.413		
3,000.00	2,979.60	2,969.42	2,937.48	7.58	8.12	100.95	-358.39	316.03	421.31	405.52	15.79	26.684		
3,100.00	3,078.80	3,068.63	3,035.41	7.74	8.30	100.92	-368.48	328.36	433.78	417.66	16.12	26.913		
3,200.00	3,178.00	3,167.85	3,133.34	7.91	8.49	100.90	-378.57	340.69	446.25	429.79	16.46	27.103		
3,300.00	3,277.21	3,267.07	3,231.27	8.09	8.69	100.88	-388.66	353.02	458.73	441.90	16.83	27.258		
3,400.00	3,376.41	3,366.29	3,329.20	8.28	8.90	100.85	-398.75	365.35	471.20	453.99	17.21	27.381		
3,500.00	3,475.61	3,465.51	3,427.13	8.48	9.12	100.83	-408.84	377.67	483.67	466.07	17.60	27.476		
3,600.00	3,574.82	3,564.73	3,525.06	8.68	9.34	100.81	-418.94	390.00	496.14	478.13	18.01	27.545		
3,700.00	3,674.02	3,663.95	3,623.00	8.88	9.57	100.80	-429.03	402.33	508.62	490.18	18.43	27.592		
3,800.00	3,773.22	3,763.17	3,720.93	9.10	9.80	100.78	-439.12	414.66	521.09	502.22	18.87	27.620		
3,900.00	3,872.42	3,862.39	3,818.86	9.32	10.05	100.76	-449.21	426.99	533.56	514.25	19.31	27.630		
4,000.00	3,971.63	3,961.60	3,916.79	9.54	10.29	100.75	-459.30	439.32	546.04	526.27	19.77	27.626		
4,100.00	4,070.83	4,060.82	4,014.72	9.77	10.55	100.73	-469.39	451.65	558.51	538.28	20.23	27.608		
4,200.00	4,170.03	4,160.04	4,112.65	10.00	10.80	100.72	-479.48	463.97	570.98	550.28	20.70	27.579		
4,300.00	4,269.23	4,259.26	4,210.58	10.24	11.06	100.70	-489.57	476.30	583.46	562.27	21.18	27.541		
4,400.00	4,368.44	4,358.48	4,308.52	10.48	11.33	100.69	-499.66	488.63	595.93	574.26	21.67	27.495		
4,500.00	4,467.64	4,457.70	4,406.45	10.72	11.60	100.67	-509.75	500.96	608.40	586.23	22.17	27.442		
4,600.00	4,566.84	4,556.92	4,504.38	10.97	11.87	100.66	-519.84	513.29	620.88	598.20	22.67	27.383		
4,700.00	4,666.05	4,656.14	4,602.31	11.22	12.15	100.65	-529.93	525.62	633.35	610.17	23.18	27.319		
4,800.00	4,765.25	4,755.36	4,700.24	11.47	12.42	100.64	-540.02	537.95	645.82	622.12	23.70	27.251		
4,900.00	4,864.45	4,854.57	4,798.17	11.73	12.71	100.63	-550.12	550.27	658.30	634.08	24.22	27.179		
5,000.00	4,963.65	4,953.79	4,896.11	11.99	12.99	100.62	-560.21	562.60	670.77	646.02	24.75	27.105		
5,100.00	5,062.86	5,053.01	4,994.04	12.25	13.28	100.61	-570.30	574.93	683.24	657.97	25.28	27.029		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,152.23	5,091.97	12.51	13.57	100.60	-580.39	587.26	695.72	669.90	25.81	26.952		
5,300.00	5,261.26	5,251.45	5,189.90	12.78	13.86	100.59	-590.48	599.59	708.19	681.84	26.35	26.873		
5,400.00	5,360.46	5,350.67	5,287.83	13.05	14.15	100.58	-600.57	611.92	720.67	693.77	26.90	26.793		
5,500.00	5,459.67	5,449.89	5,385.76	13.32	14.45	100.57	-610.66	624.25	733.14	705.69	27.44	26.713		
5,600.00	5,558.87	5,549.11	5,483.69	13.59	14.74	100.56	-620.75	636.57	745.61	717.62	28.00	26.633		
5,700.00	5,658.07	5,648.33	5,581.63	13.86	15.04	100.55	-630.84	648.90	758.09	729.54	28.55	26.553		
5,800.00	5,757.27	5,747.55	5,679.56	14.13	15.34	100.55	-640.93	661.23	770.56	741.45	29.11	26.473		
5,900.00	5,856.48	5,846.76	5,777.49	14.41	15.65	100.54	-651.02	673.56	783.03	753.37	29.67	26.393		
6,000.00	5,955.68	5,945.98	5,875.42	14.69	15.95	100.53	-661.11	685.89	795.51	765.28	30.23	26.314		
6,100.00	6,054.88	6,045.20	5,973.35	14.97	16.25	100.52	-671.20	698.22	807.98	777.18	30.80	26.235		
6,200.00	6,154.09	6,144.42	6,071.28	15.25	16.56	100.52	-681.30	710.55	820.45	789.09	31.37	26.158		
6,300.00	6,253.29	6,243.64	6,169.21	15.53	16.87	100.51	-691.39	722.87	832.93	800.99	31.94	26.081		
6,400.00	6,352.49	6,342.86	6,267.15	15.81	17.18	100.50	-701.48	735.20	845.40	812.89	32.51	26.005		
6,500.00	6,451.69	6,442.08	6,365.08	16.09	17.49	100.50	-711.57	747.53	857.88	824.79	33.08	25.930		
6,600.00	6,550.93	6,541.21	6,462.93	16.37	17.79	103.80	-721.65	759.81	870.35	836.70	33.65	25.864		
6,700.00	6,650.78	6,639.41	6,560.45	16.54	17.98	-110.00	-731.67	763.35	882.87	848.86	34.01	25.957		
6,800.00	6,749.67	6,737.95	6,657.70	16.66	18.12	-94.31	-741.61	751.72	895.24	860.98	34.26	26.133		
6,900.00	6,845.16	6,836.91	6,752.40	16.73	18.21	-90.87	-751.23	725.01	907.16	872.76	34.40	26.371		
7,000.00	6,934.90	6,936.39	6,842.29	16.77	18.26	-89.03	-760.31	683.64	918.34	883.87	34.47	26.642		
7,100.00	7,016.67	7,036.42	6,925.13	16.79	18.27	-87.75	-768.62	628.37	928.50	893.99	34.51	26.906		
7,200.00	7,088.47	7,137.05	6,998.75	16.84	18.26	-86.81	-775.93	560.31	937.39	902.81	34.58	27.108		
7,300.00	7,148.53	7,238.26	7,061.12	16.95	18.25	-86.11	-782.06	480.98	944.79	910.04	34.75	27.188		
7,400.00	7,195.36	7,340.01	7,110.44	17.14	18.23	-85.61	-786.81	392.23	950.52	915.43	35.09	27.088		
7,500.00	7,227.82	7,442.22	7,145.21	17.43	18.24	-85.31	-790.04	296.28	954.44	918.79	35.64	26.777		
7,600.00	7,245.11	7,544.81	7,164.31	17.83	18.34	-85.19	-791.65	195.62	956.44	920.01	36.43	26.254		
7,700.00	7,248.02	7,646.65	7,168.05	18.33	18.62	-85.20	-791.68	93.91	956.62	919.18	37.43	25.555		
7,800.00	7,248.07	7,746.65	7,168.22	18.96	19.14	-85.21	-791.35	-6.09	956.42	917.75	38.68	24.728		
7,900.00	7,248.13	7,846.65	7,168.39	19.71	19.85	-85.22	-791.02	-106.09	956.23	916.07	40.16	23.810		
8,000.00	7,248.18	7,946.65	7,168.55	20.57	20.69	-85.22	-790.69	-206.09	956.04	914.18	41.86	22.839		
8,100.00	7,248.23	8,046.65	7,168.72	21.52	21.64	-85.23	-790.36	-306.09	955.85	912.10	43.75	21.848		
8,200.00	7,248.28	8,146.65	7,168.89	22.56	22.68	-85.23	-790.03	-406.09	955.65	909.85	45.81	20.862		
8,300.00	7,248.33	8,246.65	7,169.05	23.67	23.79	-85.24	-789.70	-506.09	955.46	907.45	48.01	19.901		
8,400.00	7,248.38	8,346.65	7,169.22	24.84	24.96	-85.25	-789.37	-606.09	955.27	904.93	50.34	18.977		
8,500.00	7,248.43	8,446.65	7,169.39	26.07	26.18	-85.25	-789.03	-706.09	955.08	902.30	52.78	18.096		
8,600.00	7,248.48	8,546.65	7,169.55	27.35	27.45	-85.26	-788.70	-806.09	954.89	899.58	55.31	17.264		
8,700.00	7,248.54	8,646.65	7,169.72	28.66	28.76	-85.26	-788.37	-906.08	954.69	896.77	57.92	16.482		
8,800.00	7,248.59	8,746.65	7,169.89	30.01	30.11	-85.27	-788.04	-1,006.08	954.50	893.89	60.61	15.748		
8,900.00	7,248.64	8,846.65	7,170.05	31.40	31.48	-85.28	-787.71	-1,106.08	954.31	890.95	63.36	15.062		
9,000.00	7,248.69	8,946.65	7,170.22	32.80	32.89	-85.28	-787.38	-1,206.08	954.12	887.96	66.16	14.421		
9,100.00	7,248.74	9,046.65	7,170.39	34.24	34.31	-85.29	-787.05	-1,306.08	953.93	884.91	69.01	13.823		
9,200.00	7,248.79	9,146.65	7,170.55	35.69	35.76	-85.29	-786.72	-1,406.08	953.73	881.83	71.90	13.264		
9,300.00	7,248.84	9,246.65	7,170.72	37.16	37.23	-85.30	-786.39	-1,506.08	953.54	878.71	74.83	12.742		
9,400.00	7,248.89	9,346.65	7,170.89	38.65	38.71	-85.31	-786.06	-1,606.08	953.35	875.55	77.79	12.255		
9,500.00	7,248.94	9,446.65	7,171.05	40.15	40.21	-85.31	-785.73	-1,706.08	953.16	872.37	80.79	11.799		
9,600.00	7,249.00	9,546.65	7,171.22	41.67	41.72	-85.32	-785.40	-1,806.08	952.97	869.16	83.80	11.371		
9,700.00	7,249.05	9,646.65	7,171.39	43.20	43.24	-85.32	-785.07	-1,906.08	952.77	865.93	86.84	10.971		
9,800.00	7,249.10	9,746.65	7,171.56	44.73	44.77	-85.33	-784.73	-2,006.07	952.58	862.67	89.91	10.595		
9,900.00	7,249.15	9,846.65	7,171.72	46.28	46.31	-85.34	-784.40	-2,106.07	952.39	859.40	92.99	10.242		
10,000.00	7,249.20	9,946.65	7,171.89	47.84	47.86	-85.34	-784.07	-2,206.07	952.20	856.11	96.09	9.910		
10,100.00	7,249.25	10,046.65	7,172.06	49.40	49.42	-85.35	-783.74	-2,306.07	952.00	852.81	99.20	9.597		
10,200.00	7,249.30	10,146.65	7,172.22	50.97	50.99	-85.35	-783.41	-2,406.07	951.81	849.49	102.33	9.302		
10,300.00	7,249.35	10,246.65	7,172.39	52.55	52.56	-85.36	-783.08	-2,506.07	951.62	846.15	105.47	9.023		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,249.41	10,346.65	7,172.56	54.13	54.14	-85.37	-782.75	-2,606.07	951.43	842.81	108.62	8.759		
10,500.00	7,249.46	10,446.64	7,172.72	55.71	55.72	-85.37	-782.42	-2,706.07	951.24	839.46	111.78	8.510		
10,600.00	7,249.51	10,546.64	7,172.89	57.31	57.31	-85.38	-782.09	-2,806.07	951.04	836.09	114.95	8.273		
10,700.00	7,249.56	10,646.64	7,173.06	58.90	58.90	-85.39	-781.76	-2,906.07	950.85	832.72	118.13	8.049		
10,800.00	7,249.61	10,746.64	7,173.22	60.50	60.50	-85.39	-781.43	-3,006.07	950.66	829.34	121.32	7.836		
10,900.00	7,249.66	10,846.64	7,173.39	62.11	62.10	-85.40	-781.10	-3,106.06	950.47	825.95	124.52	7.633		
11,000.00	7,249.71	10,946.64	7,173.56	63.72	63.71	-85.40	-780.77	-3,206.06	950.28	822.55	127.73	7.440		
11,100.00	7,249.76	11,046.64	7,173.72	65.33	65.31	-85.41	-780.44	-3,306.06	950.09	819.15	130.94	7.256		
11,200.00	7,249.82	11,146.64	7,173.89	66.94	66.92	-85.42	-780.10	-3,406.06	949.89	815.74	134.15	7.081		
11,300.00	7,249.87	11,246.64	7,174.06	68.56	68.54	-85.42	-779.77	-3,506.06	949.70	812.33	137.38	6.913		
11,400.00	7,249.92	11,346.64	7,174.22	70.18	70.16	-85.43	-779.44	-3,606.06	949.51	808.91	140.60	6.753		
11,500.00	7,249.97	11,446.64	7,174.39	71.80	71.77	-85.43	-779.11	-3,706.06	949.32	805.48	143.84	6.600		
11,600.00	7,250.02	11,546.64	7,174.56	73.42	73.40	-85.44	-778.78	-3,806.06	949.13	802.05	147.08	6.453		
11,700.00	7,250.07	11,646.64	7,174.72	75.05	75.02	-85.45	-778.45	-3,906.06	948.93	798.62	150.32	6.313		
11,800.00	7,250.12	11,746.64	7,174.89	76.68	76.65	-85.45	-778.12	-4,006.06	948.74	795.18	153.56	6.178		
11,900.00	7,250.17	11,846.64	7,175.06	78.31	78.27	-85.46	-777.79	-4,106.06	948.55	791.74	156.81	6.049		
12,000.00	7,250.22	11,946.64	7,175.22	79.94	79.90	-85.46	-777.46	-4,206.05	948.36	788.29	160.07	5.925		
12,100.00	7,250.28	12,046.64	7,175.39	81.57	81.53	-85.47	-777.13	-4,306.05	948.17	784.84	163.32	5.805		
12,200.00	7,250.33	12,146.64	7,175.56	83.21	83.17	-85.48	-776.80	-4,406.05	947.97	781.39	166.58	5.691		
12,300.00	7,250.38	12,246.64	7,175.72	84.84	84.80	-85.48	-776.47	-4,506.05	947.78	777.94	169.85	5.580		
12,400.00	7,250.43	12,346.64	7,175.89	86.48	86.44	-85.49	-776.14	-4,606.05	947.59	774.48	173.11	5.474		
12,500.00	7,250.48	12,446.64	7,176.06	88.12	88.07	-85.49	-775.81	-4,706.05	947.40	771.02	176.38	5.371		
12,600.00	7,250.53	12,546.64	7,176.22	89.76	89.71	-85.50	-775.47	-4,806.05	947.21	767.56	179.65	5.273		
12,700.00	7,250.58	12,646.64	7,176.39	91.40	91.35	-85.51	-775.14	-4,906.05	947.02	764.09	182.92	5.177		
12,800.00	7,250.63	12,746.64	7,176.56	93.04	92.99	-85.51	-774.81	-5,006.05	946.82	760.63	186.20	5.085		
12,900.00	7,250.69	12,846.64	7,176.72	94.68	94.63	-85.52	-774.48	-5,106.05	946.63	757.16	189.48	4.996		
13,000.00	7,250.74	12,946.64	7,176.89	96.33	96.28	-85.52	-774.15	-5,206.05	946.44	753.68	192.76	4.910		
13,100.00	7,250.79	13,046.64	7,177.06	97.97	97.92	-85.53	-773.82	-5,306.04	946.25	750.21	196.04	4.827		
13,200.00	7,250.84	13,146.64	7,177.22	99.62	99.57	-85.54	-773.49	-5,406.04	946.06	746.74	199.32	4.746		
13,300.00	7,250.89	13,246.64	7,177.39	101.27	101.21	-85.54	-773.16	-5,506.04	945.87	743.26	202.61	4.668		
13,400.00	7,250.94	13,346.64	7,177.56	102.92	102.86	-85.55	-772.83	-5,606.04	945.67	739.78	205.89	4.593		
13,500.00	7,250.99	13,446.64	7,177.73	104.56	104.51	-85.56	-772.50	-5,706.04	945.48	736.30	209.18	4.520		
13,600.00	7,251.04	13,546.64	7,177.89	106.21	106.15	-85.56	-772.17	-5,806.04	945.29	732.82	212.47	4.449		
13,700.00	7,251.09	13,646.64	7,178.06	107.86	107.80	-85.57	-771.84	-5,906.04	945.10	729.34	215.76	4.380		
13,800.00	7,251.15	13,746.64	7,178.23	109.51	109.45	-85.57	-771.51	-6,006.04	944.91	725.85	219.06	4.314		
13,900.00	7,251.20	13,846.64	7,178.39	111.16	111.10	-85.58	-771.18	-6,106.04	944.72	722.37	222.35	4.249		
14,000.00	7,251.25	13,946.64	7,178.56	112.82	112.75	-85.59	-770.84	-6,206.04	944.52	718.88	225.65	4.186		
14,100.00	7,251.30	14,046.64	7,178.73	114.47	114.40	-85.59	-770.51	-6,306.04	944.33	715.39	228.94	4.125		
14,200.00	7,251.35	14,146.64	7,178.89	116.12	116.06	-85.60	-770.18	-6,406.03	944.14	711.90	232.24	4.065		
14,300.00	7,251.40	14,246.64	7,179.06	117.78	117.71	-85.60	-769.85	-6,506.03	943.95	708.41	235.54	4.008		
14,400.00	7,251.45	14,346.64	7,179.23	119.43	119.36	-85.61	-769.52	-6,606.03	943.76	704.92	238.84	3.951		
14,500.00	7,251.50	14,446.64	7,179.39	121.08	121.02	-85.62	-769.19	-6,706.03	943.57	701.43	242.14	3.897		
14,600.00	7,251.56	14,546.64	7,179.56	122.74	122.67	-85.62	-768.86	-6,806.03	943.38	697.93	245.44	3.844		
14,700.00	7,251.61	14,646.64	7,179.73	124.40	124.32	-85.63	-768.53	-6,906.03	943.18	694.44	248.74	3.792		
14,800.00	7,251.66	14,746.63	7,179.89	126.05	125.98	-85.64	-768.20	-7,006.03	942.99	690.94	252.05	3.741		
14,900.00	7,251.71	14,846.63	7,180.06	127.71	127.63	-85.64	-767.87	-7,106.03	942.80	687.45	255.35	3.692		
15,000.00	7,251.76	14,946.63	7,180.23	129.36	129.29	-85.65	-767.54	-7,206.03	942.61	683.95	258.66	3.644		
15,100.00	7,251.81	15,046.63	7,180.39	131.02	130.95	-85.65	-767.21	-7,306.03	942.42	680.45	261.97	3.597		
15,200.00	7,251.86	15,146.63	7,180.56	132.68	132.60	-85.66	-766.88	-7,406.03	942.23	676.95	265.27	3.552		
15,300.00	7,251.91	15,246.63	7,180.73	134.34	134.26	-85.67	-766.54	-7,506.02	942.03	673.45	268.58	3.507		
15,400.00	7,251.96	15,346.63	7,180.89	135.99	135.92	-85.67	-766.21	-7,606.02	941.84	669.95	271.89	3.464		
15,462.75	7,252.00	15,409.39	7,181.00	137.04	136.96	-85.68	-766.01	-7,668.78	941.72	667.76	273.97	3.437		

Hewlett-Packard
Anticollision Report

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

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,468.95	7,252.00	15,410.68	7,181.00	137.14	136.98	-85.68	-766.00	-7,670.07	941.72	667.62	274.10	3.436 SF	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-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	0.00	0.00	3.28	3.28	179.60	-80.14	0.56	80.14				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-80.14	0.56	80.14	72.61	7.53	10.645	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-80.14	0.56	80.14	72.57	7.57	10.581	CC, ES
300.00	299.98	298.61	298.59	3.35	3.35	100.34	-80.98	2.03	81.31	73.66	7.66	10.620	
400.00	399.84	397.13	396.98	3.42	3.41	100.72	-83.49	6.45	84.82	77.04	7.78	10.904	
500.00	499.45	495.49	494.97	3.51	3.49	101.28	-87.66	13.80	90.67	82.72	7.95	11.405	
600.00	598.73	593.62	592.38	3.62	3.60	101.87	-93.48	24.03	98.81	90.63	8.18	12.082	
700.00	697.94	707.03	690.73	3.77	3.78	101.79	-100.41	36.24	108.10	99.62	8.49	12.739	
800.00	797.14	807.47	789.29	3.94	3.96	101.71	-107.37	48.49	117.41	108.58	8.82	13.304	
900.00	896.34	907.90	887.86	4.13	4.16	101.65	-114.34	60.75	126.71	117.50	9.20	13.765	
1,000.00	995.55	1,008.34	986.42	4.33	4.38	101.59	-121.30	73.01	136.01	126.39	9.62	14.136	
1,100.00	1,094.75	1,108.77	1,084.98	4.55	4.62	101.54	-128.26	85.27	145.32	135.25	10.07	14.432	
1,200.00	1,193.95	1,190.80	1,183.55	4.79	4.83	101.50	-135.23	97.53	154.62	144.12	10.50	14.728	
1,300.00	1,293.15	1,309.64	1,282.11	5.04	5.15	101.46	-142.19	109.78	163.92	152.88	11.04	14.847	
1,400.00	1,392.36	1,389.93	1,380.67	5.29	5.37	101.43	-149.15	122.04	173.23	161.72	11.51	15.057	
1,500.00	1,491.56	1,489.50	1,479.24	5.56	5.65	101.40	-156.12	134.30	182.53	170.50	12.04	15.166	
1,600.00	1,590.76	1,589.06	1,577.80	5.83	5.94	101.37	-163.08	146.56	191.84	179.26	12.58	15.249	
1,700.00	1,689.96	1,688.63	1,676.36	6.11	6.24	101.34	-170.04	158.82	201.14	188.00	13.14	15.309	
1,800.00	1,789.17	1,788.19	1,774.93	6.39	6.55	101.32	-177.01	171.07	210.45	196.74	13.71	15.353	
1,900.00	1,888.37	1,887.76	1,873.49	6.54	6.73	101.30	-183.97	183.33	219.75	206.10	13.65	16.099	
2,000.00	1,987.57	1,987.33	1,972.05	6.57	6.78	101.28	-190.94	195.59	229.05	215.33	13.72	16.692	
2,100.00	2,086.77	2,086.89	2,070.61	6.61	6.82	101.26	-197.90	207.85	238.36	224.55	13.81	17.265	
2,200.00	2,185.98	2,186.46	2,169.18	6.67	6.88	101.24	-204.86	220.11	247.66	233.74	13.92	17.793	
2,300.00	2,285.18	2,286.02	2,267.74	6.74	6.96	101.23	-211.83	232.36	256.97	242.91	14.06	18.277	
2,400.00	2,384.38	2,385.59	2,366.30	6.83	7.05	101.22	-218.79	244.62	266.27	252.04	14.23	18.715	
2,500.00	2,483.59	2,485.16	2,464.87	6.92	7.15	101.20	-225.75	256.88	275.58	261.15	14.42	19.108	
2,600.00	2,582.79	2,584.72	2,563.43	7.03	7.27	101.19	-232.72	269.14	284.88	270.24	14.64	19.458	
2,700.00	2,681.99	2,684.29	2,661.99	7.15	7.39	101.18	-239.68	281.40	294.19	279.30	14.88	19.766	
2,800.00	2,781.19	2,783.86	2,760.56	7.29	7.54	101.17	-246.64	293.65	303.49	288.34	15.15	20.034	
2,900.00	2,880.40	2,883.42	2,859.12	7.43	7.69	101.16	-253.61	305.91	312.79	297.36	15.44	20.264	
3,000.00	2,979.60	2,982.99	2,957.68	7.58	7.85	101.15	-260.57	318.17	322.10	306.36	15.74	20.460	
3,100.00	3,078.80	3,082.55	3,056.25	7.74	8.02	101.14	-267.53	330.43	331.40	315.33	16.07	20.623	
3,200.00	3,178.00	3,182.12	3,154.81	7.91	8.20	101.13	-274.50	342.69	340.71	324.29	16.41	20.758	
3,300.00	3,277.21	3,281.69	3,253.37	8.09	8.39	101.12	-281.46	354.94	350.01	333.24	16.77	20.866	
3,400.00	3,376.41	3,381.25	3,351.93	8.28	8.59	101.11	-288.42	367.20	359.32	342.17	17.15	20.951	
3,500.00	3,475.61	3,480.82	3,450.50	8.48	8.79	101.11	-295.39	379.46	368.62	351.08	17.54	21.014	
3,600.00	3,574.82	3,580.38	3,549.06	8.68	9.01	101.10	-302.35	391.72	377.93	359.98	17.95	21.059	
3,700.00	3,674.02	3,679.95	3,647.62	8.88	9.23	101.09	-309.31	403.98	387.23	368.87	18.36	21.087	
3,800.00	3,773.22	3,779.52	3,746.19	9.10	9.45	101.09	-316.28	416.23	396.54	377.74	18.79	21.101	
3,900.00	3,872.42	3,879.08	3,844.75	9.32	9.68	101.08	-323.24	428.49	405.84	386.61	19.23	21.102	
4,000.00	3,971.63	3,978.65	3,943.31	9.54	9.92	101.07	-330.21	440.75	415.14	395.46	19.68	21.092	
4,100.00	4,070.83	4,078.22	4,041.88	9.77	10.16	101.07	-337.17	453.01	424.45	404.31	20.14	21.072	
4,200.00	4,170.03	4,177.78	4,140.44	10.00	10.40	101.06	-344.13	465.27	433.75	413.14	20.61	21.045	
4,300.00	4,269.23	4,277.35	4,239.00	10.24	10.65	101.06	-351.10	477.52	443.06	421.97	21.09	21.010	
4,400.00	4,368.44	4,376.91	4,337.56	10.48	10.91	101.05	-358.06	489.78	452.36	430.79	21.57	20.969	
4,500.00	4,467.64	4,476.48	4,436.13	10.72	11.16	101.05	-365.02	502.04	461.67	439.60	22.06	20.924	
4,600.00	4,566.84	4,576.05	4,534.69	10.97	11.43	101.04	-371.99	514.30	470.97	448.41	22.56	20.874	
4,700.00	4,666.05	4,675.61	4,633.25	11.22	11.69	101.04	-378.95	526.56	480.28	457.21	23.07	20.820	
4,800.00	4,765.25	4,775.18	4,731.82	11.47	11.96	101.04	-385.91	538.81	489.58	466.00	23.58	20.764	
4,900.00	4,864.45	4,874.75	4,830.38	11.73	12.23	101.03	-392.88	551.07	498.89	474.79	24.09	20.706	
5,000.00	4,963.65	4,974.31	4,928.94	11.99	12.50	101.03	-399.84	563.33	508.19	483.58	24.62	20.645	
5,100.00	5,062.86	5,073.88	5,027.51	12.25	12.77	101.02	-406.80	575.59	517.50	492.35	25.14	20.583	

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Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-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	5,162.06	5,173.44	5,126.07	12.51	13.05	101.02	-413.77	587.85	526.80	501.13	25.67	20.520		
5,300.00	5,261.26	5,273.01	5,224.63	12.78	13.33	101.02	-420.73	600.10	536.10	509.90	26.21	20.457		
5,400.00	5,360.46	5,372.58	5,323.20	13.05	13.61	101.01	-427.69	612.36	545.41	518.66	26.75	20.393		
5,500.00	5,459.67	5,472.14	5,421.76	13.32	13.89	101.01	-434.66	624.62	554.71	527.43	27.29	20.328		
5,600.00	5,558.87	5,571.71	5,520.32	13.59	14.18	101.01	-441.62	636.88	564.02	536.18	27.83	20.264		
5,700.00	5,658.07	5,671.27	5,618.88	13.86	14.47	101.00	-448.58	649.14	573.32	544.94	28.38	20.200		
5,800.00	5,757.27	5,770.84	5,717.45	14.13	14.75	101.00	-455.55	661.39	582.63	553.69	28.93	20.136		
5,900.00	5,856.48	5,870.41	5,816.01	14.41	15.04	101.00	-462.51	673.65	591.93	562.44	29.49	20.072		
6,000.00	5,955.68	5,969.97	5,914.57	14.69	15.33	101.00	-469.47	685.91	601.24	571.19	30.05	20.009		
6,100.00	6,054.88	6,069.54	6,013.14	14.97	15.63	100.99	-476.44	698.17	610.54	579.93	30.61	19.947		
6,200.00	6,154.09	6,169.11	6,111.70	15.25	15.92	100.99	-483.40	710.43	619.85	588.67	31.17	19.885		
6,300.00	6,253.29	6,268.67	6,210.26	15.53	16.22	100.99	-490.37	722.68	629.15	597.41	31.74	19.824		
6,400.00	6,352.49	6,368.24	6,308.83	15.81	16.51	100.99	-497.33	734.94	638.46	606.15	32.30	19.764		
6,500.00	6,451.69	6,467.80	6,407.39	16.09	16.81	100.98	-504.29	747.20	647.76	614.89	32.87	19.704		
6,600.00	6,550.93	6,567.37	6,505.95	16.37	17.11	104.23	-511.26	759.46	657.06	623.63	33.44	19.650		
6,700.00	6,650.78	6,666.04	6,604.00	16.54	17.32	-110.27	-518.17	767.24	666.36	632.55	33.81	19.707		
6,800.00	6,749.67	6,765.39	6,702.74	16.66	17.46	-95.30	-525.11	760.11	675.63	641.57	34.06	19.837		
6,900.00	6,845.16	6,865.85	6,800.25	16.73	17.56	-92.55	-531.94	737.34	684.64	650.43	34.20	20.017		
7,000.00	6,934.90	6,967.49	6,894.02	16.77	17.61	-91.33	-538.47	698.97	693.17	658.90	34.27	20.226		
7,100.00	7,016.67	7,070.32	6,981.48	16.79	17.63	-90.63	-544.52	645.44	701.00	666.69	34.31	20.434		
7,200.00	7,088.47	7,174.32	7,060.03	16.84	17.64	-90.17	-549.93	577.67	707.92	673.56	34.37	20.599		
7,300.00	7,148.53	7,279.41	7,127.18	16.95	17.64	-89.87	-554.50	497.12	713.75	679.22	34.53	20.671		
7,400.00	7,195.36	7,385.46	7,180.62	17.14	17.68	-89.69	-558.09	405.72	718.33	683.47	34.87	20.603		
7,500.00	7,227.82	7,492.31	7,218.42	17.43	17.79	-89.59	-560.57	305.96	721.52	686.09	35.43	20.366		
7,600.00	7,245.11	7,599.72	7,239.14	17.83	18.02	-89.58	-561.83	200.70	723.23	686.99	36.23	19.961		
7,700.00	7,248.02	7,704.75	7,243.00	18.33	18.43	-89.60	-561.90	95.81	723.50	686.25	37.24	19.425		
7,800.00	7,248.07	7,804.75	7,242.97	18.96	18.99	-89.60	-561.71	-4.19	723.46	684.97	38.49	18.797		
7,900.00	7,248.13	7,904.75	7,242.94	19.71	19.71	-89.59	-561.52	-104.19	723.41	683.44	39.97	18.097		
8,000.00	7,248.18	8,004.75	7,242.92	20.57	20.56	-89.58	-561.33	-204.19	723.37	681.69	41.68	17.355		
8,100.00	7,248.23	8,104.75	7,242.89	21.52	21.50	-89.58	-561.13	-304.19	723.33	679.75	43.58	16.598		
8,200.00	7,248.28	8,204.75	7,242.87	22.56	22.54	-89.57	-560.94	-404.19	723.28	677.64	45.65	15.845		
8,300.00	7,248.33	8,304.75	7,242.84	23.67	23.64	-89.57	-560.75	-504.19	723.24	675.38	47.86	15.111		
8,400.00	7,248.38	8,404.75	7,242.82	24.84	24.82	-89.56	-560.56	-604.19	723.20	673.00	50.20	14.406		
8,500.00	7,248.43	8,504.75	7,242.79	26.07	26.04	-89.55	-560.37	-704.19	723.16	670.50	52.65	13.735		
8,600.00	7,248.48	8,604.75	7,242.76	27.35	27.31	-89.55	-560.18	-804.19	723.11	667.92	55.20	13.101		
8,700.00	7,248.54	8,704.75	7,242.74	28.66	28.63	-89.54	-559.99	-904.19	723.07	665.25	57.82	12.505		
8,800.00	7,248.59	8,804.75	7,242.71	30.01	29.98	-89.53	-559.80	-1,004.19	723.03	662.50	60.52	11.946		
8,900.00	7,248.64	8,904.75	7,242.69	31.40	31.36	-89.53	-559.61	-1,104.19	722.98	659.70	63.28	11.424		
9,000.00	7,248.69	9,004.75	7,242.66	32.80	32.76	-89.52	-559.42	-1,204.19	722.94	656.84	66.10	10.937		
9,100.00	7,248.74	9,104.75	7,242.64	34.24	34.19	-89.52	-559.22	-1,304.19	722.90	653.94	68.96	10.483		
9,200.00	7,248.79	9,204.75	7,242.61	35.69	35.64	-89.51	-559.03	-1,404.19	722.85	650.99	71.87	10.058		
9,300.00	7,248.84	9,304.75	7,242.58	37.16	37.11	-89.50	-558.84	-1,504.19	722.81	648.00	74.81	9.662		
9,400.00	7,248.89	9,404.75	7,242.56	38.65	38.60	-89.50	-558.65	-1,604.19	722.77	644.99	77.78	9.292		
9,500.00	7,248.94	9,504.75	7,242.53	40.15	40.10	-89.49	-558.46	-1,704.18	722.73	641.94	80.78	8.946		
9,600.00	7,249.00	9,604.75	7,242.51	41.67	41.61	-89.49	-558.27	-1,804.18	722.68	638.87	83.81	8.622		
9,700.00	7,249.05	9,704.75	7,242.48	43.20	43.14	-89.48	-558.08	-1,904.18	722.64	635.77	86.87	8.319		
9,800.00	7,249.10	9,804.75	7,242.46	44.73	44.67	-89.47	-557.89	-2,004.18	722.60	632.66	89.94	8.034		
9,900.00	7,249.15	9,904.75	7,242.43	46.28	46.22	-89.47	-557.70	-2,104.18	722.55	629.52	93.03	7.767		
10,000.00	7,249.20	10,004.75	7,242.40	47.84	47.77	-89.46	-557.50	-2,204.18	722.51	626.37	96.14	7.515		
10,100.00	7,249.25	10,104.75	7,242.38	49.40	49.33	-89.45	-557.31	-2,304.18	722.47	623.20	99.26	7.278		
10,200.00	7,249.30	10,204.75	7,242.35	50.97	50.90	-89.45	-557.12	-2,404.18	722.43	620.02	102.40	7.055		
10,300.00	7,249.35	10,304.75	7,242.33	52.55	52.48	-89.44	-556.93	-2,504.18	722.38	616.83	105.55	6.844		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,249.41	10,404.75	7,242.30	54.13	54.06	-89.44	-556.74	-2,604.18	722.34	613.62	108.72	6.644	
10,500.00	7,249.46	10,504.75	7,242.28	55.71	55.64	-89.43	-556.55	-2,704.18	722.30	610.41	111.89	6.455	
10,600.00	7,249.51	10,604.75	7,242.25	57.31	57.23	-89.42	-556.36	-2,804.18	722.25	607.18	115.07	6.277	
10,700.00	7,249.56	10,704.75	7,242.22	58.90	58.83	-89.42	-556.17	-2,904.18	722.21	603.95	118.26	6.107	
10,800.00	7,249.61	10,804.75	7,242.20	60.50	60.43	-89.41	-555.98	-3,004.18	722.17	600.71	121.46	5.946	
10,900.00	7,249.66	10,904.75	7,242.17	62.11	62.03	-89.41	-555.79	-3,104.18	722.13	597.46	124.67	5.792	
11,000.00	7,249.71	11,004.75	7,242.15	63.72	63.63	-89.40	-555.59	-3,204.18	722.08	594.20	127.88	5.646	
11,100.00	7,249.76	11,104.75	7,242.12	65.33	65.24	-89.39	-555.40	-3,304.18	722.04	590.94	131.11	5.507	
11,200.00	7,249.82	11,204.75	7,242.10	66.94	66.86	-89.39	-555.21	-3,404.18	722.00	587.67	134.33	5.375	
11,300.00	7,249.87	11,304.75	7,242.07	68.56	68.47	-89.38	-555.02	-3,504.18	721.96	584.39	137.56	5.248	
11,400.00	7,249.92	11,404.75	7,242.05	70.18	70.09	-89.38	-554.83	-3,604.18	721.91	581.11	140.80	5.127	
11,500.00	7,249.97	11,504.75	7,242.02	71.80	71.71	-89.37	-554.64	-3,704.18	721.87	577.83	144.04	5.011	
11,600.00	7,250.02	11,604.75	7,241.99	73.42	73.33	-89.36	-554.45	-3,804.18	721.83	574.54	147.29	4.901	
11,700.00	7,250.07	11,704.75	7,241.97	75.05	74.96	-89.36	-554.26	-3,904.18	721.78	571.24	150.54	4.795	
11,800.00	7,250.12	11,804.75	7,241.94	76.68	76.59	-89.35	-554.07	-4,004.18	721.74	567.94	153.80	4.693	
11,900.00	7,250.17	11,904.75	7,241.92	78.31	78.21	-89.34	-553.87	-4,104.18	721.70	564.64	157.06	4.595	
12,000.00	7,250.22	12,004.75	7,241.89	79.94	79.85	-89.34	-553.68	-4,204.18	721.66	561.34	160.32	4.501	
12,100.00	7,250.28	12,104.75	7,241.87	81.57	81.48	-89.33	-553.49	-4,304.18	721.61	558.03	163.58	4.411	
12,200.00	7,250.33	12,204.75	7,241.84	83.21	83.11	-89.33	-553.30	-4,404.18	721.57	554.72	166.85	4.325	
12,300.00	7,250.38	12,304.75	7,241.81	84.84	84.75	-89.32	-553.11	-4,504.18	721.53	551.40	170.12	4.241	
12,400.00	7,250.43	12,404.75	7,241.79	86.48	86.38	-89.31	-552.92	-4,604.18	721.49	548.09	173.40	4.161	
12,500.00	7,250.48	12,504.75	7,241.76	88.12	88.02	-89.31	-552.73	-4,704.18	721.44	544.77	176.67	4.083	
12,600.00	7,250.53	12,604.75	7,241.74	89.76	89.66	-89.30	-552.54	-4,804.18	721.40	541.45	179.95	4.009	
12,700.00	7,250.58	12,704.75	7,241.71	91.40	91.30	-89.30	-552.35	-4,904.18	721.36	538.12	183.24	3.937	
12,800.00	7,250.63	12,804.75	7,241.69	93.04	92.94	-89.29	-552.16	-5,004.18	721.32	534.80	186.52	3.867	
12,900.00	7,250.69	12,904.75	7,241.66	94.68	94.59	-89.28	-551.96	-5,104.18	721.27	531.47	189.80	3.800	
13,000.00	7,250.74	13,004.75	7,241.63	96.33	96.23	-89.28	-551.77	-5,204.18	721.23	528.14	193.09	3.735	
13,100.00	7,250.79	13,104.75	7,241.61	97.97	97.87	-89.27	-551.58	-5,304.18	721.19	524.81	196.38	3.672	
13,200.00	7,250.84	13,204.75	7,241.58	99.62	99.52	-89.26	-551.39	-5,404.18	721.15	521.47	199.67	3.612	
13,300.00	7,250.89	13,304.75	7,241.56	101.27	101.17	-89.26	-551.20	-5,504.18	721.10	518.14	202.97	3.553	
13,400.00	7,250.94	13,404.75	7,241.53	102.92	102.81	-89.25	-551.01	-5,604.18	721.06	514.80	206.26	3.496	
13,500.00	7,250.99	13,504.75	7,241.51	104.56	104.46	-89.25	-550.82	-5,704.18	721.02	511.46	209.56	3.441	
13,600.00	7,251.04	13,604.75	7,241.48	106.21	106.11	-89.24	-550.63	-5,804.18	720.97	508.12	212.85	3.387	
13,700.00	7,251.09	13,704.75	7,241.45	107.86	107.76	-89.23	-550.44	-5,904.18	720.93	504.78	216.15	3.335	
13,800.00	7,251.15	13,804.75	7,241.43	109.51	109.41	-89.23	-550.24	-6,004.18	720.89	501.44	219.45	3.285	
13,900.00	7,251.20	13,904.75	7,241.40	111.16	111.06	-89.22	-550.05	-6,104.18	720.85	498.09	222.76	3.236	
14,000.00	7,251.25	14,004.75	7,241.38	112.82	112.71	-89.22	-549.86	-6,204.17	720.80	494.75	226.06	3.189	
14,100.00	7,251.30	14,104.75	7,241.35	114.47	114.36	-89.21	-549.67	-6,304.17	720.76	491.40	229.36	3.142	
14,200.00	7,251.35	14,204.75	7,241.33	116.12	116.02	-89.20	-549.48	-6,404.17	720.72	488.05	232.67	3.098	
14,300.00	7,251.40	14,304.75	7,241.30	117.78	117.67	-89.20	-549.29	-6,504.17	720.68	484.70	235.97	3.054	
14,400.00	7,251.45	14,404.75	7,241.27	119.43	119.32	-89.19	-549.10	-6,604.17	720.63	481.35	239.28	3.012	
14,500.00	7,251.50	14,504.75	7,241.25	121.08	120.98	-89.18	-548.91	-6,704.17	720.59	478.00	242.59	2.970	
14,600.00	7,251.56	14,604.75	7,241.22	122.74	122.63	-89.18	-548.72	-6,804.17	720.55	474.65	245.90	2.930	
14,700.00	7,251.61	14,704.75	7,241.20	124.40	124.29	-89.17	-548.53	-6,904.17	720.51	471.30	249.21	2.891	
14,800.00	7,251.66	14,804.75	7,241.17	126.05	125.94	-89.17	-548.33	-7,004.17	720.47	467.95	252.52	2.853	
14,900.00	7,251.71	14,904.75	7,241.15	127.71	127.60	-89.16	-548.14	-7,104.17	720.42	464.59	255.83	2.816	
15,000.00	7,251.76	15,004.75	7,241.12	129.36	129.25	-89.15	-547.95	-7,204.17	720.38	461.24	259.14	2.780	
15,100.00	7,251.81	15,104.75	7,241.09	131.02	130.91	-89.15	-547.76	-7,304.17	720.34	457.88	262.45	2.745	
15,200.00	7,251.86	15,204.75	7,241.07	132.68	132.57	-89.14	-547.57	-7,404.17	720.30	454.53	265.77	2.710	
15,300.00	7,251.91	15,304.75	7,241.04	134.34	134.23	-89.14	-547.38	-7,504.17	720.25	451.17	269.08	2.677	
15,400.00	7,251.96	15,404.75	7,241.02	135.99	135.88	-89.13	-547.19	-7,604.17	720.21	447.81	272.40	2.644	
15,468.95	7,252.00	15,473.70	7,241.00	137.14	137.03	-89.12	-547.06	-7,673.12	720.18	445.50	274.68	2.622 SF	

Hewlett-Packard

Anticollision Report

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

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	179.68	-199.99	1.11	199.99				
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-199.99	1.11	199.99	192.46	7.53	26.564	
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-199.99	1.11	199.99	192.42	7.57	26.406	
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-199.99	1.11	199.99	192.42	7.57	26.406 CC, ES	
300.00	299.98	297.04	297.03	3.35	3.35	100.69	-200.34	1.29	200.68	193.02	7.66	26.208 SF	
400.00	399.84	390.98	390.92	3.42	3.40	101.58	-203.09	2.66	204.61	196.84	7.77	26.333	
500.00	499.45	484.55	484.29	3.51	3.47	102.83	-208.58	5.40	212.24	204.32	7.93	26.778	
600.00	598.73	577.56	576.84	3.62	3.57	104.36	-216.73	9.46	223.59	215.46	8.13	27.507	
700.00	697.94	670.02	668.52	3.77	3.69	105.62	-227.50	14.83	238.02	229.65	8.37	28.428	
800.00	797.14	761.83	759.11	3.94	3.84	106.36	-240.80	21.46	255.21	246.56	8.66	29.480	
900.00	896.34	852.78	848.35	4.13	4.03	106.67	-256.53	29.31	275.06	266.09	8.98	30.635	
1,000.00	995.55	942.73	936.00	4.33	4.25	106.62	-274.58	38.30	297.50	288.16	9.33	31.869	
1,100.00	1,094.75	1,031.50	1,021.85	4.55	4.52	106.30	-294.80	48.38	322.47	312.75	9.72	33.173	
1,200.00	1,193.95	1,125.66	1,112.34	4.79	4.84	105.82	-318.06	59.98	349.26	339.09	10.18	34.318	
1,300.00	1,293.15	1,221.93	1,204.85	5.04	5.20	105.38	-341.92	71.88	376.16	365.49	10.68	35.228	
1,400.00	1,392.36	1,318.21	1,297.36	5.29	5.59	105.01	-365.79	83.78	403.08	391.87	11.21	35.967	
1,500.00	1,491.56	1,414.49	1,389.87	5.56	5.99	104.68	-389.65	95.68	430.01	418.26	11.75	36.596	
1,600.00	1,590.76	1,510.77	1,482.38	5.83	6.41	104.39	-413.52	107.58	456.95	444.64	12.32	37.093	
1,700.00	1,689.96	1,607.04	1,574.89	6.11	6.85	104.13	-437.38	119.47	483.91	471.00	12.90	37.506	
1,800.00	1,789.17	1,703.32	1,667.41	6.39	7.29	103.90	-461.25	131.37	510.87	497.37	13.50	37.846	
1,900.00	1,888.37	1,800.40	1,759.92	6.54	7.74	103.69	-485.11	143.27	537.83	524.06	13.77	39.050	
2,000.00	1,987.57	1,904.12	1,852.43	6.57	8.01	103.50	-508.98	155.17	564.81	550.99	13.81	40.885	
2,100.00	2,086.77	2,007.84	1,944.94	6.61	8.08	103.33	-532.84	167.07	591.79	577.89	13.89	42.594	
2,200.00	2,185.98	2,088.43	2,037.45	6.67	8.16	103.18	-556.71	178.97	618.77	604.78	13.99	44.219	
2,300.00	2,285.18	2,184.71	2,129.96	6.74	8.27	103.03	-580.57	190.87	645.76	631.62	14.13	45.692	
2,400.00	2,384.38	2,280.99	2,222.47	6.83	8.39	102.90	-604.44	202.77	672.75	658.44	14.30	47.034	
2,500.00	2,483.59	2,377.27	2,314.98	6.92	8.54	102.78	-628.31	214.66	699.74	685.23	14.50	48.243	
2,600.00	2,582.79	2,473.54	2,407.49	7.03	8.71	102.67	-652.17	226.56	726.74	712.00	14.73	49.323	
2,700.00	2,681.99	2,569.82	2,500.00	7.15	8.89	102.56	-676.04	238.46	753.73	738.74	14.99	50.278	
2,800.00	2,781.19	2,666.10	2,592.52	7.29	9.09	102.47	-699.90	250.36	780.73	765.46	15.27	51.114	
2,900.00	2,880.40	2,762.38	2,685.03	7.43	9.30	102.38	-723.77	262.26	807.74	792.15	15.58	51.837	
3,000.00	2,979.60	2,858.66	2,777.54	7.58	9.53	102.29	-747.63	274.16	834.74	818.83	15.91	52.457	
3,100.00	3,078.80	2,954.93	2,870.05	7.74	9.77	102.21	-771.50	286.06	861.75	845.48	16.27	52.981	
3,200.00	3,178.00	3,051.21	2,962.56	7.91	10.02	102.14	-795.36	297.96	888.75	872.12	16.64	53.419	
3,300.00	3,277.21	3,147.49	3,055.07	8.09	10.29	102.07	-819.23	309.85	915.76	898.73	17.03	53.778	
3,400.00	3,376.41	3,243.77	3,147.58	8.28	10.56	102.00	-843.09	321.75	942.77	925.33	17.44	54.067	
3,500.00	3,475.61	3,340.04	3,240.09	8.48	10.85	101.94	-866.96	333.65	969.78	951.92	17.86	54.293	
3,600.00	3,574.82	3,436.32	3,332.60	8.68	11.14	101.88	-890.82	345.55	996.79	978.49	18.30	54.464	
3,700.00	3,674.02	3,532.60	3,425.11	8.88	11.44	101.82	-914.69	357.45	1,023.81	1,005.05	18.76	54.586	
3,800.00	3,773.22	3,628.88	3,517.63	9.10	11.75	101.77	-938.55	369.35	1,050.82	1,031.60	19.22	54.666	
3,900.00	3,872.42	3,725.16	3,610.14	9.32	12.07	101.72	-962.42	381.25	1,077.84	1,058.13	19.70	54.709	
4,000.00	3,971.63	3,821.43	3,702.65	9.54	12.39	101.67	-986.28	393.15	1,104.85	1,084.66	20.19	54.720	
4,100.00	4,070.83	3,917.71	3,795.16	9.77	12.72	101.63	-1,010.15	405.04	1,131.87	1,111.17	20.69	54.703	
4,200.00	4,170.03	4,013.99	3,887.67	10.00	13.05	101.58	-1,034.01	416.94	1,158.88	1,137.68	21.20	54.662	
4,300.00	4,269.23	4,110.27	3,980.18	10.24	13.39	101.54	-1,057.88	428.84	1,185.90	1,164.18	21.72	54.601	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.65	-179.96	1.11	179.96					
100.00	100.00	100.00	100.00	3.28	3.28	179.65	-179.96	1.11	179.96	172.43	7.53	23.903		
200.00	200.00	200.00	200.00	3.31	3.31	179.65	-179.96	1.11	179.96	172.39	7.57	23.761	CC, ES	
300.00	299.98	294.77	294.75	3.35	3.34	100.48	-181.32	1.89	181.72	174.06	7.65	23.744	SF	
400.00	399.84	389.33	389.19	3.42	3.40	101.16	-185.39	4.21	187.00	179.23	7.77	24.077		
500.00	499.45	483.45	482.99	3.51	3.48	102.21	-192.13	8.05	195.85	187.93	7.92	24.716		
600.00	598.73	576.97	575.88	3.62	3.58	103.53	-201.48	13.37	208.28	200.15	8.13	25.618		
700.00	697.94	669.88	667.77	3.77	3.71	104.55	-213.37	20.13	223.67	215.29	8.38	26.690		
800.00	797.14	762.05	758.45	3.94	3.88	105.03	-227.72	28.30	241.73	233.06	8.67	27.874		
900.00	896.34	853.31	847.66	4.13	4.09	105.06	-244.42	37.81	262.38	253.37	9.00	29.141		
1,000.00	995.55	945.74	937.38	4.33	4.34	104.76	-263.71	48.79	285.45	276.07	9.38	30.424		
1,100.00	1,094.75	1,042.88	1,031.50	4.55	4.64	104.41	-284.59	60.67	309.14	299.31	9.83	31.457		
1,200.00	1,193.95	1,140.02	1,125.62	4.79	4.97	104.11	-305.47	72.56	332.83	322.53	10.30	32.300		
1,300.00	1,293.15	1,237.15	1,219.74	5.04	5.32	103.84	-326.35	84.44	356.54	345.73	10.81	32.983		
1,400.00	1,392.36	1,334.29	1,313.86	5.29	5.69	103.62	-347.23	96.33	380.25	368.91	11.34	33.534		
1,500.00	1,491.56	1,431.43	1,407.98	5.56	6.08	103.42	-368.11	108.21	403.97	392.08	11.88	33.992		
1,600.00	1,590.76	1,528.57	1,502.10	5.83	6.48	103.24	-388.99	120.10	427.69	415.24	12.45	34.353		
1,700.00	1,689.96	1,625.70	1,596.22	6.11	6.89	103.08	-409.87	131.99	451.41	438.38	13.03	34.645		
1,800.00	1,789.17	1,722.84	1,690.34	6.39	7.30	102.93	-430.75	143.87	475.14	461.52	13.62	34.881		
1,900.00	1,888.37	1,819.98	1,784.46	6.54	7.69	102.80	-451.63	155.76	498.87	485.01	13.86	36.006		
2,000.00	1,987.57	1,917.12	1,878.58	6.57	7.89	102.68	-472.51	167.64	522.60	508.74	13.86	37.707		
2,100.00	2,086.77	2,014.26	1,972.70	6.61	7.95	102.57	-493.39	179.53	546.33	532.40	13.94	39.202		
2,200.00	2,185.98	2,111.39	2,066.82	6.67	8.04	102.48	-514.27	191.41	570.07	556.02	14.04	40.590		
2,300.00	2,285.18	2,208.53	2,160.94	6.74	8.14	102.38	-535.15	203.30	593.80	579.62	14.18	41.865		
2,400.00	2,384.38	2,305.67	2,255.06	6.83	8.26	102.30	-556.03	215.18	617.54	603.19	14.35	43.024		
2,500.00	2,483.59	2,402.81	2,349.18	6.92	8.39	102.22	-576.91	227.07	641.28	626.73	14.55	44.069		
2,600.00	2,582.79	2,500.06	2,443.30	7.03	8.55	102.15	-597.79	238.96	665.02	650.24	14.78	45.001		
2,700.00	2,681.99	2,602.92	2,537.42	7.15	8.73	102.08	-618.67	250.84	688.76	673.72	15.04	45.797		
2,800.00	2,781.19	2,694.22	2,631.54	7.29	8.90	102.02	-639.55	262.73	712.50	697.20	15.31	46.542		
2,900.00	2,880.40	2,808.64	2,725.66	7.43	9.14	101.96	-660.43	274.61	736.25	720.61	15.64	47.073		
3,000.00	2,979.60	2,888.50	2,819.78	7.58	9.31	101.90	-681.30	286.50	759.99	744.06	15.93	47.695		
3,100.00	3,078.80	2,985.63	2,913.90	7.74	9.53	101.85	-702.18	298.38	783.73	767.46	16.28	48.143		
3,200.00	3,178.00	3,082.77	3,008.02	7.91	9.77	101.80	-723.06	310.27	807.48	790.84	16.64	48.516		
3,300.00	3,277.21	3,179.91	3,102.14	8.09	10.01	101.76	-743.94	322.16	831.22	814.20	17.03	48.821		
3,400.00	3,376.41	3,277.05	3,196.26	8.28	10.27	101.71	-764.82	334.04	854.97	837.55	17.43	49.065		
3,500.00	3,475.61	3,374.19	3,290.38	8.48	10.53	101.67	-785.70	345.93	878.72	860.88	17.84	49.254		
3,600.00	3,574.82	3,471.32	3,384.50	8.68	10.81	101.63	-806.58	357.81	902.46	884.19	18.27	49.395		
3,700.00	3,674.02	3,568.46	3,478.62	8.88	11.09	101.60	-827.46	369.70	926.21	907.50	18.71	49.493		
3,800.00	3,773.22	3,665.60	3,572.74	9.10	11.38	101.56	-848.34	381.58	949.96	930.79	19.17	49.554		
3,900.00	3,872.42	3,762.74	3,666.86	9.32	11.67	101.53	-869.22	393.47	973.71	954.07	19.64	49.583		
4,000.00	3,971.63	3,859.87	3,760.98	9.54	11.97	101.50	-890.10	405.35	997.45	977.34	20.12	49.583		
4,100.00	4,070.83	3,957.01	3,855.10	9.77	12.28	101.47	-910.98	417.24	1,021.20	1,000.60	20.61	49.559		
4,200.00	4,170.03	4,054.15	3,949.21	10.00	12.59	101.44	-931.86	429.13	1,044.95	1,023.85	21.10	49.514		
4,300.00	4,269.23	4,151.29	4,043.33	10.24	12.91	101.41	-952.74	441.01	1,068.70	1,047.09	21.61	49.450		
4,400.00	4,368.44	4,248.43	4,137.45	10.48	13.23	101.38	-973.62	452.90	1,092.45	1,070.32	22.13	49.372		
4,500.00	4,467.64	4,345.56	4,231.57	10.72	13.55	101.36	-994.50	464.78	1,116.20	1,093.55	22.65	49.281		
4,600.00	4,566.84	4,442.70	4,325.69	10.97	13.88	101.33	-1,015.38	476.67	1,139.95	1,116.77	23.18	49.178		
4,700.00	4,666.05	4,539.84	4,419.81	11.22	14.22	101.31	-1,036.26	488.55	1,163.70	1,139.98	23.72	49.067		
4,800.00	4,765.25	4,636.98	4,513.93	11.47	14.55	101.29	-1,057.14	500.44	1,187.44	1,163.19	24.26	48.948		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-140.54	-181.05	-149.06	234.51				
100.00	100.00	101.00	101.00	3.28	3.28	-140.54	-181.05	-149.06	234.51	226.99	7.53	31.148	
200.00	200.00	201.00	201.00	3.31	3.31	-140.54	-181.05	-149.06	234.51	226.94	7.57	30.962	CC, ES, SF
300.00	299.98	294.71	294.69	3.35	3.34	140.06	-182.61	-149.13	237.19	229.54	7.65	30.991	
400.00	399.84	388.08	387.95	3.42	3.40	140.05	-187.21	-149.36	245.16	237.39	7.77	31.548	
500.00	499.45	480.69	480.24	3.51	3.47	140.02	-194.77	-149.74	258.38	250.44	7.93	32.570	
600.00	598.73	572.19	571.15	3.62	3.57	140.05	-205.16	-150.26	276.58	268.44	8.14	33.970	
700.00	697.94	662.68	660.67	3.77	3.69	139.93	-218.29	-150.91	297.78	289.40	8.38	35.535	
800.00	797.14	752.07	748.66	3.94	3.85	139.52	-234.02	-151.69	321.43	312.78	8.66	37.137	
900.00	896.34	842.12	836.77	4.13	4.04	138.88	-252.55	-152.62	347.47	338.50	8.97	38.731	
1,000.00	995.55	938.37	930.77	4.33	4.28	138.21	-273.22	-153.65	374.29	364.94	9.35	40.025	
1,100.00	1,094.75	1,034.62	1,024.77	4.55	4.55	137.62	-293.90	-154.68	401.15	391.38	9.76	41.082	
1,200.00	1,193.95	1,130.87	1,118.76	4.79	4.83	137.11	-314.57	-155.71	428.04	417.83	10.21	41.936	
1,300.00	1,293.15	1,227.12	1,212.76	5.04	5.14	136.66	-335.25	-156.73	454.96	444.28	10.67	42.622	
1,400.00	1,392.36	1,323.37	1,306.76	5.29	5.46	136.26	-355.92	-157.76	481.90	470.74	11.16	43.169	
1,500.00	1,491.56	1,419.62	1,400.76	5.56	5.80	135.91	-376.60	-158.79	508.86	497.20	11.67	43.611	
1,600.00	1,590.76	1,515.87	1,494.76	5.83	6.14	135.58	-397.28	-159.82	535.84	523.65	12.19	43.954	
1,700.00	1,689.96	1,612.12	1,588.75	6.11	6.49	135.29	-417.95	-160.85	562.84	550.11	12.73	44.223	
1,800.00	1,789.17	1,708.37	1,682.75	6.39	6.86	135.03	-438.63	-161.88	589.84	576.57	13.28	44.431	
1,900.00	1,888.37	1,804.62	1,776.75	6.54	7.21	134.79	-459.30	-162.91	616.86	603.36	13.50	45.697	
2,000.00	1,987.57	1,900.87	1,870.75	6.57	7.42	134.57	-479.98	-163.94	643.88	630.38	13.51	47.671	
2,100.00	2,086.77	2,002.88	1,964.75	6.61	7.47	134.37	-500.65	-164.97	670.92	657.34	13.57	49.428	
2,200.00	2,185.98	2,106.63	2,058.74	6.67	7.55	134.18	-521.33	-166.00	697.96	684.28	13.67	51.043	
2,300.00	2,285.18	2,189.62	2,152.74	6.74	7.62	134.01	-542.01	-167.03	725.00	711.21	13.79	52.568	
2,400.00	2,384.38	2,285.87	2,246.74	6.83	7.73	133.85	-562.68	-168.06	752.06	738.11	13.95	53.929	
2,500.00	2,483.59	2,382.13	2,340.74	6.92	7.84	133.70	-583.36	-169.09	779.11	764.99	14.13	55.151	
2,600.00	2,582.79	2,478.38	2,434.74	7.03	7.98	133.56	-604.03	-170.12	806.18	791.84	14.34	56.237	
2,700.00	2,681.99	2,574.63	2,528.73	7.15	8.13	133.43	-624.71	-171.15	833.24	818.67	14.57	57.192	
2,800.00	2,781.19	2,670.88	2,622.73	7.29	8.29	133.30	-645.38	-172.18	860.31	845.48	14.83	58.021	
2,900.00	2,880.40	2,767.13	2,716.73	7.43	8.46	133.19	-666.06	-173.21	887.39	872.28	15.11	58.733	
3,000.00	2,979.60	2,863.38	2,810.73	7.58	8.65	133.08	-686.73	-174.23	914.46	899.05	15.41	59.336	
3,100.00	3,078.80	2,959.63	2,904.73	7.74	8.85	132.98	-707.41	-175.26	941.54	925.81	15.74	59.837	
3,200.00	3,178.00	3,055.88	2,998.73	7.91	9.06	132.88	-728.09	-176.29	968.62	952.55	16.08	60.247	
3,300.00	3,277.21	3,152.13	3,092.72	8.09	9.28	132.79	-748.76	-177.32	995.71	979.27	16.44	60.574	
3,400.00	3,376.41	3,248.38	3,186.72	8.28	9.51	132.71	-769.44	-178.35	1,022.80	1,005.98	16.82	60.826	
3,500.00	3,475.61	3,344.63	3,280.72	8.48	9.74	132.62	-790.11	-179.38	1,049.88	1,032.68	17.21	61.012	
3,600.00	3,574.82	3,440.88	3,374.72	8.68	9.99	132.55	-810.79	-180.41	1,076.97	1,059.36	17.61	61.140	
3,700.00	3,674.02	3,537.13	3,468.72	8.88	10.24	132.47	-831.46	-181.44	1,104.07	1,086.03	18.04	61.216	
3,800.00	3,773.22	3,633.38	3,562.71	9.10	10.50	132.40	-852.14	-182.47	1,131.16	1,112.69	18.47	61.247	
3,900.00	3,872.42	3,729.63	3,656.71	9.32	10.77	132.34	-872.82	-183.50	1,158.26	1,139.34	18.91	61.239	
4,000.00	3,971.63	3,825.88	3,750.71	9.54	11.04	132.27	-893.49	-184.53	1,185.35	1,165.98	19.37	61.196	

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Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-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	1.00	1.00	3.28	3.28	-143.50	-201.09	-148.78	250.14				
100.00	100.00	101.00	101.00	3.28	3.28	-143.50	-201.09	-148.78	250.14	242.62	7.53	33.224	
200.00	200.00	201.00	201.00	3.31	3.31	-143.50	-201.09	-148.78	250.14	242.57	7.57	33.026	CC, ES, SF
300.00	299.98	294.12	294.10	3.35	3.34	137.11	-202.63	-148.84	252.80	245.14	7.65	33.032	
400.00	399.84	386.93	386.79	3.42	3.40	137.17	-207.18	-149.04	260.69	252.92	7.77	33.552	
500.00	499.45	478.97	478.53	3.51	3.47	137.26	-214.65	-149.36	273.78	265.85	7.93	34.524	
600.00	598.73	569.94	568.91	3.62	3.56	137.42	-224.92	-149.80	291.83	283.69	8.14	35.862	
700.00	697.94	659.91	657.94	3.77	3.69	137.47	-237.89	-150.35	312.91	304.54	8.37	37.367	
800.00	797.14	748.81	745.46	3.94	3.84	137.23	-253.45	-151.02	336.49	327.84	8.65	38.912	
900.00	896.34	836.50	831.27	4.13	4.03	136.77	-271.44	-151.79	362.53	353.58	8.95	40.485	
1,000.00	995.55	922.83	915.18	4.33	4.25	136.15	-291.71	-152.66	391.03	381.74	9.29	42.083	
1,100.00	1,094.75	1,015.75	1,005.02	4.55	4.52	135.41	-315.44	-153.67	421.27	411.57	9.70	43.442	
1,200.00	1,193.95	1,110.91	1,097.00	4.79	4.84	134.76	-339.81	-154.71	451.63	441.49	10.15	44.517	
1,300.00	1,293.15	1,206.07	1,188.98	5.04	5.17	134.18	-364.17	-155.76	482.04	471.42	10.62	45.391	
1,400.00	1,392.36	1,301.23	1,280.96	5.29	5.52	133.67	-388.54	-156.80	512.48	501.36	11.12	46.092	
1,500.00	1,491.56	1,396.39	1,372.94	5.56	5.89	133.22	-412.91	-157.84	542.96	531.32	11.64	46.662	
1,600.00	1,590.76	1,508.45	1,464.93	5.83	6.34	132.82	-437.27	-158.89	573.47	561.24	12.22	46.910	
1,700.00	1,689.96	1,586.71	1,556.91	6.11	6.66	132.46	-461.64	-159.93	603.99	591.27	12.72	47.479	
1,800.00	1,789.17	1,681.87	1,648.89	6.39	7.06	132.13	-486.01	-160.97	634.54	621.26	13.28	47.770	
1,900.00	1,888.37	1,777.03	1,740.87	6.54	7.47	131.83	-510.37	-162.01	665.11	651.58	13.53	49.157	
2,000.00	1,987.57	1,872.19	1,832.85	6.57	7.74	131.56	-534.74	-163.06	695.69	682.10	13.59	51.207	
2,100.00	2,086.77	1,967.35	1,924.83	6.61	7.85	131.31	-559.10	-164.10	726.28	712.59	13.69	53.037	
2,200.00	2,185.98	2,062.51	2,016.82	6.67	7.93	131.08	-583.47	-165.14	756.89	743.10	13.79	54.896	
2,300.00	2,285.18	2,157.67	2,108.80	6.74	8.02	130.87	-607.84	-166.18	787.50	773.59	13.91	56.604	
2,400.00	2,384.38	2,252.83	2,200.78	6.83	8.13	130.68	-632.20	-167.23	818.13	804.06	14.07	58.157	
2,500.00	2,483.59	2,347.99	2,292.76	6.92	8.26	130.50	-656.57	-168.27	848.76	834.51	14.25	59.555	
2,600.00	2,582.79	2,443.15	2,384.74	7.03	8.41	130.33	-680.94	-169.31	879.40	864.93	14.46	60.800	
2,700.00	2,681.99	2,538.31	2,476.72	7.15	8.57	130.17	-705.30	-170.36	910.04	895.34	14.70	61.897	
2,800.00	2,781.19	2,633.47	2,568.71	7.29	8.75	130.02	-729.67	-171.40	940.69	925.73	14.97	62.852	
2,900.00	2,880.40	2,728.63	2,660.69	7.43	8.94	129.89	-754.03	-172.44	971.35	956.09	15.25	63.675	
3,000.00	2,979.60	2,823.79	2,752.67	7.58	9.15	129.76	-778.40	-173.48	1,002.01	986.44	15.57	64.374	
3,100.00	3,078.80	2,918.95	2,844.65	7.74	9.36	129.64	-802.77	-174.53	1,032.67	1,016.78	15.90	64.958	
3,200.00	3,178.00	3,014.11	2,936.63	7.91	9.59	129.52	-827.13	-175.57	1,063.34	1,047.09	16.25	65.439	
3,300.00	3,277.21	3,109.27	3,028.61	8.09	9.83	129.41	-851.50	-176.61	1,094.02	1,077.40	16.62	65.826	
3,400.00	3,376.41	3,204.43	3,120.60	8.28	10.08	129.31	-875.86	-177.65	1,124.69	1,107.69	17.01	66.129	
3,500.00	3,475.61	3,300.41	3,212.58	8.48	10.34	129.21	-900.23	-178.70	1,155.37	1,137.96	17.41	66.350	
3,600.00	3,574.82	3,405.25	3,304.56	8.68	10.64	129.12	-924.60	-179.74	1,186.05	1,168.20	17.86	66.423	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-118.39	-80.87	-149.61	170.07					
100.00	100.00	101.00	101.00	3.28	3.28	-118.39	-80.87	-149.61	170.07	162.54	7.53	22.589		
200.00	200.00	201.00	201.00	3.31	3.31	-118.39	-80.87	-149.61	170.07	162.50	7.57	22.454	CC, ES	
300.00	299.98	297.56	297.54	3.35	3.34	161.91	-82.52	-149.82	172.73	165.08	7.66	22.564		
400.00	399.84	393.71	393.56	3.42	3.40	161.10	-87.37	-150.42	180.69	172.91	7.78	23.235		
500.00	499.45	507.17	492.45	3.51	3.49	160.23	-94.09	-151.26	193.01	185.05	7.96	24.242		
600.00	598.73	608.37	591.02	3.62	3.60	159.78	-100.79	-152.10	208.37	200.18	8.19	25.452		
700.00	697.94	709.66	689.49	3.77	3.73	159.51	-107.49	-152.93	224.36	215.91	8.44	26.578		
800.00	797.14	789.04	787.97	3.94	3.84	159.28	-114.18	-153.76	240.35	231.65	8.70	27.623		
900.00	896.34	887.75	886.45	4.13	4.00	159.07	-120.88	-154.60	256.34	247.32	9.02	28.422		
1,000.00	995.55	986.46	984.93	4.33	4.17	158.89	-127.58	-155.43	272.34	262.97	9.37	29.074		
1,100.00	1,094.75	1,085.17	1,083.41	4.55	4.36	158.73	-134.27	-156.27	288.34	278.60	9.74	29.601		
1,200.00	1,193.95	1,183.88	1,181.88	4.79	4.56	158.59	-140.97	-157.10	304.34	294.20	10.14	30.021		
1,300.00	1,293.15	1,282.59	1,280.36	5.04	4.76	158.46	-147.67	-157.93	320.35	309.79	10.55	30.352		
1,400.00	1,392.36	1,381.30	1,378.84	5.29	4.98	158.34	-154.36	-158.77	336.35	325.36	10.99	30.609		
1,500.00	1,491.56	1,480.01	1,477.32	5.56	5.21	158.24	-161.06	-159.60	352.36	340.92	11.44	30.806		
1,600.00	1,590.76	1,578.71	1,575.79	5.83	5.44	158.14	-167.75	-160.44	368.36	356.46	11.90	30.952		
1,700.00	1,689.96	1,677.42	1,674.27	6.11	5.67	158.05	-174.45	-161.27	384.37	372.00	12.38	31.058		
1,800.00	1,789.17	1,776.13	1,772.75	6.39	5.92	157.97	-181.15	-162.10	400.38	387.52	12.86	31.131		
1,900.00	1,888.37	1,874.84	1,871.23	6.54	6.07	157.90	-187.84	-162.94	416.39	403.63	12.77	32.617		
2,000.00	1,987.57	1,973.55	1,969.71	6.57	6.12	157.83	-194.54	-163.77	432.40	419.57	12.83	33.707		
2,100.00	2,086.77	2,072.26	2,068.18	6.61	6.15	157.76	-201.24	-164.61	448.41	435.53	12.89	34.796		
2,200.00	2,185.98	2,170.97	2,166.66	6.67	6.19	157.70	-207.93	-165.44	464.43	451.45	12.97	35.801		
2,300.00	2,285.18	2,269.67	2,265.14	6.74	6.24	157.64	-214.63	-166.28	480.44	467.35	13.08	36.717		
2,400.00	2,384.38	2,368.38	2,363.62	6.83	6.31	157.59	-221.32	-167.11	496.45	483.23	13.22	37.544		
2,500.00	2,483.59	2,467.09	2,462.09	6.92	6.39	157.54	-228.02	-167.94	512.46	499.08	13.39	38.282		
2,600.00	2,582.79	2,565.80	2,560.57	7.03	6.48	157.50	-234.72	-168.78	528.48	514.90	13.57	38.933		
2,700.00	2,681.99	2,664.51	2,659.05	7.15	6.58	157.45	-241.41	-169.61	544.49	530.71	13.78	39.501		
2,800.00	2,781.19	2,763.22	2,757.53	7.29	6.70	157.41	-248.11	-170.45	560.50	546.49	14.02	39.988		
2,900.00	2,880.40	2,861.93	2,856.00	7.43	6.82	157.37	-254.81	-171.28	576.52	562.25	14.27	40.400		
3,000.00	2,979.60	2,960.64	2,954.48	7.58	6.95	157.34	-261.50	-172.11	592.53	577.99	14.54	40.742		
3,100.00	3,078.80	3,059.34	3,052.96	7.74	7.10	157.30	-268.20	-172.95	608.55	593.71	14.84	41.021		
3,200.00	3,178.00	3,158.05	3,151.44	7.91	7.25	157.27	-274.90	-173.78	624.56	609.42	15.14	41.240		
3,300.00	3,277.21	3,256.76	3,249.92	8.09	7.41	157.24	-281.59	-174.62	640.58	625.11	15.47	41.407		
3,400.00	3,376.41	3,355.47	3,348.39	8.28	7.57	157.21	-288.29	-175.45	656.59	640.78	15.81	41.527		
3,500.00	3,475.61	3,454.18	3,446.87	8.48	7.75	157.18	-294.98	-176.28	672.61	656.44	16.17	41.604		
3,600.00	3,574.82	3,552.89	3,545.35	8.68	7.93	157.15	-301.68	-177.12	688.62	672.09	16.54	41.645		
3,700.00	3,674.02	3,651.60	3,643.83	8.88	8.12	157.12	-308.38	-177.95	704.64	687.72	16.92	41.653		
3,800.00	3,773.22	3,750.30	3,742.30	9.10	8.31	157.10	-315.07	-178.79	720.66	703.35	17.31	41.632		
3,900.00	3,872.42	3,849.01	3,840.78	9.32	8.51	157.08	-321.77	-179.62	736.67	718.96	17.71	41.587		
4,000.00	3,971.63	3,947.72	3,939.26	9.54	8.71	157.05	-328.47	-180.46	752.69	734.56	18.13	41.520		
4,100.00	4,070.83	4,046.43	4,037.74	9.77	8.92	157.03	-335.16	-181.29	768.70	750.15	18.55	41.436		
4,200.00	4,170.03	4,145.14	4,136.22	10.00	9.13	157.01	-341.86	-182.12	784.72	765.74	18.98	41.336		
4,300.00	4,269.23	4,243.85	4,234.69	10.24	9.35	156.99	-348.56	-182.96	800.74	781.31	19.42	41.223		
4,400.00	4,368.44	4,342.56	4,333.17	10.48	9.57	156.97	-355.25	-183.79	816.75	796.88	19.87	41.100		
4,500.00	4,467.64	4,441.27	4,431.65	10.72	9.79	156.95	-361.95	-184.63	832.77	812.44	20.33	40.968		
4,600.00	4,566.84	4,539.97	4,530.13	10.97	10.02	156.94	-368.64	-185.46	848.79	828.00	20.79	40.828		
4,700.00	4,666.05	4,638.68	4,628.60	11.22	10.25	156.92	-375.34	-186.29	864.80	843.55	21.26	40.683		
4,800.00	4,765.25	4,737.39	4,727.08	11.47	10.48	156.90	-382.04	-187.13	880.82	859.09	21.73	40.533		
4,900.00	4,864.45	4,836.10	4,825.56	11.73	10.71	156.89	-388.73	-187.96	896.84	874.63	22.21	40.379		
5,000.00	4,963.65	4,934.81	4,924.04	11.99	10.95	156.87	-395.43	-188.80	912.85	890.16	22.69	40.223		
5,100.00	5,062.86	5,033.52	5,022.51	12.25	11.19	156.86	-402.13	-189.63	928.87	905.69	23.18	40.066		

Hewlett-Packard

Anticollision Report

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

Offset Design											5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program:											0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA		Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis		Distance								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	5,162.06	5,132.23	5,120.99	12.51	11.43	156.84	-408.82	-190.46	944.89	921.21	23.68	39.907			
5,300.00	5,261.26	5,230.93	5,219.47	12.78	11.68	156.83	-415.52	-191.30	960.90	936.73	24.17	39.748			
5,400.00	5,360.46	5,329.64	5,317.95	13.05	11.93	156.81	-422.21	-192.13	976.92	952.25	24.68	39.590			
5,500.00	5,459.67	5,428.35	5,416.43	13.32	12.17	156.80	-428.91	-192.97	992.94	967.76	25.18	39.431			
5,600.00	5,558.87	5,527.06	5,514.90	13.59	12.42	156.79	-435.61	-193.80	1,008.96	983.27	25.69	39.274			
5,700.00	5,658.07	5,625.77	5,613.38	13.86	12.68	156.78	-442.30	-194.63	1,024.97	998.77	26.20	39.118			
5,800.00	5,757.27	5,724.48	5,711.86	14.13	12.93	156.76	-449.00	-195.47	1,040.99	1,014.27	26.72	38.963			
5,900.00	5,856.48	5,823.19	5,810.34	14.41	13.18	156.75	-455.70	-196.30	1,057.01	1,029.77	27.24	38.811			
6,000.00	5,955.68	5,921.90	5,908.81	14.69	13.44	156.74	-462.39	-197.14	1,073.03	1,045.27	27.76	38.660			
6,100.00	6,054.88	6,020.60	6,007.29	14.97	13.70	156.73	-469.09	-197.97	1,089.04	1,060.76	28.28	38.511			
6,200.00	6,154.09	6,119.31	6,105.77	15.25	13.95	156.72	-475.79	-198.81	1,105.06	1,076.26	28.80	38.364			
6,300.00	6,253.29	6,218.02	6,204.25	15.53	14.21	156.71	-482.48	-199.64	1,121.08	1,091.75	29.33	38.219			
6,400.00	6,352.49	7,862.78	7,169.10	15.81	21.49	108.46	-543.26	748.81	1,063.69	1,031.84	31.85	33.401			
6,500.00	6,451.69	7,875.21	7,169.10	16.09	21.63	107.47	-543.19	761.24	991.23	958.39	32.84	30.181			
6,600.00	6,550.93	7,887.38	7,169.10	16.37	21.77	108.20	-543.13	773.41	923.75	889.80	33.95	27.208			
6,700.00	6,650.78	7,889.11	7,169.10	16.54	21.79	-113.79	-543.12	775.14	862.12	827.11	35.01	24.624			
6,800.00	6,749.67	7,875.20	7,169.10	16.66	21.63	-103.62	-543.19	761.23	808.74	772.81	35.93	22.509			
6,900.00	6,845.16	7,845.98	7,169.09	16.73	21.31	-103.10	-543.34	732.01	765.92	729.32	36.60	20.926			
7,000.00	6,934.90	7,802.18	7,169.08	16.77	20.82	-101.87	-543.56	688.21	734.89	697.96	36.93	19.898			
7,100.00	7,016.67	7,744.88	7,169.06	16.79	20.23	-99.36	-543.85	630.91	715.42	678.49	36.93	19.372			
7,200.00	7,088.47	7,675.47	7,169.04	16.84	19.53	-95.89	-544.20	561.51	705.86	669.24	36.62	19.277 SF			
7,292.50	7,144.47	7,601.99	7,169.01	16.94	18.85	-92.29	-544.57	488.02	703.55	667.39	36.16	19.456			
7,300.00	7,148.53	7,595.69	7,169.01	16.95	18.79	-92.00	-544.60	481.72	703.56	667.44	36.12	19.479			
7,400.00	7,195.36	7,506.19	7,167.60	17.14	18.05	-88.20	-544.96	392.26	705.46	669.87	35.59	19.821			
7,500.00	7,227.82	7,417.37	7,155.59	17.43	17.41	-84.54	-544.58	304.32	709.25	674.07	35.18	20.163			
7,600.00	7,245.11	7,333.38	7,133.11	17.83	16.92	-81.15	-543.47	223.47	714.32	679.39	34.93	20.449			
7,700.00	7,248.02	7,253.66	7,102.14	18.33	16.61	-78.20	-541.73	150.09	720.43	685.57	34.87	20.663			
7,800.00	7,248.07	7,182.02	7,066.69	18.96	16.43	-75.42	-539.64	87.92	730.35	695.35	35.00	20.867			
7,900.00	7,248.13	7,119.49	7,030.22	19.71	16.30	-72.62	-537.41	37.20	746.01	710.73	35.28	21.145			
8,000.00	7,248.18	7,065.41	6,994.81	20.57	16.19	-69.96	-535.21	-3.59	768.46	732.80	35.66	21.552			
8,100.00	7,248.23	7,018.82	6,961.63	21.52	16.10	-67.53	-533.12	-36.21	798.26	762.18	36.08	22.126			
8,200.00	7,248.28	6,978.67	6,931.19	22.56	16.02	-65.36	-531.19	-62.31	835.51	799.00	36.50	22.888			
8,300.00	7,248.33	6,950.00	6,908.48	23.67	15.96	-63.78	-529.73	-79.75	879.94	843.02	36.92	23.834			
8,400.00	7,248.38	6,913.86	6,878.77	24.84	15.88	-61.76	-527.82	-100.23	930.93	893.67	37.26	24.984			
8,500.00	7,248.43	6,887.59	6,856.47	26.07	15.83	-60.30	-526.37	-114.05	987.90	950.34	37.57	26.296			
8,600.00	7,248.48	6,864.54	6,836.46	27.35	15.78	-59.01	-525.07	-125.40	1,050.13	1,012.31	37.83	27.762			
8,700.00	7,248.54	6,850.00	6,823.63	28.66	15.75	-58.20	-524.23	-132.19	1,116.97	1,078.93	38.04	29.362			
8,800.00	7,248.59	6,826.17	6,802.27	30.01	15.70	-56.87	-522.83	-142.67	1,187.68	1,149.47	38.21	31.087			

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
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	-124.05	-100.91	-149.34	180.23				
100.00	100.00	101.00	101.00	3.28	3.28	-124.05	-100.91	-149.34	180.23	172.70	7.53	23.939	
200.00	200.00	201.00	201.00	3.31	3.31	-124.05	-100.91	-149.34	180.23	172.66	7.57	23.795	CC, ES, SF
300.00	299.98	297.02	297.00	3.35	3.34	156.34	-102.54	-149.50	182.93	175.27	7.66	23.897	
400.00	399.84	392.64	392.50	3.42	3.40	155.77	-107.35	-149.98	190.97	183.20	7.78	24.560	
500.00	499.45	489.07	488.60	3.51	3.48	154.94	-115.18	-150.77	204.21	196.26	7.94	25.703	
600.00	598.73	587.67	586.82	3.62	3.58	154.45	-123.81	-151.64	220.79	212.63	8.17	27.037	
700.00	697.94	686.18	684.94	3.77	3.70	154.18	-132.44	-152.51	237.98	229.57	8.42	28.273	
800.00	797.14	784.68	783.06	3.94	3.85	153.94	-141.07	-153.38	255.18	246.47	8.71	29.308	
900.00	896.34	883.19	881.19	4.13	4.02	153.73	-149.69	-154.25	272.38	263.35	9.03	30.161	
1,000.00	995.55	981.69	979.31	4.33	4.20	153.54	-158.32	-155.12	289.58	280.20	9.39	30.856	
1,100.00	1,094.75	1,080.20	1,077.43	4.55	4.39	153.38	-166.95	-155.99	306.79	297.02	9.77	31.414	
1,200.00	1,193.95	1,178.70	1,175.56	4.79	4.60	153.24	-175.58	-156.85	323.99	313.82	10.17	31.856	
1,300.00	1,293.15	1,277.21	1,273.68	5.04	4.82	153.10	-184.20	-157.72	341.20	330.61	10.60	32.203	
1,400.00	1,392.36	1,375.71	1,371.80	5.29	5.05	152.99	-192.83	-158.59	358.41	347.37	11.04	32.471	
1,500.00	1,491.56	1,474.22	1,469.93	5.56	5.28	152.88	-201.46	-159.46	375.62	364.13	11.50	32.673	
1,600.00	1,590.76	1,572.72	1,568.05	5.83	5.53	152.78	-210.09	-160.33	392.84	380.87	11.97	32.823	
1,700.00	1,689.96	1,671.23	1,666.17	6.11	5.77	152.69	-218.71	-161.20	410.05	397.60	12.45	32.929	
1,800.00	1,789.17	1,769.73	1,764.29	6.39	6.03	152.61	-227.34	-162.07	427.26	414.32	12.95	33.001	
1,900.00	1,888.37	1,868.24	1,862.42	6.54	6.20	152.53	-235.97	-162.94	444.48	431.61	12.87	34.545	
2,000.00	1,987.57	1,966.74	1,960.54	6.57	6.26	152.46	-244.59	-163.80	461.70	448.76	12.94	35.682	
2,100.00	2,086.77	2,065.25	2,058.66	6.61	6.29	152.39	-253.22	-164.67	478.91	465.91	13.00	36.840	
2,200.00	2,185.98	2,163.76	2,156.79	6.67	6.33	152.33	-261.85	-165.54	496.13	483.04	13.09	37.908	
2,300.00	2,285.18	2,262.26	2,254.91	6.74	6.39	152.28	-270.48	-166.41	513.35	500.15	13.20	38.882	
2,400.00	2,384.38	2,360.77	2,353.03	6.83	6.46	152.22	-279.10	-167.28	530.57	517.22	13.34	39.761	
2,500.00	2,483.59	2,459.27	2,451.15	6.92	6.55	152.17	-287.73	-168.15	547.79	534.28	13.51	40.546	
2,600.00	2,582.79	2,557.78	2,549.28	7.03	6.64	152.13	-296.36	-169.02	565.00	551.30	13.70	41.239	
2,700.00	2,681.99	2,656.28	2,647.40	7.15	6.75	152.08	-304.99	-169.89	582.22	568.31	13.91	41.842	
2,800.00	2,781.19	2,754.79	2,745.52	7.29	6.87	152.04	-313.61	-170.75	599.44	585.29	14.15	42.361	
2,900.00	2,880.40	2,853.29	2,843.65	7.43	7.00	152.00	-322.24	-171.62	616.66	602.26	14.41	42.800	
3,000.00	2,979.60	2,951.80	2,941.77	7.58	7.14	151.96	-330.87	-172.49	633.88	619.20	14.69	43.165	
3,100.00	3,078.80	3,050.30	3,039.89	7.74	7.28	151.93	-339.49	-173.36	651.11	636.12	14.98	43.462	
3,200.00	3,178.00	3,148.81	3,138.02	7.91	7.44	151.90	-348.12	-174.23	668.33	653.03	15.29	43.697	
3,300.00	3,277.21	3,247.31	3,236.14	8.09	7.60	151.86	-356.75	-175.10	685.55	669.92	15.62	43.876	
3,400.00	3,376.41	3,345.82	3,334.26	8.28	7.78	151.83	-365.38	-175.97	702.77	686.80	15.97	44.005	
3,500.00	3,475.61	3,444.32	3,432.38	8.48	7.96	151.81	-374.00	-176.84	719.99	703.66	16.33	44.089	
3,600.00	3,574.82	3,542.83	3,530.51	8.68	8.14	151.78	-382.63	-177.70	737.21	720.51	16.70	44.134	
3,700.00	3,674.02	3,641.34	3,628.63	8.88	8.34	151.75	-391.26	-178.57	754.43	737.34	17.09	44.144	
3,800.00	3,773.22	3,739.84	3,726.75	9.10	8.54	151.73	-399.89	-179.44	771.66	754.17	17.49	44.125	
3,900.00	3,872.42	3,838.35	3,824.88	9.32	8.74	151.70	-408.51	-180.31	788.88	770.98	17.90	44.079	
4,000.00	3,971.63	3,936.85	3,923.00	9.54	8.95	151.68	-417.14	-181.18	806.10	787.78	18.32	44.011	
4,100.00	4,070.83	4,035.36	4,021.12	9.77	9.16	151.66	-425.77	-182.05	823.32	804.58	18.74	43.923	
4,200.00	4,170.03	4,133.86	4,119.24	10.00	9.38	151.64	-434.40	-182.92	840.54	821.36	19.18	43.819	
4,300.00	4,269.23	4,232.37	4,217.37	10.24	9.61	151.62	-443.02	-183.79	857.77	838.14	19.63	43.702	
4,400.00	4,368.44	4,330.87	4,315.49	10.48	9.83	151.60	-451.65	-184.66	874.99	854.91	20.08	43.573	
4,500.00	4,467.64	4,429.38	4,413.61	10.72	10.06	151.58	-460.28	-185.52	892.21	871.67	20.54	43.435	
4,600.00	4,566.84	4,527.88	4,511.74	10.97	10.30	151.56	-468.90	-186.39	909.43	888.43	21.01	43.289	
4,700.00	4,666.05	4,626.39	4,609.86	11.22	10.53	151.54	-477.53	-187.26	926.66	905.18	21.48	43.137	
4,800.00	4,765.25	4,724.89	4,707.98	11.47	10.77	151.53	-486.16	-188.13	943.88	921.92	21.96	42.980	
4,900.00	4,864.45	4,823.40	4,806.11	11.73	11.02	151.51	-494.79	-189.00	961.10	938.66	22.45	42.819	
5,000.00	4,963.65	4,921.90	4,904.23	11.99	11.26	151.50	-503.41	-189.87	978.33	955.39	22.94	42.656	
5,100.00	5,062.86	5,020.41	5,002.35	12.25	11.51	151.48	-512.04	-190.74	995.55	972.12	23.43	42.491	

Hewlett-Packard

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,118.92	5,100.47	12.51	11.76	151.47	-520.67	-191.61	1,012.77	988.84	23.93	42.324		
5,300.00	5,261.26	5,217.42	5,198.60	12.78	12.01	151.45	-529.30	-192.47	1,030.00	1,005.56	24.43	42.158		
5,400.00	5,360.46	5,315.93	5,296.72	13.05	12.26	151.44	-537.92	-193.34	1,047.22	1,022.28	24.94	41.991		
5,500.00	5,459.67	5,414.43	5,394.84	13.32	12.52	151.43	-546.55	-194.21	1,064.44	1,038.99	25.45	41.825		
5,600.00	5,558.87	5,512.94	5,492.97	13.59	12.77	151.41	-555.18	-195.08	1,081.67	1,055.70	25.96	41.660		
5,700.00	5,658.07	5,611.44	5,591.09	13.86	13.03	151.40	-563.80	-195.95	1,098.89	1,072.41	26.48	41.496		
5,800.00	5,757.27	5,709.95	5,689.21	14.13	13.29	151.39	-572.43	-196.82	1,116.11	1,089.11	27.00	41.333		
5,900.00	5,856.48	5,808.45	5,787.34	14.41	13.56	151.38	-581.06	-197.69	1,133.34	1,105.81	27.53	41.173		
6,000.00	5,955.68	5,906.96	5,885.46	14.69	13.82	151.37	-589.69	-198.56	1,150.56	1,122.51	28.05	41.014		
6,100.00	6,054.88	6,005.46	5,983.58	14.97	14.08	151.36	-598.31	-199.42	1,167.78	1,139.20	28.58	40.858		
6,200.00	6,154.09	6,103.97	6,081.70	15.25	14.35	151.35	-606.94	-200.29	1,185.01	1,155.89	29.11	40.703		
6,500.00	6,451.69	7,936.76	7,234.55	16.09	21.93	107.71	-722.74	743.44	1,165.78	1,132.26	33.52	34.778		
6,600.00	6,550.93	7,949.02	7,234.57	16.37	22.06	108.82	-722.93	755.71	1,103.67	1,069.11	34.56	31.938		
6,700.00	6,650.78	7,950.85	7,234.57	16.54	22.08	-112.32	-722.95	757.53	1,046.83	1,011.34	35.49	29.494		
6,800.00	6,749.67	7,937.03	7,234.55	16.66	21.93	-101.88	-722.74	743.71	997.03	960.78	36.25	27.504		
6,900.00	6,845.16	7,907.91	7,234.50	16.73	21.61	-101.61	-722.30	714.59	956.01	919.25	36.76	26.008		
7,000.00	6,934.90	7,864.20	7,234.42	16.77	21.15	-101.06	-721.63	670.89	924.61	887.61	36.99	24.993		
7,100.00	7,016.67	7,806.97	7,234.32	16.79	20.56	-99.56	-720.76	613.67	902.61	865.67	36.94	24.437		
7,200.00	7,088.47	7,737.64	7,234.20	16.84	19.90	-97.30	-719.70	544.35	888.81	852.15	36.66	24.242		
7,300.00	7,148.53	7,657.92	7,234.06	16.95	19.20	-94.68	-718.48	464.63	881.33	845.07	36.25	24.311		
7,400.00	7,195.36	7,558.33	7,230.62	17.14	18.44	-91.67	-716.67	365.18	877.60	841.84	35.76	24.542		
7,500.00	7,227.82	7,457.42	7,212.39	17.43	17.82	-88.58	-713.56	266.08	875.03	839.64	35.39	24.724		
7,600.00	7,245.11	7,364.55	7,182.01	17.83	17.44	-85.71	-709.56	178.50	873.48	838.26	35.22	24.798		
7,676.59	7,249.63	7,298.60	7,152.89	18.21	17.26	-83.58	-706.11	119.46	873.18	837.95	35.23	24.785		
7,700.00	7,248.02	7,278.47	7,142.80	18.33	17.21	-83.01	-704.95	102.08	873.04	837.79	35.24	24.771		
7,800.00	7,248.07	7,203.54	7,100.57	18.96	17.04	-80.23	-700.30	40.41	875.80	840.33	35.47	24.691		
7,900.00	7,248.13	7,140.19	7,059.44	19.71	16.91	-77.53	-695.95	-7.53	883.71	847.85	35.86	24.643		
8,000.00	7,248.18	7,086.93	7,021.31	20.57	16.80	-75.06	-692.04	-44.50	898.00	861.64	36.36	24.700		
8,100.00	7,248.23	7,042.11	6,986.94	21.52	16.71	-72.87	-688.58	-73.03	919.44	882.53	36.91	24.913		
8,200.00	7,248.28	7,000.00	6,952.89	22.56	16.62	-70.72	-685.21	-97.57	948.33	910.87	37.46	25.316		
8,300.00	7,248.33	6,972.00	6,929.39	23.67	16.56	-69.27	-682.91	-112.60	984.52	946.51	38.02	25.896		
8,400.00	7,248.38	6,950.00	6,910.47	24.84	16.51	-68.11	-681.08	-123.68	1,027.74	989.20	38.53	26.671		
8,500.00	7,248.43	6,920.55	6,884.57	26.07	16.45	-66.55	-678.59	-137.48	1,077.31	1,038.35	38.96	27.655		
8,600.00	7,248.48	6,900.00	6,866.13	27.35	16.40	-65.46	-676.83	-146.38	1,132.71	1,093.37	39.33	28.799		
8,700.00	7,248.54	6,881.64	6,849.42	28.66	16.36	-64.48	-675.25	-153.82	1,193.24	1,153.59	39.64	30.098		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
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	5.322		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-40.07	0.28	40.07	32.50	7.57	5.290	CC, ES	
300.00	299.98	299.55	299.53	3.35	3.35	100.28	-40.61	1.92	40.93	33.27	7.66	5.345		
400.00	399.84	399.05	398.89	3.42	3.41	100.51	-42.23	6.85	43.52	35.74	7.78	5.592		
500.00	499.45	498.47	497.93	3.51	3.50	100.82	-44.92	15.04	47.83	39.87	7.96	6.010		
600.00	598.73	597.94	596.68	3.62	3.61	101.13	-48.63	26.32	53.76	45.57	8.19	6.562		
700.00	697.94	697.74	695.67	3.77	3.76	101.33	-52.60	38.40	60.06	51.58	8.48	7.081		
800.00	797.14	802.46	794.66	3.94	3.94	101.50	-56.57	50.48	66.36	57.53	8.82	7.520		
900.00	896.34	902.66	893.64	4.13	4.13	101.63	-60.55	62.56	72.66	63.45	9.20	7.896		
1,000.00	995.55	1,002.86	992.63	4.33	4.34	101.75	-64.52	74.64	78.95	69.34	9.61	8.212		
1,100.00	1,094.75	1,103.06	1,091.62	4.55	4.57	101.84	-68.49	86.72	85.25	75.20	10.06	8.477		
1,200.00	1,193.95	1,203.26	1,190.61	4.79	4.81	101.93	-72.46	98.80	91.55	81.03	10.53	8.697		
1,300.00	1,293.15	1,303.45	1,289.60	5.04	5.06	102.00	-76.43	110.88	97.85	86.83	11.02	8.880		
1,400.00	1,392.36	1,403.65	1,388.58	5.29	5.32	102.06	-80.40	122.96	104.15	92.62	11.53	9.033		
1,500.00	1,491.56	1,503.85	1,487.57	5.56	5.59	102.12	-84.38	135.04	110.45	98.39	12.06	9.159		
1,600.00	1,590.76	1,604.05	1,586.56	5.83	5.87	102.17	-88.35	147.12	116.75	104.15	12.60	9.264		
1,700.00	1,689.96	1,704.25	1,685.55	6.11	6.16	102.22	-92.32	159.20	123.05	109.90	13.16	9.352		
1,800.00	1,789.17	1,804.45	1,784.54	6.39	6.44	102.26	-96.29	171.28	129.35	115.64	13.72	9.429		
1,900.00	1,888.37	1,904.65	1,883.52	6.54	6.59	102.29	-100.26	183.36	135.66	122.02	13.64	9.947		
2,000.00	1,987.57	2,004.85	1,982.51	6.57	6.62	102.33	-104.23	195.44	141.96	128.26	13.69	10.366		
2,100.00	2,086.77	2,105.04	2,081.50	6.61	6.67	102.36	-108.21	207.52	148.26	134.48	13.78	10.758		
2,200.00	2,185.98	2,205.24	2,180.49	6.67	6.73	102.39	-112.18	219.60	154.56	140.66	13.90	11.123		
2,300.00	2,285.18	2,305.44	2,279.48	6.74	6.80	102.41	-116.15	231.68	160.86	146.82	14.04	11.459		
2,400.00	2,384.38	2,405.64	2,378.46	6.83	6.89	102.44	-120.12	243.76	167.16	152.95	14.21	11.766		
2,500.00	2,483.59	2,505.84	2,477.45	6.92	6.99	102.46	-124.09	255.84	173.46	159.06	14.40	12.044		
2,600.00	2,582.79	2,606.04	2,576.44	7.03	7.10	102.48	-128.06	267.92	179.76	165.14	14.62	12.294		
2,700.00	2,681.99	2,706.24	2,675.43	7.15	7.22	102.50	-132.03	280.00	186.06	171.19	14.87	12.516		
2,800.00	2,781.19	2,806.44	2,774.42	7.29	7.36	102.52	-136.01	292.08	192.36	177.23	15.13	12.712		
2,900.00	2,880.40	2,906.63	2,873.40	7.43	7.51	102.54	-139.98	304.16	198.66	183.24	15.42	12.884		
3,000.00	2,979.60	3,006.83	2,972.39	7.58	7.67	102.55	-143.95	316.23	204.96	189.24	15.73	13.033		
3,100.00	3,078.80	3,107.03	3,071.38	7.74	7.83	102.57	-147.92	328.31	211.26	195.21	16.05	13.161		
3,200.00	3,178.00	3,207.23	3,170.37	7.91	8.01	102.58	-151.89	340.39	217.56	201.17	16.40	13.269		
3,300.00	3,277.21	3,307.43	3,269.35	8.09	8.19	102.60	-155.86	352.47	223.86	207.11	16.76	13.360		
3,400.00	3,376.41	3,407.63	3,368.34	8.28	8.39	102.61	-159.84	364.55	230.17	213.03	17.13	13.435		
3,500.00	3,475.61	3,507.83	3,467.33	8.48	8.59	102.62	-163.81	376.63	236.47	218.94	17.52	13.495		
3,600.00	3,574.82	3,608.03	3,566.32	8.68	8.79	102.63	-167.78	388.71	242.77	224.84	17.93	13.542		
3,700.00	3,674.02	3,708.22	3,665.31	8.88	9.01	102.64	-171.75	400.79	249.07	230.73	18.34	13.579		
3,800.00	3,773.22	3,808.42	3,764.29	9.10	9.23	102.65	-175.72	412.87	255.37	236.60	18.77	13.605		
3,900.00	3,872.42	3,908.62	3,863.28	9.32	9.45	102.66	-179.69	424.95	261.67	242.46	19.21	13.622		
4,000.00	3,971.63	4,008.82	3,962.27	9.54	9.68	102.67	-183.67	437.03	267.97	248.31	19.66	13.631		
4,100.00	4,070.83	4,109.02	4,061.26	9.77	9.91	102.68	-187.64	449.11	274.27	254.15	20.12	13.634		
4,200.00	4,170.03	4,209.22	4,160.25	10.00	10.15	102.69	-191.61	461.19	280.57	259.99	20.58	13.630		
4,300.00	4,269.23	4,309.42	4,259.23	10.24	10.39	102.70	-195.58	473.27	286.87	265.81	21.06	13.622		
4,400.00	4,368.44	4,409.61	4,358.22	10.48	10.64	102.71	-199.55	485.35	293.17	271.63	21.54	13.609		
4,500.00	4,467.64	4,509.81	4,457.21	10.72	10.89	102.71	-203.52	497.43	299.48	277.44	22.03	13.592		
4,600.00	4,566.84	4,589.99	4,556.20	10.97	11.09	102.72	-207.49	509.51	305.78	283.30	22.48	13.602		
4,700.00	4,666.05	4,689.79	4,655.19	11.22	11.35	102.73	-211.47	521.59	312.08	289.10	22.98	13.579		
4,800.00	4,765.25	4,789.59	4,754.17	11.47	11.61	102.73	-215.44	533.67	318.38	294.89	23.49	13.554		
4,900.00	4,864.45	4,889.39	4,853.16	11.73	11.87	102.74	-219.41	545.75	324.68	300.68	24.00	13.527		
5,000.00	4,963.65	4,989.19	4,952.15	11.99	12.13	102.75	-223.38	557.83	330.98	306.46	24.52	13.498		
5,100.00	5,062.86	5,088.99	5,051.14	12.25	12.40	102.75	-227.35	569.91	337.28	312.24	25.04	13.468		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,188.80	5,150.13	12.51	12.67	102.76	-231.32	581.99	343.58	318.01	25.57	13.437		
5,300.00	5,261.26	5,288.60	5,249.11	12.78	12.94	102.76	-235.30	594.07	349.88	323.78	26.10	13.405		
5,400.00	5,360.46	5,388.40	5,348.10	13.05	13.21	102.77	-239.27	606.15	356.18	329.55	26.64	13.372		
5,500.00	5,459.67	5,488.20	5,447.09	13.32	13.48	102.77	-243.24	618.23	362.48	335.31	27.17	13.339		
5,600.00	5,558.87	5,588.00	5,546.08	13.59	13.76	102.78	-247.21	630.31	368.79	341.07	27.72	13.305		
5,700.00	5,658.07	5,687.80	5,645.06	13.86	14.04	102.78	-251.18	642.38	375.09	346.82	28.26	13.271		
5,800.00	5,757.27	5,787.60	5,744.05	14.13	14.31	102.79	-255.15	654.46	381.39	352.58	28.81	13.237		
5,900.00	5,856.48	5,887.40	5,843.04	14.41	14.60	102.79	-259.13	666.54	387.69	358.33	29.36	13.203		
6,000.00	5,955.68	5,987.21	5,942.03	14.69	14.88	102.80	-263.10	678.62	393.99	364.07	29.92	13.169		
6,100.00	6,054.88	6,087.01	6,041.02	14.97	15.16	102.80	-267.07	690.70	400.29	369.82	30.47	13.135		
6,200.00	6,154.09	6,186.81	6,140.00	15.25	15.45	102.80	-271.04	702.78	406.59	375.56	31.03	13.101		
6,300.00	6,253.29	6,286.61	6,238.99	15.53	15.73	102.81	-275.01	714.86	412.89	381.30	31.60	13.068		
6,400.00	6,352.49	6,386.41	6,337.98	15.81	16.02	102.81	-278.98	726.94	419.19	387.03	32.16	13.035		
6,500.00	6,451.69	6,486.21	6,436.97	16.09	16.31	102.82	-282.95	739.02	425.49	392.77	32.73	13.002		
6,600.00	6,550.93	6,586.01	6,535.95	16.37	16.59	106.01	-286.93	751.10	431.79	398.50	33.29	12.972		
6,700.00	6,650.78	6,685.16	6,634.30	16.54	16.88	-109.64	-290.87	763.10	437.80	404.08	33.72	12.985		
6,800.00	6,749.67	6,783.34	6,732.09	16.66	17.10	-96.99	-294.78	769.79	444.17	410.17	34.00	13.065		
6,900.00	6,845.16	6,884.67	6,832.86	16.73	17.23	-96.52	-298.78	761.06	451.28	417.13	34.15	13.216		
7,000.00	6,934.90	6,989.70	6,934.46	16.77	17.32	-97.47	-302.76	735.27	458.89	424.68	34.21	13.414		
7,100.00	7,016.67	7,098.68	7,033.93	16.79	17.37	-98.76	-306.62	691.24	466.68	432.47	34.21	13.641		
7,200.00	7,088.47	7,211.75	7,127.64	16.84	17.39	-100.08	-310.20	628.34	474.23	440.03	34.20	13.865		
7,300.00	7,148.53	7,328.84	7,211.40	16.95	17.42	-101.29	-313.34	546.81	481.11	446.83	34.28	14.036		
7,400.00	7,195.36	7,449.61	7,280.67	17.14	17.49	-102.31	-315.86	448.13	486.85	452.31	34.53	14.098		
7,500.00	7,227.82	7,573.44	7,331.08	17.43	17.67	-103.05	-317.60	335.26	491.04	455.96	35.08	13.997		
7,600.00	7,245.11	7,699.36	7,359.01	17.83	18.02	-103.49	-318.41	212.69	493.36	457.41	35.95	13.722		
7,700.00	7,248.02	7,816.04	7,364.05	18.33	18.52	-103.59	-318.33	96.21	493.74	456.70	37.05	13.328		
7,800.00	7,248.07	7,916.04	7,364.17	18.96	19.11	-103.60	-318.10	-3.79	493.68	455.42	38.26	12.904		
7,900.00	7,248.13	8,016.04	7,364.30	19.71	19.83	-103.61	-317.86	-103.79	493.61	453.90	39.71	12.431		
8,000.00	7,248.18	8,116.04	7,364.43	20.57	20.67	-103.62	-317.63	-203.79	493.54	452.17	41.37	11.929		
8,100.00	7,248.23	8,216.04	7,364.56	21.52	21.60	-103.64	-317.39	-303.79	493.47	450.25	43.23	11.416		
8,200.00	7,248.28	8,316.04	7,364.69	22.56	22.63	-103.65	-317.16	-403.79	493.41	448.16	45.24	10.906		
8,300.00	7,248.33	8,416.04	7,364.81	23.67	23.73	-103.66	-316.92	-503.79	493.34	445.94	47.40	10.408		
8,400.00	7,248.38	8,516.04	7,364.94	24.84	24.89	-103.67	-316.69	-603.78	493.27	443.59	49.69	9.928		
8,500.00	7,248.43	8,616.04	7,365.07	26.07	26.11	-103.68	-316.45	-703.78	493.21	441.13	52.08	9.470		
8,600.00	7,248.48	8,716.04	7,365.20	27.35	27.38	-103.69	-316.22	-803.78	493.14	438.57	54.57	9.038		
8,700.00	7,248.54	8,816.04	7,365.33	28.66	28.69	-103.70	-315.98	-903.78	493.07	435.94	57.13	8.630		
8,800.00	7,248.59	8,916.04	7,365.46	30.01	30.03	-103.71	-315.75	-1,003.78	493.01	433.24	59.77	8.248		
8,900.00	7,248.64	9,016.04	7,365.58	31.40	31.41	-103.72	-315.51	-1,103.78	492.94	430.47	62.47	7.891		
9,000.00	7,248.69	9,116.04	7,365.71	32.80	32.81	-103.73	-315.28	-1,203.78	492.87	427.65	65.22	7.557		
9,100.00	7,248.74	9,216.04	7,365.84	34.24	34.24	-103.75	-315.04	-1,303.78	492.80	424.78	68.02	7.245		
9,200.00	7,248.79	9,316.04	7,365.97	35.69	35.69	-103.76	-314.81	-1,403.78	492.74	421.87	70.86	6.953		
9,300.00	7,248.84	9,416.04	7,366.10	37.16	37.16	-103.77	-314.57	-1,503.78	492.67	418.93	73.74	6.681		
9,400.00	7,248.89	9,516.04	7,366.22	38.65	38.64	-103.78	-314.34	-1,603.78	492.60	415.95	76.65	6.427		
9,500.00	7,248.94	9,616.04	7,366.35	40.15	40.14	-103.79	-314.10	-1,703.78	492.54	412.95	79.59	6.188		
9,600.00	7,249.00	9,716.04	7,366.48	41.67	41.65	-103.80	-313.87	-1,803.78	492.47	409.91	82.56	5.965		
9,700.00	7,249.05	9,816.04	7,366.61	43.20	43.18	-103.81	-313.63	-1,903.78	492.40	406.86	85.54	5.756		
9,800.00	7,249.10	9,916.04	7,366.74	44.73	44.71	-103.82	-313.40	-2,003.78	492.34	403.78	88.55	5.560		
9,900.00	7,249.15	10,016.04	7,366.87	46.28	46.26	-103.84	-313.16	-2,103.78	492.27	400.69	91.58	5.375		
10,000.00	7,249.20	10,116.04	7,366.99	47.84	47.81	-103.85	-312.93	-2,203.78	492.20	397.58	94.62	5.202		
10,100.00	7,249.25	10,216.04	7,367.12	49.40	49.37	-103.86	-312.69	-2,303.78	492.14	394.46	97.68	5.038		
10,200.00	7,249.30	10,316.04	7,367.25	50.97	50.94	-103.87	-312.46	-2,403.78	492.07	391.32	100.75	4.884		
10,300.00	7,249.35	10,416.04	7,367.38	52.55	52.51	-103.88	-312.22	-2,503.78	492.00	388.16	103.84	4.738		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,249.41	10,516.04	7,367.51	54.13	54.09	-103.89	-311.99	-2,603.78	491.94	385.00	106.94	4.600		
10,500.00	7,249.46	10,616.04	7,367.63	55.71	55.68	-103.90	-311.75	-2,703.78	491.87	381.83	110.04	4.470		
10,600.00	7,249.51	10,716.04	7,367.76	57.31	57.27	-103.91	-311.51	-2,803.78	491.80	378.64	113.16	4.346		
10,700.00	7,249.56	10,816.04	7,367.89	58.90	58.86	-103.92	-311.28	-2,903.78	491.74	375.45	116.28	4.229		
10,800.00	7,249.61	10,916.04	7,368.02	60.50	60.46	-103.94	-311.04	-3,003.77	491.67	372.25	119.42	4.117		
10,900.00	7,249.66	11,016.04	7,368.15	62.11	62.06	-103.95	-310.81	-3,103.77	491.60	369.05	122.56	4.011		
11,000.00	7,249.71	11,116.04	7,368.27	63.72	63.67	-103.96	-310.57	-3,203.77	491.54	365.83	125.70	3.910		
11,100.00	7,249.76	11,216.04	7,368.40	65.33	65.28	-103.97	-310.34	-3,303.77	491.47	362.61	128.86	3.814		
11,200.00	7,249.82	11,316.04	7,368.53	66.94	66.89	-103.98	-310.10	-3,403.77	491.40	359.39	132.02	3.722		
11,300.00	7,249.87	11,416.04	7,368.66	68.56	68.50	-103.99	-309.87	-3,503.77	491.34	356.16	135.18	3.635		
11,400.00	7,249.92	11,516.04	7,368.79	70.18	70.12	-104.00	-309.63	-3,603.77	491.27	352.92	138.35	3.551		
11,500.00	7,249.97	11,616.04	7,368.92	71.80	71.74	-104.01	-309.40	-3,703.77	491.20	349.68	141.53	3.471		
11,600.00	7,250.02	11,716.04	7,369.04	73.42	73.37	-104.02	-309.16	-3,803.77	491.14	346.43	144.70	3.394		
11,700.00	7,250.07	11,816.04	7,369.17	75.05	74.99	-104.04	-308.93	-3,903.77	491.07	343.19	147.89	3.321		
11,800.00	7,250.12	11,916.04	7,369.30	76.68	76.62	-104.05	-308.69	-4,003.77	491.01	339.93	151.07	3.250		
11,900.00	7,250.17	12,016.04	7,369.43	78.31	78.25	-104.06	-308.46	-4,103.77	490.94	336.68	154.26	3.182		
12,000.00	7,250.22	12,116.04	7,369.56	79.94	79.88	-104.07	-308.22	-4,203.77	490.87	333.42	157.46	3.118		
12,100.00	7,250.28	12,216.04	7,369.68	81.57	81.51	-104.08	-307.99	-4,303.77	490.81	330.15	160.65	3.055		
12,200.00	7,250.33	12,316.04	7,369.81	83.21	83.14	-104.09	-307.75	-4,403.77	490.74	326.89	163.85	2.995		
12,300.00	7,250.38	12,416.04	7,369.94	84.84	84.78	-104.10	-307.52	-4,503.77	490.67	323.62	167.05	2.937		
12,400.00	7,250.43	12,516.04	7,370.07	86.48	86.41	-104.11	-307.28	-4,603.77	490.61	320.35	170.26	2.882		
12,500.00	7,250.48	12,616.04	7,370.20	88.12	88.05	-104.13	-307.05	-4,703.77	490.54	317.08	173.47	2.828		
12,600.00	7,250.53	12,716.04	7,370.33	89.76	89.69	-104.14	-306.81	-4,803.77	490.48	313.80	176.67	2.776		
12,700.00	7,250.58	12,816.04	7,370.45	91.40	91.33	-104.15	-306.58	-4,903.77	490.41	310.52	179.89	2.726		
12,800.00	7,250.63	12,916.04	7,370.58	93.04	92.97	-104.16	-306.34	-5,003.77	490.34	307.24	183.10	2.678		
12,900.00	7,250.69	13,016.04	7,370.71	94.68	94.62	-104.17	-306.11	-5,103.77	490.28	303.96	186.31	2.631		
13,000.00	7,250.74	13,116.04	7,370.84	96.33	96.26	-104.18	-305.87	-5,203.77	490.21	300.68	189.53	2.586		
13,100.00	7,250.79	13,216.04	7,370.97	97.97	97.91	-104.19	-305.64	-5,303.76	490.14	297.40	192.75	2.543		
13,200.00	7,250.84	13,316.04	7,371.09	99.62	99.55	-104.20	-305.40	-5,403.76	490.08	294.11	195.97	2.501		
13,300.00	7,250.89	13,416.04	7,371.22	101.27	101.20	-104.22	-305.17	-5,503.76	490.01	290.82	199.19	2.460		
13,400.00	7,250.94	13,516.04	7,371.35	102.92	102.84	-104.23	-304.93	-5,603.76	489.95	287.53	202.41	2.421		
13,500.00	7,250.99	13,616.04	7,371.48	104.56	104.49	-104.24	-304.70	-5,703.76	489.88	284.24	205.64	2.382		
13,600.00	7,251.04	13,716.04	7,371.61	106.21	106.14	-104.25	-304.46	-5,803.76	489.81	280.95	208.86	2.345		
13,700.00	7,251.09	13,816.04	7,371.74	107.86	107.79	-104.26	-304.22	-5,903.76	489.75	277.66	212.09	2.309		
13,800.00	7,251.15	13,916.04	7,371.86	109.51	109.44	-104.27	-303.99	-6,003.76	489.68	274.36	215.32	2.274		
13,900.00	7,251.20	14,016.04	7,371.99	111.16	111.09	-104.28	-303.75	-6,103.76	489.62	271.07	218.55	2.240		
14,000.00	7,251.25	14,116.04	7,372.12	112.82	112.74	-104.29	-303.52	-6,203.76	489.55	267.77	221.78	2.207		
14,100.00	7,251.30	14,216.04	7,372.25	114.47	114.40	-104.31	-303.28	-6,303.76	489.48	264.48	225.01	2.175		
14,200.00	7,251.35	14,316.04	7,372.38	116.12	116.05	-104.32	-303.05	-6,403.76	489.42	261.18	228.24	2.144		
14,300.00	7,251.40	14,416.04	7,372.50	117.78	117.70	-104.33	-302.81	-6,503.76	489.35	257.88	231.47	2.114		
14,400.00	7,251.45	14,516.04	7,372.63	119.43	119.35	-104.34	-302.58	-6,603.76	489.29	254.58	234.70	2.085		
14,500.00	7,251.50	14,616.04	7,372.76	121.08	121.01	-104.35	-302.34	-6,703.76	489.22	251.28	237.94	2.056		
14,600.00	7,251.56	14,716.04	7,372.89	122.74	122.66	-104.36	-302.11	-6,803.76	489.15	247.98	241.17	2.028		
14,700.00	7,251.61	14,816.04	7,373.02	124.40	124.32	-104.37	-301.87	-6,903.76	489.09	244.68	244.41	2.001		
14,800.00	7,251.66	14,916.04	7,373.14	126.05	125.97	-104.38	-301.64	-7,003.76	489.02	241.38	247.64	1.975		
14,900.00	7,251.71	15,016.04	7,373.27	127.71	127.63	-104.40	-301.40	-7,103.76	488.96	238.08	250.88	1.949		
15,000.00	7,251.76	15,116.04	7,373.40	129.36	129.29	-104.41	-301.17	-7,203.76	488.89	234.77	254.12	1.924		
15,100.00	7,251.81	15,216.04	7,373.53	131.02	130.94	-104.42	-300.93	-7,303.76	488.83	231.47	257.36	1.899		
15,200.00	7,251.86	15,316.04	7,373.66	132.68	132.60	-104.43	-300.70	-7,403.76	488.76	228.16	260.60	1.876		
15,300.00	7,251.91	15,416.04	7,373.79	134.34	134.26	-104.44	-300.46	-7,503.76	488.69	224.86	263.83	1.852		
15,400.00	7,251.96	15,516.04	7,373.91	135.99	135.92	-104.45	-300.23	-7,603.76	488.63	221.56	267.07	1.830		
15,468.95	7,252.00	15,584.99	7,374.00	137.14	137.06	-104.46	-300.06	-7,672.71	488.58	219.28	269.31	1.814 SF		

Hewlett-Packard

Anticollision Report

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

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.73	-60.10	0.28	60.10					
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-60.10	0.28	60.10	52.57	7.53	7.983		
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-60.10	0.28	60.10	52.53	7.57	7.935 CC, ES		
300.00	299.98	299.27	299.25	3.35	3.35	100.40	-60.69	1.89	61.01	53.36	7.66	7.968		
400.00	399.84	398.49	398.33	3.42	3.41	100.59	-62.45	6.74	63.75	55.97	7.78	8.192		
500.00	499.45	497.61	497.08	3.51	3.50	100.87	-65.38	14.79	68.31	60.36	7.96	8.585		
600.00	598.73	603.35	595.39	3.62	3.62	101.06	-69.47	26.03	74.64	66.44	8.20	9.104		
700.00	697.94	703.59	694.22	3.77	3.77	100.75	-74.11	38.76	81.59	73.10	8.49	9.611		
800.00	797.14	803.83	793.05	3.94	3.95	100.48	-78.74	51.48	88.55	79.72	8.83	10.030		
900.00	896.34	904.08	891.89	4.13	4.14	100.26	-83.37	64.20	95.51	86.30	9.21	10.371		
1,000.00	995.55	995.68	990.72	4.33	4.34	100.06	-88.00	76.92	102.47	92.86	9.61	10.666		
1,100.00	1,094.75	1,104.56	1,089.56	4.55	4.60	99.89	-92.63	89.64	109.43	99.35	10.07	10.864		
1,200.00	1,193.95	1,204.81	1,188.39	4.79	4.84	99.75	-97.26	102.37	116.39	105.84	10.55	11.036		
1,300.00	1,293.15	1,305.05	1,287.22	5.04	5.10	99.61	-101.89	115.09	123.35	112.30	11.04	11.171		
1,400.00	1,392.36	1,405.29	1,386.06	5.29	5.37	99.49	-106.52	127.81	130.31	118.75	11.56	11.274		
1,500.00	1,491.56	1,494.46	1,484.89	5.56	5.62	99.39	-111.15	140.53	137.27	125.21	12.06	11.381		
1,600.00	1,590.76	1,605.78	1,583.73	5.83	5.94	99.29	-115.78	153.25	144.23	131.59	12.64	11.412		
1,700.00	1,689.96	1,706.02	1,682.56	6.11	6.23	99.21	-120.41	165.98	151.20	138.00	13.20	11.455		
1,800.00	1,789.17	1,806.26	1,781.40	6.39	6.52	99.13	-125.04	178.70	158.16	144.40	13.76	11.493		
1,900.00	1,888.37	1,906.51	1,880.23	6.54	6.68	99.05	-129.67	191.42	165.12	151.44	13.68	12.071		
2,000.00	1,987.57	1,993.25	1,979.06	6.57	6.70	98.99	-134.30	204.14	172.09	158.35	13.73	12.531		
2,100.00	2,086.77	2,106.99	2,077.90	6.61	6.76	98.92	-138.93	216.87	179.05	165.23	13.83	12.951		
2,200.00	2,185.98	2,207.24	2,176.73	6.67	6.82	98.87	-143.56	229.59	186.01	172.07	13.94	13.343		
2,300.00	2,285.18	2,307.48	2,275.57	6.74	6.89	98.81	-148.19	242.31	192.98	178.89	14.08	13.701		
2,400.00	2,384.38	2,407.72	2,374.40	6.83	6.98	98.77	-152.82	255.03	199.94	185.69	14.26	14.026		
2,500.00	2,483.59	2,507.97	2,473.23	6.92	7.09	98.72	-157.45	267.75	206.91	192.46	14.45	14.317		
2,600.00	2,582.79	2,608.21	2,572.07	7.03	7.21	98.68	-162.08	280.48	213.87	199.20	14.67	14.575		
2,700.00	2,681.99	2,708.45	2,670.90	7.15	7.33	98.64	-166.71	293.20	220.84	205.92	14.92	14.803		
2,800.00	2,781.19	2,808.69	2,769.74	7.29	7.48	98.60	-171.34	305.92	227.80	212.62	15.19	15.000		
2,900.00	2,880.40	2,908.94	2,868.57	7.43	7.63	98.56	-175.98	318.64	234.77	219.29	15.48	15.170		
3,000.00	2,979.60	2,990.82	2,967.40	7.58	7.76	98.53	-180.61	331.36	241.73	225.98	15.76	15.343		
3,100.00	3,078.80	3,090.58	3,066.24	7.74	7.93	98.50	-185.24	344.09	248.70	232.62	16.08	15.465		
3,200.00	3,178.00	3,209.67	3,165.07	7.91	8.14	98.47	-189.87	356.81	255.66	239.20	16.46	15.533		
3,300.00	3,277.21	3,309.91	3,263.91	8.09	8.33	98.44	-194.50	369.53	262.63	245.81	16.82	15.613		
3,400.00	3,376.41	3,389.85	3,362.74	8.28	8.49	98.41	-199.13	382.25	269.59	252.43	17.16	15.711		
3,500.00	3,475.61	3,489.61	3,461.57	8.48	8.69	98.39	-203.76	394.97	276.56	259.01	17.55	15.758		
3,600.00	3,574.82	3,589.36	3,560.41	8.68	8.90	98.36	-208.39	407.70	283.53	265.57	17.95	15.792		
3,700.00	3,674.02	3,689.12	3,659.24	8.88	9.11	98.34	-213.02	420.42	290.49	272.12	18.37	15.814		
3,800.00	3,773.22	3,788.88	3,758.08	9.10	9.33	98.32	-217.65	433.14	297.46	278.66	18.80	15.824		
3,900.00	3,872.42	3,888.63	3,856.91	9.32	9.56	98.30	-222.28	445.86	304.42	285.19	19.24	15.825		
4,000.00	3,971.63	3,988.39	3,955.74	9.54	9.79	98.28	-226.91	458.59	311.39	291.70	19.69	15.818		
4,100.00	4,070.83	4,088.15	4,054.58	9.77	10.03	98.26	-231.54	471.31	318.35	298.21	20.14	15.804		
4,200.00	4,170.03	4,187.90	4,153.41	10.00	10.27	98.24	-236.17	484.03	325.32	304.71	20.61	15.784		
4,300.00	4,269.23	4,287.66	4,252.25	10.24	10.52	98.22	-240.80	496.75	332.29	311.20	21.09	15.758		
4,400.00	4,368.44	4,387.42	4,351.08	10.48	10.77	98.21	-245.43	509.47	339.25	317.68	21.57	15.728		
4,500.00	4,467.64	4,487.18	4,449.92	10.72	11.02	98.19	-250.06	522.20	346.22	324.16	22.06	15.694		
4,600.00	4,566.84	4,586.93	4,548.75	10.97	11.28	98.17	-254.69	534.92	353.18	330.63	22.56	15.657		
4,700.00	4,666.05	4,686.69	4,647.58	11.22	11.54	98.16	-259.32	547.64	360.15	337.09	23.06	15.618		
4,800.00	4,765.25	4,786.45	4,746.42	11.47	11.80	98.14	-263.95	560.36	367.12	343.55	23.57	15.576		
4,900.00	4,864.45	4,886.20	4,845.25	11.73	12.07	98.13	-268.58	573.08	374.08	350.00	24.08	15.533		
5,000.00	4,963.65	4,985.96	4,944.09	11.99	12.33	98.12	-273.22	585.81	381.05	356.44	24.60	15.488		
5,100.00	5,062.86	5,085.72	5,042.92	12.25	12.60	98.10	-277.85	598.53	388.01	362.89	25.13	15.442		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,185.48	5,141.75	12.51	12.88	98.09	-282.48	611.25	394.98	369.32	25.66	15.395		
5,300.00	5,261.26	5,285.23	5,240.59	12.78	13.15	98.08	-287.11	623.97	401.95	375.76	26.19	15.348		
5,400.00	5,360.46	5,384.99	5,339.42	13.05	13.43	98.07	-291.74	636.70	408.91	382.18	26.73	15.300		
5,500.00	5,459.67	5,484.75	5,438.26	13.32	13.71	98.06	-296.37	649.42	415.88	388.61	27.27	15.252		
5,600.00	5,558.87	5,584.50	5,537.09	13.59	13.99	98.05	-301.00	662.14	422.84	395.03	27.81	15.204		
5,700.00	5,658.07	5,684.26	5,635.92	13.86	14.27	98.04	-305.63	674.86	429.81	401.45	28.36	15.156		
5,800.00	5,757.27	5,784.02	5,734.76	14.13	14.55	98.03	-310.26	687.58	436.78	407.87	28.91	15.109		
5,900.00	5,856.48	5,883.77	5,833.59	14.41	14.84	98.02	-314.89	700.31	443.74	414.28	29.46	15.061		
6,000.00	5,955.68	5,983.53	5,932.43	14.69	15.13	98.01	-319.52	713.03	450.71	420.69	30.02	15.014		
6,100.00	6,054.88	6,083.29	6,031.26	14.97	15.41	98.00	-324.15	725.75	457.67	427.10	30.58	14.968		
6,200.00	6,154.09	6,183.05	6,130.09	15.25	15.70	97.99	-328.78	738.47	464.64	433.50	31.14	14.922		
6,300.00	6,253.29	6,282.80	6,228.93	15.53	15.99	97.98	-333.41	751.19	471.61	439.90	31.70	14.876		
6,400.00	6,352.49	6,382.56	6,327.76	15.81	16.29	97.97	-338.04	763.92	478.57	446.31	32.27	14.831		
6,500.00	6,451.69	6,484.66	6,429.50	16.09	16.48	98.87	-342.79	769.27	485.29	452.52	32.77	14.809		
6,600.00	6,550.93	6,582.19	6,526.30	16.37	16.60	104.68	-347.26	759.15	492.18	458.96	33.22	14.817		
6,700.00	6,650.78	6,674.93	6,615.90	16.54	16.67	-106.54	-351.37	735.90	500.41	466.92	33.49	14.942		
6,800.00	6,749.67	6,764.50	6,698.36	16.66	16.71	-88.47	-355.11	701.32	509.74	476.11	33.63	15.158		
6,900.00	6,845.16	6,851.41	6,772.98	16.73	16.72	-82.88	-358.46	657.01	519.67	486.01	33.66	15.437		
7,000.00	6,934.90	6,936.13	6,839.26	16.77	16.73	-79.13	-361.40	604.43	529.69	496.06	33.63	15.750		
7,100.00	7,016.67	7,019.05	6,896.83	16.79	16.75	-76.22	-363.92	544.88	539.28	505.70	33.58	16.059		
7,200.00	7,088.47	7,100.52	6,945.40	16.84	16.78	-73.90	-366.00	479.57	548.00	514.43	33.58	16.322		
7,300.00	7,148.53	7,180.87	6,984.75	16.95	16.86	-72.10	-367.64	409.60	555.47	521.79	33.68	16.493		
7,400.00	7,195.36	7,260.37	7,014.73	17.14	16.99	-70.76	-368.84	336.04	561.35	527.41	33.94	16.540		
7,500.00	7,227.82	7,339.27	7,035.20	17.43	17.19	-69.88	-369.58	259.89	565.42	531.02	34.39	16.439		
7,600.00	7,245.11	7,417.83	7,046.09	17.83	17.48	-69.43	-369.88	182.14	567.50	532.45	35.06	16.189		
7,700.00	7,248.02	7,504.28	7,048.00	18.33	17.88	-69.37	-369.74	95.74	567.72	531.77	35.95	15.790		
7,800.00	7,248.07	7,604.28	7,048.01	18.96	18.49	-69.36	-369.47	-4.26	567.63	530.46	37.16	15.274		
7,900.00	7,248.13	7,704.28	7,048.03	19.71	19.24	-69.35	-369.20	-104.26	567.53	528.92	38.61	14.699		
8,000.00	7,248.18	7,804.28	7,048.04	20.57	20.11	-69.35	-368.93	-204.26	567.43	527.17	40.26	14.096		
8,100.00	7,248.23	7,904.28	7,048.05	21.52	21.08	-69.34	-368.66	-304.26	567.33	525.25	42.08	13.483		
8,200.00	7,248.28	8,004.28	7,048.07	22.56	22.14	-69.33	-368.40	-404.26	567.23	523.17	44.06	12.874		
8,300.00	7,248.33	8,104.28	7,048.08	23.67	23.27	-69.32	-368.13	-504.26	567.13	520.95	46.18	12.281		
8,400.00	7,248.38	8,204.28	7,048.09	24.84	24.46	-69.31	-367.86	-604.26	567.03	518.61	48.41	11.712		
8,500.00	7,248.43	8,304.28	7,048.10	26.07	25.70	-69.31	-367.59	-704.26	566.93	516.18	50.75	11.171		
8,600.00	7,248.48	8,404.28	7,048.12	27.35	27.00	-69.30	-367.32	-804.26	566.83	513.65	53.18	10.660		
8,700.00	7,248.54	8,504.28	7,048.13	28.66	28.33	-69.29	-367.05	-904.26	566.73	511.05	55.68	10.179		
8,800.00	7,248.59	8,604.28	7,048.14	30.01	29.69	-69.28	-366.78	-1,004.26	566.63	508.38	58.25	9.728		
8,900.00	7,248.64	8,704.28	7,048.16	31.40	31.09	-69.28	-366.52	-1,104.26	566.53	505.66	60.87	9.307		
9,000.00	7,248.69	8,804.28	7,048.17	32.80	32.51	-69.27	-366.25	-1,204.25	566.43	502.88	63.55	8.913		
9,100.00	7,248.74	8,904.28	7,048.18	34.24	33.95	-69.26	-365.98	-1,304.25	566.33	500.05	66.28	8.545		
9,200.00	7,248.79	9,004.28	7,048.19	35.69	35.42	-69.25	-365.71	-1,404.25	566.23	497.19	69.04	8.202		
9,300.00	7,248.84	9,104.28	7,048.21	37.16	36.90	-69.24	-365.44	-1,504.25	566.13	494.30	71.83	7.881		
9,400.00	7,248.89	9,204.28	7,048.22	38.65	38.40	-69.24	-365.17	-1,604.25	566.03	491.37	74.66	7.581		
9,500.00	7,248.94	9,304.28	7,048.23	40.15	39.91	-69.23	-364.90	-1,704.25	565.93	488.42	77.51	7.301		
9,600.00	7,249.00	9,404.28	7,048.25	41.67	41.43	-69.22	-364.64	-1,804.25	565.83	485.44	80.39	7.038		
9,700.00	7,249.05	9,504.28	7,048.26	43.20	42.97	-69.21	-364.37	-1,904.25	565.73	482.44	83.29	6.792		
9,800.00	7,249.10	9,604.28	7,048.27	44.73	44.51	-69.20	-364.10	-2,004.25	565.63	479.42	86.21	6.561		
9,900.00	7,249.15	9,704.28	7,048.28	46.28	46.07	-69.20	-363.83	-2,104.25	565.53	476.38	89.15	6.343		
10,000.00	7,249.20	9,804.28	7,048.30	47.84	47.63	-69.19	-363.56	-2,204.25	565.43	473.33	92.11	6.139		
10,100.00	7,249.25	9,904.28	7,048.31	49.40	49.19	-69.18	-363.29	-2,304.25	565.33	470.26	95.07	5.946		
10,200.00	7,249.30	10,004.28	7,048.32	50.97	50.77	-69.17	-363.03	-2,404.25	565.23	467.18	98.05	5.765		
10,300.00	7,249.35	10,104.28	7,048.34	52.55	52.35	-69.16	-362.76	-2,504.25	565.14	464.09	101.05	5.593		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,249.41	10,204.28	7,048.35	54.13	53.94	-69.16	-362.49	-2,604.25	565.04	460.99	104.05	5.430		
10,500.00	7,249.46	10,304.28	7,048.36	55.71	55.53	-69.15	-362.22	-2,704.25	564.94	457.87	107.06	5.277		
10,600.00	7,249.51	10,404.28	7,048.37	57.31	57.13	-69.14	-361.95	-2,804.25	564.84	454.75	110.09	5.131		
10,700.00	7,249.56	10,504.28	7,048.39	58.90	58.73	-69.13	-361.68	-2,904.25	564.74	451.62	113.12	4.993		
10,800.00	7,249.61	10,604.28	7,048.40	60.50	60.33	-69.12	-361.41	-3,004.25	564.64	448.48	116.15	4.861		
10,900.00	7,249.66	10,704.28	7,048.41	62.11	61.94	-69.12	-361.15	-3,104.25	564.54	445.34	119.20	4.736		
11,000.00	7,249.71	10,804.28	7,048.43	63.72	63.55	-69.11	-360.88	-3,204.25	564.44	442.19	122.25	4.617		
11,100.00	7,249.76	10,904.28	7,048.44	65.33	65.16	-69.10	-360.61	-3,304.25	564.34	439.03	125.31	4.504		
11,200.00	7,249.82	11,004.28	7,048.45	66.94	66.78	-69.09	-360.34	-3,404.24	564.24	435.87	128.37	4.395		
11,300.00	7,249.87	11,104.28	7,048.46	68.56	68.40	-69.08	-360.07	-3,504.24	564.14	432.70	131.44	4.292		
11,400.00	7,249.92	11,204.28	7,048.48	70.18	70.02	-69.08	-359.80	-3,604.24	564.04	429.53	134.51	4.193		
11,500.00	7,249.97	11,304.28	7,048.49	71.80	71.65	-69.07	-359.53	-3,704.24	563.94	426.35	137.59	4.099		
11,600.00	7,250.02	11,404.28	7,048.50	73.42	73.27	-69.06	-359.27	-3,804.24	563.84	423.17	140.67	4.008		
11,700.00	7,250.07	11,504.28	7,048.52	75.05	74.90	-69.05	-359.00	-3,904.24	563.74	419.99	143.76	3.922		
11,800.00	7,250.12	11,604.28	7,048.53	76.68	76.53	-69.04	-358.73	-4,004.24	563.64	416.80	146.84	3.838		
11,900.00	7,250.17	11,704.28	7,048.54	78.31	78.16	-69.04	-358.46	-4,104.24	563.54	413.61	149.94	3.759		
12,000.00	7,250.22	11,804.28	7,048.55	79.94	79.80	-69.03	-358.19	-4,204.24	563.45	410.41	153.03	3.682		
12,100.00	7,250.28	11,904.28	7,048.57	81.57	81.43	-69.02	-357.92	-4,304.24	563.35	407.22	156.13	3.608		
12,200.00	7,250.33	12,004.28	7,048.58	83.21	83.07	-69.01	-357.66	-4,404.24	563.25	404.02	159.23	3.537		
12,300.00	7,250.38	12,104.28	7,048.59	84.84	84.71	-69.00	-357.39	-4,504.24	563.15	400.81	162.33	3.469		
12,400.00	7,250.43	12,204.28	7,048.61	86.48	86.35	-69.00	-357.12	-4,604.24	563.05	397.61	165.44	3.403		
12,500.00	7,250.48	12,304.28	7,048.62	88.12	87.99	-68.99	-356.85	-4,704.24	562.95	394.40	168.55	3.340		
12,600.00	7,250.53	12,404.28	7,048.63	89.76	89.63	-68.98	-356.58	-4,804.24	562.85	391.19	171.66	3.279		
12,700.00	7,250.58	12,504.28	7,048.64	91.40	91.27	-68.97	-356.31	-4,904.24	562.75	387.98	174.77	3.220		
12,800.00	7,250.63	12,604.28	7,048.66	93.04	92.92	-68.96	-356.04	-5,004.24	562.65	384.77	177.88	3.163		
12,900.00	7,250.69	12,704.28	7,048.67	94.68	94.56	-68.95	-355.78	-5,104.24	562.55	381.55	181.00	3.108		
13,000.00	7,250.74	12,804.28	7,048.68	96.33	96.21	-68.95	-355.51	-5,204.24	562.45	378.34	184.11	3.055		
13,100.00	7,250.79	12,904.28	7,048.70	97.97	97.86	-68.94	-355.24	-5,304.24	562.35	375.12	187.23	3.003		
13,200.00	7,250.84	13,004.28	7,048.71	99.62	99.50	-68.93	-354.97	-5,404.24	562.26	371.90	190.35	2.954		
13,300.00	7,250.89	13,104.28	7,048.72	101.27	101.15	-68.92	-354.70	-5,504.24	562.16	368.68	193.48	2.906		
13,400.00	7,250.94	13,204.28	7,048.73	102.92	102.80	-68.91	-354.43	-5,604.24	562.06	365.46	196.60	2.859		
13,500.00	7,250.99	13,304.28	7,048.75	104.56	104.45	-68.91	-354.16	-5,704.23	561.96	362.24	199.72	2.814		
13,600.00	7,251.04	13,404.28	7,048.76	106.21	106.10	-68.90	-353.90	-5,804.23	561.86	359.01	202.85	2.770		
13,700.00	7,251.09	13,504.28	7,048.77	107.86	107.75	-68.89	-353.63	-5,904.23	561.76	355.79	205.97	2.727		
13,800.00	7,251.15	13,604.28	7,048.79	109.51	109.40	-68.88	-353.36	-6,004.23	561.66	352.56	209.10	2.686		
13,900.00	7,251.20	13,704.28	7,048.80	111.16	111.06	-68.87	-353.09	-6,104.23	561.56	349.33	212.23	2.646		
14,000.00	7,251.25	13,804.28	7,048.81	112.82	112.71	-68.87	-352.82	-6,204.23	561.46	346.10	215.36	2.607		
14,100.00	7,251.30	13,904.27	7,048.82	114.47	114.36	-68.86	-352.55	-6,304.23	561.36	342.87	218.49	2.569		
14,200.00	7,251.35	14,004.27	7,048.84	116.12	116.02	-68.85	-352.29	-6,404.23	561.26	339.64	221.62	2.533		
14,300.00	7,251.40	14,104.27	7,048.85	117.78	117.67	-68.84	-352.02	-6,504.23	561.17	336.41	224.75	2.497		
14,400.00	7,251.45	14,204.27	7,048.86	119.43	119.33	-68.83	-351.75	-6,604.23	561.07	333.18	227.88	2.462		
14,500.00	7,251.50	14,304.27	7,048.88	121.08	120.98	-68.83	-351.48	-6,704.23	560.97	329.95	231.02	2.428		
14,600.00	7,251.56	14,404.27	7,048.89	122.74	122.64	-68.82	-351.21	-6,804.23	560.87	326.72	234.15	2.395		
14,700.00	7,251.61	14,504.27	7,048.90	124.40	124.29	-68.81	-350.94	-6,904.23	560.77	323.48	237.29	2.363		
14,800.00	7,251.66	14,604.27	7,048.91	126.05	125.95	-68.80	-350.67	-7,004.23	560.67	320.25	240.42	2.332		
14,900.00	7,251.71	14,704.27	7,048.93	127.71	127.61	-68.79	-350.41	-7,104.23	560.57	317.02	243.56	2.302		
15,000.00	7,251.76	14,804.27	7,048.94	129.36	129.27	-68.78	-350.14	-7,204.23	560.47	313.78	246.69	2.272		
15,100.00	7,251.81	14,904.27	7,048.95	131.02	130.92	-68.78	-349.87	-7,304.23	560.37	310.54	249.83	2.243		
15,200.00	7,251.86	15,004.27	7,048.97	132.68	132.58	-68.77	-349.60	-7,404.23	560.27	307.31	252.97	2.215		
15,300.00	7,251.91	15,104.27	7,048.98	134.34	134.24	-68.76	-349.33	-7,504.23	560.18	304.07	256.10	2.187		
15,400.00	7,251.96	15,204.27	7,048.99	135.99	135.90	-68.75	-349.06	-7,604.23	560.08	300.84	259.24	2.160		
15,468.95	7,252.00	15,273.23	7,049.00	137.14	137.04	-68.75	-348.88	-7,673.18	560.01	298.60	261.40	2.142 SF		

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Anticollision Report

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

Hewlett-Packard

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	180.00	-20.03	0.00	20.03					
100.00	100.00	100.00	100.00	3.28	3.28	180.00	-20.03	0.00	20.03	12.50	7.53	2.660		
200.00	200.00	200.00	200.00	3.31	3.31	180.00	-20.03	0.00	20.03	12.45	7.57	2.644	CC, ES	
300.00	299.98	299.97	299.95	3.35	3.35	100.51	-20.10	1.74	20.43	12.77	7.66	2.667		
400.00	399.84	399.93	399.76	3.42	3.41	100.28	-20.33	6.97	21.62	13.83	7.79	2.776		
500.00	499.45	499.87	499.32	3.51	3.50	99.93	-20.71	15.66	23.60	15.64	7.97	2.963		
600.00	598.73	600.20	598.54	3.62	3.62	99.59	-21.23	27.57	26.32	18.12	8.20	3.208		
700.00	697.94	700.24	697.70	3.77	3.77	99.35	-21.78	40.12	29.19	20.69	8.49	3.436		
800.00	797.14	800.28	796.87	3.94	3.93	99.16	-22.33	52.67	32.06	23.22	8.83	3.630		
900.00	896.34	900.32	896.04	4.13	4.12	98.99	-22.88	65.22	34.93	25.72	9.21	3.792		
1,000.00	995.55	1,000.37	995.20	4.33	4.33	98.86	-23.42	77.77	37.80	28.17	9.62	3.927		
1,100.00	1,094.75	1,100.41	1,094.37	4.55	4.56	98.74	-23.97	90.32	40.67	30.60	10.07	4.039		
1,200.00	1,193.95	1,200.45	1,193.53	4.79	4.79	98.64	-24.52	102.87	43.54	33.00	10.54	4.131		
1,300.00	1,293.15	1,300.49	1,292.70	5.04	5.04	98.55	-25.07	115.42	46.41	35.38	11.03	4.207		
1,400.00	1,392.36	1,400.53	1,391.87	5.29	5.30	98.47	-25.62	127.97	49.28	37.73	11.54	4.269		
1,500.00	1,491.56	1,500.57	1,491.03	5.56	5.56	98.40	-26.16	140.52	52.15	40.07	12.07	4.320		
1,600.00	1,590.76	1,600.61	1,590.20	5.83	5.84	98.34	-26.71	153.07	55.02	42.40	12.62	4.361		
1,700.00	1,689.96	1,700.65	1,689.37	6.11	6.12	98.28	-27.26	165.62	57.89	44.72	13.17	4.395		
1,800.00	1,789.17	1,800.69	1,788.53	6.39	6.40	98.23	-27.81	178.18	60.76	47.02	13.74	4.423		
1,900.00	1,888.37	1,900.74	1,887.70	6.54	6.55	98.18	-28.36	190.73	63.63	49.97	13.66	4.658		
2,000.00	1,987.57	2,000.78	1,986.86	6.57	6.58	98.14	-28.90	203.28	66.50	52.78	13.72	4.848		
2,100.00	2,086.77	2,100.82	2,086.03	6.61	6.63	98.10	-29.45	215.83	69.37	55.57	13.80	5.025		
2,200.00	2,185.98	2,200.86	2,185.20	6.67	6.68	98.06	-30.00	228.38	72.24	58.32	13.92	5.191		
2,300.00	2,285.18	2,300.90	2,284.36	6.74	6.76	98.03	-30.55	240.93	75.11	61.05	14.06	5.342		
2,400.00	2,384.38	2,400.94	2,383.53	6.83	6.84	98.00	-31.10	253.48	77.98	63.75	14.23	5.481		
2,500.00	2,483.59	2,500.98	2,482.70	6.92	6.94	97.97	-31.64	266.03	80.85	66.43	14.42	5.606		
2,600.00	2,582.79	2,601.02	2,581.86	7.03	7.05	97.94	-32.19	278.58	83.72	69.08	14.64	5.718		
2,700.00	2,681.99	2,701.07	2,681.03	7.15	7.17	97.92	-32.74	291.13	86.60	71.71	14.88	5.818		
2,800.00	2,781.19	2,801.11	2,780.19	7.29	7.30	97.89	-33.29	303.68	89.47	74.32	15.15	5.906		
2,900.00	2,880.40	2,901.15	2,879.36	7.43	7.45	97.87	-33.84	316.23	92.34	76.90	15.43	5.983		
3,000.00	2,979.60	3,001.19	2,978.53	7.58	7.60	97.85	-34.38	328.78	95.21	79.47	15.74	6.049		
3,100.00	3,078.80	3,101.23	3,077.69	7.74	7.77	97.83	-34.93	341.34	98.08	82.01	16.06	6.105		
3,200.00	3,178.00	3,201.27	3,176.86	7.91	7.94	97.81	-35.48	353.89	100.95	84.54	16.41	6.153		
3,300.00	3,277.21	3,301.31	3,276.02	8.09	8.12	97.80	-36.03	366.44	103.82	87.06	16.77	6.192		
3,400.00	3,376.41	3,401.35	3,375.19	8.28	8.31	97.78	-36.58	378.99	106.69	89.55	17.14	6.225		
3,500.00	3,475.61	3,501.40	3,474.36	8.48	8.50	97.77	-37.12	391.54	109.56	92.03	17.53	6.251		
3,600.00	3,574.82	3,601.44	3,573.52	8.68	8.71	97.75	-37.67	404.09	112.43	94.50	17.93	6.271		
3,700.00	3,674.02	3,701.48	3,672.69	8.88	8.92	97.74	-38.22	416.64	115.31	96.96	18.35	6.285		
3,800.00	3,773.22	3,801.52	3,771.86	9.10	9.13	97.72	-38.77	429.19	118.18	99.40	18.77	6.296		
3,900.00	3,872.42	3,901.56	3,871.02	9.32	9.35	97.71	-39.31	441.74	121.05	101.84	19.21	6.302		
4,000.00	3,971.63	4,001.60	3,970.19	9.54	9.58	97.70	-39.86	454.29	123.92	104.26	19.66	6.304		
4,100.00	4,070.83	4,101.64	4,069.35	9.77	9.81	97.69	-40.41	466.84	126.79	106.68	20.11	6.304		
4,200.00	4,170.03	4,201.68	4,168.52	10.00	10.04	97.68	-40.96	479.39	129.66	109.08	20.58	6.301		
4,300.00	4,269.23	4,301.73	4,267.69	10.24	10.28	97.67	-41.51	491.95	132.53	111.48	21.05	6.296		
4,400.00	4,368.44	4,401.77	4,366.85	10.48	10.52	97.66	-42.05	504.50	135.40	113.87	21.53	6.288		
4,500.00	4,467.64	4,501.81	4,466.02	10.72	10.77	97.65	-42.60	517.05	138.27	116.25	22.02	6.279		
4,600.00	4,566.84	4,601.85	4,565.19	10.97	11.02	97.64	-43.15	529.60	141.14	118.63	22.52	6.269		
4,700.00	4,666.05	4,701.89	4,664.35	11.22	11.27	97.63	-43.70	542.15	144.02	121.00	23.02	6.257		
4,800.00	4,765.25	4,801.93	4,763.52	11.47	11.53	97.62	-44.25	554.70	146.89	123.36	23.52	6.244		
4,900.00	4,864.45	4,901.97	4,862.68	11.73	11.79	97.61	-44.79	567.25	149.76	125.72	24.04	6.230		
5,000.00	4,963.65	5,002.01	4,961.85	11.99	12.05	97.60	-45.34	579.80	152.63	128.07	24.55	6.216		
5,100.00	5,062.86	5,102.06	5,061.02	12.25	12.31	97.60	-45.89	592.35	155.50	130.42	25.08	6.201		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,202.10	5,160.18	12.51	12.58	97.59	-46.44	604.90	158.37	132.77	25.60	6.186		
5,300.00	5,261.26	5,302.14	5,259.35	12.78	12.84	97.58	-46.99	617.45	161.24	135.11	26.13	6.170		
5,400.00	5,360.46	5,402.18	5,358.51	13.05	13.11	97.57	-47.53	630.00	164.11	137.44	26.67	6.154		
5,500.00	5,459.67	5,502.22	5,457.68	13.32	13.39	97.57	-48.08	642.56	166.98	139.78	27.21	6.138		
5,600.00	5,558.87	5,602.26	5,556.85	13.59	13.66	97.56	-48.63	655.11	169.85	142.11	27.75	6.121		
5,700.00	5,658.07	5,702.30	5,656.01	13.86	13.93	97.56	-49.18	667.66	172.73	144.43	28.29	6.105		
5,800.00	5,757.27	5,802.34	5,755.18	14.13	14.21	97.55	-49.73	680.21	175.60	146.76	28.84	6.088		
5,900.00	5,856.48	5,902.39	5,854.35	14.41	14.49	97.54	-50.27	692.76	178.47	149.08	29.39	6.072		
6,000.00	5,955.68	6,002.43	5,953.51	14.69	14.77	97.54	-50.82	705.31	181.34	151.39	29.95	6.055		
6,100.00	6,054.88	6,102.47	6,052.68	14.97	15.05	97.53	-51.37	717.86	184.21	153.71	30.50	6.039		
6,200.00	6,154.09	6,202.51	6,151.84	15.25	15.33	97.53	-51.92	730.41	187.08	156.02	31.06	6.023		
6,300.00	6,253.29	6,302.55	6,251.01	15.53	15.61	97.52	-52.47	742.96	189.95	158.33	31.62	6.007		
6,400.00	6,352.49	6,402.59	6,350.18	15.81	15.90	97.52	-53.01	755.51	192.82	160.64	32.19	5.991		
6,500.00	6,451.69	6,497.37	6,449.34	16.09	16.17	97.51	-53.56	768.06	195.69	162.96	32.74	5.978		
6,600.00	6,550.93	6,597.05	6,548.79	16.37	16.37	102.75	-54.39	773.17	198.60	165.36	33.24	5.975		
6,700.00	6,650.78	6,694.67	6,645.78	16.54	16.49	-108.36	-55.74	763.09	202.52	168.97	33.56	6.035		
6,800.00	6,749.67	6,790.55	6,738.45	16.66	16.56	-90.18	-57.57	738.89	207.63	173.89	33.73	6.155		
6,900.00	6,845.16	6,884.89	6,825.06	16.73	16.60	-84.53	-59.82	701.78	213.63	179.85	33.79	6.323		
7,000.00	6,934.90	6,977.87	6,904.13	16.77	16.62	-80.78	-62.41	653.09	220.23	186.47	33.76	6.524		
7,100.00	7,016.67	7,069.69	6,974.44	16.79	16.64	-77.93	-65.28	594.23	227.09	193.40	33.69	6.740		
7,200.00	7,088.47	7,160.55	7,034.96	16.84	16.69	-75.72	-68.38	526.63	233.90	200.24	33.66	6.949		
7,300.00	7,148.53	7,250.66	7,084.86	16.95	16.79	-74.07	-71.63	451.76	240.41	206.67	33.74	7.126		
7,400.00	7,195.36	7,340.22	7,123.50	17.14	16.96	-72.90	-74.98	371.12	246.37	212.37	33.99	7.248		
7,500.00	7,227.82	7,429.41	7,150.35	17.43	17.21	-72.19	-78.37	286.21	251.59	217.13	34.46	7.301		
7,600.00	7,245.11	7,518.45	7,165.06	17.83	17.54	-71.90	-81.74	198.53	255.95	220.80	35.15	7.281		
7,700.00	7,248.02	7,611.03	7,168.06	18.33	17.99	-72.04	-85.16	106.11	259.53	223.45	36.08	7.193		
7,800.00	7,248.07	7,710.96	7,168.24	18.96	18.60	-72.33	-88.83	6.25	263.13	225.83	37.29	7.056		
7,900.00	7,248.13	7,810.89	7,168.42	19.71	19.33	-72.60	-92.49	-93.61	266.73	227.99	38.74	6.885		
8,000.00	7,248.18	7,910.81	7,168.60	20.57	20.18	-72.87	-96.16	-193.47	270.33	229.93	40.40	6.691		
8,100.00	7,248.23	8,010.74	7,168.78	21.52	21.13	-73.13	-99.83	-293.33	273.95	231.69	42.25	6.484		
8,200.00	7,248.28	8,110.67	7,168.95	22.56	22.16	-73.38	-103.49	-393.19	277.56	233.30	44.27	6.270		
8,300.00	7,248.33	8,210.59	7,169.13	23.67	23.27	-73.63	-107.16	-493.05	281.19	234.76	46.43	6.056		
8,400.00	7,248.38	8,310.52	7,169.31	24.84	24.44	-73.87	-110.83	-592.91	284.81	236.10	48.72	5.846		
8,500.00	7,248.43	8,410.45	7,169.49	26.07	25.67	-74.11	-114.49	-692.77	288.45	237.33	51.11	5.643		
8,600.00	7,248.48	8,510.37	7,169.67	27.35	26.94	-74.34	-118.16	-792.63	292.09	238.48	53.61	5.449		
8,700.00	7,248.54	8,610.30	7,169.85	28.66	28.25	-74.56	-121.82	-892.49	295.73	239.54	56.18	5.263		
8,800.00	7,248.59	8,710.23	7,170.03	30.01	29.60	-74.78	-125.49	-992.35	299.37	240.54	58.83	5.088		
8,900.00	7,248.64	8,810.16	7,170.21	31.40	30.99	-74.99	-129.16	-1,092.21	303.03	241.48	61.55	4.923		
9,000.00	7,248.69	8,910.08	7,170.39	32.80	32.39	-75.20	-132.82	-1,192.07	306.68	242.36	64.32	4.768		
9,100.00	7,248.74	9,010.01	7,170.57	34.24	33.82	-75.40	-136.49	-1,291.93	310.34	243.20	67.14	4.623		
9,200.00	7,248.79	9,109.94	7,170.75	35.69	35.28	-75.60	-140.16	-1,391.79	314.00	244.00	70.00	4.486		
9,300.00	7,248.84	9,209.86	7,170.93	37.16	36.75	-75.79	-143.82	-1,491.65	317.67	244.77	72.90	4.358		
9,400.00	7,248.89	9,309.79	7,171.11	38.65	38.23	-75.98	-147.49	-1,591.51	321.34	245.50	75.84	4.237		
9,500.00	7,248.94	9,409.72	7,171.28	40.15	39.73	-76.17	-151.15	-1,691.37	325.01	246.21	78.80	4.124		
9,600.00	7,249.00	9,509.65	7,171.46	41.67	41.25	-76.35	-154.82	-1,791.23	328.69	246.89	81.80	4.018		
9,700.00	7,249.05	9,611.16	7,171.65	43.20	42.80	-76.53	-158.51	-1,892.67	332.34	247.49	84.84	3.917		
9,800.00	7,249.10	9,720.77	7,171.84	44.73	44.49	-76.62	-160.00	-2,002.26	333.75	245.74	88.00	3.792		
9,900.00	7,249.15	9,820.76	7,172.02	46.28	46.04	-76.65	-160.21	-2,102.26	334.06	243.02	91.04	3.669		
10,000.00	7,249.20	9,920.76	7,172.20	47.84	47.59	-76.69	-160.42	-2,202.26	334.38	240.29	94.10	3.554		
10,100.00	7,249.25	10,020.76	7,172.38	49.40	49.16	-76.72	-160.63	-2,302.26	334.70	237.53	97.17	3.445		
10,200.00	7,249.30	10,120.76	7,172.56	50.97	50.73	-76.76	-160.84	-2,402.26	335.02	234.77	100.25	3.342		
10,300.00	7,249.35	10,220.76	7,172.74	52.55	52.31	-76.79	-161.05	-2,502.26	335.34	231.99	103.35	3.245		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,249.41	10,320.76	7,172.92	54.13	53.90	-76.83	-161.26	-2,602.26	335.66	229.20	106.46	3.153		
10,500.00	7,249.46	10,420.76	7,173.10	55.71	55.48	-76.86	-161.47	-2,702.26	335.97	226.40	109.58	3.066		
10,600.00	7,249.51	10,520.76	7,173.28	57.31	57.08	-76.90	-161.68	-2,802.25	336.29	223.59	112.71	2.984		
10,700.00	7,249.56	10,620.76	7,173.45	58.90	58.68	-76.93	-161.89	-2,902.25	336.61	220.77	115.84	2.906		
10,800.00	7,249.61	10,720.76	7,173.63	60.50	60.28	-76.97	-162.10	-3,002.25	336.93	217.94	118.99	2.832		
10,900.00	7,249.66	10,820.76	7,173.81	62.11	61.88	-77.00	-162.31	-3,102.25	337.25	215.10	122.15	2.761		
11,000.00	7,249.71	10,920.76	7,173.99	63.72	63.49	-77.04	-162.52	-3,202.25	337.57	212.26	125.31	2.694		
11,100.00	7,249.76	11,020.76	7,174.17	65.33	65.11	-77.07	-162.73	-3,302.25	337.89	209.41	128.48	2.630		
11,200.00	7,249.82	11,120.76	7,174.35	66.94	66.72	-77.11	-162.94	-3,402.25	338.21	206.55	131.66	2.569		
11,300.00	7,249.87	11,220.75	7,174.53	68.56	68.34	-77.14	-163.15	-3,502.25	338.53	203.69	134.84	2.511		
11,400.00	7,249.92	11,320.75	7,174.71	70.18	69.96	-77.18	-163.36	-3,602.25	338.85	200.82	138.03	2.455		
11,500.00	7,249.97	11,420.75	7,174.89	71.80	71.58	-77.21	-163.57	-3,702.24	339.17	197.94	141.22	2.402		
11,600.00	7,250.02	11,520.75	7,175.07	73.42	73.21	-77.25	-163.78	-3,802.24	339.49	195.07	144.42	2.351		
11,700.00	7,250.07	11,620.75	7,175.25	75.05	74.83	-77.28	-163.99	-3,902.24	339.81	192.18	147.62	2.302		
11,800.00	7,250.12	11,720.75	7,175.43	76.68	76.46	-77.31	-164.20	-4,002.24	340.13	189.30	150.83	2.255		
11,900.00	7,250.17	11,820.75	7,175.60	78.31	78.09	-77.35	-164.40	-4,102.24	340.45	186.40	154.04	2.210		
12,000.00	7,250.22	11,920.75	7,175.78	79.94	79.73	-77.38	-164.61	-4,202.24	340.77	183.51	157.26	2.167		
12,100.00	7,250.28	12,020.75	7,175.96	81.57	81.36	-77.42	-164.82	-4,302.24	341.09	180.61	160.48	2.125		
12,200.00	7,250.33	12,120.75	7,176.14	83.21	82.99	-77.45	-165.03	-4,402.24	341.41	177.71	163.70	2.086		
12,300.00	7,250.38	12,220.75	7,176.32	84.84	84.63	-77.48	-165.24	-4,502.24	341.73	174.80	166.93	2.047		
12,400.00	7,250.43	12,320.75	7,176.50	86.48	86.27	-77.52	-165.45	-4,602.23	342.05	171.89	170.16	2.010		
12,500.00	7,250.48	12,420.75	7,176.68	88.12	87.91	-77.55	-165.66	-4,702.23	342.37	168.98	173.39	1.975		
12,600.00	7,250.53	12,520.75	7,176.86	89.76	89.55	-77.59	-165.87	-4,802.23	342.69	166.07	176.63	1.940		
12,700.00	7,250.58	12,620.74	7,177.04	91.40	91.19	-77.62	-166.08	-4,902.23	343.02	163.15	179.87	1.907		
12,800.00	7,250.63	12,720.74	7,177.22	93.04	92.83	-77.65	-166.29	-5,002.23	343.34	160.23	183.11	1.875		
12,900.00	7,250.69	12,820.74	7,177.40	94.68	94.48	-77.69	-166.50	-5,102.23	343.66	157.31	186.35	1.844		
13,000.00	7,250.74	12,920.74	7,177.58	96.33	96.12	-77.72	-166.71	-5,202.23	343.98	154.38	189.60	1.814		
13,100.00	7,250.79	13,020.74	7,177.76	97.97	97.77	-77.75	-166.92	-5,302.23	344.30	151.45	192.85	1.785		
13,200.00	7,250.84	13,120.74	7,177.93	99.62	99.41	-77.79	-167.13	-5,402.23	344.62	148.52	196.10	1.757		
13,300.00	7,250.89	13,220.74	7,178.11	101.27	101.06	-77.82	-167.34	-5,502.22	344.95	145.59	199.35	1.730		
13,400.00	7,250.94	13,320.74	7,178.29	102.92	102.71	-77.85	-167.55	-5,602.22	345.27	142.66	202.61	1.704		
13,500.00	7,250.99	13,420.74	7,178.47	104.56	104.36	-77.89	-167.76	-5,702.22	345.59	139.73	205.87	1.679		
13,600.00	7,251.04	13,520.74	7,178.65	106.21	106.01	-77.92	-167.97	-5,802.22	345.91	136.79	209.12	1.654		
13,700.00	7,251.09	13,620.74	7,178.83	107.86	107.66	-77.95	-168.18	-5,902.22	346.24	133.85	212.39	1.630		
13,800.00	7,251.15	13,720.74	7,179.01	109.51	109.31	-77.99	-168.39	-6,002.22	346.56	130.91	215.65	1.607		
13,900.00	7,251.20	13,820.74	7,179.19	111.16	110.96	-78.02	-168.60	-6,102.22	346.88	127.97	218.91	1.585		
14,000.00	7,251.25	13,920.74	7,179.37	112.82	112.61	-78.05	-168.81	-6,202.22	347.20	125.02	222.18	1.563		
14,100.00	7,251.30	14,020.73	7,179.55	114.47	114.27	-78.08	-169.02	-6,302.22	347.53	122.08	225.45	1.541		
14,200.00	7,251.35	14,120.73	7,179.73	116.12	115.92	-78.12	-169.23	-6,402.21	347.85	119.13	228.72	1.521		
14,300.00	7,251.40	14,220.73	7,179.91	117.78	117.57	-78.15	-169.44	-6,502.21	348.17	116.18	231.99	1.501		
14,400.00	7,251.45	14,320.73	7,180.08	119.43	119.23	-78.18	-169.65	-6,602.21	348.50	113.23	235.26	1.481 Level 3		
14,500.00	7,251.50	14,420.73	7,180.26	121.08	120.88	-78.22	-169.86	-6,702.21	348.82	110.28	238.54	1.462 Level 3		
14,600.00	7,251.56	14,520.73	7,180.44	122.74	122.54	-78.25	-170.07	-6,802.21	349.14	107.33	241.81	1.444 Level 3		
14,700.00	7,251.61	14,620.73	7,180.62	124.40	124.19	-78.28	-170.28	-6,902.21	349.47	104.38	245.09	1.426 Level 3		
14,800.00	7,251.66	14,720.73	7,180.80	126.05	125.85	-78.31	-170.49	-7,002.21	349.79	101.42	248.37	1.408 Level 3		
14,900.00	7,251.71	14,820.73	7,180.98	127.71	127.50	-78.35	-170.69	-7,102.21	350.11	98.47	251.65	1.391 Level 3		
15,000.00	7,251.76	14,920.73	7,181.16	129.36	129.16	-78.38	-170.90	-7,202.21	350.44	95.51	254.93	1.375 Level 3		
15,100.00	7,251.81	15,020.73	7,181.34	131.02	130.82	-78.41	-171.11	-7,302.20	350.76	92.55	258.21	1.358 Level 3		
15,200.00	7,251.86	15,120.73	7,181.52	132.68	132.48	-78.44	-171.32	-7,402.20	351.09	89.59	261.49	1.343 Level 3		
15,300.00	7,251.91	15,220.73	7,181.70	134.34	134.13	-78.47	-171.53	-7,502.20	351.41	86.63	264.78	1.327 Level 3		
15,400.00	7,251.96	15,320.73	7,181.88	135.99	135.79	-78.51	-171.74	-7,602.20	351.74	83.67	268.06	1.312 Level 3		
15,468.95	7,252.00	15,389.68	7,182.00	137.14	136.94	-78.53	-171.89	-7,671.15	351.96	81.63	270.33	1.302 Level 3, SF		

Hewlett-Packard

Anticollision Report

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

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.66	-139.89	0.84	139.89					
100.00	100.00	100.00	100.00	3.28	3.28	179.66	-139.89	0.84	139.89	132.36	7.53	18.581		
200.00	200.00	200.00	200.00	3.31	3.31	179.66	-139.89	0.84	139.89	132.32	7.57	18.470	CC, ES, SF	
300.00	299.98	296.16	296.14	3.35	3.34	100.51	-141.19	1.79	141.57	133.91	7.65	18.496		
400.00	399.84	392.13	391.98	3.42	3.40	101.23	-145.09	4.63	146.60	138.83	7.77	18.869		
500.00	499.45	487.72	487.24	3.51	3.48	102.33	-151.55	9.34	155.04	147.11	7.93	19.549		
600.00	598.73	582.78	581.64	3.62	3.58	103.66	-160.52	15.88	166.86	158.72	8.14	20.492		
700.00	697.94	677.29	675.09	3.77	3.72	104.48	-171.94	24.21	181.44	173.04	8.40	21.598		
800.00	797.14	771.11	767.34	3.94	3.90	104.58	-185.73	34.27	198.50	189.80	8.70	22.808		
900.00	896.34	868.34	862.52	4.13	4.12	104.29	-201.75	45.94	217.22	208.16	9.07	23.954		
1,000.00	995.55	966.55	958.66	4.33	4.37	104.03	-217.98	57.78	236.00	226.52	9.48	24.897		
1,100.00	1,094.75	1,064.77	1,054.80	4.55	4.65	103.81	-234.21	69.61	254.79	244.86	9.93	25.671		
1,200.00	1,193.95	1,162.98	1,150.94	4.79	4.96	103.62	-250.43	81.45	273.57	263.17	10.40	26.304		
1,300.00	1,293.15	1,261.20	1,247.08	5.04	5.27	103.46	-266.66	93.28	292.36	281.46	10.90	26.819		
1,400.00	1,392.36	1,359.41	1,343.22	5.29	5.61	103.31	-282.89	105.11	311.15	299.73	11.42	27.238		
1,500.00	1,491.56	1,457.63	1,439.36	5.56	5.95	103.18	-299.12	116.95	329.94	317.98	11.96	27.580		
1,600.00	1,590.76	1,555.85	1,535.50	5.83	6.31	103.07	-315.35	128.78	348.74	336.22	12.52	27.854		
1,700.00	1,689.96	1,654.06	1,631.64	6.11	6.67	102.96	-331.57	140.62	367.53	354.44	13.09	28.075		
1,800.00	1,789.17	1,752.28	1,727.78	6.39	7.04	102.87	-347.80	152.45	386.33	372.66	13.67	28.255		
1,900.00	1,888.37	1,850.49	1,823.92	6.54	7.33	102.78	-364.03	164.28	405.13	391.45	13.68	29.619		
2,000.00	1,987.57	1,948.71	1,920.06	6.57	7.46	102.71	-380.26	176.12	423.92	410.12	13.80	30.709		
2,100.00	2,086.77	2,046.92	2,016.20	6.61	7.51	102.64	-396.49	187.95	442.72	428.84	13.88	31.885		
2,200.00	2,185.98	2,145.14	2,112.34	6.67	7.59	102.57	-412.72	199.78	461.52	447.53	14.00	32.976		
2,300.00	2,285.18	2,243.36	2,208.48	6.74	7.68	102.51	-428.94	211.62	480.32	466.19	14.14	33.978		
2,400.00	2,384.38	2,341.57	2,304.62	6.83	7.79	102.46	-445.17	223.45	499.12	484.82	14.31	34.891		
2,500.00	2,483.59	2,439.79	2,400.76	6.92	7.91	102.41	-461.40	235.29	517.92	503.42	14.50	35.714		
2,600.00	2,582.79	2,538.00	2,496.90	7.03	8.05	102.36	-477.63	247.12	536.72	522.00	14.73	36.449		
2,700.00	2,681.99	2,636.22	2,593.04	7.15	8.20	102.31	-493.86	258.95	555.52	540.55	14.97	37.100		
2,800.00	2,781.19	2,734.44	2,689.18	7.29	8.37	102.27	-510.09	270.79	574.33	559.08	15.25	37.670		
2,900.00	2,880.40	2,832.65	2,785.32	7.43	8.55	102.23	-526.31	282.62	593.13	577.59	15.54	38.165		
3,000.00	2,979.60	2,930.87	2,881.46	7.58	8.74	102.20	-542.54	294.46	611.93	596.07	15.86	38.589		
3,100.00	3,078.80	3,029.08	2,977.60	7.74	8.94	102.16	-558.77	306.29	630.73	614.54	16.19	38.949		
3,200.00	3,178.00	3,127.30	3,073.74	7.91	9.15	102.13	-575.00	318.12	649.53	632.99	16.55	39.249		
3,300.00	3,277.21	3,225.51	3,169.88	8.09	9.38	102.10	-591.23	329.96	668.34	651.42	16.92	39.496		
3,400.00	3,376.41	3,323.73	3,266.02	8.28	9.61	102.07	-607.46	341.79	687.14	669.83	17.31	39.694		
3,500.00	3,475.61	3,421.95	3,362.16	8.48	9.85	102.04	-623.68	353.62	705.94	688.23	17.72	39.850		
3,600.00	3,574.82	3,520.16	3,458.30	8.68	10.09	102.02	-639.91	365.46	724.75	706.61	18.13	39.967		
3,700.00	3,674.02	3,618.38	3,554.44	8.88	10.35	101.99	-656.14	377.29	743.55	724.98	18.57	40.050		
3,800.00	3,773.22	3,716.59	3,650.58	9.10	10.61	101.97	-672.37	389.13	762.35	743.34	19.01	40.104		
3,900.00	3,872.42	3,814.81	3,746.72	9.32	10.88	101.95	-688.60	400.96	781.16	761.69	19.46	40.132		
4,000.00	3,971.63	3,913.02	3,842.87	9.54	11.15	101.93	-704.83	412.79	799.96	780.03	19.93	40.137		
4,100.00	4,070.83	4,011.24	3,939.01	9.77	11.43	101.91	-721.05	424.63	818.76	798.36	20.41	40.122		
4,200.00	4,170.03	4,109.46	4,035.15	10.00	11.71	101.89	-737.28	436.46	837.57	816.68	20.89	40.090		
4,300.00	4,269.23	4,207.67	4,131.29	10.24	12.00	101.87	-753.51	448.30	856.37	834.99	21.39	40.044		
4,400.00	4,368.44	4,305.89	4,227.43	10.48	12.30	101.85	-769.74	460.13	875.17	853.29	21.89	39.985		
4,500.00	4,467.64	4,404.10	4,323.57	10.72	12.59	101.83	-785.97	471.96	893.98	871.58	22.40	39.916		
4,600.00	4,566.84	4,502.32	4,419.71	10.97	12.89	101.82	-802.19	483.80	912.78	889.87	22.91	39.838		
4,700.00	4,666.05	4,600.54	4,515.85	11.22	13.20	101.80	-818.42	495.63	931.59	908.15	23.43	39.752		
4,800.00	4,765.25	4,701.25	4,611.99	11.47	13.51	101.79	-834.65	507.46	950.39	926.42	23.97	39.648		
4,900.00	4,864.45	4,803.03	4,708.13	11.73	13.83	101.77	-850.88	519.30	969.20	944.68	24.51	39.535		
5,000.00	4,963.65	4,904.82	4,804.27	11.99	14.16	101.76	-867.11	531.13	988.00	962.94	25.06	39.418		
5,100.00	5,062.86	5,006.60	4,900.41	12.25	14.49	101.74	-883.34	542.97	1,006.80	981.19	25.62	39.298		

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Anticollision Report

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

Offset Design		5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1										Offset Site Error:	0.00 usft
Survey Program:		0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,162.06	5,108.39	4,996.55	12.51	14.82	101.73	-899.56	554.80	1,025.61	999.43	26.18	39.176	
5,300.00	5,261.26	5,189.83	5,092.69	12.78	15.08	101.72	-915.79	566.63	1,044.41	1,017.73	26.68	39.141	
5,400.00	5,360.46	5,288.05	5,188.83	13.05	15.41	101.71	-932.02	578.47	1,063.22	1,035.98	27.24	39.031	
5,500.00	5,459.67	5,386.26	5,284.97	13.32	15.73	101.70	-948.25	590.30	1,082.02	1,054.22	27.80	38.919	
5,600.00	5,558.87	5,484.48	5,381.11	13.59	16.06	101.68	-964.48	602.14	1,100.83	1,072.46	28.37	38.807	
5,700.00	5,658.07	5,582.69	5,477.25	13.86	16.39	101.67	-980.71	613.97	1,119.63	1,090.70	28.93	38.695	
5,800.00	5,757.27	5,680.91	5,573.39	14.13	16.72	101.66	-996.93	625.80	1,138.44	1,108.93	29.51	38.583	
5,900.00	5,856.48	5,779.12	5,669.53	14.41	17.05	101.65	-1,013.16	637.64	1,157.24	1,127.16	30.08	38.472	
6,000.00	5,955.68	5,877.34	5,765.67	14.69	17.38	101.64	-1,029.39	649.47	1,176.05	1,145.39	30.66	38.361	
6,100.00	6,054.88	5,975.56	5,861.81	14.97	17.72	101.63	-1,045.62	661.31	1,194.85	1,163.61	31.24	38.251	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.70	-159.92	0.84	159.92					
100.00	100.00	100.00	100.00	3.28	3.28	179.70	-159.92	0.84	159.92	152.39	7.53	21.241		
200.00	200.00	200.00	200.00	3.31	3.31	179.70	-159.92	0.84	159.92	152.35	7.57	21.115	CC, ES, SF	
300.00	299.98	295.51	295.49	3.35	3.34	100.54	-161.25	1.72	161.63	153.98	7.65	21.119		
400.00	399.84	390.82	390.67	3.42	3.40	101.22	-165.22	4.35	166.77	159.00	7.77	21.468		
500.00	499.45	485.73	485.26	3.51	3.48	102.26	-171.79	8.70	175.38	167.45	7.93	22.122		
600.00	598.73	580.08	578.96	3.62	3.58	103.56	-180.90	14.75	187.44	179.31	8.14	23.035		
700.00	697.94	673.86	671.70	3.77	3.72	104.46	-192.51	22.45	202.35	193.96	8.39	24.113		
800.00	797.14	766.93	763.24	3.94	3.89	104.72	-206.52	31.74	219.81	211.12	8.69	25.295		
900.00	896.34	859.84	854.03	4.13	4.10	104.50	-222.95	42.63	239.75	230.72	9.03	26.549		
1,000.00	995.55	957.62	949.32	4.33	4.36	104.13	-241.23	54.75	260.66	251.22	9.44	27.607		
1,100.00	1,094.75	1,055.40	1,044.61	4.55	4.66	103.82	-259.50	66.87	281.57	271.68	9.89	28.475		
1,200.00	1,193.95	1,153.18	1,139.89	4.79	4.97	103.54	-277.78	78.99	302.49	292.13	10.37	29.181		
1,300.00	1,293.15	1,250.96	1,235.18	5.04	5.31	103.31	-296.05	91.11	323.42	312.55	10.87	29.753		
1,400.00	1,392.36	1,348.73	1,330.47	5.29	5.66	103.10	-314.33	103.23	344.35	332.95	11.40	30.214		
1,500.00	1,491.56	1,446.51	1,425.75	5.56	6.02	102.92	-332.61	115.35	365.28	353.34	11.94	30.593		
1,600.00	1,590.76	1,544.29	1,521.04	5.83	6.40	102.75	-350.88	127.47	386.22	373.72	12.50	30.892		
1,700.00	1,689.96	1,642.07	1,616.33	6.11	6.78	102.61	-369.16	139.59	407.16	394.09	13.08	31.134		
1,800.00	1,789.17	1,739.84	1,711.61	6.39	7.18	102.48	-387.43	151.71	428.11	414.44	13.67	31.327		
1,900.00	1,888.37	1,837.62	1,806.90	6.54	7.51	102.36	-405.71	163.83	449.05	435.36	13.69	32.790		
2,000.00	1,987.57	1,935.40	1,902.19	6.57	7.67	102.25	-423.98	175.95	470.00	456.16	13.84	33.955		
2,100.00	2,086.77	2,033.18	1,997.48	6.61	7.73	102.15	-442.26	188.07	490.95	477.03	13.92	35.267		
2,200.00	2,185.98	2,130.96	2,092.76	6.67	7.80	102.05	-460.53	200.18	511.90	497.87	14.03	36.484		
2,300.00	2,285.18	2,228.73	2,188.05	6.74	7.90	101.97	-478.81	212.30	532.85	518.68	14.17	37.601		
2,400.00	2,384.38	2,326.51	2,283.34	6.83	8.01	101.89	-497.08	224.42	553.80	539.46	14.34	38.618		
2,500.00	2,483.59	2,424.29	2,378.62	6.92	8.14	101.82	-515.36	236.54	574.75	560.21	14.54	39.534		
2,600.00	2,582.79	2,522.07	2,473.91	7.03	8.29	101.75	-533.64	248.66	595.71	580.94	14.76	40.351		
2,700.00	2,681.99	2,619.84	2,569.20	7.15	8.45	101.69	-551.91	260.78	616.66	601.65	15.01	41.073		
2,800.00	2,781.19	2,717.62	2,664.49	7.29	8.62	101.63	-570.19	272.90	637.62	622.33	15.29	41.705		
2,900.00	2,880.40	2,815.40	2,759.77	7.43	8.81	101.58	-588.46	285.02	658.57	642.98	15.59	42.252		
3,000.00	2,979.60	2,913.18	2,855.06	7.58	9.01	101.52	-606.74	297.14	679.53	663.62	15.91	42.720		
3,100.00	3,078.80	3,010.96	2,950.35	7.74	9.22	101.48	-625.01	309.26	700.48	684.24	16.25	43.116		
3,200.00	3,178.00	3,108.73	3,045.63	7.91	9.45	101.43	-643.29	321.38	721.44	704.84	16.61	43.445		
3,300.00	3,277.21	3,206.51	3,140.92	8.09	9.68	101.39	-661.56	333.50	742.40	725.42	16.98	43.714		
3,400.00	3,376.41	3,304.29	3,236.21	8.28	9.92	101.35	-679.84	345.61	763.36	745.98	17.38	43.929		
3,500.00	3,475.61	3,402.07	3,331.50	8.48	10.17	101.31	-698.11	357.73	784.31	766.53	17.79	44.096		
3,600.00	3,574.82	3,500.16	3,426.78	8.68	10.43	101.27	-716.39	369.85	805.27	787.06	18.21	44.219		
3,700.00	3,674.02	3,602.38	3,522.07	8.88	10.71	101.24	-734.67	381.97	826.23	807.57	18.66	44.281		
3,800.00	3,773.22	3,704.60	3,617.36	9.10	11.00	101.20	-752.94	394.09	847.19	828.07	19.12	44.309		
3,900.00	3,872.42	3,806.82	3,712.64	9.32	11.29	101.17	-771.22	406.21	868.15	848.56	19.59	44.309		
4,000.00	3,971.63	3,890.96	3,807.93	9.54	11.54	101.14	-789.49	418.33	889.11	869.08	20.03	44.388		
4,100.00	4,070.83	3,988.73	3,903.22	9.77	11.83	101.11	-807.77	430.45	910.07	889.56	20.51	44.366		
4,200.00	4,170.03	4,086.51	3,998.50	10.00	12.13	101.09	-826.04	442.57	931.03	910.03	21.00	44.327		
4,300.00	4,269.23	4,184.29	4,093.79	10.24	12.43	101.06	-844.32	454.69	951.99	930.49	21.50	44.271		
4,400.00	4,368.44	4,282.07	4,189.08	10.48	12.74	101.04	-862.59	466.81	972.95	950.94	22.01	44.201		
4,500.00	4,467.64	4,379.84	4,284.37	10.72	13.05	101.01	-880.87	478.93	993.91	971.38	22.53	44.120		
4,600.00	4,566.84	4,477.62	4,379.65	10.97	13.36	100.99	-899.15	491.05	1,014.87	991.82	23.05	44.030		
4,700.00	4,666.05	4,575.40	4,474.94	11.22	13.68	100.97	-917.42	503.16	1,035.83	1,012.25	23.58	43.931		
4,800.00	4,765.25	4,673.18	4,570.23	11.47	14.00	100.95	-935.70	515.28	1,056.79	1,032.68	24.11	43.825		
4,900.00	4,864.45	4,770.96	4,665.51	11.73	14.32	100.93	-953.97	527.40	1,077.75	1,053.10	24.65	43.714		
5,000.00	4,963.65	4,868.73	4,760.80	11.99	14.65	100.91	-972.25	539.52	1,098.72	1,073.52	25.20	43.599		
5,100.00	5,062.86	4,966.51	4,856.09	12.25	14.98	100.89	-990.52	551.64	1,119.68	1,093.93	25.75	43.480		

Hewlett-Packard
Anticollision Report

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

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,162.06	5,064.29	4,951.38	12.51	15.31	100.87	-1,008.80	563.76	1,140.64	1,114.33	26.31	43.359	
5,300.00	5,261.26	5,162.07	5,046.66	12.78	15.65	100.85	-1,027.07	575.88	1,161.60	1,134.73	26.87	43.235	
5,400.00	5,360.46	5,259.84	5,141.95	13.05	15.98	100.84	-1,045.35	588.00	1,182.56	1,155.13	27.43	43.110	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.73	-119.85	0.56	119.85					
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-119.85	0.56	119.85	112.32	7.53	15.919		
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-119.85	0.56	119.85	112.28	7.57	15.824	CC, ES	
300.00	299.98	297.03	297.01	3.35	3.34	100.56	-121.03	1.69	121.39	113.74	7.65	15.858		
400.00	399.84	393.91	393.76	3.42	3.40	101.19	-124.58	5.10	126.03	118.25	7.77	16.214		
500.00	499.45	490.49	489.99	3.51	3.48	102.13	-130.47	10.74	133.77	125.84	7.94	16.854		
600.00	598.73	586.63	585.45	3.62	3.59	103.26	-138.65	18.59	144.60	136.45	8.15	17.733		
700.00	697.94	682.30	680.03	3.77	3.73	103.69	-149.08	28.59	157.89	149.47	8.42	18.750		
800.00	797.14	780.03	776.22	3.94	3.92	103.45	-161.52	40.52	172.89	164.15	8.74	19.771		
900.00	896.34	878.87	873.49	4.13	4.13	103.20	-174.22	52.69	188.01	178.89	9.12	20.618		
1,000.00	995.55	977.72	970.76	4.33	4.37	102.99	-186.91	64.87	203.13	193.60	9.53	21.312		
1,100.00	1,094.75	1,076.57	1,068.03	4.55	4.64	102.82	-199.61	77.04	218.26	208.28	9.98	21.876		
1,200.00	1,193.95	1,175.42	1,165.30	4.79	4.92	102.66	-212.30	89.22	233.38	222.93	10.45	22.331		
1,300.00	1,293.15	1,274.26	1,262.57	5.04	5.21	102.52	-225.00	101.39	248.51	237.56	10.95	22.696		
1,400.00	1,392.36	1,373.11	1,359.84	5.29	5.52	102.40	-237.69	113.56	263.64	252.17	11.47	22.987		
1,500.00	1,491.56	1,471.96	1,457.11	5.56	5.84	102.29	-250.39	125.74	278.77	266.77	12.01	23.220		
1,600.00	1,590.76	1,570.81	1,554.38	5.83	6.17	102.20	-263.08	137.91	293.90	281.35	12.56	23.403		
1,700.00	1,689.96	1,669.65	1,651.65	6.11	6.50	102.11	-275.78	150.09	309.04	295.91	13.12	23.547		
1,800.00	1,789.17	1,768.50	1,748.92	6.39	6.85	102.03	-288.47	162.26	324.17	310.47	13.70	23.660		
1,900.00	1,888.37	1,867.35	1,846.19	6.54	7.09	101.96	-301.17	174.44	339.30	325.62	13.68	24.808		
2,000.00	1,987.57	1,966.20	1,943.46	6.57	7.18	101.89	-313.86	186.61	354.44	340.66	13.78	25.724		
2,100.00	2,086.77	2,065.04	2,040.73	6.61	7.23	101.83	-326.56	198.78	369.57	355.71	13.86	26.663		
2,200.00	2,185.98	2,163.89	2,138.00	6.67	7.30	101.77	-339.25	210.96	384.70	370.73	13.97	27.533		
2,300.00	2,285.18	2,262.74	2,235.27	6.74	7.38	101.72	-351.95	223.13	399.84	385.73	14.11	28.331		
2,400.00	2,384.38	2,361.58	2,332.54	6.83	7.48	101.68	-364.64	235.31	414.97	400.69	14.28	29.056		
2,500.00	2,483.59	2,460.43	2,429.81	6.92	7.60	101.63	-377.34	247.48	430.11	415.63	14.48	29.709		
2,600.00	2,582.79	2,559.28	2,527.08	7.03	7.73	101.59	-390.03	259.66	445.24	430.55	14.70	30.291		
2,700.00	2,681.99	2,658.13	2,624.35	7.15	7.87	101.55	-402.73	271.83	460.38	445.44	14.95	30.805		
2,800.00	2,781.19	2,756.97	2,721.62	7.29	8.02	101.51	-415.42	284.00	475.52	460.30	15.21	31.254		
2,900.00	2,880.40	2,855.82	2,818.89	7.43	8.19	101.48	-428.12	296.18	490.65	475.15	15.51	31.643		
3,000.00	2,979.60	2,954.67	2,916.16	7.58	8.37	101.45	-440.82	308.35	505.79	489.97	15.82	31.975		
3,100.00	3,078.80	3,053.52	3,013.43	7.74	8.56	101.42	-453.51	320.53	520.93	504.78	16.15	32.256		
3,200.00	3,178.00	3,152.36	3,110.70	7.91	8.76	101.39	-466.21	332.70	536.06	519.56	16.50	32.488		
3,300.00	3,277.21	3,251.21	3,207.97	8.09	8.97	101.36	-478.90	344.88	551.20	534.33	16.87	32.678		
3,400.00	3,376.41	3,350.06	3,305.24	8.28	9.18	101.34	-491.60	357.05	566.34	549.09	17.25	32.830		
3,500.00	3,475.61	3,448.91	3,402.51	8.48	9.41	101.31	-504.29	369.22	581.47	563.82	17.65	32.946		
3,600.00	3,574.82	3,547.75	3,499.78	8.68	9.64	101.29	-516.99	381.40	596.61	578.55	18.06	33.032		
3,700.00	3,674.02	3,646.60	3,597.05	8.88	9.88	101.27	-529.68	393.57	611.75	593.26	18.49	33.091		
3,800.00	3,773.22	3,745.45	3,694.32	9.10	10.13	101.25	-542.38	405.75	626.89	607.96	18.92	33.127		
3,900.00	3,872.42	3,844.30	3,791.59	9.32	10.38	101.23	-555.07	417.92	642.02	622.65	19.37	33.141		
4,000.00	3,971.63	3,943.14	3,888.86	9.54	10.63	101.21	-567.77	430.10	657.16	637.33	19.83	33.137		
4,100.00	4,070.83	4,041.99	3,986.13	9.77	10.90	101.19	-580.46	442.27	672.30	652.00	20.30	33.118		
4,200.00	4,170.03	4,140.84	4,083.40	10.00	11.16	101.17	-593.16	454.44	687.43	666.66	20.78	33.085		
4,300.00	4,269.23	4,239.69	4,180.67	10.24	11.44	101.16	-605.85	466.62	702.57	681.31	21.26	33.040		
4,400.00	4,368.44	4,338.53	4,277.94	10.48	11.71	101.14	-618.55	478.79	717.71	695.95	21.76	32.986		
4,500.00	4,467.64	4,437.38	4,375.21	10.72	11.99	101.13	-631.24	490.97	732.85	710.59	22.26	32.923		
4,600.00	4,566.84	4,536.23	4,472.48	10.97	12.28	101.11	-643.94	503.14	747.99	725.22	22.77	32.853		
4,700.00	4,666.05	4,635.08	4,569.74	11.22	12.56	101.10	-656.63	515.32	763.12	739.84	23.28	32.777		
4,800.00	4,765.25	4,733.92	4,667.01	11.47	12.85	101.08	-669.33	527.49	778.26	754.46	23.80	32.697		
4,900.00	4,864.45	4,832.77	4,764.28	11.73	13.14	101.07	-682.02	539.66	793.40	769.07	24.33	32.612		
5,000.00	4,963.65	4,931.62	4,861.55	11.99	13.44	101.06	-694.72	551.84	808.54	783.68	24.86	32.524		
5,100.00	5,062.86	5,030.47	4,958.82	12.25	13.74	101.05	-707.42	564.01	823.68	798.28	25.40	32.434		

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Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.06	5,129.31	5,056.09	12.51	14.04	101.04	-720.11	576.19	838.81	812.88	25.94	32.341		
5,300.00	5,261.26	5,228.16	5,153.36	12.78	14.34	101.03	-732.81	588.36	853.95	827.47	26.48	32.247		
5,400.00	5,360.46	5,327.01	5,250.63	13.05	14.65	101.01	-745.50	600.54	869.09	842.06	27.03	32.152		
5,500.00	5,459.67	5,425.86	5,347.90	13.32	14.95	101.00	-758.20	612.71	884.23	856.64	27.58	32.057		
5,600.00	5,558.87	5,524.70	5,445.17	13.59	15.26	100.99	-770.89	624.88	899.37	871.23	28.14	31.961		
5,700.00	5,658.07	5,623.55	5,542.44	13.86	15.57	100.98	-783.59	637.06	914.50	885.80	28.70	31.866		
5,800.00	5,757.27	5,722.40	5,639.71	14.13	15.88	100.98	-796.28	649.23	929.64	900.38	29.26	31.770		
5,900.00	5,856.48	5,821.24	5,736.98	14.41	16.20	100.97	-808.98	661.41	944.78	914.95	29.83	31.675		
6,000.00	5,955.68	5,920.09	5,834.25	14.69	16.51	100.96	-821.67	673.58	959.92	929.52	30.40	31.581		
6,100.00	6,054.88	6,018.94	5,931.52	14.97	16.83	100.95	-834.37	685.76	975.06	944.09	30.97	31.487		
6,200.00	6,154.09	6,117.79	6,028.79	15.25	17.15	100.94	-847.06	697.93	990.19	958.65	31.54	31.394		
6,300.00	6,253.29	6,216.63	6,126.06	15.53	17.47	100.93	-859.76	710.10	1,005.33	973.22	32.12	31.302		
6,400.00	6,352.49	6,315.48	6,223.33	15.81	17.79	100.92	-872.45	722.28	1,020.47	987.78	32.70	31.212		
6,500.00	6,451.69	6,414.33	6,320.60	16.09	18.11	100.92	-885.15	734.45	1,035.61	1,002.33	33.28	31.122		
6,600.00	6,550.93	6,513.17	6,417.87	16.37	18.43	104.27	-897.84	746.63	1,050.75	1,016.90	33.85	31.041		
6,700.00	6,650.78	6,611.34	6,514.47	16.54	18.75	-109.75	-910.45	758.72	1,065.81	1,031.52	34.30	31.076		
6,800.00	6,749.67	6,708.11	6,610.12	16.66	18.98	-94.75	-922.92	765.35	1,080.87	1,046.28	34.60	31.242		
6,900.00	6,845.16	6,807.93	6,708.65	16.73	19.14	-92.00	-935.74	756.97	1,095.82	1,061.03	34.79	31.501		
7,000.00	6,934.90	6,911.48	6,808.20	16.77	19.26	-90.81	-948.65	732.00	1,110.27	1,075.37	34.90	31.814		
7,100.00	7,016.67	7,019.17	6,906.04	16.79	19.33	-90.15	-961.31	689.16	1,123.83	1,088.87	34.96	32.145		
7,200.00	7,088.47	7,131.25	6,998.76	16.84	19.36	-89.77	-973.26	627.60	1,136.09	1,101.07	35.03	32.436		
7,300.00	7,148.53	7,247.80	7,082.29	16.95	19.35	-89.56	-983.97	547.26	1,146.65	1,111.48	35.16	32.608		
7,400.00	7,195.36	7,368.56	7,152.04	17.14	19.31	-89.46	-992.84	449.30	1,155.10	1,119.63	35.47	32.564		
7,500.00	7,227.82	7,492.93	7,203.40	17.43	19.25	-89.44	-999.30	336.44	1,161.09	1,125.07	36.02	32.232		
7,600.00	7,245.11	7,619.88	7,232.40	17.83	19.20	-89.47	-1,002.81	213.11	1,164.36	1,127.49	36.87	31.581		
7,700.00	7,248.02	7,738.62	7,237.97	18.33	19.27	-89.51	-1,003.29	94.61	1,164.92	1,126.98	37.94	30.705		
7,800.00	7,248.07	7,838.62	7,237.88	18.96	19.65	-89.50	-1,003.07	-5.39	1,164.84	1,125.69	39.16	29.748		
7,900.00	7,248.13	7,938.62	7,237.79	19.71	20.34	-89.49	-1,002.85	-105.39	1,164.77	1,124.15	40.62	28.677		
8,000.00	7,248.18	8,038.62	7,237.70	20.57	21.18	-89.48	-1,002.62	-205.39	1,164.70	1,122.40	42.29	27.538		
8,100.00	7,248.23	8,138.62	7,237.61	21.52	22.12	-89.48	-1,002.40	-305.39	1,164.62	1,120.46	44.16	26.371		
8,200.00	7,248.28	8,238.62	7,237.52	22.56	23.14	-89.47	-1,002.18	-405.39	1,164.55	1,118.35	46.20	25.206		
8,300.00	7,248.33	8,338.62	7,237.43	23.67	24.24	-89.46	-1,001.96	-505.38	1,164.48	1,116.09	48.39	24.066		
8,400.00	7,248.38	8,438.62	7,237.34	24.84	25.39	-89.46	-1,001.73	-605.38	1,164.40	1,113.70	50.70	22.967		
8,500.00	7,248.43	8,538.62	7,237.25	26.07	26.60	-89.45	-1,001.51	-705.38	1,164.33	1,111.21	53.12	21.918		
8,600.00	7,248.48	8,638.62	7,237.16	27.35	27.86	-89.44	-1,001.29	-805.38	1,164.26	1,108.61	55.64	20.923		
8,700.00	7,248.54	8,738.62	7,237.07	28.66	29.15	-89.44	-1,001.07	-905.38	1,164.18	1,105.94	58.25	19.987		
8,800.00	7,248.59	8,838.62	7,236.98	30.01	30.48	-89.43	-1,000.85	-1,005.38	1,164.11	1,103.18	60.93	19.107		
8,900.00	7,248.64	8,938.62	7,236.89	31.40	31.84	-89.42	-1,000.62	-1,105.38	1,164.04	1,100.37	63.67	18.283		
9,000.00	7,248.69	9,038.62	7,236.80	32.80	33.23	-89.41	-1,000.40	-1,205.38	1,163.96	1,097.50	66.46	17.513		
9,100.00	7,248.74	9,138.62	7,236.71	34.24	34.65	-89.41	-1,000.18	-1,305.38	1,163.89	1,094.58	69.31	16.793		
9,200.00	7,248.79	9,238.62	7,236.62	35.69	36.08	-89.40	-999.96	-1,405.38	1,163.82	1,091.62	72.20	16.120		
9,300.00	7,248.84	9,338.62	7,236.53	37.16	37.54	-89.39	-999.73	-1,505.38	1,163.74	1,088.62	75.12	15.491		
9,400.00	7,248.89	9,438.62	7,236.44	38.65	39.01	-89.39	-999.51	-1,605.38	1,163.67	1,085.59	78.08	14.903		
9,500.00	7,248.94	9,538.62	7,236.35	40.15	40.49	-89.38	-999.29	-1,705.38	1,163.60	1,082.52	81.07	14.352		
9,600.00	7,249.00	9,638.62	7,236.26	41.67	41.99	-89.37	-999.07	-1,805.38	1,163.52	1,079.43	84.09	13.836		
9,700.00	7,249.05	9,738.62	7,236.17	43.20	43.51	-89.37	-998.85	-1,905.38	1,163.45	1,076.32	87.13	13.353		
9,800.00	7,249.10	9,838.62	7,236.08	44.73	45.03	-89.36	-998.62	-2,005.38	1,163.38	1,073.18	90.20	12.898		
9,900.00	7,249.15	9,938.62	7,235.99	46.28	46.56	-89.35	-998.40	-2,105.38	1,163.30	1,070.03	93.28	12.471		
10,000.00	7,249.20	10,038.62	7,235.90	47.84	48.10	-89.34	-998.18	-2,205.38	1,163.23	1,066.85	96.38	12.070		
10,100.00	7,249.25	10,138.62	7,235.81	49.40	49.65	-89.34	-997.96	-2,305.38	1,163.16	1,063.67	99.49	11.691		
10,200.00	7,249.30	10,238.62	7,235.72	50.97	51.21	-89.33	-997.73	-2,405.38	1,163.09	1,060.46	102.62	11.334		
10,300.00	7,249.35	10,338.62	7,235.63	52.55	52.78	-89.32	-997.51	-2,505.38	1,163.01	1,057.25	105.77	10.996		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,249.41	10,438.62	7,235.54	54.13	54.35	-89.32	-997.29	-2,605.38	1,162.94	1,054.02	108.92	10.677		
10,500.00	7,249.46	10,538.62	7,235.45	55.71	55.93	-89.31	-997.07	-2,705.38	1,162.87	1,050.78	112.09	10.375		
10,600.00	7,249.51	10,638.62	7,235.36	57.31	57.51	-89.30	-996.85	-2,805.38	1,162.79	1,047.53	115.26	10.088		
10,700.00	7,249.56	10,738.62	7,235.27	58.90	59.09	-89.30	-996.62	-2,905.38	1,162.72	1,044.27	118.45	9.816		
10,800.00	7,249.61	10,838.62	7,235.18	60.50	60.69	-89.29	-996.40	-3,005.37	1,162.65	1,041.01	121.64	9.558		
10,900.00	7,249.66	10,938.62	7,235.09	62.11	62.28	-89.28	-996.18	-3,105.37	1,162.57	1,037.73	124.84	9.312		
11,000.00	7,249.71	11,038.62	7,235.01	63.72	63.88	-89.28	-995.96	-3,205.37	1,162.50	1,034.45	128.05	9.078		
11,100.00	7,249.76	11,138.62	7,234.92	65.33	65.48	-89.27	-995.73	-3,305.37	1,162.43	1,031.16	131.27	8.855		
11,200.00	7,249.82	11,238.62	7,234.83	66.94	67.09	-89.26	-995.51	-3,405.37	1,162.36	1,027.87	134.49	8.643		
11,300.00	7,249.87	11,338.62	7,234.74	68.56	68.70	-89.25	-995.29	-3,505.37	1,162.28	1,024.56	137.72	8.440		
11,400.00	7,249.92	11,438.62	7,234.65	70.18	70.31	-89.25	-995.07	-3,605.37	1,162.21	1,021.26	140.95	8.245		
11,500.00	7,249.97	11,538.62	7,234.56	71.80	71.93	-89.24	-994.85	-3,705.37	1,162.14	1,017.95	144.19	8.060		
11,600.00	7,250.02	11,638.62	7,234.47	73.42	73.54	-89.23	-994.62	-3,805.37	1,162.06	1,014.63	147.43	7.882		
11,700.00	7,250.07	11,738.62	7,234.38	75.05	75.16	-89.23	-994.40	-3,905.37	1,161.99	1,011.31	150.68	7.712		
11,800.00	7,250.12	11,838.62	7,234.29	76.68	76.78	-89.22	-994.18	-4,005.37	1,161.92	1,007.99	153.93	7.548		
11,900.00	7,250.17	11,938.62	7,234.20	78.31	78.41	-89.21	-993.96	-4,105.37	1,161.85	1,004.66	157.19	7.392		
12,000.00	7,250.22	12,038.62	7,234.11	79.94	80.03	-89.21	-993.73	-4,205.37	1,161.77	1,001.33	160.44	7.241		
12,100.00	7,250.28	12,138.62	7,234.02	81.57	81.66	-89.20	-993.51	-4,305.37	1,161.70	997.99	163.71	7.096		
12,200.00	7,250.33	12,238.62	7,233.93	83.21	83.29	-89.19	-993.29	-4,405.37	1,161.63	994.66	166.97	6.957		
12,300.00	7,250.38	12,338.62	7,233.84	84.84	84.92	-89.18	-993.07	-4,505.37	1,161.55	991.31	170.24	6.823		
12,400.00	7,250.43	12,438.62	7,233.75	86.48	86.56	-89.18	-992.85	-4,605.37	1,161.48	987.97	173.51	6.694		
12,500.00	7,250.48	12,538.62	7,233.66	88.12	88.19	-89.17	-992.62	-4,705.37	1,161.41	984.62	176.79	6.570		
12,600.00	7,250.53	12,638.62	7,233.57	89.76	89.83	-89.16	-992.40	-4,805.37	1,161.34	981.27	180.06	6.450		
12,700.00	7,250.58	12,738.62	7,233.48	91.40	91.46	-89.16	-992.18	-4,905.37	1,161.26	977.92	183.34	6.334		
12,800.00	7,250.63	12,838.62	7,233.39	93.04	93.10	-89.15	-991.96	-5,005.37	1,161.19	974.57	186.62	6.222		
12,900.00	7,250.69	12,938.62	7,233.30	94.68	94.74	-89.14	-991.73	-5,105.37	1,161.12	971.21	189.91	6.114		
13,000.00	7,250.74	13,038.62	7,233.21	96.33	96.38	-89.14	-991.51	-5,205.37	1,161.05	967.86	193.19	6.010		
13,100.00	7,250.79	13,138.62	7,233.12	97.97	98.02	-89.13	-991.29	-5,305.37	1,160.97	964.50	196.48	5.909		
13,200.00	7,250.84	13,238.62	7,233.03	99.62	99.66	-89.12	-991.07	-5,405.36	1,160.90	961.13	199.77	5.811		
13,300.00	7,250.89	13,338.62	7,232.94	101.27	101.31	-89.11	-990.85	-5,505.36	1,160.83	957.77	203.06	5.717		
13,400.00	7,250.94	13,438.62	7,232.85	102.92	102.95	-89.11	-990.62	-5,605.36	1,160.76	954.41	206.35	5.625		
13,500.00	7,250.99	13,538.62	7,232.76	104.56	104.60	-89.10	-990.40	-5,705.36	1,160.68	951.04	209.64	5.536		
13,600.00	7,251.04	13,638.62	7,232.67	106.21	106.24	-89.09	-990.18	-5,805.36	1,160.61	947.67	212.94	5.450		
13,700.00	7,251.09	13,738.62	7,232.58	107.86	107.89	-89.09	-989.96	-5,905.36	1,160.54	944.30	216.24	5.367		
13,800.00	7,251.15	13,838.62	7,232.49	109.51	109.54	-89.08	-989.73	-6,005.36	1,160.47	940.93	219.54	5.286		
13,900.00	7,251.20	13,938.62	7,232.40	111.16	111.19	-89.07	-989.51	-6,105.36	1,160.39	937.56	222.83	5.207		
14,000.00	7,251.25	14,038.62	7,232.31	112.82	112.83	-89.06	-989.29	-6,205.36	1,160.32	934.19	226.14	5.131		
14,100.00	7,251.30	14,138.62	7,232.22	114.47	114.48	-89.06	-989.07	-6,305.36	1,160.25	930.81	229.44	5.057		
14,200.00	7,251.35	14,238.61	7,232.13	116.12	116.13	-89.05	-988.85	-6,405.36	1,160.18	927.43	232.74	4.985		
14,300.00	7,251.40	14,338.61	7,232.04	117.78	117.78	-89.04	-988.62	-6,505.36	1,160.10	924.06	236.05	4.915		
14,400.00	7,251.45	14,438.61	7,231.95	119.43	119.44	-89.04	-988.40	-6,605.36	1,160.03	920.68	239.35	4.847		
14,500.00	7,251.50	14,538.61	7,231.87	121.08	121.09	-89.03	-988.18	-6,705.36	1,159.96	917.30	242.66	4.780		
14,600.00	7,251.56	14,638.61	7,231.78	122.74	122.74	-89.02	-987.96	-6,805.36	1,159.89	913.92	245.97	4.716		
14,700.00	7,251.61	14,738.61	7,231.69	124.40	124.39	-89.02	-987.73	-6,905.36	1,159.81	910.54	249.27	4.653		
14,800.00	7,251.66	14,838.61	7,231.60	126.05	126.05	-89.01	-987.51	-7,005.36	1,159.74	907.16	252.58	4.592		
14,900.00	7,251.71	14,938.61	7,231.51	127.71	127.70	-89.00	-987.29	-7,105.36	1,159.67	903.78	255.89	4.532		
15,000.00	7,251.76	15,038.61	7,231.42	129.36	129.36	-88.99	-987.07	-7,205.36	1,159.60	900.39	259.20	4.474		
15,100.00	7,251.81	15,138.61	7,231.33	131.02	131.01	-88.99	-986.85	-7,305.36	1,159.53	897.01	262.52	4.417		
15,200.00	7,251.86	15,238.61	7,231.24	132.68	132.67	-88.98	-986.62	-7,405.36	1,159.45	893.63	265.83	4.362		
15,300.00	7,251.91	15,338.61	7,231.15	134.34	134.32	-88.97	-986.40	-7,505.36	1,159.38	890.24	269.14	4.308		
15,400.00	7,251.96	15,438.61	7,231.06	135.99	135.98	-88.97	-986.18	-7,605.36	1,159.31	886.85	272.45	4.255		
15,468.95	7,252.00	15,507.57	7,231.00	137.14	137.12	-88.96	-986.03	-7,674.31	1,159.26	884.52	274.74	4.219 SF		

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Anticollision Report

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

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-129.00	-120.94	-149.34	192.17					
100.00	100.00	101.00	101.00	3.28	3.28	-129.00	-120.94	-149.34	192.17	184.64	7.53	25.524		
200.00	200.00	201.00	201.00	3.31	3.31	-129.00	-120.94	-149.34	192.17	184.59	7.57	25.371	CC, ES, SF	
300.00	299.98	296.49	296.47	3.35	3.34	151.46	-122.56	-149.46	194.87	187.21	7.65	25.457		
400.00	399.84	391.60	391.46	3.42	3.40	151.07	-127.33	-149.82	202.92	195.14	7.77	26.100		
500.00	499.45	485.90	485.42	3.51	3.48	150.48	-135.16	-150.40	216.29	208.35	7.94	27.237		
600.00	598.73	580.03	578.93	3.62	3.58	149.82	-145.98	-151.22	234.67	226.52	8.16	28.770		
700.00	697.94	678.04	676.15	3.77	3.71	149.23	-158.28	-152.14	254.39	245.98	8.41	30.241		
800.00	797.14	776.05	773.38	3.94	3.87	148.72	-170.58	-153.07	274.13	265.42	8.71	31.479		
900.00	896.34	874.05	870.61	4.13	4.05	148.29	-182.88	-153.99	293.89	284.84	9.04	32.504		
1,000.00	995.55	972.06	967.83	4.33	4.25	147.91	-195.18	-154.92	313.66	304.25	9.41	33.344		
1,100.00	1,094.75	1,070.06	1,065.06	4.55	4.46	147.57	-207.48	-155.84	333.44	323.64	9.80	34.024		
1,200.00	1,193.95	1,168.07	1,162.29	4.79	4.69	147.27	-219.78	-156.77	353.23	343.01	10.22	34.568		
1,300.00	1,293.15	1,266.08	1,259.52	5.04	4.94	147.01	-232.08	-157.69	373.03	362.37	10.66	34.999		
1,400.00	1,392.36	1,364.08	1,356.74	5.29	5.19	146.77	-244.38	-158.62	392.84	381.72	11.12	35.338		
1,500.00	1,491.56	1,462.09	1,453.97	5.56	5.45	146.55	-256.68	-159.54	412.65	401.06	11.59	35.601		
1,600.00	1,590.76	1,560.09	1,551.20	5.83	5.72	146.35	-268.98	-160.47	432.47	420.39	12.08	35.801		
1,700.00	1,689.96	1,658.10	1,648.42	6.11	6.00	146.17	-281.28	-161.39	452.29	439.71	12.58	35.950		
1,800.00	1,789.17	1,756.11	1,745.65	6.39	6.28	146.01	-293.58	-162.32	472.12	459.03	13.09	36.058		
1,900.00	1,888.37	1,854.11	1,842.88	6.54	6.49	145.86	-305.88	-163.24	491.95	478.91	13.04	37.716		
2,000.00	1,987.57	1,952.12	1,940.10	6.57	6.58	145.72	-318.18	-164.17	511.79	498.65	13.14	38.950		
2,100.00	2,086.77	2,050.12	2,037.33	6.61	6.61	145.59	-330.48	-165.09	531.62	518.42	13.20	40.264		
2,200.00	2,185.98	2,148.13	2,134.56	6.67	6.67	145.47	-342.77	-166.02	551.46	538.17	13.30	41.479		
2,300.00	2,285.18	2,246.14	2,231.78	6.74	6.73	145.36	-355.07	-166.94	571.30	557.89	13.41	42.589		
2,400.00	2,384.38	2,344.14	2,329.01	6.83	6.81	145.25	-367.37	-167.87	591.14	577.58	13.56	43.594		
2,500.00	2,483.59	2,442.15	2,426.24	6.92	6.90	145.16	-379.67	-168.79	610.99	597.26	13.73	44.493		
2,600.00	2,582.79	2,540.16	2,523.46	7.03	7.01	145.06	-391.97	-169.72	630.83	616.91	13.93	45.289		
2,700.00	2,681.99	2,638.16	2,620.69	7.15	7.13	144.98	-404.27	-170.64	650.68	636.53	14.15	45.986		
2,800.00	2,781.19	2,736.17	2,717.92	7.29	7.26	144.90	-416.57	-171.57	670.53	656.14	14.39	46.588		
2,900.00	2,880.40	2,834.17	2,815.14	7.43	7.40	144.82	-428.87	-172.49	690.38	675.72	14.66	47.101		
3,000.00	2,979.60	2,932.18	2,912.37	7.58	7.55	144.75	-441.17	-173.42	710.23	695.29	14.94	47.531		
3,100.00	3,078.80	3,030.19	3,009.60	7.74	7.71	144.68	-453.47	-174.34	730.08	714.84	15.25	47.885		
3,200.00	3,178.00	3,128.19	3,106.83	7.91	7.88	144.62	-465.77	-175.27	749.94	734.37	15.57	48.170		
3,300.00	3,277.21	3,226.20	3,204.05	8.09	8.06	144.56	-478.07	-176.19	769.79	753.88	15.91	48.392		
3,400.00	3,376.41	3,324.20	3,301.28	8.28	8.24	144.50	-490.37	-177.12	789.65	773.38	16.26	48.557		
3,500.00	3,475.61	3,422.21	3,398.51	8.48	8.44	144.44	-502.67	-178.04	809.50	792.87	16.63	48.672		
3,600.00	3,574.82	3,520.22	3,495.73	8.68	8.64	144.39	-514.97	-178.96	829.36	812.34	17.01	48.743		
3,700.00	3,674.02	3,618.22	3,592.96	8.88	8.85	144.34	-527.27	-179.89	849.22	831.80	17.41	48.775		
3,800.00	3,773.22	3,716.23	3,690.19	9.10	9.06	144.30	-539.57	-180.81	869.07	851.25	17.82	48.773		
3,900.00	3,872.42	3,814.23	3,787.41	9.32	9.28	144.25	-551.87	-181.74	888.93	870.69	18.24	48.741		
4,000.00	3,971.63	3,912.24	3,884.64	9.54	9.51	144.21	-564.17	-182.66	908.79	890.12	18.67	48.684		
4,100.00	4,070.83	4,010.25	3,981.87	9.77	9.74	144.16	-576.47	-183.59	928.65	909.54	19.11	48.605		
4,200.00	4,170.03	4,108.25	4,079.09	10.00	9.97	144.12	-588.77	-184.51	948.51	928.95	19.55	48.507		
4,300.00	4,269.23	4,206.26	4,176.32	10.24	10.21	144.09	-601.07	-185.44	968.37	948.36	20.01	48.394		
4,400.00	4,368.44	4,304.26	4,273.55	10.48	10.45	144.05	-613.37	-186.36	988.23	967.75	20.47	48.267		
4,500.00	4,467.64	4,402.27	4,370.77	10.72	10.70	144.01	-625.67	-187.29	1,008.09	987.14	20.95	48.129		
4,600.00	4,566.84	4,500.28	4,468.00	10.97	10.95	143.98	-637.97	-188.21	1,027.95	1,006.53	21.42	47.982		
4,700.00	4,666.05	4,601.72	4,565.23	11.22	11.21	143.95	-650.27	-189.14	1,047.81	1,025.89	21.92	47.809		
4,800.00	4,765.25	4,703.71	4,662.45	11.47	11.48	143.92	-662.56	-190.06	1,067.67	1,045.25	22.42	47.628		
4,900.00	4,864.45	4,805.70	4,759.68	11.73	11.75	143.89	-674.86	-190.99	1,087.53	1,064.61	22.92	47.443		
5,000.00	4,963.65	4,907.70	4,856.91	11.99	12.02	143.86	-687.16	-191.91	1,107.40	1,083.96	23.43	47.255		
5,100.00	5,062.86	5,009.69	4,954.14	12.25	12.29	143.83	-699.46	-192.84	1,127.26	1,103.31	23.95	47.065		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,162.06	5,088.31	5,051.36	12.51	12.51	143.80	-711.76	-193.76	1,147.12	1,122.71	24.41	46.991	
5,300.00	5,261.26	5,186.32	5,148.59	12.78	12.78	143.78	-724.06	-194.69	1,166.98	1,142.06	24.93	46.817	
5,400.00	5,360.46	5,284.33	5,245.82	13.05	13.05	143.75	-736.36	-195.61	1,186.85	1,161.40	25.45	46.643	
7,100.00	7,016.67	8,002.64	7,357.31	16.79	21.92	-103.10	-981.38	655.60	1,186.73	1,149.25	37.47	31.668	
7,200.00	7,088.47	7,933.37	7,357.22	16.84	21.29	-101.71	-983.12	586.36	1,171.63	1,134.37	37.26	31.448	
7,300.00	7,148.53	7,853.70	7,357.11	16.95	20.63	-99.95	-985.13	506.72	1,162.84	1,125.92	36.93	31.491	
7,400.00	7,195.36	7,757.16	7,356.73	17.14	19.95	-97.97	-987.53	410.21	1,158.77	1,122.24	36.53	31.720	
7,500.00	7,227.82	7,598.93	7,332.79	17.43	19.20	-94.60	-988.46	254.21	1,154.71	1,118.69	36.02	32.057	
7,600.00	7,245.11	7,465.50	7,283.46	17.83	18.85	-91.56	-985.37	130.53	1,149.28	1,113.41	35.87	32.040	
7,700.00	7,248.02	7,351.62	7,221.94	18.33	18.62	-88.64	-980.02	35.04	1,143.62	1,107.65	35.96	31.799	
7,800.00	7,248.07	7,261.21	7,161.68	18.96	18.44	-85.60	-974.12	-32.01	1,139.58	1,103.28	36.30	31.397	
7,854.40	7,248.10	7,220.99	7,131.98	19.37	18.36	-84.10	-971.05	-58.94	1,138.90	1,102.33	36.57	31.146	
7,900.00	7,248.13	7,191.34	7,109.03	19.71	18.30	-82.94	-968.62	-77.56	1,139.43	1,102.63	36.80	30.964	
8,000.00	7,248.18	7,136.94	7,064.82	20.57	18.18	-80.70	-963.83	-108.84	1,144.72	1,107.29	37.43	30.585	
8,100.00	7,248.23	7,093.98	7,028.12	21.52	18.09	-78.85	-959.76	-130.81	1,156.37	1,118.23	38.14	30.319	
8,200.00	7,248.28	7,059.47	6,997.65	22.56	18.01	-77.32	-956.31	-146.61	1,174.86	1,135.96	38.89	30.207	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
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	-133.41	-140.98	-149.06	205.17				
100.00	100.00	101.00	101.00	3.28	3.28	-133.41	-140.98	-149.06	205.17	197.64	7.53	27.250	
200.00	200.00	201.00	201.00	3.31	3.31	-133.41	-140.98	-149.06	205.17	197.59	7.57	27.088	CC, ES, SF
300.00	299.98	295.90	295.88	3.35	3.34	147.11	-142.58	-149.16	207.87	200.22	7.65	27.157	
400.00	399.84	390.44	390.30	3.42	3.40	146.88	-147.30	-149.46	215.92	208.15	7.77	27.777	
500.00	499.45	484.18	483.72	3.51	3.47	146.53	-155.04	-149.95	229.28	221.34	7.94	28.883	
600.00	598.73	576.78	575.69	3.62	3.57	146.15	-165.67	-150.63	247.68	239.53	8.15	30.386	
700.00	697.94	669.56	667.47	3.77	3.70	145.57	-179.24	-151.50	268.93	260.53	8.39	32.035	
800.00	797.14	767.06	763.76	3.94	3.87	144.92	-194.48	-152.47	290.96	282.27	8.69	33.465	
900.00	896.34	864.55	860.05	4.13	4.06	144.36	-209.71	-153.44	313.02	303.99	9.03	34.655	
1,000.00	995.55	962.04	956.34	4.33	4.28	143.87	-224.95	-154.41	335.11	325.71	9.41	35.631	
1,100.00	1,094.75	1,059.54	1,052.63	4.55	4.51	143.44	-240.19	-155.39	357.22	347.41	9.81	36.424	
1,200.00	1,193.95	1,157.03	1,148.92	4.79	4.76	143.06	-255.42	-156.36	379.35	369.11	10.24	37.061	
1,300.00	1,293.15	1,254.52	1,245.21	5.04	5.02	142.73	-270.66	-157.33	401.49	390.80	10.69	37.570	
1,400.00	1,392.36	1,352.01	1,341.50	5.29	5.30	142.43	-285.90	-158.30	423.64	412.48	11.16	37.973	
1,500.00	1,491.56	1,449.51	1,437.79	5.56	5.59	142.16	-301.13	-159.27	445.80	434.16	11.64	38.290	
1,600.00	1,590.76	1,547.00	1,534.08	5.83	5.88	141.91	-316.37	-160.25	467.97	455.83	12.14	38.534	
1,700.00	1,689.96	1,644.49	1,630.37	6.11	6.18	141.69	-331.61	-161.22	490.15	477.49	12.66	38.720	
1,800.00	1,789.17	1,741.98	1,726.66	6.39	6.49	141.48	-346.85	-162.19	512.33	499.15	13.18	38.860	
1,900.00	1,888.37	1,839.48	1,822.95	6.54	6.74	141.30	-362.08	-163.16	534.52	521.36	13.16	40.603	
2,000.00	1,987.57	1,936.97	1,919.24	6.57	6.86	141.13	-377.32	-164.13	556.72	543.43	13.28	41.907	
2,100.00	2,086.77	2,034.46	2,015.53	6.61	6.90	140.97	-392.56	-165.11	578.92	565.57	13.35	43.366	
2,200.00	2,185.98	2,131.96	2,111.82	6.67	6.96	140.82	-407.79	-166.08	601.12	587.68	13.44	44.715	
2,300.00	2,285.18	2,229.45	2,208.11	6.74	7.03	140.68	-423.03	-167.05	623.33	609.76	13.57	45.951	
2,400.00	2,384.38	2,326.94	2,304.40	6.83	7.12	140.56	-438.27	-168.02	645.53	631.82	13.71	47.070	
2,500.00	2,483.59	2,424.43	2,400.69	6.92	7.22	140.44	-453.51	-168.99	667.75	653.86	13.89	48.074	
2,600.00	2,582.79	2,521.93	2,496.98	7.03	7.34	140.33	-468.74	-169.97	689.96	675.87	14.09	48.964	
2,700.00	2,681.99	2,619.42	2,593.27	7.15	7.46	140.22	-483.98	-170.94	712.18	697.86	14.32	49.745	
2,800.00	2,781.19	2,716.91	2,689.56	7.29	7.60	140.12	-499.22	-171.91	734.40	719.83	14.57	50.422	
2,900.00	2,880.40	2,814.41	2,785.85	7.43	7.76	140.03	-514.45	-172.88	756.62	741.78	14.84	51.000	
3,000.00	2,979.60	2,911.90	2,882.14	7.58	7.92	139.94	-529.69	-173.86	778.84	763.72	15.13	51.487	
3,100.00	3,078.80	3,009.39	2,978.43	7.74	8.09	139.86	-544.93	-174.83	801.07	785.63	15.44	51.890	
3,200.00	3,178.00	3,106.88	3,074.72	7.91	8.27	139.79	-560.16	-175.80	823.29	807.53	15.77	52.219	
3,300.00	3,277.21	3,204.38	3,171.01	8.09	8.47	139.71	-575.40	-176.77	845.52	829.41	16.11	52.475	
3,400.00	3,376.41	3,301.87	3,267.30	8.28	8.67	139.64	-590.64	-177.74	867.75	851.28	16.48	52.670	
3,500.00	3,475.61	3,400.64	3,363.59	8.48	8.88	139.58	-605.88	-178.72	889.98	873.13	16.86	52.802	
3,600.00	3,574.82	3,503.14	3,459.88	8.68	9.10	139.51	-621.11	-179.69	912.21	894.95	17.26	52.861	
3,700.00	3,674.02	3,605.65	3,556.17	8.88	9.34	139.45	-636.35	-180.66	934.44	916.77	17.67	52.876	
3,800.00	3,773.22	3,708.16	3,652.46	9.10	9.58	139.40	-651.59	-181.63	956.68	938.58	18.10	52.854	
3,900.00	3,872.42	3,789.33	3,748.75	9.32	9.77	139.34	-666.82	-182.60	978.91	960.42	18.49	52.936	
4,000.00	3,971.63	3,886.83	3,845.04	9.54	10.01	139.29	-682.06	-183.58	1,001.14	982.21	18.93	52.885	
4,100.00	4,070.83	3,984.32	3,941.33	9.77	10.26	139.24	-697.30	-184.55	1,023.38	1,004.00	19.38	52.810	
4,200.00	4,170.03	4,081.81	4,037.62	10.00	10.51	139.19	-712.54	-185.52	1,045.62	1,025.78	19.84	52.714	
4,300.00	4,269.23	4,179.31	4,133.91	10.24	10.76	139.14	-727.77	-186.49	1,067.85	1,047.55	20.30	52.601	
4,400.00	4,368.44	4,276.80	4,230.20	10.48	11.02	139.10	-743.01	-187.46	1,090.09	1,069.32	20.77	52.473	
4,500.00	4,467.64	4,374.29	4,326.49	10.72	11.28	139.06	-758.25	-188.44	1,112.33	1,091.07	21.26	52.332	
4,600.00	4,566.84	4,471.78	4,422.78	10.97	11.55	139.02	-773.48	-189.41	1,134.57	1,112.82	21.74	52.182	
4,700.00	4,666.05	4,569.28	4,519.07	11.22	11.82	138.98	-788.72	-190.38	1,156.81	1,134.57	22.24	52.022	
4,800.00	4,765.25	4,666.77	4,615.36	11.47	12.09	138.94	-803.96	-191.35	1,179.05	1,156.31	22.74	51.857	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-137.21	-161.01	-149.06	219.42				
100.00	100.00	101.00	101.00	3.28	3.28	-137.21	-161.01	-149.06	219.42	211.89	7.53	29.143	
200.00	200.00	201.00	201.00	3.31	3.31	-137.21	-161.01	-149.06	219.42	211.84	7.57	28.969	CC, ES, SF
300.00	299.98	295.31	295.29	3.35	3.34	143.35	-162.60	-149.14	222.11	214.46	7.65	29.019	
400.00	399.84	389.28	389.14	3.42	3.40	143.25	-167.26	-149.40	230.13	222.35	7.77	29.609	
500.00	499.45	482.46	482.01	3.51	3.47	143.08	-174.91	-149.81	243.42	235.49	7.94	30.675	
600.00	598.73	574.53	573.46	3.62	3.57	142.92	-185.42	-150.38	261.73	253.58	8.15	32.128	
700.00	697.94	665.55	663.50	3.77	3.70	142.59	-198.70	-151.10	282.98	274.60	8.39	33.743	
800.00	797.14	757.17	753.68	3.94	3.86	141.96	-214.86	-151.97	306.58	297.91	8.67	35.368	
900.00	896.34	854.10	848.92	4.13	4.06	141.29	-232.83	-152.95	330.92	321.91	9.01	36.729	
1,000.00	995.55	951.02	944.16	4.33	4.29	140.71	-250.80	-153.92	355.31	345.92	9.39	37.850	
1,100.00	1,094.75	1,047.94	1,039.40	4.55	4.54	140.20	-268.77	-154.89	379.72	369.92	9.80	38.762	
1,200.00	1,193.95	1,144.87	1,134.64	4.79	4.81	139.76	-286.74	-155.87	404.15	393.92	10.23	39.498	
1,300.00	1,293.15	1,241.79	1,229.88	5.04	5.09	139.36	-304.71	-156.84	428.61	417.92	10.69	40.087	
1,400.00	1,392.36	1,338.71	1,325.11	5.29	5.39	139.01	-322.68	-157.81	453.08	441.91	11.17	40.554	
1,500.00	1,491.56	1,435.64	1,420.35	5.56	5.70	138.70	-340.65	-158.79	477.57	465.90	11.67	40.928	
1,600.00	1,590.76	1,532.56	1,515.59	5.83	6.02	138.41	-358.62	-159.76	502.07	489.89	12.18	41.216	
1,700.00	1,689.96	1,629.49	1,610.83	6.11	6.35	138.15	-376.58	-160.73	526.58	513.87	12.71	41.439	
1,800.00	1,789.17	1,726.41	1,706.07	6.39	6.68	137.92	-394.55	-161.71	551.10	537.85	13.24	41.609	
1,900.00	1,888.37	1,823.33	1,801.31	6.54	6.98	137.70	-412.52	-162.68	575.62	562.37	13.26	43.417	
2,000.00	1,987.57	1,920.26	1,896.54	6.57	7.14	137.50	-430.49	-163.65	600.16	586.75	13.41	44.770	
2,100.00	2,086.77	2,017.18	1,991.78	6.61	7.19	137.32	-448.46	-164.63	624.70	611.23	13.47	46.376	
2,200.00	2,185.98	2,114.10	2,087.02	6.67	7.25	137.15	-466.43	-165.60	649.25	635.68	13.56	47.862	
2,300.00	2,285.18	2,211.03	2,182.26	6.74	7.33	137.00	-484.40	-166.57	673.80	660.11	13.69	49.224	
2,400.00	2,384.38	2,307.95	2,277.50	6.83	7.42	136.85	-502.37	-167.55	698.35	684.51	13.84	50.459	
2,500.00	2,483.59	2,404.88	2,372.74	6.92	7.53	136.72	-520.34	-168.52	722.91	708.89	14.02	51.567	
2,600.00	2,582.79	2,501.80	2,467.97	7.03	7.66	136.59	-538.31	-169.49	747.47	733.25	14.22	52.552	
2,700.00	2,681.99	2,601.28	2,563.21	7.15	7.80	136.47	-556.28	-170.47	772.04	757.58	14.46	53.403	
2,800.00	2,781.19	2,704.35	2,658.45	7.29	7.96	136.36	-574.25	-171.44	796.61	781.89	14.72	54.120	
2,900.00	2,880.40	2,807.43	2,753.69	7.43	8.13	136.26	-592.21	-172.41	821.18	806.17	15.01	54.723	
3,000.00	2,979.60	2,889.49	2,848.93	7.58	8.28	136.16	-610.18	-173.39	845.75	830.47	15.28	55.347	
3,100.00	3,078.80	2,986.42	2,944.17	7.74	8.47	136.06	-628.15	-174.36	870.33	854.73	15.60	55.797	
3,200.00	3,178.00	3,083.34	3,039.41	7.91	8.66	135.98	-646.12	-175.33	894.91	878.97	15.93	56.163	
3,300.00	3,277.21	3,180.26	3,134.64	8.09	8.87	135.89	-664.09	-176.31	919.49	903.20	16.29	56.454	
3,400.00	3,376.41	3,277.19	3,229.88	8.28	9.08	135.81	-682.06	-177.28	944.07	927.41	16.66	56.676	
3,500.00	3,475.61	3,374.11	3,325.12	8.48	9.31	135.74	-700.03	-178.25	968.65	951.61	17.04	56.839	
3,600.00	3,574.82	3,471.04	3,420.36	8.68	9.54	135.67	-718.00	-179.23	993.24	975.80	17.44	56.947	
3,700.00	3,674.02	3,567.96	3,515.60	8.88	9.77	135.60	-735.97	-180.20	1,017.82	999.97	17.85	57.009	
3,800.00	3,773.22	3,664.88	3,610.84	9.10	10.02	135.54	-753.94	-181.17	1,042.41	1,024.13	18.28	57.029	
3,900.00	3,872.42	3,761.81	3,706.07	9.32	10.27	135.48	-771.91	-182.15	1,067.00	1,048.29	18.71	57.014	
4,000.00	3,971.63	3,858.73	3,801.31	9.54	10.52	135.42	-789.88	-183.12	1,091.59	1,072.43	19.16	56.968	
4,100.00	4,070.83	3,955.65	3,896.55	9.77	10.78	135.36	-807.84	-184.09	1,116.18	1,096.56	19.62	56.895	
4,200.00	4,170.03	4,052.58	3,991.79	10.00	11.05	135.31	-825.81	-185.07	1,140.77	1,120.69	20.08	56.799	
4,300.00	4,269.23	4,149.50	4,087.03	10.24	11.32	135.26	-843.78	-186.04	1,165.37	1,144.81	20.56	56.685	
4,400.00	4,368.44	4,246.42	4,182.27	10.48	11.59	135.21	-861.75	-187.01	1,189.96	1,168.92	21.04	56.553	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-30 Offsets Incomplete - HOMYAK 1 - XOG PR Well - No Surveys												Offset Site Error: 0.00 usft		
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error: 3.28 usft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,100.00	7,249.76	7,311.76	7,311.76	65.33	257.32	-89.82	-13.81	-4,435.18	1,146.66	868.43	278.23	4.121		
11,200.00	7,249.82	7,311.82	7,311.82	66.94	257.32	-89.83	-13.81	-4,435.18	1,048.05	769.07	278.98	3.757		
11,300.00	7,249.87	7,311.87	7,311.87	68.56	257.33	-89.85	-13.81	-4,435.18	949.73	669.80	279.93	3.393		
11,400.00	7,249.92	7,311.92	7,311.92	70.18	257.33	-89.87	-13.81	-4,435.18	851.80	570.64	281.16	3.030		
11,500.00	7,249.97	7,311.97	7,311.97	71.80	257.33	-89.88	-13.81	-4,435.18	754.41	471.62	282.79	2.668		
11,600.00	7,250.02	7,312.02	7,312.02	73.42	257.33	-89.90	-13.81	-4,435.18	657.81	372.81	285.00	2.308		
11,700.00	7,250.07	7,312.07	7,312.07	75.05	257.33	-89.91	-13.81	-4,435.18	562.40	274.29	288.11	1.952		
11,800.00	7,250.12	7,312.12	7,312.12	76.68	257.34	-89.93	-13.81	-4,435.18	468.90	176.28	292.63	1.602		
11,900.00	7,250.17	7,312.17	7,312.17	78.31	257.34	-89.95	-13.81	-4,435.18	378.75	79.32	299.43	1.265 Level 3		
12,000.00	7,250.22	7,312.22	7,312.22	79.94	257.34	-89.96	-13.81	-4,435.18	295.00	-14.94	309.94	0.952 Level 1		
12,100.00	7,250.28	7,312.28	7,312.28	81.57	257.34	-89.98	-13.81	-4,435.18	224.95	-100.38	325.33	0.691 Level 1		
12,200.00	7,250.33	7,312.33	7,312.33	83.21	257.34	-89.99	-13.81	-4,435.18	184.88	-155.20	340.09	0.544 Level 1		
12,232.12	7,250.34	7,312.34	7,312.34	83.73	257.34	-90.00	-13.81	-4,435.18	182.07	-159.58	341.65	0.533 Level 1, CC, ES, SF		
12,300.00	7,250.38	7,312.38	7,312.38	84.84	257.34	-90.01	-13.81	-4,435.18	194.32	-143.02	337.34	0.576 Level 1		
12,400.00	7,250.43	7,312.43	7,312.43	86.48	257.35	-90.03	-13.81	-4,435.18	247.66	-74.39	322.05	0.769 Level 1		
12,500.00	7,250.48	7,312.48	7,312.48	88.12	257.35	-90.04	-13.81	-4,435.18	323.90	14.94	308.97	1.048 Level 2		
12,600.00	7,250.53	7,312.53	7,312.53	89.76	257.35	-90.06	-13.81	-4,435.18	410.48	110.24	300.24	1.367 Level 3		
12,700.00	7,250.58	7,312.58	7,312.58	91.40	257.35	-90.08	-13.81	-4,435.18	502.06	207.55	294.51	1.705		
12,800.00	7,250.63	7,312.63	7,312.63	93.04	257.35	-90.09	-13.81	-4,435.18	596.36	305.71	290.65	2.052		
12,900.00	7,250.69	7,312.69	7,312.69	94.68	257.36	-90.11	-13.81	-4,435.18	692.26	404.30	287.96	2.404		
13,000.00	7,250.74	7,312.74	7,312.74	96.33	257.36	-90.12	-13.81	-4,435.18	789.18	503.15	286.02	2.759		
13,100.00	7,250.79	7,312.79	7,312.79	97.97	257.36	-90.14	-13.81	-4,435.18	886.78	602.17	284.61	3.116		
13,200.00	7,250.84	7,312.84	7,312.84	99.62	257.36	-90.16	-13.81	-4,435.18	984.86	701.32	283.54	3.473		
13,300.00	7,250.89	7,312.89	7,312.89	101.27	257.36	-90.17	-13.81	-4,435.18	1,083.30	800.56	282.74	3.831		
13,400.00	7,250.94	7,312.94	7,312.94	102.92	257.36	-90.19	-13.81	-4,435.18	1,181.99	899.88	282.12	4.190		

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL 4 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,400.00	7,250.43	7,336.43	7,336.43	86.48	258.20	-89.78	21.44	-5,738.23	1,144.92	864.35	280.57	4.081	
12,500.00	7,250.48	7,336.48	7,336.48	88.12	258.20	-89.80	21.44	-5,738.23	1,045.84	764.47	281.37	3.717	
12,600.00	7,250.53	7,336.53	7,336.53	89.76	258.20	-89.82	21.44	-5,738.23	946.97	664.58	282.38	3.353	
12,700.00	7,250.58	7,336.58	7,336.58	91.40	258.20	-89.84	21.44	-5,738.23	848.36	564.67	283.69	2.990	
12,800.00	7,250.63	7,336.63	7,336.63	93.04	258.20	-89.86	21.44	-5,738.23	750.11	464.70	285.41	2.628	
12,900.00	7,250.69	7,336.69	7,336.69	94.68	258.21	-89.87	21.44	-5,738.23	652.40	364.64	287.76	2.267	
13,000.00	7,250.74	7,336.74	7,336.74	96.33	258.21	-89.89	21.44	-5,738.23	555.50	264.42	291.08	1.908	
13,100.00	7,250.79	7,336.79	7,336.79	97.97	258.21	-89.91	21.44	-5,738.23	459.93	163.95	295.98	1.554	
13,200.00	7,250.84	7,336.84	7,336.84	99.62	258.21	-89.93	21.44	-5,738.23	366.74	63.14	303.59	1.208	Level 2
13,300.00	7,250.89	7,336.89	7,336.89	101.27	258.21	-89.95	21.44	-5,738.23	278.30	-37.76	316.06	0.881	Level 1
13,400.00	7,250.94	7,336.94	7,336.94	102.92	258.21	-89.97	21.44	-5,738.23	201.02	-135.66	336.68	0.597	Level 1
13,500.00	7,250.99	7,336.99	7,336.99	104.56	258.22	-89.99	21.44	-5,738.23	152.86	-208.00	360.87	0.424	Level 1
13,535.21	7,251.01	7,337.01	7,337.01	105.14	258.22	-90.00	21.44	-5,738.23	148.75	-215.19	363.94	0.409	Level 1, CC, ES, SF
13,600.00	7,251.04	7,337.04	7,337.04	106.21	258.22	-90.01	21.44	-5,738.23	162.25	-193.86	356.10	0.456	Level 1
13,700.00	7,251.09	7,337.09	7,337.09	107.86	258.22	-90.03	21.44	-5,738.23	222.00	-109.83	331.83	0.669	Level 1
13,800.00	7,251.15	7,337.15	7,337.15	109.51	258.22	-90.05	21.44	-5,738.23	303.71	-10.62	314.33	0.966	Level 1
13,900.00	7,251.20	7,337.20	7,337.20	111.16	258.22	-90.07	21.44	-5,738.23	393.95	90.14	303.81	1.297	Level 3
14,000.00	7,251.25	7,337.25	7,337.25	112.82	258.23	-90.09	21.44	-5,738.23	488.01	190.71	297.30	1.641	
14,100.00	7,251.30	7,337.30	7,337.30	114.47	258.23	-90.11	21.44	-5,738.23	584.05	290.99	293.06	1.993	
14,200.00	7,251.35	7,337.35	7,337.35	116.12	258.23	-90.13	21.44	-5,738.23	681.23	391.04	290.19	2.348	
14,300.00	7,251.40	7,337.40	7,337.40	117.78	258.23	-90.15	21.44	-5,738.23	779.12	490.96	288.16	2.704	
14,400.00	7,251.45	7,337.45	7,337.45	119.43	258.23	-90.17	21.44	-5,738.23	877.49	590.78	286.70	3.061	
14,500.00	7,251.50	7,337.50	7,337.50	121.08	258.23	-90.19	21.44	-5,738.23	976.19	690.56	285.63	3.418	
14,600.00	7,251.56	7,337.56	7,337.56	122.74	258.24	-90.21	21.44	-5,738.23	1,075.13	790.30	284.82	3.775	
14,700.00	7,251.61	7,337.61	7,337.61	124.40	258.24	-90.23	21.44	-5,738.23	1,174.25	890.03	284.21	4.132	

Hewlett-Packard

Anticollision Report

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

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 1023-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,400.00	7,250.94	7,453.86	7,343.14	102.92	42.98	-89.16	-663.31	-6,403.91	1,155.98	1,041.15	114.84	10.066	
13,500.00	7,250.99	7,454.76	7,344.04	104.56	42.98	-89.22	-663.31	-6,403.92	1,089.18	968.79	120.40	9.046	
13,600.00	7,251.04	7,455.66	7,344.94	106.21	42.98	-89.29	-663.32	-6,403.93	1,027.79	901.47	126.32	8.136	
13,700.00	7,251.09	7,456.56	7,345.84	107.86	42.98	-89.35	-663.32	-6,403.94	972.81	840.33	132.48	7.343	
13,800.00	7,251.15	7,457.45	7,346.73	109.51	42.98	-89.41	-663.33	-6,403.94	925.41	786.73	138.68	6.673	
13,900.00	7,251.20	7,458.34	7,347.61	111.16	42.99	-89.47	-663.33	-6,403.95	886.79	742.16	144.63	6.131	
14,000.00	7,251.25	7,459.22	7,348.50	112.82	42.99	-89.53	-663.34	-6,403.96	858.15	708.20	149.95	5.723	
14,100.00	7,251.30	7,460.10	7,349.37	114.47	42.99	-89.59	-663.34	-6,403.97	840.50	686.27	154.23	5.450	
14,199.94	7,251.35	7,460.97	7,350.25	116.12	42.99	-89.65	-663.35	-6,403.97	834.53	677.41	157.13	5.311 CC	
14,200.00	7,251.35	7,460.97	7,350.25	116.12	42.99	-89.65	-663.35	-6,403.97	834.53	677.41	157.13	5.311 ES	
14,300.00	7,251.40	7,461.84	7,351.12	117.78	42.99	-89.71	-663.35	-6,403.98	840.51	682.08	158.43	5.305 SF	
14,400.00	7,251.45	7,462.70	7,351.98	119.43	42.99	-89.77	-663.36	-6,403.99	858.18	700.05	158.13	5.427	
14,500.00	7,251.50	7,463.57	7,352.84	121.08	42.99	-89.83	-663.36	-6,403.99	886.83	730.43	156.40	5.670	
14,600.00	7,251.56	7,464.42	7,353.70	122.74	42.99	-89.89	-663.37	-6,404.00	925.46	771.90	153.56	6.027	
14,700.00	7,251.61	7,465.28	7,354.55	124.40	42.99	-89.95	-663.38	-6,404.01	972.88	822.92	149.95	6.488	
14,800.00	7,251.66	7,466.12	7,355.40	126.05	42.99	-90.00	-663.38	-6,404.02	1,027.86	881.96	145.90	7.045	
14,900.00	7,251.71	7,466.97	7,356.25	127.71	42.99	-90.06	-663.39	-6,404.02	1,089.26	947.60	141.66	7.689	
15,000.00	7,251.76	7,467.81	7,357.09	129.36	43.00	-90.12	-663.39	-6,404.03	1,156.07	1,018.63	137.43	8.412	

Hewlett-Packard

Anticollision Report

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

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

Offset Depths are relative to Offset Datum

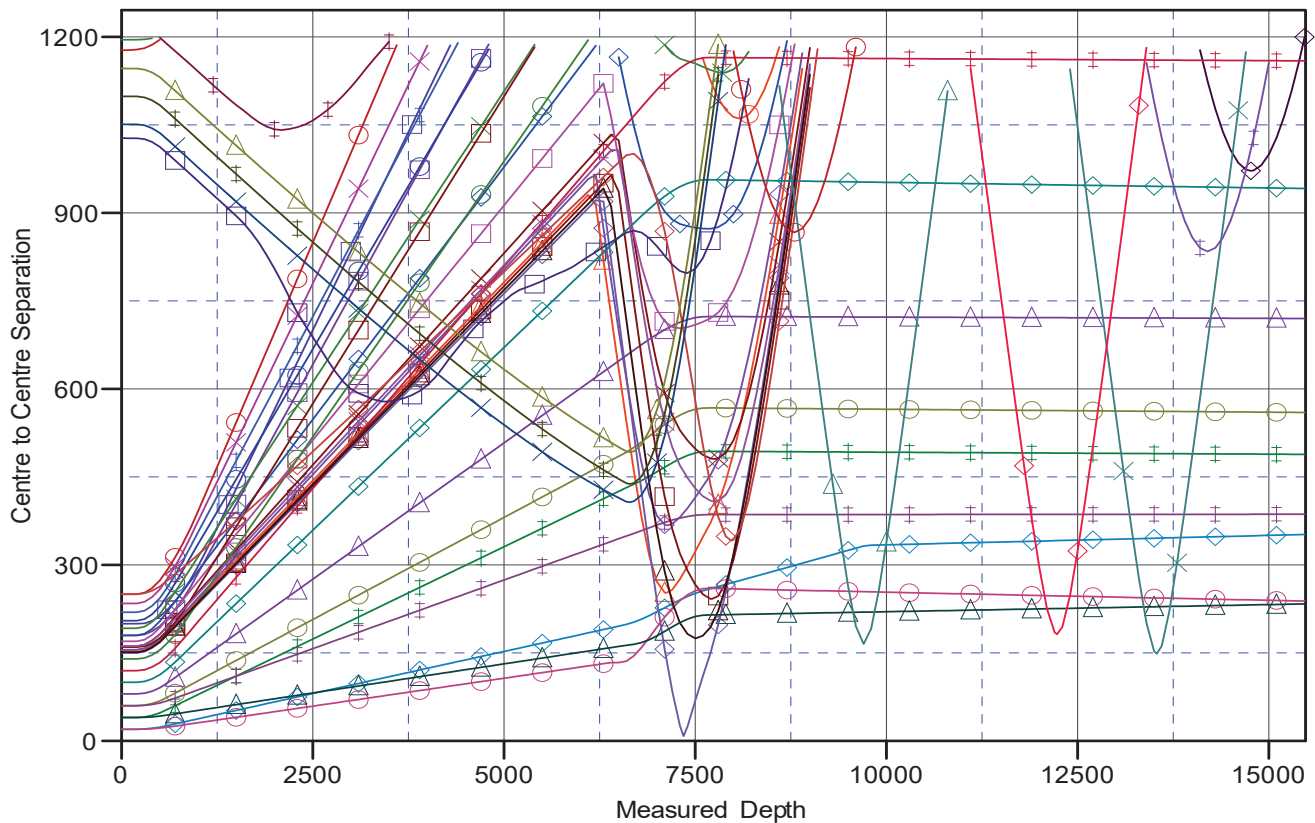
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 4N-30C-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

HSR-WIEDEMAN 14-20, Noble SI Well, No Surveys V0	SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0
KORI J 19-B, Noble SI Well, No Surveys V0	SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0
SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	HOMYAK 1, XOG PR Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	LUNDVALL 1 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 33N-30B-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 9N-30B-M, Wellbore #1, Design #1 V0	BENSLER J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5C-30-M, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	BENSLER J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLER J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 26N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	BENSLER J29-19, Noble SI Well, Actual Coretech Gross V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	KAMMERZELL J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	

Hewlett-Packard

Anticollision Report

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

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

Offset Depths are relative to Offset Datum

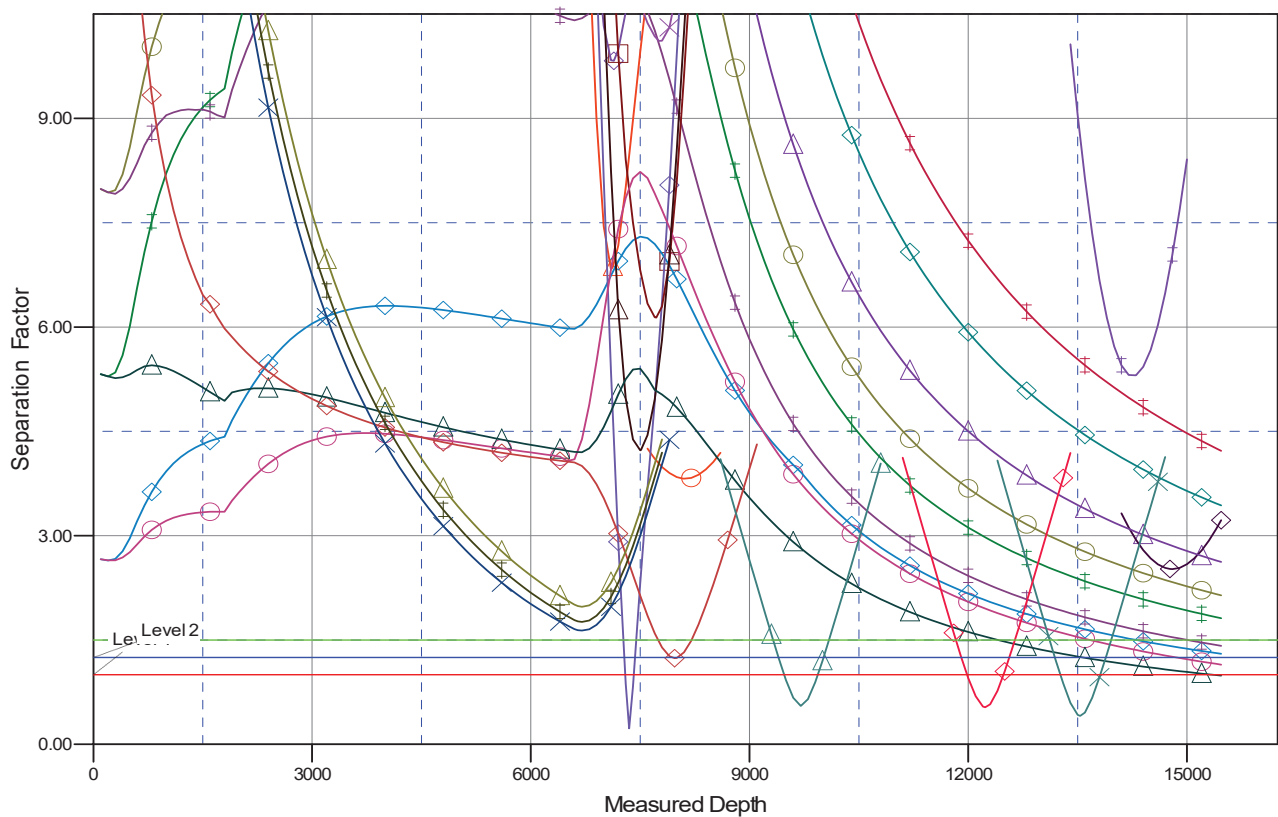
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 4N-30C-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

HSR-WIEDEMAN 14-20, Noble SI Well, No Surveys V0	SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0
KORI J 19-13, Noble SI Well, No Surveys V0	SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0
SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	HOMYAK 1, XOG PR Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	LUNDVALL J 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 9N-30B-M, Wellbore #1, Design #1 V0	BENSLEY 29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5C-30-M, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	BENSLEY J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLEY J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 26N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 26C-27-XR, Wellbore #1, Design #1 V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech (Gros V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	